



CERTIFICATE OF ANALYSIS

Preliminary Report
 Final Report

10-Aug-12

Coal Valley Resources Inc.
 1600 Oxford Tower
 10235-101 Street
 Edmonton, AB
 T5J 3G1, Canada

WORKORDER: RC12020424
 Hole: RT-11-544C
 Seam: Val D'or
 Diameter: 63.5mm
 Depth: 57.5m to 68.4m
 Plies: A,B,C,D,E,F,G,H

WET SIZING

ASTM Standard
 of Analysis

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	2351	8.2	8.2
+25	1256	4.4	12.5
+16	3030	10.5	23.0
+12.5	1442	5.0	28.1
+8	3004	10.4	38.5
+4	4541	15.8	54.3
+2	4772	16.6	70.8
+1	3751	13.0	83.8
+0.5	1912	6.6	90.5
+0.25	1045	3.6	94.1
+0.15	443	1.5	95.7
+0.063	550	1.9	97.6
+0.038	246	0.9	98.4
-0.038	456	1.6	100.0

D4749
 (split with RSD)

*All losses allocated to -0.038mm fraction

Sample was attrited in maximum 50kg lots with 18 cubes and 150 L of water or equivalent mass for 5 min @ 20 rpm

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

Brett Warden
 Laboratory Manager



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ANALYSIS

ASTM Standard
 of Analysis

FLOAT SINK ANALYSIS

AIR-DRIED BASIS

SIZE: +12.5mm						
S.G	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.35	1109	13.7	7.12	5.09	6469	0.0
S1.35 - F1.40	2457	30.3	6.75	9.07	6223	0.0
S1.40 - F1.45	1630	20.1	6.43	13.52	5874	0.0
S1.45 - F1.50	561	6.9	5.91	18.97	5504	0.0
S1.50 - F1.55	491	6.0	5.45	24.37	5098	0.0
S1.55 - F1.60	236	2.9	5.45	29.68	4723	0.0
S1.60 - F1.70	523	6.4	4.93	31.57	4277	*
S1.70 - F1.80	413	5.1	4.20	39.89	3549	*
S1.80 - F1.90	177	2.2	3.60	51.53	2882	*
S1.90 - F2.00	86	1.1	3.15	56.16	2441	*
S2.00	440	5.4	2.23	71.69	1235	*

D4371
 D3172
 D4239
 D720

SIZE: -12.5mm x +1.0mm						
S.G	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	30	0.7	7.76	3.44	6610	0.0
S1.30 - F1.35	1162	28.5	7.52	5.06	6448	0.0
S1.35 - F1.40	1232	30.2	6.51	8.22	6278	0.0
S1.40 - F1.45	481	11.8	6.72	13.68	5877	0.0
S1.45 - F1.50	278	6.8	6.07	18.53	5490	0.0
S1.50 - F1.55	198	4.8	5.73	23.07	5141	0.0
S1.55 - F1.60	131	3.2	5.67	27.92	4769	0.0
S1.60 - F1.70	188	4.6	5.19	34.70	4234	*
S1.70 - F1.80	105	2.6	4.51	42.59	3561	*
S1.80 - F1.90	68	1.7	4.02	50.27	2906	*
S1.90 - F2.00	45	1.1	3.99	57.41	2285	*
S2.00	164	4.0	2.85	71.57	1106	*

SIZE: 1mm x 0.15mm						
S.G	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.35	231	20.5	6.99	3.15	6569	0.0
S1.35 - F1.40	367	32.6	7.15	5.36	6335	0.0
S1.40 - F1.45	115	10.2	6.89	10.94	5956	0.0
S1.45 - F1.50	73	6.5	6.66	14.90	5664	0.0
S1.50 - F1.55	55	4.9	6.70	17.75	5411	0.0
S1.55 - F1.60	37	3.3	6.37	23.30	5010	0.0
S1.60 - F1.70	50	4.4	5.95	31.25	4401	*
S1.70 - F1.80	35	3.1	5.62	39.81	3709	*
S1.80 - F1.90	27	2.4	5.42	48.97	2968	*
S1.90 - F2.00	21	1.9	5.23	56.36	2347	*
S2.00	114	10.1	3.06	69.81	819	*

FROTH FLOTATION

SIZE: 0.15mm x 0.038mm						
TIME	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
15 SEC	18	5.2	6.26	10.76	6106	0.0
30 SEC	5	1.5	6.09	10.98	6070	0.0
60 SEC	4	1.1	6.02	12.03	5972	0.0
90 SEC	2	0.7	5.94	12.03	NSS	0.0
Tails (T2)	10	2.8	6.55	29.12	4413	0.0
Tails (T1)	312	88.6	7.13	37.88	3642	0.0
PARAMETERS:	10% PULP DENSITY, COND. TIME 90 SECOND 0.667 KG/T 10:1 KERO:MIBC, DENVER CELL, 1200 RPM					

FINES

SIZE: -0.038mm		
Mois %	Ash %	GCV (kcal/kg)
7.76	60.02	1832

NSS = Not Sufficient Sample

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ASTM Standard
 of Analysis

FLOAT SINK ANALYSIS

AIR-DRIED BASIS

CUMULATIVE WEIGHT % SIZE: +12.5mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.35	13.7	13.7	7.12	5.09	6469	0.0
S1.35 - F1.40	30.3	43.9	6.87	7.83	6300	0.0
S1.40 - F1.45	20.1	64.0	6.73	9.62	6166	0.0
S1.45 - F1.50	6.9	70.9	6.65	10.53	6102	0.0
S1.50 - F1.55	6.0	76.9	6.55	11.61	6023	0.0
S1.55 - F1.60	2.9	79.8	6.51	12.27	5976	0.0
S1.60 - F1.70	6.4	86.3	6.40	13.71	5849	-
S1.70 - F1.80	5.1	91.3	6.27	15.17	5721	-
S1.80 - F1.90	2.2	93.5	6.21	16.02	5655	-
S1.90 - F2.00	1.1	94.6	6.18	16.47	5619	-
S2.00	5.4	100.0	5.96	19.46	5381	-

