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: 23-JAN-2025
This copy reported on 13-FEB-2025
Account: SGSDIL

CERTIFICATE JD25005025

Project: SGSDIL

P.O. No.: JD-151-23-A2

This report is for 112 samples of Rock submitted to our lab in Jeddah, Saudi Arabia on 6-JAN-2025.

The following have access to data associated with this certificate:

JOHN BARRY	WASEEM DAHERI	ROY ELLIOTT
NANA EMERIC	ANWAR D. JAHDALI	JOHNNY MPOYO
ANDRÉ OELOFSEN	WESSON REID	ABDUL SEMIRI
ANDRE VORSTER		

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: Waseem Daheri

Signature:



Abdulaziz Alzahran, Minerals Manager, ALS Arabia

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CERTIFICATE OF ANALYSIS JD25005025

Sample Description	Method	WEI-21	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
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOD	0.02	0.01	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
DILTR0501		0.14	<0.01	<0.5	7.67	<5	270	1.1	<2	5.89	0.7	46	203	43	7.94	20
DILTR0502		4.23	0.20	<0.5	7.86	21	160	1.3	<2	4.93	<0.5	4	115	7	1.84	20
DILTR0503		3.98	0.07	<0.5	8.10	20	130	1.2	<2	4.56	<0.5	4	114	5	1.62	20
DILTR0504		4.36	0.09	<0.5	8.18	81	140	1.1	<2	5.09	<0.5	5	117	2	1.66	20
DILTR0505			0.09	<0.5	8.20	84	140	1.1	<2	5.08	<0.5	5	116	2	1.66	20
DILTR0506		4.78	0.06	<0.5	8.13	67	150	1.2	<2	4.47	<0.5	17	119	39	2.53	20
DILTR0507		4.17	0.13	<0.5	2.41	512	80	0.9	<2	8.21	1.3	55	480	348	10.60	10
DILTR0508		3.34	0.04	<0.5	7.01	92	380	1.5	<2	5.08	<0.5	11	205	27	5.62	20
DILTR0509		4.95	0.23	0.6	7.75	119	210	1.1	<2	4.26	0.5	28	145	428	4.01	20
DILTR0510		0.06	1.19	30.7	5.18	285	90	1.9	16	0.93	136.0	8	19	3420	5.43	20
DILTR0511		4.04	0.48	0.6	7.17	279	250	1.0	2	5.15	0.7	109	170	497	6.37	20
DILTR0512		5.10	0.04	<0.5	7.66	213	150	1.0	<2	5.32	<0.5	35	170	44	3.33	20
DILTR0513		4.62	0.04	<0.5	7.97	201	250	1.0	<2	5.12	0.5	26	207	70	3.95	20
DILTR0514		4.71	0.04	<0.5	8.29	30	320	1.0	<2	5.85	<0.5	8	190	2	2.47	20
DILTR0515		3.85	0.13	1.0	7.32	649	280	1.0	<2	6.18	0.7	81	175	848	5.49	20
DILTR0516		4.64	0.03	<0.5	8.15	144	330	0.9	2	5.49	0.6	32	176	70	4.64	20
DILTR0517		6.41	0.06	<0.5	8.25	96	260	1.0	2	4.48	0.5	19	201	13	4.36	20
DILTR0518		5.25	0.08	<0.5	8.21	101	330	0.9	3	4.38	0.6	20	102	19	5.30	20
DILTR0519		5.74	0.21	<0.5	7.81	124	310	1.0	6	4.89	0.8	23	11	37	7.41	20
DILTR0520		0.13	0.01	<0.5	7.37	<5	260	1.0	4	5.61	0.6	46	186	44	7.91	20
DILTR0521		4.48	0.02	<0.5	8.18	45	230	1.1	<2	5.36	<0.5	11	188	18	2.89	20
DILTR0522		5.37	0.08	<0.5	7.80	107	220	1.0	<2	5.28	<0.5	19	199	29	3.41	20
DILTR0523		5.63	0.05	<0.5	7.56	204	240	1.0	<2	6.26	<0.5	25	229	18	4.06	20
DILTR0524		5.47	0.12	<0.5	7.67	240	220	1.1	<2	6.05	0.6	25	235	20	4.31	20
DILTR0525			0.12	<0.5	7.55	234	220	1.1	<2	5.98	0.5	25	236	20	4.24	20
DILTR0526		3.78	0.05	<0.5	7.55	248	450	1.1	<2	6.35	<0.5	27	102	36	3.50	20
DILTR0527		4.79	0.04	0.5	5.26	90	360	1.0	<2	0.99	<0.5	2	15	45	1.39	20
DILTR0528		4.62	0.05	0.6	6.40	114	510	1.3	<2	0.97	<0.5	4	6	58	2.74	20
DILTR0529		4.63	0.09	1.0	6.76	131	610	1.3	<2	0.59	<0.5	<1	3	89	1.82	20
DILTR0530		0.08	4.69	0.8	2.85	>10000	50	<0.5	<2	1.85	1.4	44	893	281	7.64	10
DILTR0531		4.72	0.04	0.7	6.06	194	610	1.1	<2	1.06	<0.5	<1	10	79	2.27	20
DILTR0532		4.02	0.03	<0.5	2.29	279	330	0.6	<2	0.33	<0.5	<1	29	210	4.68	10
DILTR0533		3.52	0.02	0.5	1.50	131	230	<0.5	<2	0.15	<0.5	2	32	74	3.20	10
DILTR0534		3.74	0.01	0.9	7.15	41	610	1.4	<2	0.41	<0.5	<1	5	46	0.97	20
DILTR0535		3.80	<0.01	<0.5	3.23	23	490	0.9	<2	0.11	<0.5	<1	22	19	0.89	20
DILTR0536		4.21	<0.01	<0.5	3.05	47	400	0.7	<2	0.09	<0.5	1	28	21	1.12	10
DILTR0537		4.09	0.01	0.5	3.14	78	580	0.9	<2	0.20	<0.5	5	29	43	2.40	10
DILTR0538		4.80	0.03	0.6	7.77	195	960	2.1	<2	0.72	<0.5	25	67	120	4.51	30
DILTR0539		4.95	0.04	0.5	3.66	51	420	1.1	<2	0.31	<0.5	4	23	26	1.75	10
DILTR0540		0.14	<0.01	<0.5	7.36	<5	260	1.1	3	5.63	0.8	42	181	44	7.67	20

