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Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5
Unit Symbol	%	%	%	%	%	%	%	%	%	%
Detection Limit	0.01	0.01	0.01	0.005	0.01	0.01	0.01	0.01	0.001	0.01
Analysis Method	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP
NIST 694 Meas	11.13	1.89	0.76	0.012	0.34	42.94	0.88	0.53	0.119	30.65
NIST 694 Cert	11.2	1.8	0.79	0.0116	0.33	43.6	0.86	0.51	0.11	30.2
NIST 696 Meas	3.82	54.34	8.68	< 0.005	0.02	0.03		< 0.01	2.654	0.04
NIST 696 Cert	3.79	54.5	8.7	0.004	0.01	0.02		0.009	2.64	0.05
GBW 07238 (NCS DC 70006) Meas										
GBW 07238 (NCS DC 70006) Cert										
GBW 07238 (NCS DC 70006) Meas										
GBW 07238 (NCS DC 70006) Cert										
GBW 07238 (NCS DC 70006) Meas										
GBW 07238 (NCS DC 70006) Cert										
ZW-C Meas										
ZW-C Cert										
NCS DC86316 Meas										
NCS DC86316 Cert										
MP-1b Meas										
MP-1b Cert										
MP-1b Meas										
MP-1b Cert										
MP-1b Meas										
MP-1b Cert										
MP-1b Meas										
MP-1b Cert										
MP-1b Meas										
MP-1b Cert										
MP-1b Meas										
MP-1b Cert										
OREAS 101b (Fusion) Meas										
OREAS 101b (Fusion) Cert										
NCS DC86318 Meas										
NCS DC86318 Cert										
USZ-25-2006 /RARE-EARTH ORE CGL 111 Meas										

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Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5
Unit Symbol	%	%	%	%	%	%	%	%	%	%
Detection Limit	0.01	0.01	0.01	0.005	0.01	0.01	0.01	0.01	0.001	0.01
Analysis Method	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP
USZ-25-2006 /RARE-EARTH ORE CGL 111 Cert										
USZ-44-2007 /RARE-EARTH ORE CGL 126 Meas										
USZ-44-2007 /RARE-EARTH ORE CGL 126 Cert										
DNC-1a Meas	47.49	18.45	9.78	0.149	9.99	11.44	1.91	0.22	0.488	0.07
DNC-1a Cert	47.15	18.34	9.97	0.15	10.13	11.49	1.89	0.234	0.48	0.07
BHVO-2 Meas	50.53	13.68	12.44		7.14	11.53	2.24	0.5	2.709	0.27
BHVO-2 Cert	49.9	13.5	12.3		7.23	11.4	2.22	0.52	2.73	0.27
USZ-42-2006 /RARE-EARTH ORE CGL 124 Meas										
USZ-42-2006 /RARE-EARTH ORE CGL 124 Cert										
CPB-2 Meas										
CPB-2 Cert										
CPB-2 Meas										
CPB-2 Cert										
CZN-4 Meas										
CZN-4 Cert										
CZN-4 Meas										
CZN-4 Cert										
PTC-1b Meas										
PTC-1b Cert										
PTC-1b Meas										
PTC-1b Cert										
REE-1 Meas										
REE-1 Cert										
OREAS 922 (Peroxide Fusion) Meas										
OREAS 922 (Peroxide Fusion) Cert										
OREAS 680 (Peroxide Fusion) Meas										
OREAS 680 (Peroxide Fusion) Cert										
OREAS 680 (Peroxide Fusion) Meas										
OREAS 680 (Peroxide Fusion) Cert										
OREAS 680 (Peroxide Fusion) Meas										
OREAS 680 (Peroxide Fusion) Cert										

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Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5
Unit Symbol	%	%	%	%	%	%	%	%	%	%
Detection Limit	0.01	0.01	0.01	0.005	0.01	0.01	0.01	0.01	0.001	0.01
Analysis Method	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP
NCS DC 73334 (GBW 07708) Meas										
NCS DC 73334 (GBW 07708) Cert										
OREAS 624 (Peroxide Fusion) Meas										
OREAS 624 (Peroxide Fusion) Cert										
OREAS 148 (Peroxide Fusion) Meas										
OREAS 148 (Peroxide Fusion) Cert										
OREAS 180 (Borate Peroxide Fusion) Meas										
OREAS 180 (Borate Peroxide Fusion) Cert										
OREAS 908 (Borate Peroxide) Meas										
OREAS 908 (Borate Peroxide) Cert										
OREAS L15 Meas										
OREAS L15 Cert										
OREAS L13 Meas										
OREAS L13 Cert										
OREAS 317 (Borate Peroxide Fusion) Meas										
OREAS 317 (Borate Peroxide Fusion) Cert										
OREAS 317 (Borate Peroxide Fusion) Meas										
OREAS 317 (Borate Peroxide Fusion) Cert										
OREAS 317 (Borate Peroxide Fusion) Meas										
OREAS 317 (Borate Peroxide Fusion) Cert										
OREAS L16 Meas										
OREAS L16 Cert										
OREAS 999 (Peroxide Fusion) Meas										
OREAS 999 (Peroxide Fusion) Cert										
CDN-ME-2104 Meas										
CDN-ME-2104 Cert										
OREAS 752 (Peroxide Fusion) Meas										
OREAS 752 (Peroxide Fusion) Cert										
OREAS 149 (Peroxide Fusion) Meas										
OREAS 149 (Peroxide Fusion) Cert										
OREAS 149 (Peroxide Fusion) Meas										

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Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5
Unit Symbol	%	%	%	%	%	%	%	%	%	%
Detection Limit	0.01	0.01	0.01	0.005	0.01	0.01	0.01	0.01	0.001	0.01
Analysis Method	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP
OREAS 149 (Peroxide Fusion) Cert										
SY-5 (Fusion ICP) Meas	50.61	14.25		0.131	3.24	7.13	4.07	4.17	1.847	1.97
SY-5 (Fusion ICP) Cert	50.1	14.35		0.1283	3.235	7.12	4.15	4.17	1.777	2.04
OREAS 625 (Peroxide Fusion) Meas										
OREAS 625 (Peroxide Fusion) Cert										
OREAS 625 (Peroxide Fusion) Meas										
OREAS 625 (Peroxide Fusion) Cert										
OREAS 625 (Peroxide Fusion) Meas										
OREAS 625 (Peroxide Fusion) Cert										
OREAS 625 (Peroxide Fusion) Meas										
OREAS 625 (Peroxide Fusion) Cert										
OREAS 625 (Peroxide Fusion) Meas										
OREAS 625 (Peroxide Fusion) Cert										
AMIS 0533 (Fusion ICP) Meas	29.79	7.03		23.58	6.29	26.27			0.337	
AMIS 0533 (Fusion ICP) Cert	30.09	6.99		23.69	6.31	26.73			0.338	
USZ 50-2009/ RARE-EARTH ORE CGL 011 Meas	57.21	15.89	8.1	0.12	3.85	6.93	3.39	1.61	1.359	
USZ 50-2009/ RARE-EARTH ORE CGL 011 Cert	57.75	15.97	8.1	0.12	3.81	6.99	3.33	1.55	1.34	
OREAS 353b (Pb Titration) Meas										
OREAS 353b (Pb Titration) Cert										
OREAS 353b (Pb Titration) Meas										
OREAS 353b (Pb Titration) Cert										
1941514 Orig										
1941514 Dup										
1941521 Orig										
1941521 Dup										
1941522 Orig										
1941522 Dup										
Method Blank	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.01
Method Blank										
Method Blank										
Method Blank										

