
COAL QUALITY SPECIFICATION

Nº ETT_SP_TC



ISO 45001:2018



ISO 9001:2015



ISO 14001:2015



COAL STOCKPILES QUALITY (weighted average)

<p>Total moisture TM (ar)</p> <p>3.0%</p> <p>(-1.0; +3.0)</p>	<p>Total sulphur S (db)</p> <p>1.0%</p> <p>(-0.3; +0.5)</p>	<p>Volatile matter VM (daf)</p> <p>34.0%</p> <p>(max)</p>	
<p>Calorific value CV (ar)</p> <p>5550</p> <p>(-500; +500)</p>	<p>Ash (db)</p> <p>26.0%</p> <p>(-5.0; +5.0)</p>	<p>G Index</p> <p>≤5.0</p>	<p>QUANTITY</p> <p>512.0</p> <p>Thousand tons</p>

THE FOLLOWING IS THE RESULT OF THE LABORATORY TESTS

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CERTIFICATE OF ANALYSIS
248140-J122-TT

CLIENT: Erdenes Tavantolgoi JSC
ADDRESS: Finance Center, Jigjidjav-8
1st khoroo, Chingeltei District
Ulaanbaatar, Mongolia
ATTN: Munkhtuul.G
PROJECT NO. xxx
LAB. JOB NO. 248140-J122-TT
NO. SAMPLES: 61
Notes/Comments: xxx

SAMPLES RECEIVED: 16/02/2024 12/10/2024
INSTRUCTIONS RECEIVED: 16/02/2024 12/10/2024
DATE OF REPORT: 17/02/2024 13/10/2024
STATUS OF REPORT: FINAL
ANALYSIS COMPLETE: 17/02/2024 13/10/2024
PREPARATION CODE: CRUSH-01, 02; MILL-01
ANALYSIS CODE: 2.1_THERMAL COAL_CSN
TM, MOIS, ASH, VOL, TSUL
GCV, CKIN
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							
		GB/T 211	GB/T 212	GB/T 212	GB/T 212	ISO 19579	GB/T 213	GB/T 212	GB/T 212	GB/T 212	ISO 19579	GB/T 213	
		Total Moisture (TM)	Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Gross Calorific Value (GCV)	Moisture (MOIS)	Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)	Gross Calorific Value (GCV)
		%				kcal/kg							
1	ETT-SP-30013-1A	3.36	24.08	22.47	50.09	0.78	5975	0.47	24.80	23.14	51.59	0.80	6154
2	ETT-SP-30013-1B	4.30	21.92	22.68	51.10	1.02	6128	0.62	22.76	23.56	53.06	1.06	6365
3	ETT-SP-30013-1C	4.07	24.47	22.39	49.07	1.05	5862	0.63	25.35	23.20	50.83	1.09	6072
4	ETT-SP-30013-1D	4.63	23.33	22.61	49.43	0.97	5873	0.73	24.28	23.54	51.45	1.01	6113
5	ETT-SP-30013-2A	3.04	21.59	23.24	52.13	0.76	6185	0.48	22.16	23.85	53.50	0.78	6348
6	ETT-SP-30013-2B	2.80	29.13	21.21	46.85	0.98	5536	0.59	29.79	21.70	47.92	1.00	5662
7	ETT-SP-30013-2C	3.89	27.86	20.94	47.31	0.90	5652	0.62	28.80	21.65	48.92	0.93	5845
8	ETT-SP-30013-2D	4.34	22.57	22.74	50.35	0.74	6050	0.59	23.45	23.63	52.33	0.77	6287
9	ETT-SP-30013-3A	2.29	22.57	24.41	50.73	0.86	6123	0.49	22.99	24.86	51.67	0.88	6235
10	ETT-SP-30013-3B	2.37	22.36	23.87	51.40	0.85	6214	0.51	22.79	24.33	52.38	0.87	6332
11	ETT-SP-30013-3C	2.69	23.67	23.50	50.14	1.03	6068	0.54	24.19	24.02	51.24	1.06	6202
12	ETT-SP-30013-3D	2.41	23.54	23.71	50.34	0.96	6084	0.51	24.00	24.17	51.32	0.97	6202