Comments: Samples Submitted by: Waseem Daheri

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Finalized Date: 23-JAN-2025
Account: SGSDIL

Project: SGSDIL

CERTIFICATE OF ANALYSIS JD25005025

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	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
	Units	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.01	10	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20
DILTR0501		0.73	20	10	4.45	1080	<1	2.36	157	1550	2	<0.01	<5	20	437	<20
DILTR0502		1.08	10	20	2.02	2160	4	3.13	15	760	9	0.02	<5	12	511	<20
DILTR0503		0.82	10	10	2.25	1115	2	3.64	17	1020	6	0.09	<5	12	612	<20
DILTR0504		0.74	10	10	2.33	683	<1	3.62	18	1070	5	0.13	<5	12	794	<20
DILTR0505		0.75	10	10	2.32	674	<1	3.63	18	1090	5	0.13	<5	12	794	<20
DILTR0506		0.83	10	20	2.26	466	<1	3.47	20	1000	4	0.19	<5	12	661	<20
DILTR0507		0.25	10	10	5.32	946	3	0.31	70	610	<2	0.19	6	79	215	<20
DILTR0508		1.12	10	30	4.81	627	2	1.76	22	1520	<2	0.18	<5	25	588	<20
DILTR0509		0.91	10	30	3.65	458	1	3.24	21	1400	2	0.01	<5	14	392	<20
DILTR0510		2.57	20	20	0.36	8380	19	1.22	23	340	>10000	7.15	80	4	100	<20
DILTR0511		0.92	10	20	3.46	871	1	2.71	46	1010	3	0.12	5	24	505	<20
DILTR0512		0.50	10	10	2.78	682	1	4.05	65	2030	4	0.03	<5	15	788	<20
DILTR0513		0.64	10	10	3.63	863	<1	3.45	85	1130	3	0.16	<5	15	985	<20
DILTR0514		0.62	10	10	3.32	728	<1	4.06	42	850	5	<0.01	<5	15	1240	<20
DILTR0515		0.84	10	20	2.70	576	3	2.86	69	720	4	0.76	<5	15	823	<20
DILTR0516		1.00	10	20	3.48	859	<1	3.23	58	1210	2	0.26	5	15	760	<20
DILTR0517		0.83	10	20	3.75	938	<1	3.45	84	1170	<2	0.02	5	15	791	<20
DILTR0518		0.90	10	20	2.87	940	<1	3.46	34	1690	5	0.03	<5	18	692	<20
DILTR0519		0.66	10	20	2.27	1160	<1	3.37	4	2330	4	0.04	<5	24	425	<20
DILTR0520		0.73	20	10	4.44	1090	1	2.33	165	1440	5	<0.01	<5	19	406	<20
DILTR0521		0.63	10	10	3.67	506	<1	3.96	42	1120	3	0.08	5	16	952	<20
DILTR0522		0.52	10	10	3.20	677	<1	4.07	55	1050	2	0.17	<5	14	811	<20
DILTR0523		0.43	10	10	3.39	888	<1	3.52	69	1330	3	0.07	5	15	725	<20
DILTR0524		0.47	10	10	3.59	915	<1	3.46	82	1410	2	0.12	5	16	749	<20
DILTR0525		0.46	10	10	3.56	899	<1	3.43	81	1390	2	0.12	6	15	743	<20
DILTR0526		0.55	10	20	2.65	717	<1	3.13	46	900	4	0.36	<5	12	849	<20
DILTR0527		0.85	20	<10	0.12	62	2	3.12	8	70	3	0.07	<5	2	177	<20
DILTR0528		1.02	20	<10	0.12	131	2	3.74	18	90	2	0.07	<5	2	225	<20
DILTR0529		1.38	30	<10	0.10	43	2	3.29	6	180	2	0.19	<5	10	262	<20
DILTR0530		0.25	10	<10	5.34	1185	<1	0.58	469	290	942	5.20	>10000	12	61	<20
DILTR0531		1.29	30	<10	0.10	47	2	2.78	3	90	2	0.11	36	6	188	<20
DILTR0532		0.59	10	<10	0.06	81	5	0.79	6	80	2	0.11	34	2	133	<20
DILTR0533		0.39	10	<10	0.04	111	6	0.51	5	60	<2	0.04	<5	<1	59	<20
DILTR0534		1.21	20	<10	0.10	39	2	4.13	5	70	4	0.07	<5	2	234	<20
DILTR0535		1.24	10	<10	0.08	77	3	0.92	<1	30	<2	0.05	<5	1	80	<20
DILTR0536		0.84	10	<10	0.05	123	3	1.40	2	30	2	0.06	<5	1	88	<20
DILTR0537		1.19	20	<10	0.10	385	4	0.93	11	80	4	0.14	<5	2	93	<20
DILTR0538		2.49	20	10	0.27	1010	3	2.08	59	440	27	0.31	<5	10	466	<20
DILTR0539		0.97	20	<10	0.09	444	2	1.64	22	140	6	0.07	<5	2	152	<20
DILTR0540		0.75	20	10	4.21	1055	1	2.33	153	1500	2	<0.01	5	19	409	<20