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Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5
Unit Symbol	%	%	%	%	%	%	%	%	%	%
Detection Limit	0.01	0.01	0.01	0.005	0.01	0.01	0.01	0.01	0.001	0.01
Analysis Method	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP
Method Blank										
Method Blank										
Method Blank										
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Analyte Symbol	SiO2	Total	Sc	Be	V	Ba	Sr	Y	Zr	Cr
Unit Symbol	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	0.01	1	1	5	2	2	1	2	20
Analysis Method	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS
NIST 694 Meas	11.13				1649					
NIST 694 Cert	11.2				1740					
NIST 696 Meas	3.82				396				1055	
NIST 696 Cert	3.79				403				1037	
GBW 07238 (NCS DC 70006) Meas										
GBW 07238 (NCS DC 70006) Cert										
GBW 07238 (NCS DC 70006) Meas										
GBW 07238 (NCS DC 70006) Cert										
GBW 07238 (NCS DC 70006) Meas										
GBW 07238 (NCS DC 70006) Cert										
ZW-C Meas										60
ZW-C Cert										56
NCS DC86316 Meas										
NCS DC86316 Cert										
MP-1b Meas										
MP-1b Cert										
MP-1b Meas										
MP-1b Cert										
MP-1b Meas										
MP-1b Cert										
MP-1b Meas										
MP-1b Cert										
MP-1b Meas										
MP-1b Cert										
MP-1b Meas										
MP-1b Cert										
OREAS 101b (Fusion) Meas										
OREAS 101b (Fusion) Cert										
NCS DC86318 Meas										
NCS DC86318 Cert										
USZ-25-2006 /RARE-EARTH ORE CGL 111 Meas										

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Analyte Symbol	SiO2	Total	Sc	Be	V	Ba	Sr	Y	Zr	Cr
Unit Symbol	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	0.01	1	1	5	2	2	1	2	20
Analysis Method	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS
USZ-25-2006 /RARE-EARTH ORE CGL 111 Cert										
USZ-44-2007 /RARE-EARTH ORE CGL 126 Meas										200
USZ-44-2007 /RARE-EARTH ORE CGL 126 Cert										200
DNC-1a Meas	47.49		31		153	105	144	15	37	
DNC-1a Cert	47.15		31		148	118	144	18	38	
BHVO-2 Meas	50.53		31		332	134	392	23	167	
BHVO-2 Cert	49.9		32		317	130	389	26	172	
USZ-42-2006 /RARE-EARTH ORE CGL 124 Meas										
USZ-42-2006 /RARE-EARTH ORE CGL 124 Cert										
CPB-2 Meas										
CPB-2 Cert										
CPB-2 Meas										
CPB-2 Cert										
CZN-4 Meas										
CZN-4 Cert										
CZN-4 Meas										
CZN-4 Cert										
PTC-1b Meas										
PTC-1b Cert										
PTC-1b Meas										
PTC-1b Cert										
REE-1 Meas										290
REE-1 Cert										277
OREAS 922 (Peroxide Fusion) Meas										
OREAS 922 (Peroxide Fusion) Cert										
OREAS 680 (Peroxide Fusion) Meas										
OREAS 680 (Peroxide Fusion) Cert										
OREAS 680 (Peroxide Fusion) Meas										
OREAS 680 (Peroxide Fusion) Cert										
OREAS 680 (Peroxide Fusion) Meas										
OREAS 680 (Peroxide Fusion) Cert										

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Analyte Symbol	SiO2	Total	Sc	Be	V	Ba	Sr	Y	Zr	Cr
Unit Symbol	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	0.01	1	1	5	2	2	1	2	20
Analysis Method	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS
NCS DC 73334 (GBW 07708) Meas										470
NCS DC 73334 (GBW 07708) Cert										500
OREAS 624 (Peroxide Fusion) Meas										
OREAS 624 (Peroxide Fusion) Cert										
OREAS 148 (Peroxide Fusion) Meas										
OREAS 148 (Peroxide Fusion) Cert										
OREAS 180 (Borate Peroxide Fusion) Meas										8690
OREAS 180 (Borate Peroxide Fusion) Cert										8686
OREAS 908 (Borate Peroxide) Meas										
OREAS 908 (Borate Peroxide) Cert										
OREAS L15 Meas										
OREAS L15 Cert										
OREAS L13 Meas										
OREAS L13 Cert										
OREAS 317 (Borate Peroxide Fusion) Meas										
OREAS 317 (Borate Peroxide Fusion) Cert										
OREAS 317 (Borate Peroxide Fusion) Meas										
OREAS 317 (Borate Peroxide Fusion) Cert										
OREAS 317 (Borate Peroxide Fusion) Meas										
OREAS 317 (Borate Peroxide Fusion) Cert										
OREAS L16 Meas										
OREAS L16 Cert										
OREAS 999 (Peroxide Fusion) Meas										
OREAS 999 (Peroxide Fusion) Cert										
CDN-ME-2104 Meas										
CDN-ME-2104 Cert										
OREAS 752 (Peroxide Fusion) Meas										
OREAS 752 (Peroxide Fusion) Cert										
OREAS 149 (Peroxide Fusion) Meas										
OREAS 149 (Peroxide Fusion) Cert										
OREAS 149 (Peroxide Fusion) Meas										

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Analyte Symbol	SiO2	Total	Sc	Be	V	Ba	Sr	Y	Zr	Cr
Unit Symbol	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	0.01	1	1	5	2	2	1	2	20
Analysis Method	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS
OREAS 149 (Peroxide Fusion) Cert										
SY-5 (Fusion ICP) Meas	50.61		13	5	142	6404	2976	54		
SY-5 (Fusion ICP) Cert	50.1		12.37	4.62	131.8	6480	3100	56.3		
OREAS 625 (Peroxide Fusion) Meas										
OREAS 625 (Peroxide Fusion) Cert										
OREAS 625 (Peroxide Fusion) Meas										
OREAS 625 (Peroxide Fusion) Cert										
OREAS 625 (Peroxide Fusion) Meas										
OREAS 625 (Peroxide Fusion) Cert										
OREAS 625 (Peroxide Fusion) Meas										
OREAS 625 (Peroxide Fusion) Cert										
OREAS 625 (Peroxide Fusion) Meas										
OREAS 625 (Peroxide Fusion) Cert										
AMIS 0533 (Fusion ICP) Meas	29.79					14310				
AMIS 0533 (Fusion ICP) Cert	30.09					14461				
USZ 50-2009/ RARE-EARTH ORE CGL 011 Meas	57.21		21		221	418	476	22	184	
USZ 50-2009/ RARE-EARTH ORE CGL 011 Cert	57.75		20.46		213	425	454	23.62	191	
OREAS 353b (Pb Titration) Meas										
OREAS 353b (Pb Titration) Cert										
OREAS 353b (Pb Titration) Meas										
OREAS 353b (Pb Titration) Cert										
1941514 Orig										
1941514 Dup										
1941521 Orig										
1941521 Dup										
1941522 Orig										
1941522 Dup										
Method Blank	< 0.01	< 0.01	< 1	< 1	< 5	3	3	< 1	< 2	< 20
Method Blank										
Method Blank										
Method Blank										