D4371
 D3172
 D4239
 D720

CUMULATIVE WEIGHT % SIZE: 12.5mm x 1.0mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.30	0.7	0.7	7.76	3.44	6610	0.0
S1.30 - F1.35	28.5	29.2	7.53	5.02	6452	0
S1.35 - F1.40	30.2	59.4	7.01	6.65	6363	0
S1.40 - F1.45	11.8	71.2	6.96	7.81	6283	0
S1.45 - F1.50	6.8	78.0	6.88	8.75	6214	0
S1.50 - F1.55	4.8	82.8	6.82	9.59	6151	0
S1.55 - F1.60	3.2	86.1	6.77	10.27	6099	0
S1.60 - F1.70	4.6	90.6	6.69	11.51	6005	-
S1.70 - F1.80	2.6	93.2	6.63	12.37	5937	-
S1.80 - F1.90	1.7	94.9	6.59	13.03	5884	-
S1.90 - F2.00	1.1	96.0	6.56	13.54	5843	-
S2.00	4.0	100.0	6.41	15.87	5652	-

CUMULATIVE WEIGHT % SIZE: 1mm x 0.15mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.35	20.5	20.5	6.99	3.15	6569	0.00
S1.35 - F1.40	32.6	53.2	7.09	4.51	6426	0.00
S1.40 - F1.45	10.2	63.3	7.06	5.54	6350	0.00
S1.45 - F1.50	6.5	69.8	7.02	6.41	6287	0.00
S1.50 - F1.55	4.9	74.7	7.00	7.15	6229	0.00
S1.55 - F1.60	3.3	78.0	6.97	7.83	6178	0.00
S1.60 - F1.70	4.4	82.4	6.92	9.09	6082	-
S1.70 - F1.80	3.1	85.6	6.87	10.22	5995	-
S1.80 - F1.90	2.4	87.9	6.83	11.27	5913	-
S1.90 - F2.00	1.9	89.9	6.80	12.22	5838	-
S2.00	10.1	100.0	6.42	18.07	5328	-

FROTH FLOTATION

CUMULATIVE WEIGHT % SIZE 0.15mm x 0.038mm						
TIME	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
15 SEC (P2)	5.2	5.2	6.26	10.76	6106	0.0
30 SEC (P3)	1.5	6.7	6.22	10.81	6098	0.00
60 SEC (P4)	1.1	7.8	6.19	10.99	6080	0.00
90 SEC (P5)	0.7	8.5	6.17	11.07	-	0.00
Tails (T2)	2.8	11.4	6.27	15.58	-	0.00
Tails (T1)	88.6	100.0	7.03	35.35	-	0.00

FINES

CUMULATIVE WEIGHT % SIZE: -0.038mm		
Mois %	Ash %	CV (kcal/kg)
7.76	60.02	1832

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

Brett Warden
 Laboratory Manager

Robb Trend Project

Coal Sample Results – 2012 Core Program

RT-11-612C

Val d'Or Seam

Sample Horizon: 28.9 to 38.45



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Depth: 28.9m to 38.45
Plies: A,B,C,D,E,F,G,H

Raw Analysis

	Wt (g)	Mois%	Ash%	VM%	F.C.%	S%	CV (kcal/kg)	CI %	RD	ARD
Raw Coal	41000	6.83	19.93	31.62	41.62	0.13	5277	0.01	1.48	1.46

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Laboratory Manager



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SIZING AFTER 20 DROPS

Size (mm)	Weight (g)	Weight %
+50	3170	7.7
-50	37830	92.3

We certify the analysis reported hereon was determined in accordance with the modified procedure for Drop Shatter Testing.

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Plies: A,B,C,D,E,F,G,H

DRY SIZING

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	4761	11.6	11.6
-31.5+25	2606	6.4	18.0
-25+16	4497	11.0	28.9
-16+8	6156	15.0	44.0
-8+4	5090	12.4	56.4
-4+2	7135	17.4	73.8
-2	10756	26.2	100.0

ASTM Standard
of Analysis

D4749
(split with RSD)

*All losses allocated to -2mm fraction

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WET SIZING

**ASTM Standard
 of Analysis**

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	1678	5.4	5.4
+25	1459	4.7	10.1
+16	2627	8.5	18.6
+12.5	1457	4.7	23.4
+8	2897	9.4	32.7
+4	4095	13.2	46.0
+2	5296	17.1	63.1
+1	4930	16.0	79.1
+0.5	2722	8.8	87.9
+0.25	1317	4.3	92.1
+0.15	512	1.7	93.8
+0.063	896	2.9	96.7
+0.038	396	1.3	98.0
-0.038	627	2.0	100.0

D4749
 (split with RSD)

***All losses allocated to -0.038mm fraction**

Sample was attrited in maximum 50kg lots with 18 cubes and 150 L of water or equivalent mass for 5 min @ 20 rpm

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ASTM Standard
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FLOAT SINK ANALYSIS

AIR-DRIED BASIS

SIZE: +12.5mm						
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	7	0.1	7.54	2.93	6906	0.0
S1.30 - F1.35	1053	14.6	7.80	5.80	6388	0.0
S1.35 - F1.40	1832	25.4	7.20	8.62	6185	0.0
S1.40 - F1.45	1036	14.4	6.98	14.68	5774	0.0
S1.45 - F1.50	571	7.9	6.53	17.83	5435	0.0
S1.50 - F1.55	637	8.8	6.65	23.55	5038	0.0
S1.55 - F1.60	307	4.3	6.41	29.32	4478	0.0
S1.60 - F1.70	559	7.8	5.79	32.70	4136	*
S1.70 - F1.80	212	2.9	4.94	45.40	3391	*
S1.80 - F1.90	304	4.2	4.77	54.05	2710	*
S1.90 - F2.00	128	1.8	4.44	56.40	2082	*
S2.00	562	7.8	2.05	82.60	513	*

