



Date Submitted: 22-Sep-14
Invoice No.: A14-06814
Invoice Date: 14-Oct-14
Your Reference:

MINNESOTA DEPT OF NAT RESOURCES
500 LAFAYETTE RD BOX 45
ST PAUL MN 55155-4045
United States

ATTN: Don Elsenheimer

CERTIFICATE OF ANALYSIS

8 Soil samples were submitted for analysis.

The following analytical package was requested:

Code 4F-S Infrared
Code 4LITHORES (1-10) Major Elements Fusion ICP(WRA)/Trace Elements Fusion ICP/MS(WRA4B2)

REPORT **A14-06814**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

We recommend using option 4B1 for accurate levels of the base metals Cu, Pb, Zn, Ni and Ag. Option 4B-INAA for As, Sb, high W >100ppm, Cr >1000ppm and Sn >50ppm by Code 5D. Values for these elements provided by Fusion ICP/MS, are order of magnitude only and are provided for general information. Mineralized samples should have the Quant option selected or request assays for values which exceed the range of option 4B1. Total includes all elements in % oxide to the left of total. Zr is now being reported from FUS-ICP instead of FUS-MS.

CERTIFIED BY:

Emmanuel Esemé , Ph.D.
Quality Control

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Results

Analyte Symbol	Total S	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	0.5
Analysis Method	IR	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
TK0170-S (bulk)	0.38	12.91	11.70	53.34	1.748	1.43	1.09	0.03	0.03	0.977	0.10	14.99	98.34	42	2	302	6620	865	6020	3320	300	19	2.8
TK0174-S (bulk)	0.12	15.43	9.98	53.33	0.264	5.56	0.73	0.04	0.02	0.861	0.04	9.29	95.56	35	3	315	> 10000	> 1000	> 10000	6360	420	16	2.8
TK0176-S (bulk)	0.14	11.91	11.17	63.25	0.265	2.08	0.37	0.02	< 0.01	0.899	0.06	5.64	95.67	40	2	286	9440	519	7520	6040	240	16	3.1
TK0178-S (bulk)	0.07	11.58	11.72	62.72	0.176	2.00	0.45	0.02	< 0.01	1.005	0.08	7.83	97.58	43	3	337	9760	> 1000	7360	1410	240	18	3.0
TK0170-S (-63 micron)	0.44	16.31	15.10	53.34	0.316	1.02	0.34	0.04	0.06	1.382	0.15	8.90	96.95	52	2	490	> 10000	> 1000	7830	4490	370	25	3.8
TK0174-S (-63 micron)	0.14	14.65	9.63	60.37	0.179	3.83	0.30	0.03	0.01	0.905	0.05	6.01	95.96	41	3	331	> 10000	> 1000	> 10000	4570	370	16	3.3
TK0176-S (-63 micron)	0.10	9.19	8.47	71.13	0.201	1.61	0.17	0.02	0.01	1.306	0.05	4.51	96.66	36	2	361	> 10000	707	7890	3780	290	16	2.8
TK0178-S (-63 micron)	0.04	8.48	9.19	69.96	0.168	1.49	0.30	0.02	< 0.01	1.349	0.09	6.26	97.31	45	4	423	> 10000	> 1000	7630	910	280	19	2.5

Results

Analyte Symbol	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	1	2	0.5	1	0.2	2	0.5	0.1	1	0.2	0.1	3	0.05	0.05	0.01	0.05	0.01	0.005	0.01	0.01	0.01	0.01
Analysis Method	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
TK0170-S (bulk)	< 5	2	14	36.3	81	9.6	< 2	0.5	< 0.1	1	0.6	< 0.1	29	41.7	125	11.4	44.0	9.80	2.33	9.86	1.57	8.69	1.62
TK0174-S (bulk)	< 5	2	13	47.9	60	7.4	< 2	< 0.5	< 0.1	< 1	0.6	0.1	27	54.3	19.4	17.7	67.9	13.0	3.01	12.3	1.80	10.1	1.97
TK0176-S (bulk)	< 5	1	15	17.9	71	6.9	< 2	< 0.5	0.1	1	0.8	< 0.1	30	20.0	29.3	4.54	18.4	4.09	1.01	3.41	0.55	3.23	0.63
TK0178-S (bulk)	< 5	1	9	28.2	70	6.9	< 2	< 0.5	< 0.1	1	0.6	< 0.1	27	28.9	48.4	10.9	44.0	11.0	2.39	8.00	1.36	8.51	1.66
TK0170-S (-63 micron)	6	4	13	48.5	122	8.4	< 2	0.7	0.1	2	0.6	< 0.1	52	50.0	132	14.2	56.2	13.0	3.48	13.1	1.96	11.5	2.24
TK0174-S (-63 micron)	< 5	2	10	38.8	73	4.2	< 2	0.5	0.1	< 1	0.6	< 0.1	25	67.1	25.8	21.1	78.9	13.7	3.04	11.8	1.70	9.58	1.83
TK0176-S (-63 micron)	< 5	2	10	19.1	83	6.5	2	< 0.5	0.2	2	0.6	< 0.1	31	21.5	30.0	5.13	20.4	4.70	1.09	3.55	0.62	3.62	0.68
TK0178-S (-63 micron)	< 5	1	8	31.6	100	6.4	< 2	< 0.5	0.1	1	0.6	< 0.1	29	29.2	39.3	11.0	45.0	11.0	2.47	8.92	1.48	8.75	1.73