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Analyte Symbol	SiO2	Total	Sc	Be	V	Ba	Sr	Y	Zr	Cr
Unit Symbol	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	0.01	1	1	5	2	2	1	2	20
Analysis Method	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS
Method Blank										
Method Blank										
Method Blank										
Method Blank										
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Analyte Symbol	SiO2	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Nb	Mo
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	1	20	10	30	1	1	5	2	1	2
Analysis Method	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
NIST 694 Meas	11.13										
NIST 694 Cert	11.2										
NIST 696 Meas	3.82										
NIST 696 Cert	3.79										
GBW 07238 (NCS DC 70006) Meas											
GBW 07238 (NCS DC 70006) Cert											
GBW 07238 (NCS DC 70006) Meas											
GBW 07238 (NCS DC 70006) Cert											
GBW 07238 (NCS DC 70006) Meas											
GBW 07238 (NCS DC 70006) Cert											
ZW-C Meas					1030	103			> 1000	218	4
ZW-C Cert					1050	99			8500	198	4.3
NCS DC86316 Meas											
NCS DC86316 Cert											
MP-1b Meas											
MP-1b Cert											
MP-1b Meas											
MP-1b Cert											
MP-1b Meas											
MP-1b Cert											
MP-1b Meas											
MP-1b Cert											
MP-1b Meas											
MP-1b Cert											
MP-1b Meas											
MP-1b Cert											
OREAS 101b (Fusion) Meas		43		390							19
OREAS 101b (Fusion) Cert		47		420							21
NCS DC86318 Meas									385		
NCS DC86318 Cert									369.42		
USZ-25-2006 /RARE-EARTH ORE CGL 111 Meas			70		610						

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Analyte Symbol	SiO2	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Nb	Mo
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	1	20	10	30	1	1	5	2	1	2
Analysis Method	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
USZ-25-2006 /RARE-EARTH ORE CGL 111 Cert			70.8		600						
USZ-44-2007 /RARE-EARTH ORE CGL 126 Meas					540	62		41	619		
USZ-44-2007 /RARE-EARTH ORE CGL 126 Cert					534	64		43.7	641		
DNC-1a Meas	47.49										
DNC-1a Cert	47.15										
BHVO-2 Meas	50.53										
BHVO-2 Cert	49.9										
USZ-42-2006 /RARE-EARTH ORE CGL 124 Meas					440			243		32	34
USZ-42-2006 /RARE-EARTH ORE CGL 124 Cert					469			224		31	34.4
CPB-2 Meas											
CPB-2 Cert											
CPB-2 Meas											
CPB-2 Cert											
CZN-4 Meas											
CZN-4 Cert											
CZN-4 Meas											
CZN-4 Cert											
PTC-1b Meas											
PTC-1b Cert											
PTC-1b Meas											
PTC-1b Cert											
REE-1 Meas		1	30	80				116	> 1000	> 1000	
REE-1 Cert		1.58	24.7	79.7				124	1050	4050	
OREAS 922 (Peroxide Fusion) Meas											
OREAS 922 (Peroxide Fusion) Cert											
OREAS 680 (Peroxide Fusion) Meas											
OREAS 680 (Peroxide Fusion) Cert											
OREAS 680 (Peroxide Fusion) Meas											
OREAS 680 (Peroxide Fusion) Cert											
OREAS 680 (Peroxide Fusion) Meas											
OREAS 680 (Peroxide Fusion) Cert											

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Analyte Symbol	SiO2	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Nb	Mo
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	1	20	10	30	1	1	5	2	1	2
Analysis Method	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
NCS DC 73334 (GBW 07708) Meas		486	510	470	520			480		460	49
NCS DC 73334 (GBW 07708) Cert		500	500	500	500			500		500	50
OREAS 624 (Peroxide Fusion) Meas											
OREAS 624 (Peroxide Fusion) Cert											
OREAS 148 (Peroxide Fusion) Meas											
OREAS 148 (Peroxide Fusion) Cert											
OREAS 180 (Borate Peroxide Fusion) Meas		241	3100	100		11			6		
OREAS 180 (Borate Peroxide Fusion) Cert		253	3040	90		12			6		
OREAS 908 (Borate Peroxide) Meas		87			270	46			96		10
OREAS 908 (Borate Peroxide) Cert		93			290	45			97		9.3
OREAS L15 Meas											
OREAS L15 Cert											
OREAS L13 Meas											
OREAS L13 Cert											
OREAS 317 (Borate Peroxide Fusion) Meas											
OREAS 317 (Borate Peroxide Fusion) Cert											
OREAS 317 (Borate Peroxide Fusion) Meas											
OREAS 317 (Borate Peroxide Fusion) Cert											
OREAS 317 (Borate Peroxide Fusion) Meas											
OREAS 317 (Borate Peroxide Fusion) Cert											
OREAS L16 Meas											
OREAS L16 Cert											
OREAS 999 (Peroxide Fusion) Meas											
OREAS 999 (Peroxide Fusion) Cert											
CDN-ME-2104 Meas											
CDN-ME-2104 Cert											
OREAS 752 (Peroxide Fusion) Meas				40	100	18	6		676		
OREAS 752 (Peroxide Fusion) Cert				40	100	18	6		659		
OREAS 149 (Peroxide Fusion) Meas											
OREAS 149 (Peroxide Fusion) Cert											
OREAS 149 (Peroxide Fusion) Meas											