D4371
 D3172
 D4239
 D720

SIZE: -12.5mm x +1.0mm						
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	37	0.9	7.52	2.77	6655	0.0
S1.30 - F1.35	1524	35.4	7.85	4.23	6503	0.0
S1.35 - F1.40	1009	23.4	7.42	8.13	6209	0.0
S1.40 - F1.45	462	10.7	7.06	13.39	5793	0.0
S1.45 - F1.50	248	5.8	6.75	17.22	5490	0.0
S1.50 - F1.55	168	3.9	6.35	22.89	5065	0.0
S1.55 - F1.60	127	2.9	6.14	28.11	4647	0.0
S1.60 - F1.70	171	4.0	5.86	34.37	4134	*
S1.70 - F1.80	126	2.9	5.31	43.76	3334	*
S1.80 - F1.90	67	2.0	4.69	51.23	2538	*
S1.90 - F2.00	69	1.6	4.28	57.91	2195	*
S2.00	281	6.5	3.48	74.49	831	*

SIZE: 1mm x 0.16mm						
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	7	0.7	6.69	5.93	6460	0.0
S1.30 - F1.35	354	31.3	7.95	2.97	6474	0.0
S1.35 - F1.40	229	20.2	7.92	6.21	6211	0.0
S1.40 - F1.45	94	8.3	7.50	11.12	5865	0.0
S1.45 - F1.50	54	4.8	7.20	15.18	5559	0.0
S1.50 - F1.55	32	2.8	7.16	18.38	5289	0.0
S1.55 - F1.60	31	2.7	6.54	23.73	4893	0.0
S1.60 - F1.70	42	3.7	6.62	31.65	4272	*
S1.70 - F1.80	26	2.3	6.35	40.42	3563	*
S1.80 - F1.90	21	1.9	5.48	48.36	2789	*
S1.90 - F2.00	19	1.7	4.73	55.99	2171	*
S2.00	223	19.7	4.42	76.79	504	*

FROTH FLOTATION

SIZE: 0.15mm x 0.038mm						
TIME	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
15 SEC	9	2.3	5.72	11.99	5922	0.0
30 SEC	3	0.8	5.84	15.95	5538	0.0
60 SEC	3	0.7	NSS	19.95	NSS	0.0
90 SEC	2	0.4	NSS	22.50	4831	0.0
Tails (T2)	20	5.3	7.01	29.92	4327	0.0
Tails (T1)	343	90.5	6.88	44.12	3169	0.0

PARAMETERS: 10% PULP DENSITY, COND. TIME 90 SECOND
 0.667 KG/T 10.1 KERO-MIBC, DENVER CELL, 1200 RPM

FINES

SIZE: -0.038mm		
Mois %	Ash %	GCV (kcal/kg)
6.35	61.11	1657

NSS = Not Sufficient Sample

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AIR-DRIED BASIS

CUMULATIVE WEIGHT % SIZE: +12.5mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.30	0.1	0.1	7.54	2.93	6906	0.0
S1.30 - F1.35	14.6	14.7	7.80	5.78	6391	0.0
S1.35 - F1.40	25.4	40.1	7.42	7.58	6261	0.0
S1.40 - F1.45	14.4	54.5	7.30	9.45	6132	0.0
S1.45 - F1.50	7.9	62.4	7.21	10.52	6044	0.0
S1.50 - F1.55	8.8	71.3	7.14	12.13	5919	0.0
S1.55 - F1.60	4.3	75.5	7.10	13.10	5838	0.0
S1.60 - F1.70	7.8	83.3	6.97	14.93	5679	-
S1.70 - F1.80	2.9	86.2	6.90	15.97	5601	-
S1.80 - F1.90	4.2	90.4	6.81	17.74	5466	-
S1.90 - F2.00	1.8	92.2	6.76	18.48	5401	-
S2.00	7.8	100.0	6.39	23.48	5020	-

D4371
 D3172
 D4239
 D720

CUMULATIVE WEIGHT % SIZE: 12.5mm x 1.0mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.30	0.9	0.9	7.52	2.77	6655	0.0
S1.30 - F1.35	35.4	36.2	7.84	4.20	6506	0.0
S1.35 - F1.40	23.4	59.6	7.88	5.74	6389	0.0
S1.40 - F1.45	10.7	70.4	7.58	6.91	6299	0.0
S1.45 - F1.50	5.8	76.1	7.52	7.69	6237	0.0
S1.50 - F1.55	3.9	80.0	7.46	8.43	6180	0.0
S1.55 - F1.60	2.9	83.0	7.42	9.13	6126	0.0
S1.60 - F1.70	4.0	86.9	7.34	10.28	6035	-
S1.70 - F1.80	2.9	89.9	7.28	11.37	5947	-
S1.80 - F1.90	2.0	91.9	7.22	12.25	5872	-
S1.90 - F2.00	1.6	93.5	7.17	13.03	5809	-
S2.00	6.5	100.0	6.93	17.03	5484	-

CUMULATIVE WEIGHT % SIZE: 1mm x 0.15mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.30	0.7	0.7	6.69	5.93	6460	0.0
S1.30 - F1.35	31.3	31.9	7.92	3.03	6474	0.0
S1.35 - F1.40	20.2	52.1	7.92	4.26	6372	0.0
S1.40 - F1.45	8.3	60.4	7.86	5.20	6302	0.0
S1.45 - F1.50	4.8	65.2	7.82	5.94	6248	0.0
S1.50 - F1.55	2.8	68.0	7.79	6.45	6208	0.0
S1.55 - F1.60	2.7	70.7	7.74	7.11	6158	0.0
S1.60 - F1.70	3.7	74.4	7.68	8.35	6063	-
S1.70 - F1.80	2.3	76.7	7.64	9.30	5989	-
S1.80 - F1.90	1.9	78.6	7.59	10.24	5912	-
S1.90 - F2.00	1.7	80.3	7.53	11.19	5834	-
S2.00	19.7	100.0	6.92	24.13	4783	-

FROTH FLOTATION

CUMULATIVE WEIGHT % SIZE 0.15mm x 0.038mm						
TIME	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
15 SEC (P2)	2.3	2.3	5.72	11.99	5922	0.0
30 SEC (P3)	0.8	3.1	5.75	13.01	5823	0.0
60 SEC (P4)	0.7	3.7	-	14.28	-	0.0
90 SEC (P5)	0.4	4.2	-	15.12	-	0.0
Tails (T2)	5.3	9.5	-	23.39	-	0.0
Tails (T1)	90.5	100.0	-	42.16	-	0.0