Results

Analyte Symbol	Er	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Bi	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	0.005	0.01	0.002	0.1	0.01	0.5	0.05	5	0.1	0.05	0.01
Analysis Method	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
TK0170-S (bulk)	4.67	0.658	4.07	0.620	1.8	0.32	0.7	0.28	28	0.4	5.09	8.43
TK0174-S (bulk)	5.48	0.756	4.47	0.650	1.3	0.22	1.6	0.12	8	0.2	1.55	5.09
TK0176-S (bulk)	1.88	0.303	2.00	0.311	1.5	0.29	< 0.5	0.10	11	0.5	2.21	5.16
TK0178-S (bulk)	4.79	0.744	5.08	0.754	1.5	0.30	< 0.5	0.12	16	0.3	1.91	1.97
TK0170-S (-63 micron)	6.33	0.902	5.50	0.826	2.6	0.43	1.1	0.21	42	0.8	5.27	21.7
TK0174-S (-63 micron)	5.06	0.716	4.36	0.658	1.7	0.21	0.8	0.11	10	0.2	2.48	8.90
TK0176-S (-63 micron)	2.03	0.345	2.16	0.298	1.7	0.36	0.6	0.10	14	0.5	2.40	7.04
TK0178-S (-63 micron)	4.97	0.812	5.33	0.816	2.0	0.35	0.6	0.10	18	0.3	2.08	2.56

QC

Analyte Symbol	Total S	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Detection Limit	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	1	1	5	20	1	20	10	30	1	0.5
Analysis Method	IR	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	
NIST 694 Meas		11.11	1.91	0.74	0.012	0.33	43.13	0.86	0.54	0.115	30.14					1660								
NIST 694 Cert		11.2	1.80	0.790	0.0116	0.330	43.6	0.860	0.510	0.110	30.2					1740								
DNC-1 Meas		47.76	18.47	9.90	0.148	10.02	11.38	1.90	0.22	0.498	0.08			31		156		56	260	100	70			
DNC-1 Cert		47.15	18.34	9.97	0.150	10.13	11.49	1.890	0.234	0.480	0.070			31		148		57	247	100	70			
GBW 07113 Meas		71.94	12.54	3.09	0.137	0.17	0.61	2.48	5.41	0.277	0.05			5	4	< 5								
GBW 07113 Cert		72.8	13.0	3.21	0.140	0.160	0.590	2.57	5.43	0.300	0.0500			5.00	4.00	5.00								
LKSD-3 Meas																	90	30						
LKSD-3 Cert																	87.0	30.0						
TDB-1 Meas																	260			330	160			
TDB-1 Cert																	251			323	155			
LKSD-4 Meas	0.94																							
LKSD-4 Cert	0.990																							
LKSD-4 Meas	0.95																							
LKSD-4 Cert	0.990																							
LKSD-4 Meas	1.03																							
LKSD-4 Cert	0.990																							
LKSD-4 Meas	0.99																							
LKSD-4 Cert	0.990																							
LKSD-4 Meas	0.97																							
LKSD-4 Cert	0.990																							
BaSO4 Meas	13.4																							
BaSO4 Cert	14.0																							
BaSO4 Meas	13.3																							
BaSO4 Cert	14.0																							
BaSO4 Meas	13.9																							
BaSO4 Cert	14.0																							
BaSO4 Meas	14.3																							
BaSO4 Cert	14.0																							
BaSO4 Meas	14.0																							
BaSO4 Cert	14.0																							
W-2a Meas		53.12	15.26	10.73	0.166	6.32	11.02	2.21	0.62	1.101	0.16			36	< 1	282								
W-2a Cert		52.4	15.4	10.7	0.163	6.37	10.9	2.14	0.626	1.06	0.130			36.0	1.30	262								
DTS-2b Meas																	> 10000	127	3740					
DTS-2b Cert																	15500	120	3780					
SY-4 Meas		50.08	20.14	6.09	0.106	0.52	8.12	6.96	1.66	0.282	0.13			1	3	6								
SY-4 Cert		49.9	20.69	6.21	0.108	0.54	8.05	7.10	1.66	0.287	0.131			1.1	2.6	8.0								
CTA-AC-1 Meas																					50			
CTA-AC-1 Cert																					54.0			
BIR-1a Meas		48.19	16.02	11.56	0.174	9.57	13.30	1.80	0.02	0.986	0.03			43	< 1	339		55		120	70	17		
BIR-1a Cert		47.96	15.50	11.30	0.175	9.700	13.30	1.82	0.030	0.96	0.021			44	0.58	310		52		125	70	16		
NCS DC86312 Meas																								
NCS DC86312 Cert																								
NCS DC70009 (GBW07241) Meas																		4		980	100			
NCS DC70009 (GBW07241) Cert																		3.7		960	100			
OREAS 100a (Fusion) Meas																		18		170				
OREAS 100a																		18.1		169				