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Analyte Symbol	SiO2	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Nb	Mo
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	1	20	10	30	1	1	5	2	1	2
Analysis Method	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
OREAS 149 (Peroxide Fusion) Cert											
SY-5 (Fusion ICP) Meas	50.61	23	80	40		21			77	22	9
SY-5 (Fusion ICP) Cert	50.1	23	80	40		21.6			76.9	22.2	8.93
OREAS 625 (Peroxide Fusion) Meas											
OREAS 625 (Peroxide Fusion) Cert											
OREAS 625 (Peroxide Fusion) Meas											
OREAS 625 (Peroxide Fusion) Cert											
OREAS 625 (Peroxide Fusion) Meas											
OREAS 625 (Peroxide Fusion) Cert											
OREAS 625 (Peroxide Fusion) Meas											
OREAS 625 (Peroxide Fusion) Cert											
OREAS 625 (Peroxide Fusion) Meas											
OREAS 625 (Peroxide Fusion) Cert											
AMIS 0533 (Fusion ICP) Meas	29.79										
AMIS 0533 (Fusion ICP) Cert	30.09										
USZ 50-2009/ RARE-EARTH ORE CGL 011 Meas	57.21										
USZ 50-2009/ RARE-EARTH ORE CGL 011 Cert	57.75										
OREAS 353b (Pb Titration) Meas											
OREAS 353b (Pb Titration) Cert											
OREAS 353b (Pb Titration) Meas											
OREAS 353b (Pb Titration) Cert											
1941514 Orig											
1941514 Dup											
1941521 Orig											
1941521 Dup											
1941522 Orig											
1941522 Dup											
Method Blank	< 0.01	< 1	< 20	< 10	< 30	< 1	< 1	< 5	< 2	< 1	< 2
Method Blank											
Method Blank											
Method Blank											

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Analyte Symbol	SiO2	Co	Ni	Cu	Zn	Ga	Ge	As	Rb	Nb	Mo
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	1	20	10	30	1	1	5	2	1	2
Analysis Method	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
Method Blank											
Method Blank											
Method Blank											
Method Blank											
Method Blank											
Method Blank											
Method Blank											
Method Blank											
Method Blank											
Method Blank											
Method Blank											
Method Blank											
Method Blank											

Activation Laboratories

Activation Laboratories

Analyte Symbol	SiO2	Ag	In	Sn	Sb	Cs	La	Ce	Pr	Nd	Sm
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	0.5	0.2	1	0.5	0.5	0.1	0.1	0.05	0.1	0.1
Analysis Method	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
NIST 694 Meas	11.13										
NIST 694 Cert	11.2										
NIST 696 Meas	3.82										
NIST 696 Cert	3.79										
GBW 07238 (NCS DC 70006) Meas											
GBW 07238 (NCS DC 70006) Cert											
GBW 07238 (NCS DC 70006) Meas											
GBW 07238 (NCS DC 70006) Cert											
GBW 07238 (NCS DC 70006) Meas											
GBW 07238 (NCS DC 70006) Cert											
ZW-C Meas				> 1000		269	32		10	27	
ZW-C Cert				1300		260	30		9.5	25	
NCS DC86316 Meas											
NCS DC86316 Cert											
MP-1b Meas											
MP-1b Cert											
MP-1b Meas											
MP-1b Cert											
MP-1b Meas											
MP-1b Cert											
MP-1b Meas											
MP-1b Cert											
MP-1b Meas											
MP-1b Cert											
MP-1b Meas											
MP-1b Cert											
OREAS 101b (Fusion) Meas							802	1320	121	370	47.8
OREAS 101b (Fusion) Cert							789	1331	127	378	48
NCS DC86318 Meas						11.3	2000	428	768	> 2000	> 1000
NCS DC86318 Cert						11.88	1960	432	737	3429	1725
USZ-25-2006 /RARE-EARTH ORE CGL 111 Meas							> 2000	> 3000	> 1000	> 2000	856

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Analyte Symbol	SiO2	Ag	In	Sn	Sb	Cs	La	Ce	Pr	Nd	Sm
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	0.5	0.2	1	0.5	0.5	0.1	0.1	0.05	0.1	0.1
Analysis Method	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
USZ-25-2006 /RARE-EARTH ORE CGL 111 Cert							19300	29000	2800	8800	900
USZ-44-2007 /RARE-EARTH ORE CGL 126 Meas				119			446	1080	124	454	125
USZ-44-2007 /RARE-EARTH ORE CGL 126 Cert				126			434	1000	122	434	120
DNC-1a Meas	47.49										
DNC-1a Cert	47.15										
BHVO-2 Meas	50.53										
BHVO-2 Cert	49.9										
USZ-42-2006 /RARE-EARTH ORE CGL 124 Meas							> 2000	> 3000	> 1000	> 2000	485
USZ-42-2006 /RARE-EARTH ORE CGL 124 Cert							21100	27600	2300	6500	539
CPB-2 Meas											
CPB-2 Cert											
CPB-2 Meas											
CPB-2 Cert											
CZN-4 Meas											
CZN-4 Cert											
CZN-4 Meas											
CZN-4 Cert											
PTC-1b Meas											
PTC-1b Cert											
PTC-1b Meas											
PTC-1b Cert											
REE-1 Meas				494		1	1750	> 3000	463	1490	402
REE-1 Cert				498		1.07	1661	3960	435	1456	381
OREAS 922 (Peroxide Fusion) Meas											
OREAS 922 (Peroxide Fusion) Cert											
OREAS 680 (Peroxide Fusion) Meas											
OREAS 680 (Peroxide Fusion) Cert											
OREAS 680 (Peroxide Fusion) Meas											
OREAS 680 (Peroxide Fusion) Cert											
OREAS 680 (Peroxide Fusion) Meas											
OREAS 680 (Peroxide Fusion) Cert											

Activation Laboratories

Activation Laboratories

Analyte Symbol	SiO2	Ag	In	Sn	Sb	Cs	La	Ce	Pr	Nd	Sm
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	0.5	0.2	1	0.5	0.5	0.1	0.1	0.05	0.1	0.1
Analysis Method	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
NCS DC 73334 (GBW 07708) Meas				45	46.1		526	506			
NCS DC 73334 (GBW 07708) Cert				50	50		500	500			
OREAS 624 (Peroxide Fusion) Meas											
OREAS 624 (Peroxide Fusion) Cert											
OREAS 148 (Peroxide Fusion) Meas											
OREAS 148 (Peroxide Fusion) Cert											
OREAS 180 (Borate Peroxide Fusion) Meas					1.5	0.7	4.4	11	1.31	5.6	1.5
OREAS 180 (Borate Peroxide Fusion) Cert					1.5	0.6	4.8	11.7	1.45	5.7	1.5
OREAS 908 (Borate Peroxide) Meas			4.7	26	5	4.7	37.5	74.1	8.31	31.6	6.5
OREAS 908 (Borate Peroxide) Cert			5.1	26	5.2	5	38.5	74	8.56	32.8	6.5
OREAS L15 Meas											
OREAS L15 Cert											
OREAS L13 Meas											
OREAS L13 Cert											
OREAS 317 (Borate Peroxide Fusion) Meas											
OREAS 317 (Borate Peroxide Fusion) Cert											
OREAS 317 (Borate Peroxide Fusion) Meas											
OREAS 317 (Borate Peroxide Fusion) Cert											
OREAS 317 (Borate Peroxide Fusion) Meas											
OREAS 317 (Borate Peroxide Fusion) Cert											
OREAS L16 Meas											
OREAS L16 Cert											
OREAS 999 (Peroxide Fusion) Meas											
OREAS 999 (Peroxide Fusion) Cert											
CDN-ME-2104 Meas											
CDN-ME-2104 Cert											
OREAS 752 (Peroxide Fusion) Meas						66.8	1.9	3.6	0.43	1.5	0.4
OREAS 752 (Peroxide Fusion) Cert						66	1.9	3.5	0.43	1.5	0.4
OREAS 149 (Peroxide Fusion) Meas											
OREAS 149 (Peroxide Fusion) Cert											
OREAS 149 (Peroxide Fusion) Meas											