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Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Ti	Tl	U	V	W	Zn
	Units	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.01	10	10	1	10	2
DILTR0501		1.10	<10	<10	152	<10	114
DILTR0502		0.38	<10	<10	133	<10	46
DILTR0503		0.39	<10	<10	119	<10	33
DILTR0504		0.40	<10	<10	118	<10	30
DILTR0505		0.40	<10	<10	118	<10	30
DILTR0506		0.40	<10	<10	122	<10	34
DILTR0507		0.25	<10	<10	676	10	134
DILTR0508		0.39	<10	<10	284	<10	27
DILTR0509		0.41	<10	<10	173	<10	38
DILTR0510		0.14	20	<10	20	10	>10000
DILTR0511		0.72	<10	<10	273	<10	89
DILTR0512		0.40	<10	<10	146	<10	45
DILTR0513		0.47	<10	<10	146	<10	61
DILTR0514		0.46	<10	<10	140	<10	42
DILTR0515		0.43	<10	<10	164	<10	62
DILTR0516		0.49	<10	<10	141	<10	53
DILTR0517		0.48	<10	<10	143	<10	54
DILTR0518		0.77	<10	<10	179	<10	76
DILTR0519		1.16	<10	<10	224	<10	107
DILTR0520		1.03	<10	<10	144	<10	112
DILTR0521		0.46	<10	<10	147	<10	33
DILTR0522		0.47	<10	<10	135	<10	42
DILTR0523		0.62	<10	<10	151	<10	45
DILTR0524		0.63	<10	<10	156	<10	48
DILTR0525		0.63	<10	<10	153	<10	48
DILTR0526		0.46	<10	<10	128	<10	49
DILTR0527		0.06	<10	<10	18	<10	18
DILTR0528		0.06	<10	<10	32	<10	29
DILTR0529		0.19	<10	<10	30	<10	12
DILTR0530		0.09	<10	<10	80	10	104
DILTR0531		0.12	<10	<10	26	<10	10
DILTR0532		0.05	<10	<10	43	<10	11
DILTR0533		0.02	<10	<10	19	<10	17
DILTR0534		0.07	<10	<10	12	<10	16
DILTR0535		0.03	<10	<10	8	<10	12
DILTR0536		0.03	<10	<10	7	<10	8
DILTR0537		0.05	<10	<10	21	<10	28
DILTR0538		0.32	<10	<10	95	<10	74
DILTR0539		0.05	<10	<10	19	<10	29
DILTR0540		1.03	<10	<10	144	<10	112