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13	ETT_SP_30013-4A	1.23	30.28	21.97	46.51	0.98	5563	0.59	30.48	22.11	46.81	0.98	5599
14	ETT_SP_30013-4B	1.89	24.08	22.54	51.49	0.94	6152	0.65	24.39	22.82	52.14	0.96	6229
15	ETT_SP_30013-4C	1.63	24.45	23.88	50.04	0.97	6087	0.52	24.73	24.15	50.60	0.98	6156
16	ETT_SP_30013-5A	1.22	24.11	22.90	51.77	0.90	6135	0.51	24.28	23.06	52.15	0.90	6179
17	ETT_SP_30013-5B	1.80	24.13	23.31	50.76	0.78	6095	0.75	24.39	23.56	51.30	0.79	6160
18	ETT_SP_30013-5C	1.57	26.77	22.23	49.42	0.80	5841	0.69	27.01	22.43	49.86	0.80	5893
19	ETT_SP_30013-6A	1.61	21.23	23.00	54.15	0.95	6371	0.68	21.44	23.22	54.66	0.96	6431
20	ETT_SP_30013-6B	2.41	22.34	22.01	53.23	0.56	6291	0.65	22.75	22.41	54.19	0.57	6404
21	ETT_SP_30013-6C	2.40	23.22	21.93	52.44	0.99	6193	0.62	23.65	22.33	53.40	1.01	6306
22	ETT_SP_30013-7A	1.96	23.62	21.32	53.10	2.51	6142	0.73	23.92	21.59	53.77	2.54	6219
23	ETT_SP_30013-7B	1.36	23.53	22.74	52.37	0.88	6241	0.65	23.70	22.90	52.74	0.88	6285
24	ETT-SP-30013-8A	1.15	25.18	23.14	50.53	0.82	6120	0.79	25.27	23.22	50.72	0.83	6143
25	ETT-SP-30013-8B	1.70	23.65	22.68	51.97	0.69	6208	0.82	23.86	22.88	52.44	0.69	6264
26	ETT-SP-30013-8C	1.73	30.09	22.99	45.19	0.57	5427	0.82	30.37	23.20	45.61	0.57	5477
27	ETT_SP_30013-T1-1A	1.83	40.89	18.34	38.94	0.89	4553	0.83	41.31	18.53	39.33	0.90	4599
28	ETT_SP_30013-T1-2A	2.43	22.78	24.30	50.49	1.98	6267	0.75	23.17	24.72	51.36	1.00	6374
29	ETT_SP_30013-T2-1A	1.80	32.71	20.32	45.17	1.80	5401	0.58	33.12	20.57	45.73	1.82	5468
30	ETT_SP_30013-T2-1B	2.72	27.06	22.68	47.54	0.89	5788	1.02	27.53	23.07	48.37	0.90	5889
31	ETT_SP_30013-T2-1C	3.22	37.02	20.14	39.63	0.70	4872	1.10	37.83	20.58	40.49	0.71	4979
32	ETT_SP_30013-T2-2A	5.42	22.07	23.19	49.32	1.01	6013	1.13	23.07	24.25	51.55	1.06	6286
33	ETT_SP_30013-T2-2B	4.41	29.22	22.16	44.21	0.92	5434	1.20	30.20	22.90	45.69	0.95	5617
34	ETT_SP_30013-T2-2C	5.09	21.69	22.77	50.45	1.08	6072	1.07	22.61	23.74	52.58	1.12	6329
35	ETT_SP_30013-T2-3A	1.90	23.82	24.52	49.76	0.75	6187	0.90	24.07	24.77	50.26	0.76	6250
36	ETT_SP_30013-T2-3B	2.41	24.47	24.25	48.87	0.73	5991	0.92	24.84	24.62	49.62	0.74	6083