Analyte Symbol	Total S	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Detection Limit	0.01	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	0.5	
Analysis Method	IR	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	
(Fusion) Cert																								
OREAS 101a (Fusion) Meas																		47		410				
OREAS 101a (Fusion) Cert																		48.8		434				
OREAS 101b (Fusion) Meas																		45	< 20	400				
OREAS 101b (Fusion) Cert																		47	9	416				
JR-1 Meas																		< 1	< 20		< 30	16		
JR-1 Cert																		0.83	1.67		30.6	16.1		
GS311-4 Meas	0.55																							
GS311-4 Cert	0.54																							
GS311-4 Meas	0.54																							
GS311-4 Cert	0.54																							
GS311-4 Meas	0.59																							
GS311-4 Cert	0.54																							
GS311-4 Meas	0.57																							
GS311-4 Cert	0.54																							
GS311-4 Meas	0.54																							
GS311-4 Cert	0.54																							
GS900-5 Meas	0.34																							
GS900-5 Cert	0.34																							
GS900-5 Meas	0.34																							
GS900-5 Cert	0.34																							
GS900-5 Meas	0.38																							
GS900-5 Cert	0.34																							
GS900-5 Meas	0.36																							
GS900-5 Cert	0.34																							
GS900-5 Meas	0.34																							
GS900-5 Cert	0.34																							
TK0178-S (-63 micron) Orig		8.50	9.20	71.16	0.168	1.51	0.30	0.02	< 0.01	1.382	0.09	6.26	98.60	44	4	429	> 10000	> 1000	7520	890	270	19	2.5	
TK0178-S (-63 micron) Dup		8.47	9.18	68.76	0.168	1.46	0.30	0.02	< 0.01	1.316	0.09	6.26	96.02	45	4	417	> 10000	> 1000	7730	930	280	19	2.5	
Method Blank																		< 20	< 1	< 20	< 10	< 30	< 1	< 0.5

QC

Analyte Symbol	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	1	2	0.5	1	0.2	2	0.5	0.1	1	0.2	0.1	3	0.05	0.05	0.01	0.05	0.01	0.005	0.01	0.01	0.01	0.01
Analysis Method	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	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																							
NIST 694 Cert																							
DNC-1 Meas			149	17.4	36								107	3.67			5.31		0.596				
DNC-1 Cert			144.0	18.0	38								118	3.6			5.20		0.59				
GBW 07113 Meas			41		388								492										
GBW 07113 Cert			43.0		403								506										
LKSD-3 Meas	25	73		29.0			< 2					2.5		47.2	88.4		43.4	7.64	1.43			4.83	
LKSD-3 Cert	27.0	78.0		30.0			2.00					2.30		52.0	90.0		44.0	8.00	1.50			4.90	
TDB-1 Meas				32.5										16.0	37.9		23.7		1.94				