FINES

CUMULATIVE WEIGHT % SIZE: -0.038mm		
Mois %	Ash %	CV (kcal/kg)
6.35	61.11	1657

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

Brett Warden
 Laboratory Manager

Robb Trend Project

Coal Sample Results – 2012 Core Program

RT-11-672C

Val d'Or Seam

Sample Horizon: 18.6 to 31.05



CERTIFICATE OF ANALYSIS

Preliminary Report
Final Report

31-Jul-12

Coal Valley Resources Inc.
1600 Oxford Tower
10235-101 Street
Edmonton, AB
T5J 3G1, Canada

WORKORDER: RC12020426

Hole: RT-11-672C
Seam: Val D'or
Diameter: 63.5mm
Depth: 18.6m to 31.05m
Plies: A,B,C,D,E,F,G,H

Raw Analysis

	Wt (g)	Mois%	Ash%	VM%	F.C.%	S%	CV (kcal/kg)	Cl %	RD	ARD
Raw Coal	52400	6.61	20.70	30.39	42.30	0.19	5294	0.01	1.52	1.47

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

Brett Warden
Laboratory Manager



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WORKORDER: RC12020426

Hole: RT-11-672C
Seam: Val D'or
Diameter: 63.5mm
Depth: 18.6m to 31.05m
Plies: A,B,C,D,E,F,G,H

SIZING AFTER 20 DROPS

Size (mm)	Weight (g)	Weight %
+50	4231	8.1
-50	48169	91.9

We certify the analysis reported hereon was determined in accordance with the modified procedure for Drop Shatter Testing.

<original signed by>

Brett Warden
Laboratory Manager



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WORKORDER: RC12020426

Hole: RT-11-672C
Seam: Val D'or
Diameter: 63.5mm
Depth: 18.6m to 31.05m
Plies: A,B,C,D,E,F,G,H

DRY SIZING

ASTM Standard
of Analysis

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	3883	7.4	7.4
-31.5+25	2545	4.9	12.3
-25+16	5561	10.6	22.9
-16+8	7633	14.6	37.4
-8+4	7176	13.7	51.1
-4+2	11917	22.7	73.9
-2	13684	26.1	100.0

D4749
(split with RSD)

***All losses allocated to -2mm fraction**

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

Brett Warden
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WORKORDER: RC12020426
 Hole: RT-11-672C
 Seam: Val D'or
 Diameter: 63.5mm
 Depth: 18.6m to 31.05m
 Plies: A,B,C,D,E,F,G,H

WET SIZING

ASTM Standard
 of Analysis

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	894	2.3	2.3
+25	1091	2.8	5.1
+16	2462	6.3	11.4
+12.5	1554	4.0	15.3
+8	3495	8.9	24.3
+4	6078	15.5	39.8
+2	9012	23.0	62.8
+1	6941	17.7	80.5
+0.5	3314	8.5	89.0
+0.25	1416	3.6	92.6
+0.15	624	1.6	94.2
+0.063	866	2.2	96.4
+0.038	565	1.4	97.9
-0.038	838	2.1	100.0

D4749
 (split with RSD)

*All losses allocated to -0.038mm fraction

Sample was attrited in maximum 50kg lots with 18 cubes and 150 L of water or equivalent mass for 5 min @ 20 rpm

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

Brett Warden
 Laboratory Manager



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Hole: RT-11-672C
 Seam: Val D'or
 Diameter: 63.5mm
 Depth: 18.6m to 31.05m
 Plies: A,B,C,D,E,F,G,H

ANALYSIS

ASTM Standard
 of Analysis

FLOAT SINK ANALYSIS

AIR-DRIED BASIS

SIZE: +12.5mm						
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.35	679	11.4	7.30	6.09	6479	0.0
S1.35 - F1.40	1268	21.2	7.08	9.75	6183	0.0
S1.40 - F1.45	972	16.3	6.65	14.92	5786	0.0
S1.45 - F1.50	808	13.5	6.58	19.08	5442	0.0
S1.50 - F1.55	444	7.4	6.18	22.99	5079	0.0
S1.55 - F1.60	264	4.4	5.71	29.50	4671	0.0
S1.60 - F1.70	582	9.7	5.28	34.82	4129	*
S1.70 - F1.80	270	4.5	4.36	42.14	3501	*
S1.80 - F1.90	316	5.3	3.81	51.56	2882	*
S1.90 - F2.00	159	2.7	3.54	54.11	2445	*
S2.00	218	3.6	2.58	78.10	984	*

D4371
 D3172
 D4239
 D720

SIZE: -12.5mm x +1.0mm						
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	36	0.6	7.76	3.58	6565	0.0
S1.30 - F1.35	1878	29.7	7.75	4.05	6498	0.0
S1.35 - F1.40	1505	23.8	7.47	8.55	6226	0.0
S1.40 - F1.45	805	12.7	6.92	14.17	5829	0.0
S1.45 - F1.50	466	7.4	6.93	18.63	5445	0.0
S1.50 - F1.55	335	5.3	6.42	22.61	5156	0.0
S1.55 - F1.60	235	3.7	6.18	27.31	4781	0.0
S1.60 - F1.70	315	5.0	5.73	34.09	4251	*
S1.70 - F1.80	199	3.1	5.07	43.81	3503	*
S1.80 - F1.90	138	2.2	4.67	51.22	2897	*
S1.90 - F2.00	98	1.6	4.54	58.91	2235	*
S2.00	321	5.1	3.27	73.97	950	*

SIZE: 1mm x 0.15mm						
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.35	387	28.8	6.59	3.19	6579	0.0
S1.35 - F1.40	292	21.7	6.78	6.28	6278	0.0
S1.40 - F1.45	134	10.0	6.38	11.44	5917	0.0
S1.45 - F1.50	87	6.4	6.30	14.94	5648	0.0
S1.50 - F1.55	80	6.0	6.47	17.17	5416	0.0
S1.55 - F1.60	58	4.3	6.19	22.63	5043	0.0
S1.60 - F1.70	72	5.4	6.19	31.03	4360	*
S1.70 - F1.80	44	3.3	5.33	40.17	3651	*
S1.80 - F1.90	31	2.3	5.33	48.73	2971	*
S1.90 - F2.00	24	1.8	4.75	56.69	2357	*
S2.00	135	10.0	2.86	71.94	764	*

