Australian Laboratory Services Arabia Co. Ltd.
P.O. Box 54605
Industrial Area 1, Phase 4, Street 62
Jeddah 21254
www.alsarabia.com

To: SAUDI GEOLOGICAL SURVEY
JEDDAH -AHMED BIN MOHAMMED AL ASHAB
ZIP CODE: 21514
JEDDAH 21514

Finalized Date: 12-FEB-2025
This copy reported on 6-APR-2025
Account: SGSKSB

QC CERTIFICATE JD25030880

Project: KSB
P.O. No.: JD-151-23-A2
This report is for 64 samples of Rock submitted to our lab in Jeddah, Saudi Arabia on 3-FEB-2025.
The following have access to data associated with this certificate:

ROY ELLIOTT WESSON REID	NANA EMERIC ANDRE VORSTER	ABDULRAHMAN OBAIDI

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
LOG-24	Pulp Login - Rcd w/o Barcode
SPL-22Y	Split Sample - Boyd Rotary Splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-ICP61	34 element four acid ICP-AES	ICP-AES

This is the Final Report and supersedes any preliminary report with this certificate number.Results apply to samples as submitted.All pages of this report have been checked and approved for release.
***** See Appendix Page for comments regarding this certificate *****
Comments: Samples Submitted by: George

Signature:



Abdulaziz Alzahran, Minerals Manager, ALS Arabia

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QC CERTIFICATE OF ANALYSIS JD25030880

Sample Description	Method	Au-AA25	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%
	LOD	0.01	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01
STANDARDS																
EMOG-17			68.1	4.76	590	450	1.9	6	1.99	21.1	767	55	8570	4.95	<10	1.66
Target Range - Lower Bound			60.4	4.18	517	310	0.7	<2	1.72	17.7	685	49	7740	4.42	<10	1.49
Upper Bound			75.0	5.13	643	440	2.9	10	2.12	22.7	839	62	8910	5.42	30	1.85
GBM321-8			3.2	7.24	56	1110	1.5	5	3.88	2.2	26	140	3630	5.60	20	2.12
Target Range - Lower Bound			1.9	6.40	43	930	<0.5	<2	3.33	0.6	23	125	3380	4.98	<10	1.87
Upper Bound			4.2	7.84	69	1280	2.5	5	4.10	2.8	30	155	3890	6.10	40	2.31
OREAS 297		17.95														
Target Range - Lower Bound		16.75														
Upper Bound		18.90														
OREAS 45f			0.5	9.80	6	200	1.2	3	0.10	<0.5	41	392	337	13.90	30	0.21
Target Range - Lower Bound			<0.5	9.13	<5	170	<0.5	<2	0.07	<0.5	39	374	337	13.20	<10	0.19
Upper Bound			1.1	11.20	20	250	2.3	4	0.12	1.0	50	460	389	16.15	50	0.26
OREAS 602b			>100	5.34	886	1500	1.7	60	0.68	5.1	5	31	4890	2.46	20	1.73
Target Range - Lower Bound			106.5	4.83	782	380	0.6	50	0.58	3.6	3	29	4610	2.26	<10	1.59
Upper Bound			100.0	5.93	966	540	2.8	66	0.73	6.1	7	38	5310	2.78	50	1.97
OREAS L11b		0.31														
Target Range - Lower Bound		0.28														
Upper Bound		0.34														
BLANKS																
BLANK		<0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
BLANK			<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10	<0.01
BLANK			<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10	<0.01
Target Range - Lower Bound			<0.5	<0.01	<5	<10	<0.5	<2	<0.01	<0.5	<1	<1	<1	<0.01	<10	<0.01
Upper Bound			1.0	0.02	10	20	1.0	4	0.02	1.0	2	2	2	0.02	20	0.02

