

**SGS IMME Mongolia LLC**

MRN: 5616077

**Khangad Exploration LLC**

TTD: 2887134  
Orient Plaza, 5th Floor  
Peace Avenue-12, Ulaanbaatar  
Mongolia

*Lab Ref:* UC004950  
*Client Ref* **240520**  
*Project* Coal projects  
*Sample type*  
*Status* Preliminary  
*Received* 5/21/24  
*Started* 5/22/24  
*Reported* 5/30/24  
*Samples* 1  
*First Sample* Washed\_BN\_SSCC\_240517\_1  
*Last Sample* Washed\_BN\_SSCC\_240517\_1  
*Pages* 11

*Result apply to sample as submitted.*

*Notes*

*Authorised by*



*On behalf of:*

Ankhbayar Luvsansharav  
Operations Director

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Lab Ref UC004950  
Client Ref **240520**  
Project COAL  
Reported 30/05/24  
Status Preliminary  
Page Page 2 of 11

**ANALYTICAL REPORT**

Scheme	ASTM3302	ASTM3302	ISO11722:2013	ISO 1171:2010	ISO 1171:2010	ISO 1171:2010
Units	%	%	%	%	%	%
Detection Limit	0.1	0.1	0.1	0.5	0.5	0.5
Upper Limit	50	50	50	99	99	99
	Moisture, Total	Air Dry Loss	RM_ADB	Ash, ARB	Ash, ADB	Ash, DB
Washed_BN_SSCC_240517_1	7.14	6.00	1.21	8.49	9.04	9.15

Lab Ref UC004950  
Client Ref **240520**  
Project COAL  
Reported 30/05/24  
Status Preliminary  
Page Page 3 of 11

**ANALYTICAL REPORT**

Scheme	ISO562:2010	ISO562:2010	ISO562:2010	ISO562:2010	ISO 1213-2:2016	ISO 1213-2:2016
Units	AR %	AD %	DB %	DAF %	%	%
Detection Limit	0.1	0.1	0.1	0.1	0.01	0.01
Upper Limit	75	75	75	75	100	100
	VM_ARB	VM_ADB	VM_DB	VM_DAF	FC_ARB	FC_ADB
Washed_BN_SSCC_240517_1	28.65	30.48	30.85	33.96	55.72	59.28

Lab Ref UC004950  
Client Ref **240520**  
Project COAL  
Reported 30/05/24  
Status Preliminary  
Page Page 4 of 11

**ANALYTICAL REPORT**

Scheme	ISO 1213-2:2016	ISO 1213-2:2016	ISO19579:2006	ISO19579:2006	ISO19579:2006	ISO19579:2006
Units	%	%	AR %	AD %	DB %	DAF %
Detection Limit	0.01	0.01	0.01	0.01	0.01	0.01
Upper Limit	100	100	5.21	5.21	5.21	20
	FC_DB	FC_DAF	Sul_ARB	Sul_ADB	Sul_DB	Sul_DAF
Washed_BN_SSCC_240517_1	60.00	66.04	0.63	0.68	0.68	0.75

Lab Ref UC004950  
Client Ref **240520**  
Project COAL  
Reported 30/05/24  
Status Preliminary  
Page Page 5 of 11

**ANALYTICAL REPORT**

Scheme	MNS ISO1928:2020	MNS ISO1928:2020	MNS ISO1928:2020	MNS ISO1928:2020	ISO 501:2012	ISO 15585:2019
Units	KCAL/KG	KCAL/KG	KCAL/KG	KCAL/KG	/	/
Detection Limit	0	0	0	0	0	0
Upper Limit	10,000	10,000	10,000	10,000	9	110
	GCV_ARB	GCV_ADB	GCV_DB	GCV_DAF	CSN	G
Washed_BN_SSCC_240517_1	7117	7571	7664	8435	7	80

Lab Ref UC004950  
Client Ref **240520**  
Project COAL  
Reported 30/05/24  
Status Preliminary  
Page Page 6 of 11