FROTH FLOTATION

SIZE: 0.15mm x 0.038mm						
TIME	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
15 SEC	5	1.3	4.91	11.65	5999	0.0
30 SEC	2	0.5	5.05	12.62	NSS	0.0
60 SEC	2	0.4	5.11	13.93	NSS	0.0
90 SEC	1	0.3	5.22	15.89	NSS	0.0
Tails (T2)	12	3.2	6.01	36.48	3869	0.0
Tails (T1)	350	94.2	6.43	54.31	2364	0.0
PARAMETERS:	10% PULP DENSITY, COND. TIME 90 SECOND 0.667 KG/T 10:1 KERO:MIBC, DENVER CELL, 1200 RPM					

FINES

SIZE: -0.038mm		
Mois %	Ash %	GCV (kcal/kg)
6.05	70.60	1091

NSS = Not Sufficient Sample

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

Brett Warden
 Laboratory Manager



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 Final Report

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WORKORDER: RC12020426

Hole: RT-11-672C
 Seam: Val D'or
 Diameter: 63.5mm
 Depth: 18.6m to 31.05m
 Plies: A,B,C,D,E,F,G,H

ANALYSIS

ASTM Standard
 of Analysis

FLOAT SINK ANALYSIS

AIR-DRIED BASIS

CUMULATIVE WEIGHT % SIZE: +12.5mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.35	11.4	11.4	7.30	6.09	6479	0.0
S1.35 - F1.40	21.2	32.6	7.16	8.47	6286	0.0
S1.40 - F1.45	16.3	48.8	6.99	10.62	6119	0.0
S1.45 - F1.50	13.5	62.3	6.90	12.45	5973	0.0
S1.50 - F1.55	7.4	69.8	6.82	13.58	5878	0.0
S1.55 - F1.60	4.4	74.2	6.76	14.52	5806	0.0
S1.60 - F1.70	9.7	83.9	6.59	16.88	5611	-
S1.70 - F1.80	4.5	88.4	6.47	18.17	5504	-
S1.80 - F1.90	5.3	93.7	6.32	20.05	5356	-
S1.90 - F2.00	2.7	96.4	6.25	20.99	5276	-
S2.00	3.6	100.0	6.11	23.07	5119	-

D4371
 D3172
 D4239
 D720

CUMULATIVE WEIGHT % SIZE: 12.5mm x 1.0mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.30	0.6	0.6	7.76	3.58	6565	0.0
S1.30 - F1.35	29.7	30.2	7.75	4.04	6499	0.0
S1.35 - F1.40	23.8	54.0	7.63	6.03	6379	0.0
S1.40 - F1.45	12.7	66.7	7.49	7.58	6274	0.0
S1.45 - F1.50	7.4	74.1	7.44	8.68	6191	0.0
S1.50 - F1.55	5.3	79.4	7.37	9.61	6122	0.0
S1.55 - F1.60	3.7	83.1	7.32	10.40	6062	0.0
S1.60 - F1.70	5.0	88.1	7.23	11.74	5960	-
S1.70 - F1.80	3.1	91.2	7.15	12.84	5875	-
S1.80 - F1.90	2.2	93.4	7.09	13.74	5806	-
S1.90 - F2.00	1.6	94.9	7.05	14.48	5747	-
S2.00	5.1	100.0	6.86	17.49	5504	-

CUMULATIVE WEIGHT % SIZE: 1mm x 0.15mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.35	28.8	28.8	6.59	3.19	6579	0.0
S1.35 - F1.40	21.7	50.5	6.67	4.52	6450	0.0
S1.40 - F1.45	10.0	60.5	6.62	5.66	6362	0.0
S1.45 - F1.50	6.4	66.9	6.59	6.55	6293	0.0
S1.50 - F1.55	6.0	72.9	6.58	7.42	6221	0.0
S1.55 - F1.60	4.3	77.2	6.56	8.27	6156	0.0
S1.60 - F1.70	5.4	82.5	6.54	9.75	6039	-
S1.70 - F1.80	3.3	85.8	6.49	10.92	5947	-
S1.80 - F1.90	2.3	88.2	6.46	11.92	5868	-
S1.90 - F2.00	1.8	90.0	6.43	12.81	5798	-
S2.00	10.0	100.0	6.07	18.75	5293	-

FROTH FLOTATION

CUMULATIVE WEIGHT % SIZE 0.15mm x 0.038mm						
TIME	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
15 SEC (P2)	1.3	1.3	4.91	11.65	5999	0.0
30 SEC (P3)	0.5	1.8	4.95	11.91	-	0.0
60 SEC (P4)	0.4	2.3	4.98	12.29	-	0.0
90 SEC (P5)	0.3	2.6	5.01	12.74	-	0.0
Tails (T2)	3.2	5.8	5.56	25.93	-	0.0
Tails (T1)	94.2	100.0	6.38	52.66	-	0.0

FINES

CUMULATIVE WEIGHT % SIZE: -0.038mm		
Mois %	Ash %	CV (kcal/kg)
6.05	70.60	1091

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

Brett Warden
 Laboratory Manager

Robb Trend Project

Coal Sample Results – 2012 Core Program

RT-11-719C

Val d'Or Seam

Sample Horizon: 34.1 to 46.0



CERTIFICATE OF ANALYSIS

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Final Report

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WORKORDER: RC12020420

Hole: RT-11-719C
Seam: Val D'or
Diameter: 63.5mm
Depth: 34.1m to 46.0m
Plies: A,B,C,D,E,F,G,H

Raw Analysis

	Wt (g)	Mois%	Ash%	VM%	F.C.%	S%	CV (kcal/kg)	Cl %	RD	ARD
Raw Coal	38600	6.78	19.64	31.99	41.59	0.23	5380	0.01	1.56	1.44

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<original signed by>

Brett Warden
Laboratory Manager



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Diameter: 63.5mm
Depth: 34.1m to 46.0m
Plies: A,B,C,D,E,F,G,H

SIZING AFTER 20 DROPS

Size (mm)	Weight (g)	Weight %
+50	2900	7.5
-50	35700	92.5

We certify the analysis reported hereon was determined in accordance with the modified procedure for Drop Shatter Testing.