37	ETT_SP_30013-T2-3C	2.62	20.41	25.30	51.67	0.83	6439	0.90	20.77	25.75	52.58	0.85	6552
38	ETT_SP_30013-T2-4A	8.21	26.82	21.38	43.59	0.75	5286	1.26	28.85	23.00	46.90	0.80	5686
39	ETT_SP_30013-T2-4B	7.61	30.04	19.72	42.64	0.78	5128	1.21	32.11	21.08	45.59	0.83	5483
40	ETT_SP_30013-T2-4C	5.62	30.35	19.69	44.34	0.99	5332	0.87	31.88	20.68	46.58	1.04	5600
41	ETT_SP_30013-T2-5A	3.12	25.65	23.27	47.97	0.94	5848	0.95	26.22	23.79	49.04	0.97	5979
42	ETT_SP_30013-T2-5B	1.91	30.91	22.57	44.62	0.77	5438	0.93	31.21	22.79	45.06	0.77	5492
43	ETT_SP_30013-T2-6A	1.50	28.23	21.77	48.50	0.79	5839	0.45	28.53	22.00	49.02	0.80	5901
44	ETT_SP_30013-T2-6B	2.51	24.06	22.95	50.48	0.65	6104	0.54	24.54	23.42	51.50	0.66	6228
45	ETT_SP_30013-T2-7A	3.51	23.02	24.91	48.57	0.90	5894	0.98	23.62	25.56	49.84	0.92	6048
46	ETT_SP_30013-T2-7B	3.65	22.02	23.49	50.84	0.85	5922	1.08	22.61	24.11	52.20	0.87	6080
47	ETT_SP_30013-T2-8A	3.74	25.72	23.02	47.52	1.01	5730	0.86	26.49	23.71	48.94	1.04	5901
48	ETT_SP_30013-T2-8B	3.70	22.17	22.29	51.84	0.65	6054	1.24	22.74	22.86	53.17	0.66	6209
49	ETT_SP_30013-T2-9A	3.87	26.26	22.48	47.38	0.78	5722	1.01	27.04	23.15	48.79	0.80	5893
50	ETT_SP_30013-T3-1A	2.95	21.72	23.44	51.88	0.66	6272	0.86	22.19	23.95	53.00	0.67	6408
51	ETT_SP_30013-T3-1B	3.04	27.13	21.73	48.10	0.62	5801	0.96	27.71	22.19	49.14	0.63	5926
52	ETT_SP_30013-T3-1C	2.11	22.19	23.53	52.17	0.75	6395	0.66	22.52	23.88	52.94	0.76	6490
53	ETT_SP_30013-T3-1D	2.27	27.68	21.56	48.49	0.67	5848	0.74	28.11	21.90	49.25	0.68	5939
54	ETT_SP_30013-T3-2A	3.74	23.28	21.87	51.10	0.71	6147	0.70	24.02	22.56	52.72	0.73	6341
55	ETT_SP_30013-T3-2B	3.94	23.98	21.48	50.59	0.57	6050	0.85	24.76	22.17	52.22	0.59	6245
56	ETT_SP_30013-T3-2C	3.54	21.87	23.85	50.75	0.80	6206	0.77	22.49	24.53	52.20	0.82	6384
57	ETT_SP_30013-T3-2D	4.22	20.73	23.78	51.27	0.83	6242	0.71	21.49	24.65	53.15	0.86	6470
58	ETT_SP_30013-T3-3A	1.97	25.70	22.88	49.45	0.89	6069	0.43	26.11	23.23	50.23	0.90	6165
59	ETT_SP_30013-T3-3B	2.77	25.64	22.85	48.74	0.84	5941	0.59	26.21	23.37	49.83	0.86	6075
60	ETT_SP_30013-T3-3C	3.61	26.56	22.55	47.28	0.69	5715	1.04	27.27	23.15	48.54	0.71	5867
61	ETT_SP_30013-T3-3D	3.72	25.62	21.97	48.68	0.73	5883	0.89	26.38	22.61	50.12	0.75	6056