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Analyte Symbol	SiO2	Ag	In	Sn	Sb	Cs	La	Ce	Pr	Nd	Sm
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	0.5	0.2	1	0.5	0.5	0.1	0.1	0.05	0.1	0.1
Analysis Method	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
OREAS 149 (Peroxide Fusion) Cert											
SY-5 (Fusion ICP) Meas	50.61			2		0.6	229	485	54.2	207	31.1
SY-5 (Fusion ICP) Cert	50.1			2.56		0.612	225	459	55.3	208.1	31.1
OREAS 625 (Peroxide Fusion) Meas											
OREAS 625 (Peroxide Fusion) Cert											
OREAS 625 (Peroxide Fusion) Meas											
OREAS 625 (Peroxide Fusion) Cert											
OREAS 625 (Peroxide Fusion) Meas											
OREAS 625 (Peroxide Fusion) Cert											
OREAS 625 (Peroxide Fusion) Meas											
OREAS 625 (Peroxide Fusion) Cert											
OREAS 625 (Peroxide Fusion) Meas											
OREAS 625 (Peroxide Fusion) Cert											
AMIS 0533 (Fusion ICP) Meas	29.79										
AMIS 0533 (Fusion ICP) Cert	30.09										
USZ 50-2009/ RARE-EARTH ORE CGL 011 Meas	57.21										
USZ 50-2009/ RARE-EARTH ORE CGL 011 Cert	57.75										
OREAS 353b (Pb Titration) Meas											
OREAS 353b (Pb Titration) Cert											
OREAS 353b (Pb Titration) Meas											
OREAS 353b (Pb Titration) Cert											
1941514 Orig											
1941514 Dup											
1941521 Orig											
1941521 Dup											
1941522 Orig											
1941522 Dup											
Method Blank	< 0.01	< 0.5	< 0.2	< 1	< 0.5	< 0.5	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1
Method Blank											
Method Blank											
Method Blank											

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Analyte Symbol	SiO2	Ag	In	Sn	Sb	Cs	La	Ce	Pr	Nd	Sm
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	0.5	0.2	1	0.5	0.5	0.1	0.1	0.05	0.1	0.1
Analysis Method	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
Method Blank											
Method Blank											
Method Blank											
Method Blank											
Method Blank											
Method Blank											
Method Blank											
Method Blank											
Method Blank											
Method Blank											
Method Blank											
Method Blank											
Method Blank											

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Analyte Symbol	SiO2	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	0.05	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.01	0.2
Analysis Method	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
NIST 694 Meas	11.13										
NIST 694 Cert	11.2										
NIST 696 Meas	3.82										
NIST 696 Cert	3.79										
GBW 07238 (NCS DC 70006) Meas											
GBW 07238 (NCS DC 70006) Cert											
GBW 07238 (NCS DC 70006) Meas											
GBW 07238 (NCS DC 70006) Cert											
GBW 07238 (NCS DC 70006) Meas											
GBW 07238 (NCS DC 70006) Cert											
ZW-C Meas			5.1			2.1		1.7		2.38	10.3
ZW-C Cert			4.7			2		1.6		2.2	9.7
NCS DC86316 Meas											771
NCS DC86316 Cert											712
MP-1b Meas											
MP-1b Cert											
MP-1b Meas											
MP-1b Cert											
MP-1b Meas											
MP-1b Cert											
MP-1b Meas											
MP-1b Cert											
MP-1b Meas											
MP-1b Cert											
MP-1b Meas											
MP-1b Cert											
OREAS 101b (Fusion) Meas		7.6		5.1	30.6	6.1	18	2.63	17.1	2.54	
OREAS 101b (Fusion) Cert		7.77		5.37	32.1	6.34	18.7	2.66	17.6	2.58	
NCS DC86318 Meas		18.9	> 1000	497	> 1000		> 1000	279	> 1000	251	
NCS DC86318 Cert		18.91	2168	468	3224		1750	271	1844	264	
USZ-25-2006 /RARE-EARTH ORE CGL 111 Meas		200							52.3		

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Analyte Symbol	SiO2	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	0.05	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.01	0.2
Analysis Method	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
USZ-25-2006 /RARE-EARTH ORE CGL 111 Cert		211							54.5		
USZ-44-2007 /RARE-EARTH ORE CGL 126 Meas		8.2									402
USZ-44-2007 /RARE-EARTH ORE CGL 126 Cert		8.3									400
DNC-1a Meas	47.49										
DNC-1a Cert	47.15										
BHVO-2 Meas	50.53										
BHVO-2 Cert	49.9										
USZ-42-2006 /RARE-EARTH ORE CGL 124 Meas		82				7.3			16.8		
USZ-42-2006 /RARE-EARTH ORE CGL 124 Cert		87.22				7.86			17.85		
CPB-2 Meas											
CPB-2 Cert											
CPB-2 Meas											
CPB-2 Cert											
CZN-4 Meas											
CZN-4 Cert											
CZN-4 Meas											
CZN-4 Cert											
PTC-1b Meas											
PTC-1b Cert											
PTC-1b Meas											
PTC-1b Cert											
REE-1 Meas		24.5	448	109	892	210	707	111	702		480
REE-1 Cert		23.5	433	106	847	208	701	106	678		479
OREAS 922 (Peroxide Fusion) Meas											
OREAS 922 (Peroxide Fusion) Cert											
OREAS 680 (Peroxide Fusion) Meas											
OREAS 680 (Peroxide Fusion) Cert											
OREAS 680 (Peroxide Fusion) Meas											
OREAS 680 (Peroxide Fusion) Cert											
OREAS 680 (Peroxide Fusion) Meas											
OREAS 680 (Peroxide Fusion) Cert											

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Analyte Symbol	SiO2	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	0.05	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.01	0.2
Analysis Method	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
NCS DC 73334 (GBW 07708) Meas									47.6		
NCS DC 73334 (GBW 07708) Cert									50		
OREAS 624 (Peroxide Fusion) Meas											
OREAS 624 (Peroxide Fusion) Cert											
OREAS 148 (Peroxide Fusion) Meas											
OREAS 148 (Peroxide Fusion) Cert											
OREAS 180 (Borate Peroxide Fusion) Meas		0.4				0.3			0.9		1.8
OREAS 180 (Borate Peroxide Fusion) Cert		0.43				0.3			1		2
OREAS 908 (Borate Peroxide) Meas		1.74	4.9	0.7	3.7	0.6	1.5	0.2	1.4	0.21	5.7
OREAS 908 (Borate Peroxide) Cert		1.82	5.3	0.7	3.7	0.6	1.6	0.21	1.3	0.2	6.1
OREAS L15 Meas											
OREAS L15 Cert											
OREAS L13 Meas											
OREAS L13 Cert											
OREAS 317 (Borate Peroxide Fusion) Meas											
OREAS 317 (Borate Peroxide Fusion) Cert											
OREAS 317 (Borate Peroxide Fusion) Meas											
OREAS 317 (Borate Peroxide Fusion) Cert											
OREAS 317 (Borate Peroxide Fusion) Meas											
OREAS 317 (Borate Peroxide Fusion) Cert											
OREAS L16 Meas											
OREAS L16 Cert											
OREAS 999 (Peroxide Fusion) Meas											
OREAS 999 (Peroxide Fusion) Cert											
CDN-ME-2104 Meas											
CDN-ME-2104 Cert											
OREAS 752 (Peroxide Fusion) Meas			0.3		0.4	< 0.1	0.1				
OREAS 752 (Peroxide Fusion) Cert			0.4		0.4	0.05	0.1				
OREAS 149 (Peroxide Fusion) Meas											
OREAS 149 (Peroxide Fusion) Cert											
OREAS 149 (Peroxide Fusion) Meas											