<original signed by>

Brett Warden
Laboratory Manager



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Diameter: 63.5mm
Depth: 34.1m to 46.0m
Plies: A,B,C,D,E,F,G,H

DRY SIZING

ASTM Standard
of Analysis

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	5075	13.1	13.1
-31.5+25	1593	4.1	17.3
-25+16	4626	12.0	29.3
-16+8	5928	15.4	44.6
-8+4	5176	13.4	58.0
-4+2	7500	19.4	77.5
-2	8702	22.5	100.0

D4749
(split with RSD)

*All losses allocated to -2mm fraction

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

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 Seam: Val D'or
 Diameter: 63.5mm
 Depth: 34.1m to 46.0m
 Plies: A,B,C,D,E,F,G,H

WET SIZING

ASTM Standard
 of Analysis

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	1324	4.6	4.6
+25	889	3.1	7.6
+16	2310	8.0	15.6
+12.5	1586	5.5	21.1
+8	3527	12.2	33.3
+4	4656	16.1	49.4
+2	6077	21.0	70.4
+1	3997	13.8	84.2
+0.5	1859	6.4	90.6
+0.25	1178	4.1	94.7
+0.15	441	1.5	96.2
+0.063	420	1.5	97.6
+0.038	195	0.7	98.3
-0.038	490	1.7	100.0

D4749
 (split with RSD)

*All losses allocated to -0.038mm fraction

Sample was attrited in maximum 50kg lots with 18 cubes and 150 L of water or equivalent mass for 5 min @ 20 rpm

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

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 Laboratory Manager



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 Seam: Val D'or
 Diameter: 63.5mm
 Depth: 34.1m to 46.0m
 Plies: A,B,C,D,E,F,G,H

ANALYSIS

ASTM Standard
 of Analysis

FLOAT SINK ANALYSIS

AIR-DRIED BASIS

SIZE: +12.5mm						
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.35	657	10.7	7.30	5.43	6498	0.0
S1.35 - F1.40	1783	29.0	7.12	9.16	6214	0.0
S1.40 - F1.45	1051	17.1	6.59	13.86	5891	0.0
S1.45 - F1.50	751	12.2	5.70	17.80	5500	0.0
S1.50 - F1.55	416	6.8	5.37	26.74	4974	0.0
S1.55 - F1.60	429	7.0	5.21	29.11	4652	0.0
S1.60 - F1.70	383	6.2	4.73	36.68	4107	*
S1.70 - F1.80	228	3.7	4.14	48.99	3393	*
S1.80 - F1.90	310	5.1	3.75	50.04	3014	*
S1.90 - F2.00	83	1.3	3.47	50.36	2285	*
S2.00	48	0.8	2.44	72.69	1433	*

D4371
 D3172
 D4239
 D720

SIZE: -12.5mm x +1.0mm						
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	38	0.6	7.86	2.95	6689	0.0
S1.30 - F1.35	2312	34.1	8.11	4.19	6491	0.0
S1.35 - F1.40	1917	28.3	7.59	8.20	6235	0.0
S1.40 - F1.45	721	10.6	7.35	13.75	5829	0.0
S1.45 - F1.50	422	6.2	7.13	18.01	5483	0.0
S1.50 - F1.55	262	3.9	6.99	22.87	5113	0.0
S1.55 - F1.60	170	2.5	6.64	27.49	4764	0.0
S1.60 - F1.70	271	4.0	6.23	33.80	4210	*
S1.70 - F1.80	143	2.1	5.51	43.12	3561	*
S1.80 - F1.90	95	1.4	4.76	50.68	2897	*
S1.90 - F2.00	100	1.5	4.55	60.66	2132	*
S2.00	322	4.8	3.58	73.12	915	*

SIZE: 1mm x 0.15mm						
S.G.	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.35	330	25.9	7.73	2.99	6620	0.0
S1.35 - F1.40	345	27.1	7.56	5.27	6409	0.0
S1.40 - F1.45	116	9.1	6.74	10.59	6049	0.0
S1.45 - F1.50	63	5.0	6.68	14.27	5760	0.0
S1.50 - F1.55	61	4.8	6.82	15.95	5569	0.0
S1.55 - F1.60	42	3.3	6.55	20.64	5211	0.0
S1.60 - F1.70	48	3.8	5.96	30.14	4492	*
S1.70 - F1.80	34	2.6	5.45	40.28	3692	*
S1.80 - F1.90	22	1.8	5.27	47.98	3047	*
S1.90 - F2.00	21	1.6	4.97	56.05	2409	*
S2.00	191	15.0	3.61	72.89	747	*

FROTH FLOTATION

SIZE: 0.15mm x 0.038mm						
TIME	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
15 SEC	52	14.8	6.93	10.52	6054	0.0
30 SEC	24	6.8	6.99	10.95	6006	0.0
60 SEC	19	5.3	6.58	11.71	5927	0.0
90 SEC	8	2.3	6.60	12.19	5882	0.0
Tails (T2)	20	5.7	6.34	30.31	4318	0.0
Tails (T1)	228	65.1	6.53	43.35	3169	0.0
PARAMETERS:	10% PULP DENSITY, COND. TIME 90 SECOND 0.667 KG/T 10:1 KERO:MIBC, DENVER CELL, 1200 RPM					

FINES

SIZE: -0.038mm		
Mois %	Ash %	GCV (kcal/kg)
7.23	62.64	1636

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

Brett Warden
 Laboratory Manager



CERTIFICATE OF ANALYSIS

Preliminary Report
 Final Report

30-Jul-12

Coal Valley Resources Inc.
 1600 Oxford Tower
 10235-101 Street
 Edmonton, AB
 T5J 3G1, Canada