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CERTIFICATE OF ANALYSIS
24B140-J122-TT

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Ulaanbaatar, Mongolia
ATTN: Munkhtuul.G
PROJECT NO. xxx
LAB. JOB NO. 24B140-J122-TT
NO. SAMPLES: 61
Notes/Comments: xxx

SAMPLES RECEIVED: 16/02/2024 12/10/2024
INSTRUCTIONS RECEIVED: 16/02/2024 12/10/2024
DATE OF REPORT: 17/02/2024 13/10/2024
STATUS OF REPORT: FINAL
ANALYSIS COMPLETE: 17/02/2024 13/10/2024
PREPARATION CODE: CRUSH-01_02; MILL-01
ANALYSIS CODE: 2_1_THERMAL COAL
CSN
TM, MOIS, ASH, VOL,
TSUL, GCV, CKIN

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

LAB NO.	STANDARD METHOD	SAMPLE NO.	GB/T 212				ISO 19579	GB/T 213	GB/T 212				ISO 19579	GB/T 213	GB/T 5448	GB/T 5447
			Ash (ASH)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)			Gross Calorific Value (GCV)	Volatile Matter (VOL)	Fixed Carbon (FC)	Total Sulphur (TSUL)				
			%				kcal/kg		%				kcal/kg		5:1	3:3
1	ETT-SP-30013-1A		24.92	23.25	51.83	0.81	6183	30.96	69.04	1.07	8234				16	
2	ETT-SP-30013-1B		22.90	23.70	53.39	1.07	6404	30.75	69.25	1.39	8306				15	
3	ETT-SP-30013-1C		25.51	23.34	51.15	1.10	6111	31.34	68.66	1.48	8203				16	
4	ETT-SP-30013-1D		24.46	23.71	51.83	1.01	6158	31.39	68.61	1.34	8153				13	
5	ETT_SP_30013-2A		22.27	23.97	53.76	0.78	6379	30.83	69.17	1.01	8207				14	
6	ETT_SP_30013-2B		29.97	21.83	48.21	1.01	5696	31.17	68.83	1.44	8133				14	
7	ETT_SP_30013-2C		28.98	21.79	49.23	0.94	5881	30.68	69.32	1.32	8282				10	
8	ETT_SP_30013-2D		23.59	23.77	52.64	0.77	6325	31.11	68.89	1.01	8277				12	
9	ETT_SP_30013-3A		23.10	24.98	51.92	0.88	6266	32.48	67.52	1.14	8148				16	
10	ETT_SP_30013-3B		22.90	24.45	52.65	0.87	6365	31.71	68.29	1.13	8256				15	
11	ETT_SP_30013-3C		24.33	24.15	51.52	1.06	6236	31.92	68.08	1.40	8240				17	
12	ETT_SP_30013-3D		24.13	24.29	51.58	0.98	6234	32.01	67.99	1.29	8216				17	

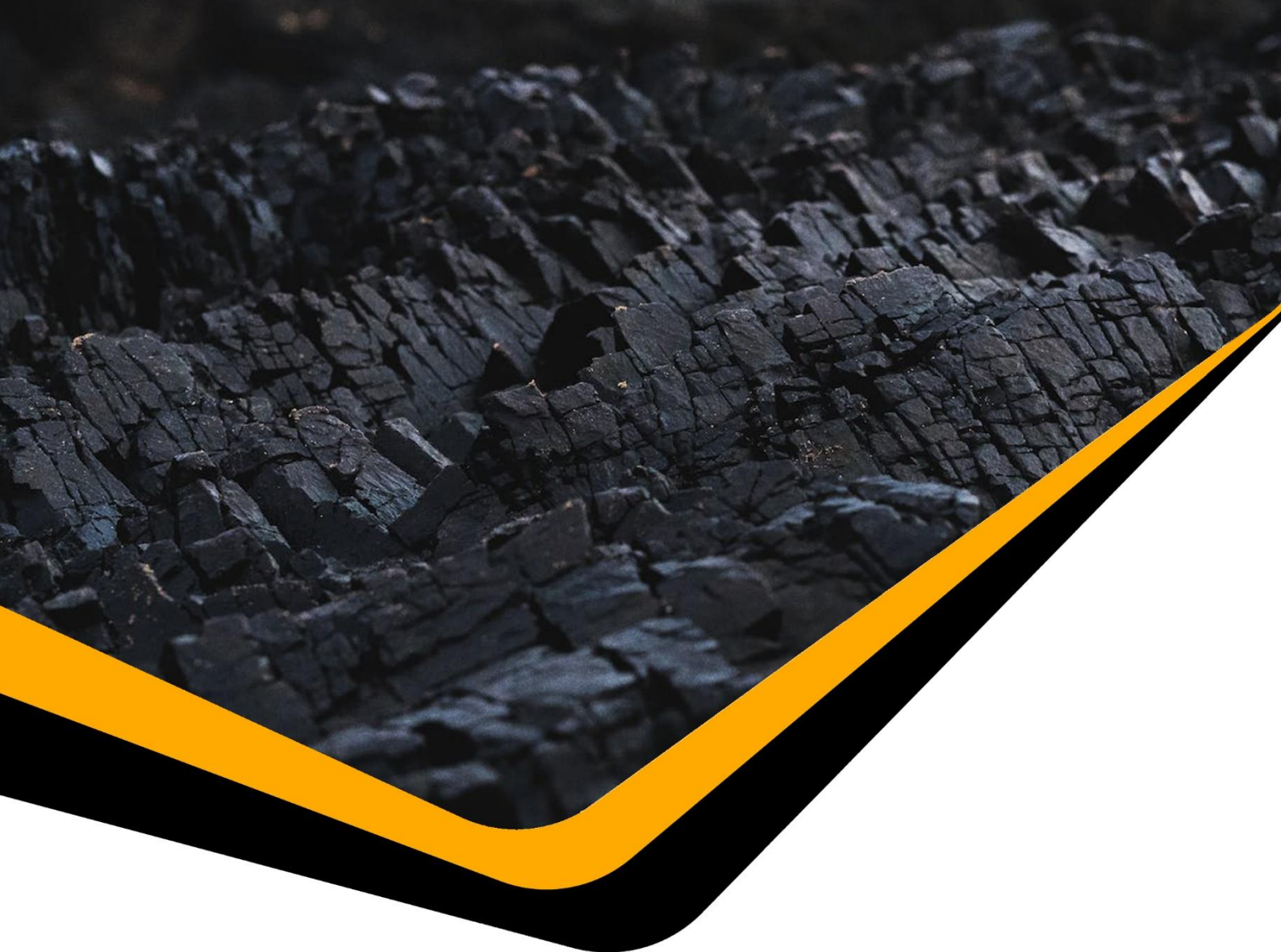
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ETT_SP_TC General info