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Analyte Symbol	SiO2	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	0.05	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.01	0.2
Analysis Method	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
OREAS 149 (Peroxide Fusion) Cert											
SY-5 (Fusion ICP) Meas	50.61	7.63	18	2.3	11.4	2	5.3	0.72	4.6	0.72	13.8
SY-5 (Fusion ICP) Cert	50.1	7.64	19.8	2.26	11.33	2.04	5.38	0.725	4.64	0.702	15.3
OREAS 625 (Peroxide Fusion) Meas											
OREAS 625 (Peroxide Fusion) Cert											
OREAS 625 (Peroxide Fusion) Meas											
OREAS 625 (Peroxide Fusion) Cert											
OREAS 625 (Peroxide Fusion) Meas											
OREAS 625 (Peroxide Fusion) Cert											
OREAS 625 (Peroxide Fusion) Meas											
OREAS 625 (Peroxide Fusion) Cert											
OREAS 625 (Peroxide Fusion) Meas											
OREAS 625 (Peroxide Fusion) Cert											
AMIS 0533 (Fusion ICP) Meas	29.79										
AMIS 0533 (Fusion ICP) Cert	30.09										
USZ 50-2009/ RARE-EARTH ORE CGL 011 Meas	57.21										
USZ 50-2009/ RARE-EARTH ORE CGL 011 Cert	57.75										
OREAS 353b (Pb Titration) Meas											
OREAS 353b (Pb Titration) Cert											
OREAS 353b (Pb Titration) Meas											
OREAS 353b (Pb Titration) Cert											
1941514 Orig											
1941514 Dup											
1941521 Orig											
1941521 Dup											
1941522 Orig											
1941522 Dup											
Method Blank	< 0.01	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.05	< 0.1	< 0.01	< 0.2
Method Blank											
Method Blank											
Method Blank											

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Analyte Symbol	SiO2	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu	Hf
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	0.05	0.1	0.1	0.1	0.1	0.1	0.05	0.1	0.01	0.2
Analysis Method	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
Method Blank											
Method Blank											
Method Blank											
Method Blank											
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Method Blank											
Method Blank											

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Analyte Symbol	SiO2	Ta	W	Tl	Pb	Bi	Th	U	Ag	Mo
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne	%
Detection Limit	0.01	0.1	1	0.1	5	0.4	0.1	0.1	3	0.001
Analysis Method	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FA-GRA	FUS-Na2O2
NIST 694 Meas	11.13									
NIST 694 Cert	11.2									
NIST 696 Meas	3.82									
NIST 696 Cert	3.79									
GBW 07238 (NCS DC 70006) Meas										1.52
GBW 07238 (NCS DC 70006) Cert										1.51
GBW 07238 (NCS DC 70006) Meas										1.52
GBW 07238 (NCS DC 70006) Cert										1.51
GBW 07238 (NCS DC 70006) Meas										1.49
GBW 07238 (NCS DC 70006) Cert										1.51
ZW-C Meas		80.4	324	34.5	79		46.1	19.3		
ZW-C Cert		82	320	34	80		43	20		
NCS DC86316 Meas			5				197			
NCS DC86316 Cert			5.01				202			
MP-1b Meas										0.033
MP-1b Cert										0.029
MP-1b Meas										0.029
MP-1b Cert										0.029
MP-1b Meas										0.029
MP-1b Cert										0.029
MP-1b Meas										0.034
MP-1b Cert										0.029
MP-1b Meas										0.029
MP-1b Cert										0.029
MP-1b Meas										0.032
MP-1b Cert										0.029
OREAS 101b (Fusion) Meas							35.5	410		
OREAS 101b (Fusion) Cert							37.1	396		
NCS DC86318 Meas							67.2			
NCS DC86318 Cert							67			
USZ-25-2006 /RARE-EARTH ORE CGL 111 Meas					1140					

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Analyte Symbol	SiO2	Ta	W	Tl	Pb	Bi	Th	U	Ag	Mo
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne	%
Detection Limit	0.01	0.1	1	0.1	5	0.4	0.1	0.1	3	0.001
Analysis Method	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FA-GRA	FUS-Na2O2
USZ-25-2006 /RARE-EARTH ORE CGL 111 Cert					1100					
USZ-44-2007 /RARE-EARTH ORE CGL 126 Meas		114					206	56.5		
USZ-44-2007 /RARE-EARTH ORE CGL 126 Cert		123					202	57		
DNC-1a Meas	47.49									
DNC-1a Cert	47.15									
BHVO-2 Meas	50.53									
BHVO-2 Cert	49.9									
USZ-42-2006 /RARE-EARTH ORE CGL 124 Meas					1680		935			
USZ-42-2006 /RARE-EARTH ORE CGL 124 Cert					1600		946			
CPB-2 Meas										
CPB-2 Cert										
CPB-2 Meas										
CPB-2 Cert										
CZN-4 Meas										
CZN-4 Cert										
CZN-4 Meas										
CZN-4 Cert										
PTC-1b Meas										
PTC-1b Cert										
PTC-1b Meas										
PTC-1b Cert										
REE-1 Meas								144		
REE-1 Cert								137		
OREAS 922 (Peroxide Fusion) Meas										
OREAS 922 (Peroxide Fusion) Cert										
OREAS 680 (Peroxide Fusion) Meas										
OREAS 680 (Peroxide Fusion) Cert										
OREAS 680 (Peroxide Fusion) Meas										
OREAS 680 (Peroxide Fusion) Cert										
OREAS 680 (Peroxide Fusion) Meas										
OREAS 680 (Peroxide Fusion) Cert										