WORKORDER: RC12020420

Hole: RT-11-719C
 Seam: Val D'or
 Diameter: 63.5mm
 Depth: 34.1m to 46.0m
 Plies: A,B,C,D,E,F,G,H

ANALYSIS

ASTM Standard
 of Analysis

FLOAT SINK ANALYSIS

AIR-DRIED BASIS

CUMULATIVE WEIGHT % SIZE: +12.5mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.35	10.7	10.7	7.30	5.43	6498	0.0
S1.35 - F1.40	29.0	39.8	7.17	8.16	6290	0.0
S1.40 - F1.45	17.1	56.9	6.99	9.87	6170	0.0
S1.45 - F1.50	12.2	69.1	6.77	11.28	6051	0.0
S1.50 - F1.55	6.8	75.9	6.64	12.66	5955	0.0
S1.55 - F1.60	7.0	82.9	6.52	14.04	5845	0.0
S1.60 - F1.70	6.2	89.1	6.39	15.63	5723	-
S1.70 - F1.80	3.7	92.8	6.30	16.97	5630	-
S1.80 - F1.90	5.1	97.9	6.17	18.67	5495	-
S1.90 - F2.00	1.3	99.2	6.14	19.10	5452	-
S2.00	0.8	100.0	6.11	19.52	5420	-

D4371
 D3172
 D4239
 D720

CUMULATIVE WEIGHT % SIZE: 12.5mm x 1.0mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.30	0.6	0.6	7.86	2.95	6689	0.0
S1.30 - F1.35	34.1	34.7	8.11	4.17	6494	0
S1.35 - F1.40	28.3	63.0	7.87	5.98	6378	0
S1.40 - F1.45	10.6	73.6	7.80	7.10	6298	0
S1.45 - F1.50	6.2	79.9	7.75	7.95	6235	0
S1.50 - F1.55	3.9	83.7	7.71	8.64	6183	0
S1.55 - F1.60	2.5	86.2	7.68	9.19	6142	0
S1.60 - F1.70	4.0	90.2	7.62	10.28	6056	-
S1.70 - F1.80	2.1	92.4	7.57	11.03	5999	-
S1.80 - F1.90	1.4	93.8	7.53	11.62	5953	-
S1.90 - F2.00	1.5	95.2	7.48	12.39	5893	-
S2.00	4.8	100.0	7.29	15.28	5656	-

CUMULATIVE WEIGHT % SIZE: 1mm x 0.15mm						
S.G.	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
F1.35	25.9	25.9	7.73	2.99	6620	0.00
S1.35 - F1.40	27.1	53.1	7.64	4.16	6512	0.00
S1.40 - F1.45	9.1	62.1	7.51	5.10	6444	0.00
S1.45 - F1.50	5.0	67.1	7.45	5.78	6394	0.00
S1.50 - F1.55	4.8	71.9	7.41	6.45	6339	0.00
S1.55 - F1.60	3.3	75.2	7.37	7.07	6290	0.00
S1.60 - F1.70	3.8	79.0	7.30	8.18	6203	-
S1.70 - F1.80	2.6	81.6	7.24	9.22	6122	-
S1.80 - F1.90	1.8	83.4	7.20	10.03	6057	-
S1.90 - F2.00	1.6	85.0	7.16	10.93	5986	-
S2.00	15.0	100.0	6.63	20.22	5201	-

FROTH FLOTATION

CUMULATIVE WEIGHT % SIZE 0.15mm x 0.038mm						
TIME	WT%	CUM WT%	Mois %	Ash %	CV (kcal/kg)	FSI
15 SEC (P2)	14.8	14.8	6.93	10.52	6054	0.0
30 SEC (P3)	6.8	21.6	6.95	10.66	6039	0.00
60 SEC (P4)	5.3	26.9	6.88	10.86	6017	0.00
90 SEC (P5)	2.3	29.2	6.85	10.97	6006	0.00
Tails (T2)	5.7	34.9	6.77	14.13	5730	0.00
Tails (T1)	65.1	100.0	6.61	33.15	4062	0.00

FINES

CUMULATIVE WEIGHT % SIZE: -0.038mm		
Mois %	Ash %	CV (kcal/kg)
7.23	62.64	1636

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

Brett Warden
 Laboratory Manager

Robb Trend Project

Coal Sample Results – 2012 Core Program

Arbour Seam

Robb Trend Project

Coal Sample Results – 2012 Core Program

RT-11-339C

Arbour Seam

Sample Horizon: 48.2 to 55.9



CERTIFICATE OF ANALYSIS

Preliminary Report 31-Jul-12
Final Report

Coal Valley Resources Inc.
1600 Oxford Tower
10235-101 Street
Edmonton, AB
T5J 3G1, Canada

WORKORDER: RC12020553

Hole: RT-11-339C
Seam: Arbour
Diameter: 63.5mm
Depth: 48.2m to 55.9m
Plies: A,B,D1,D2

Raw Analysis

	Wt (g)	Mois%	Ash%	VM%	F.C.%	S%	CV (kcal/kg)	Cl %	RD	ARD
Raw Coal	22850	5.88	30.22	28.36	35.54	0.18	4509	0.01	1.63	1.54

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

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Brett Warden
Laboratory Manager



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Final Report

31-Jul-12

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Edmonton, AB
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WORKORDER: RC12020553

Hole: RT-11-339C
Seam: Arbour
Diameter: 63.5mm
Depth: 48.2m to 55.9m
Plies: A,B,D1,D2

SIZING AFTER 20 DROPS

Size (mm)	Weight (g)	Weight %
+50	844	3.7
-50	22006	96.3

We certify the analysis reported hereon was determined in accordance with the modified procedure for Drop Shatter Testing.