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Sample Description	Method	WEI-21	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
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOD	0.02	0.01	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
DILTR0541		4.00	0.09	0.8	8.10	40	1230	2.6	<2	1.11	<0.5	2	9	14	0.87	30
DILTR0542		3.91	0.04	<0.5	7.68	91	570	2.0	<2	3.47	0.5	18	94	42	4.00	20
DILTR0543		3.41	0.02	<0.5	7.25	90	450	1.5	<2	4.50	<0.5	19	114	58	4.21	20
DILTR0544		4.44	0.02	<0.5	7.64	104	350	1.4	<2	3.15	0.6	29	166	114	4.52	20
DILTR0545			0.02	<0.5	7.53	105	360	1.4	<2	3.17	0.5	28	166	115	4.56	20
DILTR0546		4.20	0.03	0.5	7.08	91	720	1.9	<2	1.74	<0.5	10	72	73	2.47	20
DILTR0547		4.42	0.02	0.6	6.39	22	810	1.5	<2	0.16	<0.5	1	8	33	1.44	20
DILTR0548		4.41	0.04	0.7	6.71	23	610	1.2	<2	0.12	<0.5	1	5	17	1.05	20
DILTR0549		3.59	0.06	0.7	6.95	171	810	2.7	<2	2.14	<0.5	18	107	85	3.34	20
DILTR0550		0.08	0.65	1.1	7.71	173	1550	1.1	<2	0.60	<0.5	17	37	138	4.52	10
DILTR0551		5.00	0.73	0.7	6.62	27	740	1.5	<2	0.17	<0.5	3	10	42	1.45	20
DILTR0552		4.68	0.04	0.7	6.72	114	790	1.5	2	0.71	<0.5	14	31	85	2.28	20
DILTR0553		3.73	0.09	<0.5	6.28	297	830	2.2	4	3.51	0.6	20	241	251	4.98	20
DILTR0554		4.18	0.07	0.5	6.18	293	970	2.2	3	1.94	<0.5	16	201	148	3.84	20
DILTR0555		3.86	0.03	<0.5	8.49	230	760	2.0	4	0.88	0.6	83	46	175	6.51	20
DILTR0556		3.30	0.01	<0.5	8.38	45	400	1.0	2	0.92	0.6	10	36	117	7.03	20
DILTR0557		4.12	0.01	<0.5	8.71	69	480	1.1	2	0.96	0.6	28	37	162	6.76	20
DILTR0558		4.00	0.03	<0.5	8.04	162	490	1.7	2	0.97	0.5	43	101	153	5.15	20
DILTR0559		4.45	0.08	<0.5	7.85	138	320	1.2	2	1.08	<0.5	26	76	117	4.20	20
DILTR0560		0.13	<0.01	<0.5	7.72	<5	270	1.1	5	5.98	0.9	46	194	46	7.88	20
DILTR0561		4.25	0.05	0.5	8.33	249	400	1.1	3	2.13	0.5	32	193	213	6.34	20
DILTR0562		4.46	0.12	<0.5	6.97	171	890	1.6	11	1.48	<0.5	6	248	139	3.04	20
DILTR0563		4.59	0.45	0.5	5.89	365	780	1.1	<2	4.11	0.8	30	60	191	8.76	20
DILTR0564		3.82	0.24	0.5	5.51	346	640	1.1	<2	10.45	1.2	66	166	76	2.91	10
DILTR0565			0.24	0.5	5.01	273	610	1.1	<2	10.45	1.2	55	156	75	2.65	10
DILTR0566		4.44	0.04	<0.5	5.24	565	490	0.8	<2	4.89	0.7	34	79	130	5.06	20
DILTR0567		5.54	0.20	<0.5	7.01	323	1820	1.7	4	1.58	0.7	78	294	233	6.62	20
DILTR0568		3.79	0.02	<0.5	7.16	109	1000	1.4	2	1.50	<0.5	3	76	30	2.08	20
DILTR0569		4.44	0.13	<0.5	5.73	176	1010	0.9	<2	2.55	0.5	13	31	53	3.64	10
DILTR0570		0.06	1.23	33.1	6.09	309	370	2.2	20	1.10	146.0	9	19	3910	6.01	20
DILTR0571		4.15	0.20	0.7	6.53	276	920	1.1	3	6.61	1.2	47	38	172	6.14	20
DILTR0572		3.28	0.02	0.5	7.58	94	820	1.3	3	0.95	<0.5	9	69	119	2.57	20
DILTR0573		3.24	0.05	0.7	5.49	94	1120	1.1	3	18.00	<0.5	9	106	72	1.21	10
DILTR0574		4.96	0.02	<0.5	8.86	124	730	1.4	<2	1.52	<0.5	23	86	51	3.77	20
DILTR0575		4.64	0.04	0.5	7.83	77	910	1.1	<2	0.69	<0.5	22	77	94	3.38	20
DILTR0576		5.05	0.06	<0.5	6.36	135	760	1.1	<2	2.40	0.5	70	62	79	3.83	10
DILTR0577		4.50	0.10	<0.5	5.45	214	640	1.0	2	12.40	<0.5	28	51	46	3.58	10
DILTR0578		4.49	0.15	<0.5	5.26	519	840	1.1	<2	9.74	0.7	30	78	44	5.15	10
DILTR0579		6.69	0.19	0.5	6.17	435	1120	1.0	2	0.72	<0.5	58	77	101	3.88	20
DILTR0580		0.14	0.01	<0.5	7.04	11	270	1.0	5	5.60	0.7	43	176	42	7.18	20