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Analyte Symbol	SiO2	Ta	W	Tl	Pb	Bi	Th	U	Ag	Mo
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne	%
Detection Limit	0.01	0.1	1	0.1	5	0.4	0.1	0.1	3	0.001
Analysis Method	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FA-GRA	FUS-Na2O2
NCS DC 73334 (GBW 07708) Meas			45			45.2				
NCS DC 73334 (GBW 07708) Cert			50			50				
OREAS 624 (Peroxide Fusion) Meas										< 0.001
OREAS 624 (Peroxide Fusion) Cert										0.00178
OREAS 148 (Peroxide Fusion) Meas										< 0.001
OREAS 148 (Peroxide Fusion) Cert										0.001
OREAS 180 (Borate Peroxide Fusion) Meas							3.5	1.2		
OREAS 180 (Borate Peroxide Fusion) Cert							3.5	1.2		
OREAS 908 (Borate Peroxide) Meas			4	0.6			10.9	3.8		
OREAS 908 (Borate Peroxide) Cert			4	0.6			10.9	3.8		
OREAS L15 Meas										
OREAS L15 Cert										
OREAS L13 Meas										
OREAS L13 Cert										
OREAS 317 (Borate Peroxide Fusion) Meas										0.005
OREAS 317 (Borate Peroxide Fusion) Cert										0.0044
OREAS 317 (Borate Peroxide Fusion) Meas										0.004
OREAS 317 (Borate Peroxide Fusion) Cert										0.0044
OREAS 317 (Borate Peroxide Fusion) Meas										0.004
OREAS 317 (Borate Peroxide Fusion) Cert										0.0044
OREAS L16 Meas										
OREAS L16 Cert										
OREAS 999 (Peroxide Fusion) Meas										< 0.001
OREAS 999 (Peroxide Fusion) Cert										0.000227
CDN-ME-2104 Meas									125	
CDN-ME-2104 Cert									126	
OREAS 752 (Peroxide Fusion) Meas		41.6	5	4			1	8.2		< 0.001
OREAS 752 (Peroxide Fusion) Cert		41	5.11	3.84			0.97	8.4		0.000338
OREAS 149 (Peroxide Fusion) Meas										< 0.001
OREAS 149 (Peroxide Fusion) Cert										0.001
OREAS 149 (Peroxide Fusion) Meas										< 0.001

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Analyte Symbol	SiO2	Ta	W	Tl	Pb	Bi	Th	U	Ag	Mo
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne	%
Detection Limit	0.01	0.1	1	0.1	5	0.4	0.1	0.1	3	0.001
Analysis Method	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FA-GRA	FUS-Na2O2
OREAS 149 (Peroxide Fusion) Cert										0.001
SY-5 (Fusion ICP) Meas	50.61	1		0.6			26.5	5.3		
SY-5 (Fusion ICP) Cert	50.1	1.06		0.614			25.2	5.09		
OREAS 625 (Peroxide Fusion) Meas										0.008
OREAS 625 (Peroxide Fusion) Cert										0.00137
OREAS 625 (Peroxide Fusion) Meas										< 0.001
OREAS 625 (Peroxide Fusion) Cert										0.00137
OREAS 625 (Peroxide Fusion) Meas										< 0.001
OREAS 625 (Peroxide Fusion) Cert										0.00137
OREAS 625 (Peroxide Fusion) Meas										< 0.001
OREAS 625 (Peroxide Fusion) Cert										0.00137
OREAS 625 (Peroxide Fusion) Meas										0.002
OREAS 625 (Peroxide Fusion) Cert										0.00137
AMIS 0533 (Fusion ICP) Meas	29.79									
AMIS 0533 (Fusion ICP) Cert	30.09									
USZ 50-2009/ RARE-EARTH ORE CGL 011 Meas	57.21									
USZ 50-2009/ RARE-EARTH ORE CGL 011 Cert	57.75									
OREAS 353b (Pb Titration) Meas										
OREAS 353b (Pb Titration) Cert										
OREAS 353b (Pb Titration) Meas										
OREAS 353b (Pb Titration) Cert										
1941514 Orig										
1941514 Dup										
1941521 Orig										
1941521 Dup										
1941522 Orig									506	
1941522 Dup									463	
Method Blank	< 0.01	< 0.1	< 1	< 0.1	< 5	< 0.4	< 0.1	< 0.1		
Method Blank									< 3	
Method Blank									< 3	
Method Blank										

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Analyte Symbol	SiO2	Ta	W	Tl	Pb	Bi	Th	U	Ag	Mo
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	g/tonne	%
Detection Limit	0.01	0.1	1	0.1	5	0.4	0.1	0.1	3	0.001
Analysis Method	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FA-GRA	FUS-Na2O2
Method Blank										
Method Blank										0.002
Method Blank										< 0.001
Method Blank										< 0.001
Method Blank										< 0.001
Method Blank										< 0.001
Method Blank										0.001
Method Blank										0.006
Method Blank										< 0.001
Method Blank										< 0.001
Method Blank										< 0.001
Method Blank										
Method Blank										

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Analyte Symbol	SiO2	Pb	Zn	Au	Au	Pb
Unit Symbol	%	%	%	ppb	g/tonne	%
Detection Limit	0.01	0.01	0.01	5	0.03	0.1
Analysis Method	FUS-ICP	FUS-Na2O2	FUS-Na2O2	FA-AA	FA-GRA	TITR
NIST 694 Meas	11.13					
NIST 694 Cert	11.2					
NIST 696 Meas	3.82					
NIST 696 Cert	3.79					
GBW 07238 (NCS DC 70006) Meas		0.01	< 0.01			
GBW 07238 (NCS DC 70006) Cert		0.00187	0.00655			
GBW 07238 (NCS DC 70006) Meas		< 0.01	< 0.01			
GBW 07238 (NCS DC 70006) Cert		0.00187	0.00655			
GBW 07238 (NCS DC 70006) Meas		< 0.01	< 0.01			
GBW 07238 (NCS DC 70006) Cert		0.00187	0.00655			
ZW-C Meas						
ZW-C Cert						
NCS DC86316 Meas						
NCS DC86316 Cert						
MP-1b Meas		2.06	16.7			
MP-1b Cert		2.09	16.7			
MP-1b Meas		2.06	16.6			
MP-1b Cert		2.09	16.7			
MP-1b Meas		2.09	16.9			
MP-1b Cert		2.09	16.7			
MP-1b Meas		2.02	16.2			
MP-1b Cert		2.09	16.7			
MP-1b Meas		2.06	16.9			
MP-1b Cert		2.09	16.7			
MP-1b Meas		2.06	16.7			
MP-1b Cert		2.09	16.7			
OREAS 101b (Fusion) Meas						
OREAS 101b (Fusion) Cert						
NCS DC86318 Meas						
NCS DC86318 Cert						
USZ-25-2006 /RARE-EARTH ORE CGL 111 Meas						