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JEDDAH 21514

Finalized Date: 12-FEB-2025
Account: SGSKSB

Project: KSB

QC CERTIFICATE OF ANALYSIS JD25030880

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	10	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
STANDARDS																
EMOG-17		20	30	0.99	761	1135	1.12	7990	820	7530	3.31	810	8	211	<20	0.34
Target Range - Lower Bound		<10	<10	0.86	670	996	0.99	6820	700	6570	2.91	638	6	184	<20	0.28
Upper Bound		40	50	1.08	830	1220	1.23	8330	880	8030	3.57	874	10	227	50	0.36
GBM321-8		50	10	1.88	810	62	2.18	2320	970	2120	0.37	<5	18	296	<20	0.68
Target Range - Lower Bound		30	<10	1.61	715	57	1.93	2020	880	1840	0.31	<5	14	258	<20	0.59
Upper Bound		80	30	1.99	885	72	2.38	2480	1100	2260	0.41	12	20	317	60	0.74
OREAS 297																
Target Range - Lower Bound																
Upper Bound																
OREAS 45f		20	20	0.21	210	2	0.05	251	270	14	0.01	<5	34	28	<20	1.07
Target Range - Lower Bound		<10	<10	0.20	193	<1	0.04	229	260	10	<0.01	<5	32	22	<20	0.96
Upper Bound		40	40	0.26	247	4	0.09	283	340	19	0.05	11	41	29	50	1.20
OREAS 602b		20	20	0.07	183	7	1.32	12	260	503	2.10	108	3	257	<20	0.16
Target Range - Lower Bound		<10	<10	0.05	164	5	1.25	11	240	442	1.91	84	<1	233	<20	0.12
Upper Bound		40	40	0.10	212	10	1.55	17	320	544	2.35	126	6	287	50	0.18
OREAS L11b																
Target Range - Lower Bound																
Upper Bound																
BLANKS																
BLANK																
Target Range - Lower Bound																
Upper Bound																
BLANK		<10	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<5	<1	<1	<20	<0.01
BLANK		<10	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<5	<1	<1	<20	<0.01
Target Range - Lower Bound		<10	<10	<0.01	<5	<1	<0.01	<1	<10	<2	<0.01	<5	<1	<1	<20	<0.01
Upper Bound		20	20	0.02	10	2	0.02	2	20	4	0.02	10	2	2	40	0.02

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QC CERTIFICATE OF ANALYSIS JD25030880

Sample Description	Method / Analyte / Units / LOD	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2
	STANDARDS					
EMOG-17		<10	<10	74	<10	7730
Target Range - Lower Bound		<10	<10	67	<10	6800
Upper Bound		20	20	84	20	8320
GBM321-8		<10	<10	140	<10	1095
Target Range - Lower Bound		<10	<10	123	<10	961
Upper Bound		20	20	153	20	1180
OREAS 297						
Target Range - Lower Bound						
Upper Bound						
OREAS 45f		<10	<10	240	<10	31
Target Range - Lower Bound		<10	<10	227	<10	30
Upper Bound		20	20	279	20	41
OREAS 602b		<10	<10	15	10	784
Target Range - Lower Bound		<10	<10	13	<10	686
Upper Bound		20	20	19	40	842
OREAS L11b						
Target Range - Lower Bound						
Upper Bound						
	BLANKS					
BLANK						
Target Range - Lower Bound						
Upper Bound						
BLANK		<10	<10	<1	<10	<2
BLANK		<10	<10	<1	<10	<2
Target Range - Lower Bound		<10	<10	<1	<10	<2
Upper Bound		20	20	2	20	4

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QC CERTIFICATE OF ANALYSIS JD25030880

Sample Description	Method	Au-AA25	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%
	LOD	0.01	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10	0.01
DUPLICATES																
KSBSS0868		<0.01	<0.5	3.30	<5	70	<0.5	<2	4.22	<0.5	3	20	14	2.25	10	0.14
DUP		<0.01	<0.5	3.43	<5	70	<0.5	<2	4.35	<0.5	2	22	12	2.29	10	0.14
Target Range - Lower Bound		<0.01	<0.5	3.19	<5	50	<0.5	<2	4.06	<0.5	<1	19	12	2.15	<10	0.12
Upper Bound		0.02	1.0	3.54	10	90	1.0	4	4.51	1.0	4	23	14	2.39	20	0.16
KSBSS0878			<0.5	4.24	<5	130	0.5	2	3.71	<0.5	11	23	81	2.93	10	0.44
DUP			<0.5	4.25	<5	130	0.5	<2	3.73	<0.5	11	22	81	2.91	10	0.44
Target Range - Lower Bound			<0.5	4.02	<5	110	<0.5	<2	3.52	<0.5	9	20	77	2.76	<10	0.41
Upper Bound			1.0	4.47	10	150	1.0	4	3.92	1.0	13	25	85	3.08	20	0.47
KSBSS0888		<0.01														
DUP		<0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
KSBSS0903			<0.5	0.94	<5	60	<0.5	<2	1.59	<0.5	2	72	7	1.08	<10	0.10
DUP			<0.5	0.96	<5	70	<0.5	<2	1.62	<0.5	2	68	8	1.19	<10	0.10
Target Range - Lower Bound			<0.5	0.89	<5	50	<0.5	<2	1.51	<0.5	<1	66	6	1.07	<10	0.09
Upper Bound			1.0	1.01	10	80	1.0	4	1.70	1.0	3	75	9	1.20	20	0.12
KSBSS0908		<0.01														
DUP		<0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
KSBSS0913			<0.5	1.97	<5	350	<0.5	<2	4.06	<0.5	1	46	1	0.62	<10	1.10
DUP			<0.5	1.98	<5	350	<0.5	<2	4.07	<0.5	1	46	2	0.62	<10	1.11
Target Range - Lower Bound			<0.5	1.87	<5	310	<0.5	<2	3.85	<0.5	<1	43	<1	0.58	<10	1.04
Upper Bound			1.0	2.08	10	390	1.0	4	4.28	1.0	2	49	2	0.66	20	1.17
PREP DUPLICATES																
KSBSS0915		<0.01	<0.5	1.20	<5	50	<0.5	<2	1.60	<0.5	4	71	11	1.20	<10	0.10
KSBSS0915 PREP DUP		<0.01	<0.5	1.20	<5	50	<0.5	<2	1.59	<0.5	5	73	11	1.22	<10	0.10