**ANALYTICAL REPORT**

Scheme	ICP40B	GB/T 4633-2014	GB/T 3558-2014	XRF76V	CVA20A	GB/T 479:2016
Units	PPM	PPM	%	%	PPM	mm
Detection Limit	3	20	0.003	0.01	0.004	0
Upper Limit	10,000	2,000	0.4	70	5.2	30
	As	F	Cl	P	Hg	Y
Washed_BN_SSCC_240517_1	<3	169	--	0.02	--	18.0

Lab Ref UC004950  
Client Ref **240520**  
Project COAL  
Reported 30/05/24  
Status Preliminary  
Page Page 7 of 11

**ANALYTICAL REPORT**

	GB/T 479:2016	ISO 1928:2020	ASTM D5373-21	ASTM D5373-21	ASTM D5373-21	ASTM D5373-21
<b>Scheme</b>						
<b>Units</b>	mm	KCAL/KG	AD %	AR %	DB %	AD %
<b>Detection Limit</b>	0	0.1	0.001	0.001	0.001	0.001
<b>Upper Limit</b>	45	9,000	100	100	100	100
	X	NCV_AR	C_AD	C_AR	C_DB	H_AD
Washed_BN_SSCC_240517_1	36.0	6867	77.49	72.84	78.44	4.41

Lab Ref UC004950  
 Client Ref **240520**  
 Project COAL  
 Reported 30/05/24  
 Status Preliminary  
 Page Page 8 of 11

**ANALYTICAL REPORT**

Scheme	ASTM D5373-21	ASTM D5373-21	ASTM D5373-21	ASTM D5373-21	ASTM D5373-21	ASTM D5373-21
	AR %	DB %	AD %	AR %	DB %	AD %
Units						
Detection Limit	0.001	0.001	0.001	0.001	0.001	0.001
Upper Limit	100	100	100	100	100	50
	H_AR	H_DB	O_AD	O_AR	O_DB	N_AD
Washed_BN_SSCC_240517_1	4.14	4.59	5.70	5.36	5.64	1.49



Lab Ref UC004950  
 Client Ref **240520**  
 Project COAL  
 Reported 30/05/24  
 Status Preliminary  
 Page Page 9 of 11

**ANALYTICAL REPORT**

Scheme	ASTM D5373-21	ASTM D5373-21	AS 1038.21.1.2-2002
Units	AR %	DB %	G/CM3
Detection Limit	0.001	0.001	0.01
Upper Limit	50	50	3
	N_AR	N_DB	RD
Washed_BN_SSCC_240517_1	1.40	1.51	1.32

Draft Report

Lab Ref UC004950  
Client Ref **240520**  
Project COAL  
Reported 30/05/24  
Status Preliminary  
Page Page 10 of 11

**ANALYTICAL REPORT**

**Description**

- ASTM2013 : Standard Practice for Preparing Coal Samples for Analysis
- ISO11722 : Determination of moisture in the general analysis test sample by drying nitrogen
- ASTM3302 : Moisture, Air-Dry Loss
- ISO 1171 : Solid mineral fuels-Determination of ash
- GB/T 3558 : Determination of Chlorine in coal
- ISO501 : Hard coal-Determination of the crucible swelling number
- GB/T 4633 : Determination of Fluorine in coal
- ISO 1213-2 : Fixed Carbon (by calculation)
- ISO 15585 : Hard coal-Determination of Caking index
- CVA20A : Mercury by AFS method
- ISO 1928 : Coal and coke — Determination of gross calorific value
- AS 1038.21 : Relative Density - Analysis sample/volumetric method
- ISO19579 : Solid mineral fuels-Determination of sulfur by IR spectrometry
- ASTM3302 : Standard Test Method for Total Moisture in Coal
- ASTM D5373 : Standard Test Methods for Determination of Carbon, Hydrogen and Nitrogen in Analysis Samples of Coal
- ISO562 : Hard coal and coke-Determination of volatile matter
- GB/T 479 : Determination of plastometric indices of bituminous coal
- ICP40B : ICP-OES after DIG40B
- ISO1928 : Coal and coke — Determination of gross calorific value



**\*UC004950\***

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*Lab Ref* UC004950  
*Client Ref* **240520**  
*Project* COAL  
*Reported* 30/05/24  
*Status* Preliminary  
*Page* Page 11 of 11

XRF76V : Meta/Tetraborate Fusion, XRF (0.7000gr)

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Draft Report