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Analyte Symbol	SiO2	Pb	Zn	Au	Au	Pb
Unit Symbol	%	%	%	ppb	g/tonne	%
Detection Limit	0.01	0.01	0.01	5	0.03	0.1
Analysis Method	FUS-ICP	FUS-Na2O2	FUS-Na2O2	FA-AA	FA-GRA	TITR
USZ-25-2006 /RARE-EARTH ORE CGL 111 Cert						
USZ-44-2007 /RARE-EARTH ORE CGL 126 Meas						
USZ-44-2007 /RARE-EARTH ORE CGL 126 Cert						
DNC-1a Meas	47.49					
DNC-1a Cert	47.15					
BHVO-2 Meas	50.53					
BHVO-2 Cert	49.9					
USZ-42-2006 /RARE-EARTH ORE CGL 124 Meas						
USZ-42-2006 /RARE-EARTH ORE CGL 124 Cert						
CPB-2 Meas		> 30.0	5.97			63.34
CPB-2 Cert		63.52	6.04			63.52
CPB-2 Meas						63.08
CPB-2 Cert						63.52
CZN-4 Meas		0.19	> 50.0			
CZN-4 Cert		0.1861	55.07			
CZN-4 Meas		0.19	> 50.0			
CZN-4 Cert		0.1861	55.07			
PTC-1b Meas		0.09	0.2			
PTC-1b Cert		0.08	0.2083			
PTC-1b Meas		0.09	0.21			
PTC-1b Cert		0.08	0.2083			
REE-1 Meas						
REE-1 Cert						
OREAS 922 (Peroxide Fusion) Meas		< 0.01	0.03			
OREAS 922 (Peroxide Fusion) Cert		0.006	0.03			
OREAS 680 (Peroxide Fusion) Meas		0.26	0.23			
OREAS 680 (Peroxide Fusion) Cert		0.258	0.232			
OREAS 680 (Peroxide Fusion) Meas		0.26	0.23			
OREAS 680 (Peroxide Fusion) Cert		0.258	0.232			
OREAS 680 (Peroxide Fusion) Meas		0.26	0.23			
OREAS 680 (Peroxide Fusion) Cert		0.258	0.232			

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Analyte Symbol	SiO2	Pb	Zn	Au	Au	Pb
Unit Symbol	%	%	%	ppb	g/tonne	%
Detection Limit	0.01	0.01	0.01	5	0.03	0.1
Analysis Method	FUS-ICP	FUS-Na2O2	FUS-Na2O2	FA-AA	FA-GRA	TITR
NCS DC 73334 (GBW 07708) Meas						
NCS DC 73334 (GBW 07708) Cert						
OREAS 624 (Peroxide Fusion) Meas		0.61	2.37			
OREAS 624 (Peroxide Fusion) Cert		0.612	2.41			
OREAS 148 (Peroxide Fusion) Meas			0.01			
OREAS 148 (Peroxide Fusion) Cert			0.02			
OREAS 180 (Borate Peroxide Fusion) Meas						
OREAS 180 (Borate Peroxide Fusion) Cert						
OREAS 908 (Borate Peroxide) Meas						
OREAS 908 (Borate Peroxide) Cert						
OREAS L15 Meas				6920	7.07	
OREAS L15 Cert				7180	7.18	
OREAS L13 Meas				1280		
OREAS L13 Cert				1290		
OREAS 317 (Borate Peroxide Fusion) Meas		12.2	17.6			
OREAS 317 (Borate Peroxide Fusion) Cert		12.09	17.38			
OREAS 317 (Borate Peroxide Fusion) Meas		12	17.3			
OREAS 317 (Borate Peroxide Fusion) Cert		12.09	17.38			
OREAS 317 (Borate Peroxide Fusion) Meas		12.4	17.8			
OREAS 317 (Borate Peroxide Fusion) Cert		12.09	17.38			
OREAS L16 Meas					13.3	
OREAS L16 Cert					12.97	
OREAS 999 (Peroxide Fusion) Meas			< 0.01			
OREAS 999 (Peroxide Fusion) Cert			0.0077			
CDN-ME-2104 Meas						
CDN-ME-2104 Cert						
OREAS 752 (Peroxide Fusion) Meas			< 0.01			
OREAS 752 (Peroxide Fusion) Cert			0.01			
OREAS 149 (Peroxide Fusion) Meas		< 0.01	0.04			
OREAS 149 (Peroxide Fusion) Cert		0.004	0.03			
OREAS 149 (Peroxide Fusion) Meas		< 0.01	0.03			

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Analyte Symbol	SiO2	Pb	Zn	Au	Au	Pb
Unit Symbol	%	%	%	ppb	g/tonne	%
Detection Limit	0.01	0.01	0.01	5	0.03	0.1
Analysis Method	FUS-ICP	FUS-Na2O2	FUS-Na2O2	FA-AA	FA-GRA	TITR
OREAS 149 (Peroxide Fusion) Cert		0.004	0.03			
SY-5 (Fusion ICP) Meas	50.61					
SY-5 (Fusion ICP) Cert	50.1					
OREAS 625 (Peroxide Fusion) Meas		0.8	3.13			
OREAS 625 (Peroxide Fusion) Cert		0.806	3.2			
OREAS 625 (Peroxide Fusion) Meas		0.79	2.95			
OREAS 625 (Peroxide Fusion) Cert		0.806	3.2			
OREAS 625 (Peroxide Fusion) Meas		0.81	3.17			
OREAS 625 (Peroxide Fusion) Cert		0.806	3.2			
OREAS 625 (Peroxide Fusion) Meas		0.8	3.2			
OREAS 625 (Peroxide Fusion) Cert		0.806	3.2			
OREAS 625 (Peroxide Fusion) Meas		0.8	3.14			
OREAS 625 (Peroxide Fusion) Cert		0.806	3.2			
AMIS 0533 (Fusion ICP) Meas	29.79					
AMIS 0533 (Fusion ICP) Cert	30.09					
USZ 50-2009/ RARE-EARTH ORE CGL 011 Meas	57.21					
USZ 50-2009/ RARE-EARTH ORE CGL 011 Cert	57.75					
OREAS 353b (Pb Titration) Meas						64.88
OREAS 353b (Pb Titration) Cert						64.58
OREAS 353b (Pb Titration) Meas						65.15
OREAS 353b (Pb Titration) Cert						64.58
1941514 Orig				904		
1941514 Dup				894		
1941521 Orig						48.9
1941521 Dup						48.07
1941522 Orig						48.1
1941522 Dup						48.82
Method Blank	< 0.01					
Method Blank						
Method Blank						
Method Blank				< 5		

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Analyte Symbol	SiO2	Pb	Zn	Au	Au	Pb
Unit Symbol	%	%	%	ppb	g/tonne	%
Detection Limit	0.01	0.01	0.01	5	0.03	0.1
Analysis Method	FUS-ICP	FUS-Na2O2	FUS-Na2O2	FA-AA	FA-GRA	TITR
Method Blank				< 5		
Method Blank		< 0.01	< 0.01			
Method Blank		< 0.01	< 0.01			
Method Blank		< 0.01	< 0.01			
Method Blank		< 0.01	< 0.01			
Method Blank		< 0.01	< 0.01			
Method Blank		< 0.01	< 0.01			
Method Blank		< 0.01	< 0.01			
Method Blank		< 0.01	< 0.01			
Method Blank		< 0.01	< 0.01			
Method Blank		< 0.01	< 0.01			
Method Blank					< 0.03	
Method Blank					< 0.03	