Analyte Symbol	As	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	5	1	2	0.5	1	0.2	2	0.5	0.1	1	0.2	0.1	3	0.05	0.05	0.01	0.05	0.01	0.005	0.01	0.01	0.01	0.01
Analysis Method	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
JR-1 Cert		257		45.1		15.2	3.25	0.031	0.028					19.7	47.2	5.58	23.3	6.03			1.01		
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
GS311-4 Cert																							
GS311-4 Meas																							
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GS900-5 Cert																							
GS900-5 Meas																							
GS900-5 Cert																							
GS900-5 Meas																							
GS900-5 Cert																							
TK0178-S (-63 micron) Orig	< 5	1	8	31.3	102	6.4	3	< 0.5	0.1	1	0.5	< 0.1	29	29.1	38.8	10.8	44.5	11.0	2.46	8.91	1.49	8.55	1.69
TK0178-S (-63 micron) Dup	< 5	1	8	32.0	98	6.4	< 2	0.5	0.1	1	0.6	< 0.1	29	29.4	39.7	11.3	45.4	11.1	2.49	8.93	1.47	8.94	1.77
Method Blank	< 5	< 1		< 0.5		< 0.2	< 2	< 0.5	< 0.1	< 1	< 0.2	< 0.1		< 0.05	< 0.05	< 0.01	< 0.05	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01

QC

Analyte Symbol	Er	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Bi	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	0.005	0.01	0.002	0.1	0.01	0.5	0.05	5	0.1	0.05	0.01
Analysis Method	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
NIST 694 Meas												
NIST 694 Cert												
DNC-1 Meas			1.94									
DNC-1 Cert			2.0									
GBW 07113 Meas												
GBW 07113 Cert												
LKSD-3 Meas			2.86	0.408		0.69					11.0	4.47
LKSD-3 Cert			2.70	0.400		0.700					11.4	4.60
TDB-1 Meas			3.21								2.72	
TDB-1 Cert			3.4								2.7	
LKSD-4 Meas												
LKSD-4 Cert												
LKSD-4 Meas												
LKSD-4 Cert												
LKSD-4 Meas												
LKSD-4 Cert												

Analyte Symbol	Er	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Bi	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	0.005	0.01	0.002	0.1	0.01	0.5	0.05	5	0.1	0.05	0.01
Analysis Method	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
LKSD-4 Meas												
LKSD-4 Cert												
LKSD-4 Meas												
LKSD-4 Cert												
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BaSO4 Meas												
BaSO4 Cert												
W-2a Meas												
W-2a Cert												
DTS-2b Meas												
DTS-2b Cert												
SY-4 Meas												
SY-4 Cert												
CTA-AC-1 Meas			11.2	1.17	2.3							4.29
CTA-AC-1 Cert			11.4	1.08	1.13							4.4
BIR-1a Meas			1.67		0.6				< 5			
BIR-1a Cert			1.7		0.60				3			
NCS DC86312 Meas	105	14.1	89.1	12.9								
NCS DC86312 Cert	96.2	15.1	87.79	11.96								
NCS DC70009 (GBW07241) Meas							2390				30.3	
NCS DC70009 (GBW07241) Cert							2200				28.3	
OREAS 100a (Fusion) Meas	15.8	2.37	16.2	2.33							55.1	148
OREAS 100a (Fusion) Cert	14.9	2.31	14.9	2.26							51.6	135
OREAS 101a (Fusion) Meas	20.8	2.86	18.7	2.64							36.9	442
OREAS 101a (Fusion) Cert	19.5	2.90	17.5	2.66							36.6	422
OREAS 101b (Fusion) Meas	19.5	2.71	17.5	2.50							34.3	368
OREAS 101b (Fusion) Cert	18.7	2.66	17.6	2.58							37.1	396
JR-1 Meas		0.659		0.741	4.2	1.81	3.4		19	0.5	27.6	9.29
JR-1 Cert		0.67		0.71	4.51	1.86	1.59		19.3	0.56	26.7	8.88
GS311-4 Meas												
GS311-4 Cert												
GS311-4 Meas												
GS311-4 Cert												
GS311-4 Meas												
GS311-4 Cert												

Analyte Symbol	Er	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Bi	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Detection Limit	0.01	0.005	0.01	0.002	0.1	0.01	0.5	0.05	5	0.1	0.05	0.01
Analysis Method	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
GS311-4 Meas												
GS311-4 Cert												
GS311-4 Meas												
GS311-4 Cert												
GS900-5 Meas												
GS900-5 Cert												
GS900-5 Meas												
GS900-5 Cert												
GS900-5 Meas												
GS900-5 Cert												
GS900-5 Meas												
GS900-5 Cert												
GS900-5 Meas												
GS900-5 Cert												
TK0178-S (-63 micron) Orig	4.94	0.803	5.26	0.814	1.9	0.34	0.5	0.08	18	0.3	2.11	2.46
TK0178-S (-63 micron) Dup	5.00	0.821	5.40	0.818	2.0	0.36	0.6	0.11	19	0.3	2.05	2.65
Method Blank	< 0.01	< 0.005	< 0.01	< 0.002	< 0.1	< 0.01	< 0.5	< 0.05	< 5	< 0.1	< 0.05	< 0.01