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Brett Warden
Laboratory Manager



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31-Jul-12

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Edmonton, AB
T5J 3G1, Canada

WORKORDER: RC12020553
Hole: RT-11-339C
Seam: Arbour
Diameter: 63.5mm
Depth: 48.2m to 55.9m
Plies: A,B,D1,D2

DRY SIZING

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	2029	8.9	8.9
-31.5+25	1487	6.5	15.4
-25+16	1933	8.5	23.8
-16+8	3161	13.8	37.7
-8+4	3271	14.3	52.0
-4+2	3440	15.1	67.0
-2	7530	33.0	100.0

ASTM Standard
of Analysis

D4749
(split with RSD)

***All losses allocated to -2mm fraction**

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

Brett Warden
Laboratory Manager



CERTIFICATE OF ANALYSIS

Preliminary Report
 Final Report

31-Jul-12

Coal Valley Resources Inc.
 1600 Oxford Tower
 10235-101 Street
 Edmonton, AB
 T5J 3G1, Canada

WORKORDER: RC12020553
 Hole: RT-11-339C
 Seam: Arbour
 Diameter: 63.5mm
 Depth: 48.2m to 55.9m
 Plies: A,B,D1,D2

WET SIZING

ASTM Standard
 of Analysis

Size (mm)	Weight (g)	Weight %	Cum.Weight %
+31.5	322	1.9	1.9
+25	429	2.5	4.4
+16	1070	6.2	10.6
+12.5	603	3.5	14.1
+8	1564	9.1	23.2
+4	2606	15.2	38.4
+2	3007	17.5	55.9
+1	2727	15.9	71.7
+0.5	1812	10.5	82.3
+0.25	930	5.4	87.7
+0.15	373	2.2	89.9
+0.063	665	3.9	93.7
+0.038	360	2.1	95.8
-0.038	718	4.2	100.0

D4749
 (split with RSD)

*All losses allocated to -0.038mm fraction

Sample was attrited in maximum 50kg lots with 18 cubes and 150 L of water or equivalent mass for 5 min @ 20 rpm

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

Brett Warden
 Laboratory Manager



CERTIFICATE OF ANALYSIS

Preliminary Report
 Final Report

31-Jul-12

Coal Valley Resources Inc.
 1600 Oxford Tower
 10235-101 Street
 Edmonton, AB
 T5J 3G1, Canada

WORKORDER: RC12020553

Hole: RT-11-339C
 Seam: Arbour
 Diameter: 63.5mm
 Depth: 48.2m to 55.9m
 Plies: A,B,D1,D2

ANALYSIS

ASTM Standard
 of Analysis

FLOAT SINK ANALYSIS

AIR-DRIED BASIS

SIZE: +12.5mm						
S.G	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.35	152	6.3	7.29	5.84	6503	0.0
S1.35 - F1.40	254	10.5	7.10	9.63	6209	0.0
S1.40 - F1.45	175	7.2	6.66	16.23	5750	0.0
S1.45 - F1.50	167	6.9	6.46	21.42	5306	0.0
S1.50 - F1.55	158	6.6	6.04	28.24	4860	0.0
S1.55 - F1.60	182	7.5	6.08	31.60	4535	0.0
S1.60 - F1.70	322	13.3	4.94	36.66	4014	*
S1.70 - F1.80	237	9.8	4.81	48.74	3209	*
S1.80 - F1.90	228	9.5	4.29	54.93	2464	*
S1.90 - F2.00	173	7.2	3.66	67.38	1910	*
S2.00	366	15.1	4.82	79.22	681	*

D4371
 D3172
 D4239
 D720

SIZE: -12.5mm x +1.0mm						
S.G	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.30	9	0.2	7.19	3.58	6849	0.0
S1.30 - F1.35	905	24.3	7.81	3.32	6581	0.0
S1.35 - F1.40	791	21.2	7.15	8.43	6252	0.0
S1.40 - F1.45	376	10.1	6.64	14.37	5831	0.0
S1.45 - F1.50	288	7.7	6.41	19.00	5488	0.0
S1.50 - F1.55	209	5.6	6.16	24.32	5072	0.0
S1.55 - F1.60	128	3.4	5.98	30.18	4614	0.0
S1.60 - F1.70	235	6.3	5.75	37.88	4026	*
S1.70 - F1.80	163	4.4	5.25	47.37	3284	*
S1.80 - F1.90	143	3.8	4.54	55.97	2555	*
S1.90 - F2.00	146	3.9	4.25	64.89	1839	*
S2.00	332	8.9	3.11	72.62	1024	*

SIZE: 1mm x 0.15mm						
S.G	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
F1.35	297	25.3	7.49	2.55	6591	0.0
S1.35 - F1.40	259	22.1	7.06	5.75	6374	0.0
S1.40 - F1.45	92	7.9	6.63	11.69	5958	0.0
S1.45 - F1.50	60	5.1	6.46	15.32	5683	0.0
S1.50 - F1.55	57	4.9	6.44	18.27	5416	0.0
S1.55 - F1.60	38	3.3	6.38	23.47	5020	0.0
S1.60 - F1.70	52	4.4	6.25	31.90	4322	*
S1.70 - F1.80	39	3.3	5.69	41.82	3575	*
S1.80 - F1.90	30	2.5	5.58	50.45	2897	*
S1.90 - F2.00	33	2.8	5.33	58.19	2290	*
S2.00	216	18.4	3.37	74.10	599	*

FROTH FLOTATION

SIZE: 0.15mm x 0.038mm						
TIME	WT(g)	WT%	Mois %	Ash %	GCV (kcal/kg)	FSI
15 SEC	5	1.3	5.29	11.84	6311	0.0
30 SEC	2	0.5	NSS	12.93	NSS	0.0
60 SEC	1	0.3	NSS	13.47	NSS	0.0
90 SEC	1	0.2	NSS	14.45	NSS	0.0
Tails (T2)	10	2.8	6.13	52.64	2586	0.0
Tails (T1)	335	94.8	6.30	65.89	1306	0.0
PARAMETERS: 10% PULP DENSITY, COND. TIME 90 SECOND 0.667 KG/T 10:1 KERO.MIBC, DENVER CELL, 1200 RPM						

FINES

SIZE: -0.038mm		
Mois %	Ash %	GCV (kcal/kg)
5.16	77.13	833

NSS = Not Sufficient Sample

We certify the analysis reported hereon was determined in accordance with the applicable ASTM Standard Methods of analysis of Coal.

<original signed by>

Brett Warden
 Laboratory Manager