




CRL Energy Ltd

Report of Analysis**Client:** Scientific Research Organisation of Samoa**Samples received:** 24 April 2018**Description:** Single Biomass Sample received from client

CRL Ref:				112/077		
Client Ref:				Elephant Grass		
Analysis - As Received basis						
Total Moisture	Loss on drying @105°C	%		80.5		
Ash	ASTM -D1102	%		1.3		
Volatiles	ISO 562	%		14.6		
Fixed Carbon	(by difference)	%		3.6		
Gross Calorific Value	ISO 1928	MJ/kg		3.58		
Net Calorific Value	ISO 1928	MJ/kg		1.38		
Sulphur	ASTM D4239	%		0.02		
Carbon	ASTM D5373	%		9.0		
Hydrogen	ASTM D5373	%		1.12		
Nitrogen	ASTM D5373	%		0.09		
Oxygen	(by difference)	%		8.0		
Analysis - after 7 days drying @30°C						
Moisture	After 7 days @ 30°C	%		10.5		
Ash	ASTM -D1102	%		5.7		
Volatiles	ISO 562	%		67.1		
Fixed Carbon	(by difference)	%		16.70		
Gross Calorific Value	ISO 1928	MJ/kg		16.41		
Net Calorific Value	ISO 1928	MJ/kg		15.04		
Sulphur	ASTM D4239	%		0.10		
Carbon	ASTM D5373	%		41.5		
Hydrogen	ASTM D5373	%		5.16		
Nitrogen	ASTM D5373	%		0.42		
Oxygen	(by difference)	%		36.7		

Note: All moisture results are expressed on the wet weight of sample basis

Date of Issue: 4 May 2018


 Signature
 Grant Murray
 Laboratory Manager
 Solid Fuels

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Warning: This report represents results based upon the sample as provided by the client. The findings constitute no warranty of the samples representativeness of any goods and strictly relate to the sample.
