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: 11-MAR-2025
This copy reported on 13-MAR-2025
Account: SGSKSB

QC CERTIFICATE JD25047509

Project: SGSKSB
P.O. No.: JD-151-23-A2
This report is for 7 samples of Rock submitted to our lab in Jeddah, Saudi Arabia on 25-FEB-2025.
The following have access to data associated with this certificate:

JOHN BARRY	GEORGE BOADU	WASEEM DAHERI
ROY ELLIOTT	NANA EMERIC	ANWAR D. JAHDALI
TARIQ JAHLAN	ABDULRAHMAN OBAIDI	ANDRÉ OELOFSEN
WESSON REID	ANDRE VORSTER	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
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: Wassem Daheri

Signature:



Abdulaziz Alzahran, Minerals Manager, ALS Arabia

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QC CERTIFICATE OF ANALYSIS JD25047509

Sample Description	Method Analyte Units LOD	Au-AA25 Au ppm 0.01	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10	ME-ICP61 K % 0.01
STANDARDS																
CT-22		2.56														
Target Range - Lower Bound		2.42														
Upper Bound		2.74														
GBM321-8			3.7	7.56	57	1160	1.5	3	3.83	2.2	27	140	3650	5.66	20	2.13
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 602b			>100	5.61	918	420	1.7	58	0.69	5.1	5	34	5050	2.50	20	1.79
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
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
DUPLICATES																
KSBSS0926			<0.5	0.15	7	10	<0.5	<2	0.04	<0.5	1	88	9	0.44	<10	0.04
DUP			<0.5	0.15	<5	10	<0.5	<2	0.04	<0.5	1	112	3	0.45	<10	0.03
Target Range - Lower Bound			<0.5	0.13	<5	<10	<0.5	<2	0.03	<0.5	<1	94	5	0.41	<10	0.02
Upper Bound			1.0	0.17	10	20	1.0	4	0.05	1.0	2	106	7	0.48	20	0.05
KSBSS0927			<0.5	1.05	<5	120	0.5	<2	0.43	<0.5	2	77	7	0.68	<10	0.36
DUP			<0.5	1.06	<5	120	0.5	<2	0.43	<0.5	3	82	8	0.69	<10	0.36
Target Range - Lower Bound			<0.5	0.99	<5	100	<0.5	<2	0.40	<0.5	<1	75	6	0.64	<10	0.33
Upper Bound			1.0	1.12	10	140	1.0	4	0.46	1.0	4	84	9	0.73	20	0.39

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ZIP CODE: 21514
JEDDAH 21514

Finalized Date: 11-MAR-2025
Account: SGSKSB

Project: SGSKSB

QC CERTIFICATE OF ANALYSIS JD25047509

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																
CT-22																
Target Range - Lower Bound																
Upper Bound																
GBM321-8		50	10	1.85	816	58	2.14	2270	990	2110	0.36	<5	18	299	<20	0.67
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 602b		20	20	0.07	191	7	1.38	14	270	499	2.16	110	3	263	<20	0.15
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
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
DUPLICATES																
KSBSS0926		<10	<10	0.04	69	8	0.05	4	10	<2	0.01	<5	<1	5	<20	<0.01
DUP		<10	<10	0.04	70	10	0.04	5	10	<2	0.01	<5	<1	6	<20	<0.01
Target Range - Lower Bound		<10	<10	0.03	61	8	0.03	3	<10	<2	<0.01	<5	<1	4	<20	<0.01
Upper Bound		20	20	0.05	78	10	0.06	6	20	4	0.02	10	2	7	40	0.02
KSBSS0927		<10	<10	0.19	204	8	0.30	6	120	<2	0.01	<5	2	58	<20	0.06
DUP		<10	<10	0.19	205	8	0.31	6	120	<2	0.01	<5	2	57	<20	0.05
Target Range - Lower Bound		<10	<10	0.17	189	7	0.28	5	100	<2	<0.01	<5	<1	54	<20	0.04
Upper Bound		20	20	0.21	220	9	0.33	7	140	4	0.02	10	3	61	40	0.07

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Finalized Date: 11-MAR-2025
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QC CERTIFICATE OF ANALYSIS JD25047509

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					
CT-22						
Target Range - Lower Bound						
Upper Bound						
GBM321-8		<10	<10	138	<10	1115
Target Range - Lower Bound		<10	<10	123	<10	961
Upper Bound		20	20	153	20	1180
OREAS 602b		<10	<10	15	10	797
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
Target Range - Lower Bound		<10	<10	<1	<10	<2
Upper Bound		20	20	2	20	4
	DUPLICATES					
KSBSS0926		<10	<10	3	<10	5
DUP		<10	<10	3	<10	5
Target Range - Lower Bound		<10	<10	2	<10	3
Upper Bound		20	20	4	20	7
KSBSS0927		<10	<10	14	<10	7
DUP		<10	<10	14	<10	8
Target Range - Lower Bound		<10	<10	12	<10	5
Upper Bound		20	20	16	20	10

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QC CERTIFICATE OF ANALYSIS JD25047509

Sample Description	Method / Analyte / Units / LOD	Au-AA25 Au ppm 0.01	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10	ME-ICP61 K % 0.01
DUPLICATES																
KSBSS0928		<0.01														
DUP		<0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														
KSBSS0929		<0.01														
DUP		<0.01														
Target Range - Lower Bound		<0.01														
Upper Bound		0.02														

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Sample Description	Method / Analyte / Units / LOD	ME-ICP61 La ppm 10	ME-ICP61 Li ppm 10	ME-ICP61 Mg % 0.01	ME-ICP61 Mn ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Na % 0.01	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 S % 0.01	ME-ICP61 Sb ppm 5	ME-ICP61 Sc ppm 1	ME-ICP61 Sr ppm 1	ME-ICP61 Th ppm 20	ME-ICP61 Ti % 0.01
		DUPLICATES														
KSBSS0928																
DUP																
Target Range - Lower Bound																
Upper Bound																
KSBSS0929																
DUP																
Target Range - Lower Bound																
Upper Bound																

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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				
KSBSS0928						
DUP						
Target Range - Lower Bound						
Upper Bound						
KSBSS0929						
DUP						
Target Range - Lower Bound						
Upper Bound						

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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
ME-ICP61	PUL-31	PUL-QC	SPL-22Y
WEI-21			