



ALS Scandinavia AB
 Hammarvagen 22
 SE- 943 36, Ojebyn
 Phone: 46 911 65 800 Fax: 46 911 60 085 www.alsglobal.com

To: KLAUS HANSEN
 ODENGATAN 28
 21614 MALMÖ

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 Plus Appendix Pages
 Finalized Date: 22- OCT- 2014
 Account: NESLAS

Project: Not provided

CERTIFICATE OF ANALYSIS PI14154641

Sample Description	Method Analyte Units LOR	WEI- 21	PUL- QC	ME- ICP06	ME- ICP06	ME- ICP06	ME- ICP06	ME- ICP06	ME- ICP06	ME- ICP06	ME- ICP06	ME- ICP06	ME- ICP06	ME- ICP06	ME- ICP06	ME- ICP06
		Recvd Wt. kg	Pass75um %	SiO2 %	Al2O3 %	Fe2O3 %	CaO %	MgO %	Na2O %	K2O %	Cr2O3 %	TiO2 %	MnO %	P2O5 %	SrO %	BaO %
Prov 1		0.84	88.0	48.9	14.45	12.80	6.79	9.94	2.79	1.12	0.07	2.05	0.15	0.67	0.05	0.05
Prov 2		1.74		59.6	14.70	8.55	4.65	3.13	3.66	2.60	0.01	2.11	0.11	0.51	0.04	0.06

Comments: Samples were received on 03- Oct- 2014 and the SSF/Request on 03- Oct- 2014.

***** See Appendix Page for comments regarding this certificate *****



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Sample Description	Method Analyte Units LOR	C- IR07 C %	S- IR08 S %	ME- MS81 Ba ppm	ME- MS81 Ce ppm	ME- MS81 Cr ppm	ME- MS81 Cs ppm	ME- MS81 Dy ppm	ME- MS81 Er ppm	ME- MS81 Eu ppm	ME- MS81 Ga ppm	ME- MS81 Gd ppm	ME- MS81 Hf ppm	ME- MS81 Ho ppm	ME- MS81 La ppm	ME- MS81 Lu ppm
Prov 1		0.02	0.04	420	49.5	510	0.75	4.65	2.39	2.06	16.9	5.92	3.9	1.00	21.0	0.28
Prov 2		0.04	0.09	533	67.8	50	0.72	4.99	2.35	1.70	19.0	5.96	5.0	0.94	30.5	0.30

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Sample Description	Method Analyte Units LOR	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	ME- MS81	
		Nb	Nd	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	Tm	U	V	W	Y
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.2	0.1	0.03	0.2	0.03	1	0.1	0.1	0.01	0.05	0.01	0.05	5	1	0.5
Prov 1		8.4	28.6	6.69	22.4	5.94	1	444	0.8	0.83	1.96	0.28	0.65	158	<1	26.0
Prov 2		10.4	33.5	7.91	69.2	6.41	1	423	1.0	0.85	6.59	0.33	1.26	141	1	26.2

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Sample Description	Method Analyte Units LOR	ME- MS81	ME- MS81	ME- MS42	ME- MS42	ME- MS42	ME- MS42	ME- MS42	ME- MS42	ME- MS42	OA- GRA05	TOT- ICP06	ME- 4ACD81	ME- 4ACD81	ME- 4ACD81	ME- 4ACD81
		Yb ppm 0.03	Zr ppm 2	As ppm 0.1	Bi ppm 0.01	Hg ppm 0.005	Sb ppm 0.05	Se ppm 0.2	Te ppm 0.01	Tl ppm 0.02	LOI % 0.01	Total % 0.01	Ag ppm 0.5	Cd ppm 0.5	Co ppm 1	Cu ppm 1
Prov 1		2.06	179	<0.1	0.04	<0.005	0.18	0.6	0.02	0.05	0.29	100.12	<0.5	<0.5	58	29
Prov 2		2.37	198	0.8	0.10	<0.005	0.08	0.8	0.04	0.12	0.39	100.12	<0.5	<0.5	26	24

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Sample Description	Method Analyte Units LOR	ME- 4ACD81	ME- 4ACD81	ME- 4ACD81	ME- 4ACD81	ME- 4ACD81	ME- 4ACD81	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Li	Mo	Ni	Pb	Sc	Zn	Ag	Al	As	Au	B	Ba	Be	Bi	Ca
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
		10	1	1	2	1	2	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01
Prov 1		<10	<1	302	<2	17	120	0.02	0.88	<0.1	<0.2	<10	40	0.09	0.04	0.99
Prov 2		<10	<1	39	7	13	89	0.03	0.95	0.8	<0.2	<10	140	0.14	0.10	0.85

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li
		ppm 0.01	ppm 0.02	ppm 0.1	ppm 1	ppm 0.05	ppm 0.2	% 0.01	ppm 0.05	ppm 0.05	ppm 0.02	ppm 0.01	ppm 0.005	% 0.01	ppm 0.2	ppm 0.1
Prov 1		0.03	43.6	32.9	76	0.80	29.9	3.82	3.28	0.11	0.24	<0.01	0.12	0.18	19.1	5.5
Prov 2		0.03	58.1	18.1	17	0.76	25.8	2.39	5.53	0.14	0.12	<0.01	0.019	0.47	28.3	8.4

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm
Prov 1		2.26	423	0.75	0.15	0.46	183.5	2830	1.3	9.4	<0.001	0.04	0.18	1.9	0.6
Prov 2		0.69	153	0.90	0.11	0.28	31.0	2240	2.2	21.7	0.001	0.10	0.08	3.7	0.8

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Sr	Ta	Te	Th	Ti	Tl	U	V	W	Y	Zn	Zr
		ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Prov 1		48.9	0.01	0.02	1.4	0.110	0.05	0.43	36	0.23	16.15	58	7.0
Prov 2		36.0	<0.01	0.04	5.9	0.235	0.12	0.80	65	0.27	17.60	48	3.5

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