13	ETT_SP_30013-4A	30.66	22.25	47.09	0.99	5632	32.08	67.92	1.43	8123	-	15
14	ETT_SP_30013-4B	24.55	22.97	52.48	0.96	6270	30.44	69.56	1.27	8310	-	14
15	ETT_SP_30013-4C	24.86	24.28	50.87	0.98	6188	32.31	67.69	1.31	8235	-	14
16	ETT_SP_30013-5A	24.40	23.18	52.41	0.91	6211	30.67	69.33	1.20	8216	-	16
17	ETT_SP_30013-5B	24.58	23.74	51.69	0.80	6207	31.47	68.53	1.05	8230	-	16
18	ETT_SP_30013-5C	27.20	22.59	50.21	0.81	5934	31.03	68.97	1.11	8151	-	14
19	ETT_SP_30013-6A	21.58	23.38	55.04	0.97	6475	29.82	70.18	1.23	8257	1.0	13
20	ETT_SP_30013-6B	22.89	22.56	54.55	0.58	6446	29.26	70.74	0.75	8360	-	13
21	ETT_SP_30013-6C	23.80	22.47	53.73	1.01	6345	29.49	70.51	1.33	8326	-	14
22	ETT_SP_30013-7A	24.09	21.75	54.16	2.56	6264	28.65	71.35	3.37	8253	1.0	4
23	ETT_SP_30013-7B	23.86	23.05	53.09	0.89	6327	30.28	69.72	1.17	8309	1.0	15
24	ETT_SP_30013-8A	25.47	23.41	51.12	0.83	6192	31.41	68.59	1.12	8308	-	16
25	ETT_SP_30013-8B	24.06	23.07	52.87	0.70	6315	30.38	69.62	0.92	8316	-	15
26	ETT_SP_30013-8C	30.62	23.39	45.99	0.58	5522	33.72	66.28	0.83	7959	-	16
27	ETT_SP_30013-T1-1A	41.65	18.69	39.66	0.91	4637	32.03	67.97	1.55	7948	-	6
28	ETT_SP_30013-T1-2A	23.34	24.91	51.75	1.00	6423	32.49	67.51	1.31	8378	32	-
29	ETT_SP_30013-T2-1A	33.31	20.69	46.00	1.83	5500	31.03	68.97	2.74	8247	-	14
30	ETT_SP_30013-T2-1B	27.82	23.31	48.87	0.91	5950	32.29	67.71	1.26	8243	-	15
31	ETT_SP_30013-T2-1C	38.25	20.80	40.94	0.72	5034	33.69	66.31	1.17	8152	-	15
32	ETT_SP_30013-T2-2A	23.33	24.52	52.14	1.07	6357	31.99	68.01	1.40	8292	-	17
33	ETT_SP_30013-T2-2B	30.57	23.18	46.25	0.96	5685	33.39	66.61	1.39	8188	-	17
34	ETT_SP_30013-T2-2C	22.85	24.00	53.15	1.13	6397	31.10	68.90	1.47	8293	21	-
35	ETT_SP_30013-T2-3A	24.29	25.00	50.72	0.77	6306	33.01	66.99	1.01	8329	31	-
36	ETT_SP_30013-T2-3B	25.07	24.85	50.08	0.75	6139	33.16	66.84	1.00	8194	-	17
37	ETT_SP_30013-T2-3C	20.96	25.98	53.06	0.85	6612	32.87	67.13	1.08	8365	33	-
38	ETT_SP_30013-T2-4A	29.22	23.29	47.49	0.81	5758	32.90	67.10	1.15	8135	-	15