Comments: Samples Submitted by: Waseem Daheri

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

Finalized Date: 23-JAN-2025
Account: SGSDIL

Project: SGSDIL

CERTIFICATE OF ANALYSIS JD25005025

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	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
	Units	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.01	10	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20
DILTR0541		2.77	30	10	0.21	372	2	3.23	16	90	4	0.07	<5	3	247	<20
DILTR0542		2.23	10	20	1.24	1020	2	2.84	72	910	6	0.22	<5	11	547	<20
DILTR0543		1.82	20	20	1.54	862	3	2.79	75	990	10	0.27	<5	13	557	<20
DILTR0544		1.06	20	20	1.94	902	2	3.40	110	1030	3	0.10	<5	14	597	<20
DILTR0545		1.06	20	20	1.94	913	2	3.43	115	1040	6	0.10	<5	13	601	<20
DILTR0546		2.08	20	10	0.65	415	3	3.25	29	420	8	0.05	<5	7	288	<20
DILTR0547		2.28	30	<10	0.10	275	2	3.59	3	40	5	0.01	<5	1	116	<20
DILTR0548		1.75	20	<10	0.05	80	2	4.20	<1	40	4	0.01	<5	1	122	<20
DILTR0549		3.13	30	20	0.69	654	9	0.67	104	420	4	0.14	8	9	145	<20
DILTR0550		6.14	10	40	0.99	967	31	0.75	12	2190	14	0.51	14	13	620	<20
DILTR0551		1.93	30	<10	0.08	370	3	3.54	10	40	4	0.02	<5	1	140	<20
DILTR0552		2.42	30	10	0.36	498	4	2.92	41	250	7	0.10	<5	4	141	<20
DILTR0553		2.57	20	20	1.29	208	12	0.15	160	1040	7	1.08	8	14	248	<20
DILTR0554		2.68	30	20	0.84	302	16	0.25	103	690	5	0.81	7	12	269	<20
DILTR0555		2.61	20	40	2.53	1225	5	0.50	103	1560	3	0.40	<5	22	318	<20
DILTR0556		1.71	10	20	2.16	309	<1	3.28	12	1510	<2	0.37	<5	21	721	<20
DILTR0557		1.94	10	20	2.07	733	1	3.26	28	1560	2	0.32	<5	21	568	<20
DILTR0558		2.24	20	30	1.86	685	11	2.12	90	1110	2	0.34	6	14	466	<20
DILTR0559		1.32	10	20	1.91	495	1	3.49	70	1070	<2	0.10	<5	10	455	<20
DILTR0560		0.76	20	10	4.40	1070	1	2.43	160	1570	2	<0.01	<5	20	445	<20
DILTR0561		1.56	10	40	3.56	892	1	2.28	106	1340	3	0.91	5	21	1120	<20
DILTR0562		3.19	30	20	0.62	73	18	0.26	46	880	30	0.22	20	17	747	<20
DILTR0563		1.70	10	20	1.03	578	15	1.27	200	1700	5	2.80	<5	14	975	<20
DILTR0564		2.61	10	20	1.58	217	27	0.32	367	500	15	3.07	7	13	434	<20
DILTR0565		2.37	20	10	1.46	218	24	0.33	333	460	17	3.31	7	12	488	<20
DILTR0566		1.21	20	10	0.29	177	31	1.31	169	1260	8	3.97	14	17	1060	<20
DILTR0567		2.29	20	10	0.61	537	36	0.22	580	850	3	1.03	5	16	333	<20
DILTR0568		2.42	20	10	0.31	105	12	1.27	34	510	10	1.12	<5	14	384	<20
DILTR0569		1.86	20	10	0.44	182	10	2.52	202	500	9	0.33	<5	4	311	<20
DILTR0570		2.88	20	20	0.40	9140	22	1.36	26	380	>10000	7.68	88	5	113	<20
DILTR0571		2.54	20	20	1.68	606	9	1.58	458	2160	5	0.35	7	10	386	<20
DILTR0572		1.49	10	10	0.29	131	11	2.94	68	490	4	0.32	<5	16	594	<20
DILTR0573		3.38	30	10	0.56	47	4	1.35	52	2700	4	1.39	<5	14	745	<20
DILTR0574		1.62	<10	20	1.17	385	4	3.95	174	720	2	0.08	<5	7	723	<20
DILTR0575		1.88	<10	20	1.19	391	2	3.28	141	670	4	0.04	<5	6	559	<20
DILTR0576		1.88	10	20	0.74	1280	6	2.23	225	730	<2	0.22	<5	5	492	<20
DILTR0577		1.61	10	10	0.70	251	6	1.18	79	860	<2	0.23	<5	7	365	<20
DILTR0578		2.44	10	10	0.82	340	9	0.81	74	1350	<2	0.45	<5	8	346	<20
DILTR0579		2.00	<10	20	0.93	587	3	1.26	293	820	<2	0.20	<5	10	272	<20
DILTR0580		0.72	20	10	4.02	971	1	2.19	146	1450	<2	0.02	6	18	400	<20

