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# НҮҮРСНИЙ ОВООЛГЫН ҮЗҮҮЛЭЛТ

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№ ETT\_SP\_14



ISO 45001:2018



ISO 9001:2015



ISO 14001:2015



НҮҮРСНИЙ ОВООЛГЫН ЧАНАРЫН ДУНДАЖ ҮЗҮҮЛЭЛТ

<p><b>НИЙТ ЧИЙГ (ar)</b></p> <p><b>2.5%</b></p> <p>(-0.7; +1.5)</p>	<p><b>ҮНСЛЭГ (db)</b></p> <p><b>20.7%</b></p> <p>(-5.0; +5.0)</p>	<p><b>ДЭГДЭМХИЙ (daf)</b></p> <p><b>32.7%</b></p> <p>(-1.0; +1.0)</p>
<p><b>НИЙТ ХҮХЭР (db)</b></p> <p><b>0.95%</b></p> <p>(-0.3; +0.5)</p>	<p><b>БАРЬЦАЛДАХ ЧАНАР</b></p> <p><b>77.0</b></p> <p>(-10.0; +5.0)</p>	<p><b>НҮҮРСНИЙ ХЭМЖЭЭ</b></p> <p><b>128.0</b></p> <p>МЯН.ТН</p>

НҮҮРСНИЙ ОВООЛГЫН ШИНЖИЛГЭЭНИЙ ҮР ДҮН

ALS GROUP LLC  
Mongol National Building, 2nd floor  
Chinggis Avenue, Khan-Uul District  
Ulaanbaatar, Mongolia  
Tel +976 70 907667



CERTIFICATE OF ANALYSIS  
23E118-TT, 23F64, 81-TT, 23H139, 25B-TT, 23I41-TT

CLIENT: Erdenes Tavan Tolgoi JSC  
ADDRESS: Finance Center, Jigjidaev-6, 1st floor, Chingelhel District, Ulaanbaatar, Mongolia  
ATTN: Bilgumonial.S  
PROJECT NO.: xxx  
LAB. JOB NO.: 23E118-TT, 23F64, 81-TT, 23H139, 25B-TT, 23I41-TT  
NO. SAMPLES: 22  
Notes/Comments: xxx

SAMPLES RECEIVED: 17/Jun/23  
INSTRUCTIONS RECEIVED: 17/Jun/23  
DATE OF REPORT: 18/Jun/23  
STATUS OF REPORT: FINAL  
ANALYSIS COMPLETE: 18/Jun/23  
PREPARATION CODE: CRUSH-01, 02; MILL-01  
ANALYSIS CODE: 1\_COOKING CDAL CSN TM, ASH, MOIS, VOL, TSUL, CSN, CKN  
APPROVED BY: Laboratory Manager  
Quality Manager  
CHECKED BY: Chief Chemist