39	ETT_SP_30013-T2-4B	32.51	21.34	46.15	0.84	5550	31.62	68.38	1.25	8224	-	12
40	ETT_SP_30013-T2-4C	32.16	20.86	46.98	1.05	5649	30.74	69.26	1.55	8327	-	12
41	ETT_SP_30013-T2-5A	26.47	24.01	49.51	0.98	6037	32.66	67.34	1.33	8210	27	-
42	ETT_SP_30013-T2-5B	31.51	23.01	45.49	0.78	5544	33.59	66.41	1.14	8095	-	17
43	ETT_SP_30013-T2-6A	28.66	22.10	49.24	0.80	5928	30.98	69.02	1.13	8309	-	15
44	ETT_SP_30013-T2-6B	24.68	23.55	51.78	0.67	6261	31.26	68.74	0.89	8312	20	-
45	ETT_SP_30013-T2-7A	23.85	25.82	50.33	0.93	6108	33.90	66.10	1.23	8022	-	13
46	ETT_SP_30013-T2-7B	22.86	24.38	52.77	0.88	6146	31.60	68.40	1.14	7967	-	0
47	ETT_SP_30013-T2-8A	26.72	23.91	49.37	1.05	5953	32.63	67.37	1.43	8123	-	15
48	ETT_SP_30013-T2-8B	23.02	23.15	53.83	0.67	6286	30.07	69.93	0.87	8166	-	9
49	ETT_SP_30013-T2-9A	27.32	23.39	49.29	0.81	5953	32.18	67.82	1.11	8191	22	-
50	ETT_SP_30013-T3-1A	22.38	24.15	53.46	0.68	6463	31.12	68.88	0.87	8327	33	-
51	ETT_SP_30013-T3-1B	27.98	22.41	49.61	0.64	5983	31.11	68.89	0.88	8308	-	16
52	ETT_SP_30013-T3-1C	22.67	24.04	53.29	0.77	6533	31.08	68.92	0.99	8448	28	-
53	ETT_SP_30013-T3-1D	28.32	22.06	49.62	0.68	5984	30.78	69.22	0.95	8348	-	16
54	ETT_SP_30013-T3-2A	24.19	22.72	53.09	0.73	6386	29.97	70.03	0.97	8423	-	15
55	ETT_SP_30013-T3-2B	24.97	22.36	52.67	0.59	6299	29.80	70.20	0.79	8395	-	16
56	ETT_SP_30013-T3-2C	22.67	24.72	52.61	0.83	6434	31.97	68.03	1.07	8320	42	-
57	ETT_SP_30013-T3-2D	21.65	24.82	53.53	0.87	6517	31.68	68.32	1.11	8317	30	-
58	ETT_SP_30013-T3-3A	26.22	23.33	50.45	0.91	6191	31.63	68.37	1.23	8391	36	-
59	ETT_SP_30013-T3-3B	26.37	23.50	50.13	0.87	6111	31.92	68.08	1.18	8299	26	-
60	ETT_SP_30013-T3-3C	27.56	23.40	49.04	0.72	5928	32.30	67.70	0.99	8183	-	17
61	ETT_SP_30013-T3-3D	26.62	22.82	50.57	0.76	6110	31.09	68.91	1.03	8326	-	17

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. COPY RIGHT PROTECTED DOCUMENT



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