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JEDDAH -AHMED BIN MOHAMMED AL ASHAB
ZIP CODE: 21514
JEDDAH 21514

Finalized Date: 23-JAN-2025
Account: SGSDIL

Project: SGSDIL

CERTIFICATE OF ANALYSIS JD25005025

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Ti	Tl	U	V	W	Zn
	Units	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.01	10	10	1	10	2
DILTR0541		0.08	<10	<10	25	<10	28
DILTR0542		0.34	<10	<10	116	<10	140
DILTR0543		0.31	<10	<10	152	<10	78
DILTR0544		0.28	<10	<10	129	<10	113
DILTR0545		0.25	<10	<10	130	<10	114
DILTR0546		0.21	<10	<10	106	<10	109
DILTR0547		0.07	<10	<10	6	<10	102
DILTR0548		0.07	<10	<10	4	<10	42
DILTR0549		0.24	<10	<10	330	<10	93
DILTR0550		0.30	<10	<10	191	10	89
DILTR0551		0.07	<10	<10	6	<10	96
DILTR0552		0.15	<10	<10	109	<10	109
DILTR0553		0.36	<10	<10	467	10	59
DILTR0554		0.26	<10	<10	594	<10	50
DILTR0555		0.38	<10	<10	240	10	99
DILTR0556		0.33	<10	<10	220	<10	41
DILTR0557		0.38	<10	<10	229	<10	46
DILTR0558		0.28	<10	<10	288	<10	46
DILTR0559		0.23	<10	<10	110	<10	32
DILTR0560		1.10	<10	<10	158	<10	118
DILTR0561		0.31	<10	<10	213	<10	73
DILTR0562		0.39	<10	<10	708	<10	26
DILTR0563		0.44	<10	<10	220	<10	72
DILTR0564		0.34	<10	<10	482	<10	25
DILTR0565		0.33	<10	<10	428	<10	32
DILTR0566		0.55	<10	<10	252	<10	21
DILTR0567		0.33	<10	<10	557	<10	103
DILTR0568		0.34	<10	<10	274	<10	25
DILTR0569		0.14	<10	<10	79	<10	89
DILTR0570		0.16	10	<10	23	10	>10000
DILTR0571		0.72	<10	<10	175	10	121
DILTR0572		0.38	<10	<10	210	<10	21
DILTR0573		0.42	<10	<10	216	<10	17
DILTR0574		0.26	<10	<10	119	<10	63
DILTR0575		0.25	<10	<10	80	<10	43
DILTR0576		0.20	<10	<10	98	<10	71
DILTR0577		0.24	<10	<10	160	<10	47
DILTR0578		0.20	<10	<10	207	<10	39
DILTR0579		0.26	<10	<10	138	<10	54
DILTR0580		0.98	<10	<10	146	<10	110