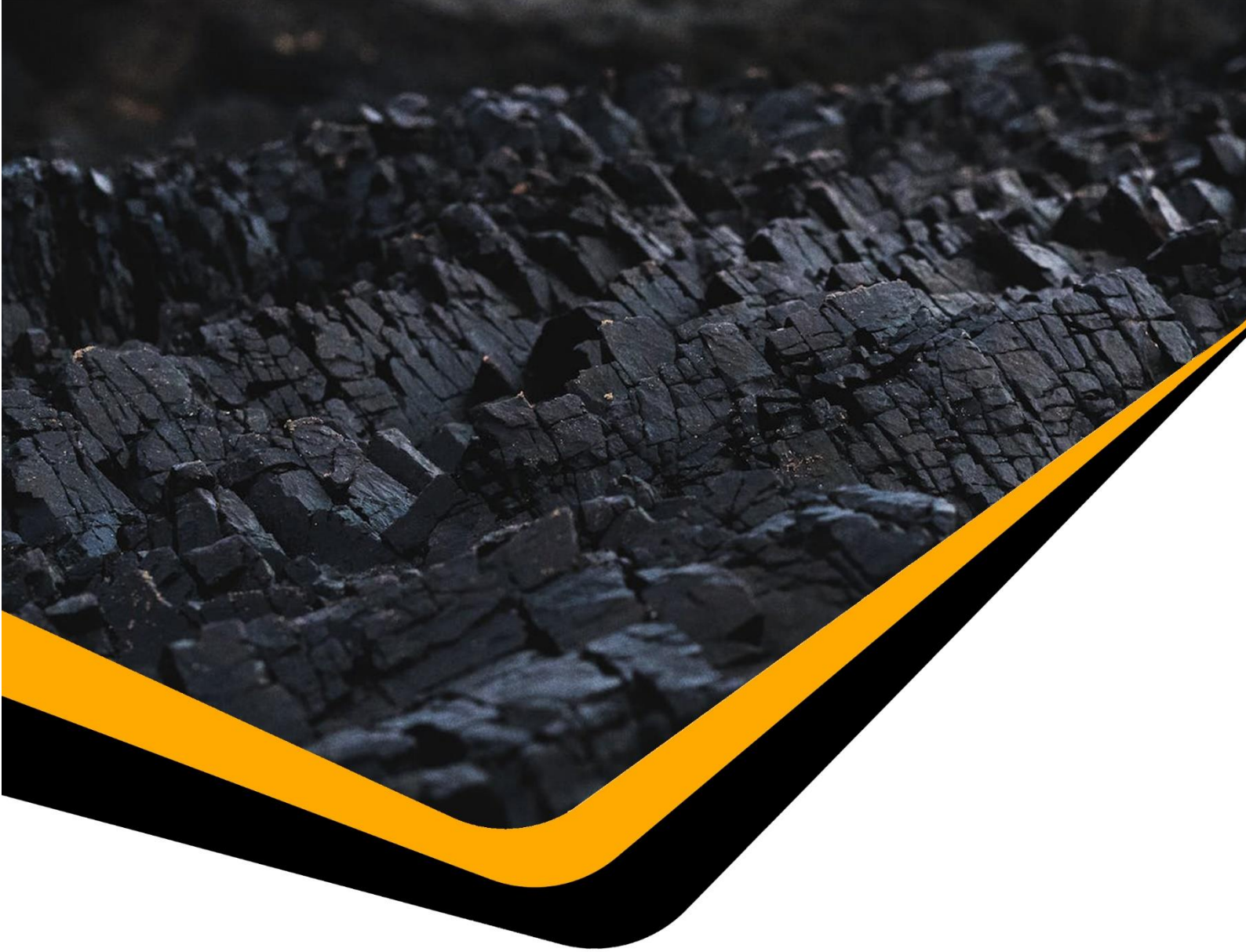
These test results are representative only of the sample received in the laboratory.