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Project: KSB

QC CERTIFICATE OF ANALYSIS JD25030880

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOD	10	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
DUPLICATES																
KSBSS0868		<10	<10	0.24	394	2	0.50	4	270	6	<0.01	<5	2	624	<20	0.10
DUP		<10	<10	0.24	401	2	0.52	2	280	6	<0.01	<5	3	647	<20	0.10
Target Range - Lower Bound		<10	<10	0.22	373	<1	0.47	2	250	4	<0.01	<5	<1	603	<20	0.09
Upper Bound		20	20	0.26	422	3	0.55	4	300	8	0.02	10	4	668	40	0.12
KSBSS0878		10	10	0.88	563	3	1.65	12	640	9	<0.01	<5	10	219	<20	0.37
DUP		10	10	0.88	569	3	1.65	10	650	7	<0.01	<5	10	223	<20	0.39
Target Range - Lower Bound		<10	<10	0.83	533	2	1.56	9	600	6	<0.01	<5	9	209	<20	0.35
Upper Bound		20	20	0.93	599	4	1.74	13	690	10	0.02	10	12	233	40	0.41
KSBSS0888																
DUP																
Target Range - Lower Bound																
Upper Bound																
KSBSS0903		<10	<10	0.13	289	6	0.09	2	110	9	<0.01	<5	2	431	<20	0.04
DUP		<10	<10	0.14	300	6	0.09	4	110	7	<0.01	<5	2	439	<20	0.04
Target Range - Lower Bound		<10	<10	0.12	275	5	0.08	2	90	6	<0.01	<5	<1	412	<20	0.03
Upper Bound		20	20	0.15	314	7	0.10	4	130	10	0.02	10	3	458	40	0.05
KSBSS0908																
DUP																
Target Range - Lower Bound																
Upper Bound																
KSBSS0913		10	<10	0.06	332	4	0.68	<1	120	4	<0.01	<5	2	248	<20	0.04
DUP		10	<10	0.06	330	4	0.68	<1	120	5	<0.01	<5	2	249	<20	0.04
Target Range - Lower Bound		<10	<10	0.05	309	3	0.64	<1	100	<2	<0.01	<5	<1	235	<20	0.03
Upper Bound		20	20	0.07	353	5	0.72	2	140	7	0.02	10	3	262	40	0.05
PREP DUPLICATES																
KSBSS0915		<10	10	0.50	320	5	0.17	7	90	17	<0.01	<5	2	110	<20	0.04
KSBSS0915 PREP DUP		<10	10	0.51	327	5	0.17	6	80	18	<0.01	<5	2	106	<20	0.04

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Sample Description	Method / Analyte / Units / LOD	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2
		DUPLICATES				
KSBSS0868		<10	<10	110	<10	9
DUP		<10	<10	113	<10	10
Target Range - Lower Bound		<10	<10	105	<10	7
Upper Bound		20	20	118	20	12
KSBSS0878		<10	<10	109	<10	42
DUP		<10	<10	110	<10	43
Target Range - Lower Bound		<10	<10	103	<10	38
Upper Bound		20	20	116	20	47
KSBSS0888						
DUP						
Target Range - Lower Bound						
Upper Bound						
KSBSS0903		<10	<10	59	<10	6
DUP		<10	<10	60	<10	7
Target Range - Lower Bound		<10	<10	56	<10	4
Upper Bound		20	20	63	20	9
KSBSS0908						
DUP						
Target Range - Lower Bound						
Upper Bound						
KSBSS0913		<10	<10	6	<10	5
DUP		<10	<10	6	<10	5
Target Range - Lower Bound		<10	<10	5	<10	3
Upper Bound		20	20	7	20	7
		PREP DUPLICATES				
KSBSS0915		<10	<10	24	<10	17
KSBSS0915 PREP DUP		<10	<10	24	<10	17

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QC CERTIFICATE OF ANALYSIS JD25030880

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Jeddah located at P.O. Box 54605, Jeddah, Saudi Arabia.

Applies to Method:			
Au-AA25	CRU-31	CRU-QC	LOG-22
LOG-24	ME-ICP61	PUL-31	PUL-QC
SPL-22Y	WEI-21		