Comments: Samples Submitted by: Waseem Daheri

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JEDDAH -AHMED BIN MOHAMMED AL ASHAB
ZIP CODE: 21514
JEDDAH 21514

Finalized Date: 23-JAN-2025
Account: SGSDIL

Project: SGSDIL

CERTIFICATE OF ANALYSIS JD25005025

Sample Description	Method	WEI-21	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
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOD	0.02	0.01	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
DILTR0581		5.42	0.15	0.6	4.91	651	790	0.9	4	9.64	0.8	72	62	95	4.03	10
DILTR0582		5.35	0.44	<0.5	5.59	767	1000	1.1	4	2.04	1.0	36	28	138	9.07	20
DILTR0583		4.34	0.23	<0.5	5.98	376	1220	0.9	5	4.29	0.7	72	74	285	6.16	10
DILTR0584		3.87	0.37	<0.5	1.78	1040	440	<0.5	3	1.72	0.9	5	68	173	9.91	10
DILTR0585			0.37	<0.5	1.67	1000	390	<0.5	2	1.52	0.8	5	67	159	9.45	10
DILTR0586		4.34	0.11	<0.5	1.24	279	290	<0.5	<2	0.76	<0.5	4	44	53	3.08	<10
DILTR0587		4.01	0.16	<0.5	2.54	340	460	0.5	<2	0.44	<0.5	11	58	82	4.53	10
DILTR0588		4.83	0.08	<0.5	2.99	175	480	0.6	<2	0.42	<0.5	20	72	41	4.17	10
DILTR0589		5.06	0.06	<0.5	7.27	98	630	0.9	<2	0.91	<0.5	12	87	58	3.39	20
DILTR0590		0.08	5.63	0.7	2.96	>10000	50	<0.5	<2	1.94	1.5	46	890	283	7.73	10
DILTR0591		5.16	0.07	<0.5	8.11	73	580	0.9	<2	0.58	<0.5	12	84	38	3.26	20
DILTR0592		4.10	0.14	<0.5	6.02	227	560	1.0	<2	5.29	0.8	16	62	93	7.00	20
DILTR0593		4.07	0.07	<0.5	5.93	294	560	1.0	<2	6.87	0.7	16	82	84	5.36	20
DILTR0594		6.36	0.07	<0.5	7.01	337	440	1.0	<2	1.83	0.5	32	345	90	6.30	20
DILTR0595		4.78	0.04	0.5	6.79	186	560	1.2	<2	5.78	0.6	24	318	77	5.34	20
DILTR0596		3.94	0.03	<0.5	5.62	173	520	0.9	<2	2.36	0.6	27	154	60	5.18	20
DILTR0597		3.55	<0.01	<0.5	7.42	55	340	0.9	<2	5.29	<0.5	16	163	16	3.57	20
DILTR0598		3.99	0.01	<0.5	7.25	75	390	1.0	<2	5.35	<0.5	17	155	12	3.52	20
DILTR0599		3.87	0.01	<0.5	6.57	441	450	0.9	<2	7.79	<0.5	20	133	20	3.17	20
DILTR0600		0.14	0.01	<0.5	7.92	<5	290	1.1	<2	6.11	0.7	48	193	44	8.17	20
DILTR0601		3.00	0.07	<0.5	6.41	1190	400	0.8	<2	8.25	0.5	245	133	566	3.27	20
DILTR0602		3.07	0.11	0.5	6.88	2880	590	1.0	<2	5.45	0.6	851	130	1430	3.66	20
DILTR0603		8.32	2.77	8.7	1.63	>10000	240	<0.5	5	3.83	3.1	575	84	1850	33.4	<10
DILTR0604		4.90	3.42	12.7	1.39	>10000	410	<0.5	6	2.27	3.0	523	64	1200	28.8	<10
DILTR0605			3.52	14.2	1.24	>10000	360	<0.5	6	2.20	3.1	617	65	1265	31.6	<10
DILTR0606		4.56	0.26	1.3	0.16	1390	60	<0.5	<2	0.28	<0.5	53	9	112	2.67	<10
DILTR0607		3.50	0.13	1.0	6.56	2510	460	0.8	<2	7.53	1.2	627	135	991	5.03	10
DILTR0608		4.56	0.13	<0.5	7.22	893	370	0.9	<2	5.95	0.6	30	165	29	4.31	20
DILTR0609		5.11	0.01	<0.5	7.43	173	220	0.9	<2	5.88	<0.5	22	167	24	4.31	20
DILTR0610		0.08	1.64	0.7	3.60	777	310	2.0	<2	1.34	1.4	26	319	70	19.35	10
DILTR0611		3.98	0.01	<0.5	6.78	178	300	0.9	<2	6.62	<0.5	19	142	27	3.88	20
DILTR0612		3.79	0.01	<0.5	5.06	148	260	0.7	<2	9.92	<0.5	14	105	18	2.68	10

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CERTIFICATE OF ANALYSIS JD25005025