LAB NO.	SAMPLE NO.	AS RECEIVED BASIS										AIR DRIED BASIS										Crucible Swelling Number (CSN)	Coal Caking Index (CKIN)
		Total Moisture (TM)	Ash (ASH)	Volatiles Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Moisture (MOIS)	Ash (ASH)	Volatiles Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Ash (ASH)	Volatiles Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)								
1	ETT_SP_10014-1A	2.47	19.16	26.27	52.11	0.76	0.92	19.46	26.68	52.94	0.77	19.64	26.93	53.43	0.78	33.52	66.48	0.97	81	-			
2	ETT_SP_10014-1B	2.73	20.97	25.24	51.06	0.82	1.03	21.34	25.68	51.95	0.83	21.56	25.95	52.49	0.84	33.08	66.92	1.07	79	-			
3	ETT_SP_10014-1C	2.09	15.47	27.45	54.98	0.61	0.24	15.69	27.03	55.74	0.61	15.80	28.04	56.16	0.62	33.30	66.70	0.74	85	-			
4	ETT_SP_10014-1D	2.18	16.22	26.29	55.30	0.60	0.72	16.46	26.69	56.13	0.61	16.58	26.88	56.54	0.62	32.22	67.78	0.74	81	-			
5	ETT_SP_10014-2A	0.64	21.02	26.02	52.32	1.40	0.52	21.04	26.05	52.39	1.40	21.15	26.19	52.66	1.41	33.22	66.78	1.78	6.5	78			
6	ETT_SP_10014-2B	0.74	18.50	26.49	54.27	1.25	0.46	18.56	26.56	54.42	1.25	18.64	26.69	54.67	1.26	32.80	67.20	1.54	6.5	79			
7	ETT_SP_10014-2C	1.02	17.61	26.26	55.12	1.46	0.77	17.65	26.32	55.26	1.46	17.79	26.52	55.69	1.48	32.26	67.74	1.79	6.5	77			
8	ETT_SP_10014-2D	1.03	19.21	25.72	54.04	1.34	0.75	19.26	25.79	54.19	1.34	19.41	25.99	54.61	1.35	32.24	67.76	1.68	6.0	73			
9	ETT_SP_10014-2E	1.05	17.53	26.17	55.25	1.18	0.80	17.58	26.23	55.39	1.18	17.72	26.44	55.83	1.19	32.14	67.86	1.44	6.5	75			
10	ETT_SP_10014-3A	2.34	24.66	23.44	49.56	0.81	1.00	24.99	23.76	50.24	0.82	25.24	24.00	50.75	0.83	32.11	67.89	1.11	3.0	46			
11	ETT_SP_10014-3B	1.15	22.75	24.81	51.29	0.73	0.56	22.88	24.96	51.60	0.74	23.01	23.10	51.89	0.74	32.60	67.40	0.96	6.0	74			
12	ETT_SP_10014-3C	1.69	20.94	25.72	51.65	0.69	0.59	21.17	26.01	52.23	0.70	21.30	26.16	52.54	0.70	33.24	66.76	0.90	6.5	81			
13	ETT_SP_10014-3D	1.24	19.31	26.98	52.48	0.88	0.72	19.41	27.12	52.75	0.89	19.55	27.31	53.14	0.89	33.95	66.05	1.11	7.0	85			
14	ETT_SP_10014-4A	1.33	22.33	25.24	51.09	0.88	0.66	22.48	25.42	51.44	0.88	22.63	25.59	51.78	0.89	33.07	66.93	1.15	7.0	79			
15	ETT_SP_10014-4B	1.50	21.13	24.80	52.57	0.67	0.50	21.34	25.05	53.10	0.68	21.45	25.18	53.37	0.68	32.06	67.94	0.87	6.5	75			
16	ETT_SP_10014-4C	1.90	20.39	25.71	52.01	0.90	0.51	20.68	26.07	52.74	0.91	20.79	26.20	53.01	0.92	33.08	66.92	1.16	7.0	84			
17	ETT_SP_10014-4D	1.82	19.41	26.38	52.39	0.91	0.60	19.66	26.71	53.04	0.92	19.77	26.87	53.36	0.92	33.49	66.51	1.15	7.0	83			
18	ETT_SP_10014-5A	1.18	17.96	25.62	55.24	0.58	0.62	18.06	25.76	55.55	0.59	18.18	25.92	55.90	0.59	31.68	68.32	0.72	5.5	80			
19	ETT_SP_10014-5B	1.18	21.52	25.12	52.18	0.84	0.69	21.62	25.25	52.44	0.84	21.77	25.42	52.80	0.85	32.50	67.50	1.09	6.0	76			
20	ETT_SP_10014-5C	1.45	20.56	25.44	52.54	0.73	0.63	20.74	25.65	52.98	0.73	20.87	25.81	53.32	0.74	32.62	67.38	0.93	6.0	74			
21	ETT_SP_10014-5D	1.38	20.29	25.88	52.46	1.01	0.67	20.43	26.06	52.83	1.02	20.57	26.24	53.19	1.03	33.04	66.96	1.29	6.0	81			
22	ETT_SP_10014-5E	1.26	19.24	25.88	53.52	0.86	0.61	19.47	26.05	53.87	0.87	19.59	26.21	54.20	0.87	32.59	67.41	1.08	6.0	80			

QUALITY ASSURANCE/QUALITY CONTROL DATA

STDAWS-23/20	ASH	VOL	TSUL
Certified Value	18.08	18.16	0.616
Standard Deviation	0.68	0.16	0.017
Unit	%	%	%
Analyzed value	10.84	18.08	0.619

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. COPYRIGHT PROTECTED DOCUMENT



ISO 45001:2018



ISO 9001:2015



ISO 14001:2015



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75055555  
1800-1072



Финанс төв, 1-р хороо,  
Чингэлтэй дүүрэг,  
Улаанбаатар хот