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	K	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
	Units	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.01	10	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20
DILTR0581		2.01	10	10	0.63	504	8	0.70	189	910	<2	0.38	<5	10	325	<20
DILTR0582		2.63	20	20	0.74	508	19	0.30	271	1620	4	0.56	7	10	428	<20
DILTR0583		2.75	20	10	0.33	654	14	0.35	204	840	7	1.15	8	10	772	<20
DILTR0584		0.76	10	10	0.10	83	23	0.18	39	500	9	1.86	12	4	617	<20
DILTR0585		0.72	10	10	0.09	77	22	0.16	37	480	9	1.69	10	4	584	<20
DILTR0586		0.71	<10	20	0.05	65	8	0.14	35	160	6	0.71	<5	2	134	<20
DILTR0587		1.56	10	30	0.18	188	10	0.33	83	470	3	0.28	5	4	200	<20
DILTR0588		1.46	10	30	0.44	726	10	0.79	173	450	4	0.11	<5	4	170	<20
DILTR0589		1.69	10	20	0.81	405	14	2.97	148	590	3	0.23	<5	7	468	<20
DILTR0590		0.25	10	<10	5.44	1175	1	0.57	485	290	961	5.32	>10000	13	62	<20
DILTR0591		1.56	10	20	1.17	429	4	3.62	232	720	2	0.06	33	6	452	<20
DILTR0592		1.43	10	20	1.45	465	13	1.52	175	1150	4	0.25	5	15	366	<20
DILTR0593		1.17	20	20	1.28	496	9	1.57	123	1410	5	1.67	52	16	711	<20
DILTR0594		0.63	30	40	3.69	821	6	1.76	336	2000	4	0.24	5	15	353	<20
DILTR0595		1.04	30	40	3.72	566	5	1.34	196	1780	8	0.65	11	16	380	<20
DILTR0596		0.72	20	30	2.51	1095	6	1.57	278	1430	4	0.05	6	15	371	<20
DILTR0597		0.87	10	10	2.70	499	1	3.36	63	600	6	0.63	<5	13	790	<20
DILTR0598		0.79	10	10	2.65	497	1	3.14	60	720	5	0.52	5	13	743	<20
DILTR0599		0.74	10	10	2.58	486	1	2.42	58	800	5	1.66	6	12	636	<20
DILTR0600		0.77	20	10	4.54	1105	1	2.40	167	1520	3	0.01	<5	20	437	<20
DILTR0601		0.68	10	10	2.53	1495	2	2.31	417	1080	10	3.48	5	11	698	<20
DILTR0602		0.81	10	20	2.66	3550	4	1.99	1180	1480	16	2.12	<5	12	889	<20
DILTR0603		0.23	10	<10	0.41	1705	56	0.32	1290	5590	173	2.30	24	10	884	<20
DILTR0604		0.36	10	10	0.31	7130	58	0.53	616	2740	205	2.47	32	6	1255	<20
DILTR0605		0.40	10	10	0.25	9130	62	0.57	711	3150	214	2.83	30	6	1430	<20
DILTR0606		0.04	10	<10	0.03	842	7	0.05	60	370	26	0.29	<5	1	149	<20
DILTR0607		0.71	10	20	2.02	4100	6	2.15	961	950	16	2.13	7	11	657	<20
DILTR0608		0.87	10	10	2.61	944	2	2.71	80	950	7	1.44	5	13	921	<20
DILTR0609		0.60	10	10	2.58	545	1	2.90	64	940	5	1.03	<5	13	760	<20
DILTR0610		1.35	10	20	2.92	4270	<1	0.56	192	370	33	2.66	16	5	33	<20
DILTR0611		0.70	10	10	2.41	509	2	2.63	65	790	5	2.05	5	12	783	<20
DILTR0612		0.49	10	10	1.88	501	2	1.95	49	580	4	4.49	<5	9	1190	<20

Comments: Samples Submitted by: Waseem Daheri

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

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: 23-JAN-2025
Account: SGSDIL

Project: SGSDIL

CERTIFICATE OF ANALYSIS JD25005025

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Ti	Tl	U	V	W	Zn
	Units	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.01	10	10	1	10	2
DILTR0581		0.45	<10	<10	203	<10	59
DILTR0582		0.69	<10	<10	220	<10	86
DILTR0583		0.67	<10	<10	188	10	37
DILTR0584		0.16	<10	<10	166	<10	14
DILTR0585		0.15	<10	<10	154	<10	13
DILTR0586		0.07	<10	<10	57	<10	5
DILTR0587		0.13	<10	<10	84	<10	21
DILTR0588		0.15	<10	<10	98	<10	32
DILTR0589		0.27	<10	<10	119	<10	33
DILTR0590		0.08	<10	<10	84	10	108
DILTR0591		0.27	<10	<10	80	<10	38
DILTR0592		0.48	<10	<10	166	<10	60
DILTR0593		0.59	<10	<10	182	<10	44
DILTR0594		0.37	<10	<10	187	<10	58
DILTR0595		0.49	<10	<10	190	<10	47
DILTR0596		0.45	<10	<10	174	<10	76
DILTR0597		0.44	<10	<10	145	<10	34
DILTR0598		0.41	<10	<10	134	<10	34
DILTR0599		0.38	<10	<10	126	<10	35
DILTR0600		1.09	<10	<10	158	<10	119
DILTR0601		0.37	<10	<10	130	<10	222
DILTR0602		0.38	<10	<10	133	<10	576
DILTR0603		0.05	<10	<10	192	<10	527
DILTR0604		0.08	<10	<10	285	<10	338
DILTR0605		0.08	<10	<10	298	<10	350
DILTR0606		0.02	<10	<10	26	<10	30
DILTR0607		0.36	<10	<10	172	<10	501
DILTR0608		0.41	<10	<10	137	<10	40
DILTR0609		0.42	<10	<10	133	<10	35
DILTR0610		0.11	<10	<10	41	<10	194
DILTR0611		0.39	<10	<10	124	<10	39
DILTR0612		0.29	<10	<10	96	<10	30

Comments: Samples Submitted by: Waseem Daheri

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CERTIFICATE OF ANALYSIS JD25005025

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		