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SGS Kenya Limited Laboratory Services

SGS Kenya Ltd. SGS House Ali Punjani Street P.O. Box 90264 80100 Mombasa Kenya

Date: 30/01/2015

KURRENT TECHNOLOGIES LIMITED P.O.BOX 16989 - 00620 NAIROBI Nairobi Kenya

PRODUCT DESCRIPTION:	SOIL
SAMPLED BY:	SGS
DATE SAMPLED:	14/01/2015
SAMPLE RECEIVED:	21/01/2015
ANALYSIS STARTED:	21/01/2015
MARKS:	LAMU COAL POWER PROJECT
	SAMPLE CONDITION: DELIVERED IN A POLYTHENE PACK
	SOIL SAMPLE .
	SITE AREA: KWASASI-NEAR BEACON 1

TESTS	METHOD	RESULT	UNITS	
Total Cyanide	ICARDA	<0.01	mg/kg	
ТРН С6-С44	SGS TW 56	0.91	mg/kg	
TPH C10 - C16	SGS TW 56	17.18	mg/kg	
TPH C16 - C22	SGS TW 56	0.02	mg/kg	
pH	ICARDA	7.46		
Arsenic as As	EPA 3050 B	<0.02	mg/kg	
Cadmium as Cd	EPA 3050 B	1.83	mg/kg	
Chromium as Cr	EPA 3050 B	3.35	mg/kg	
Copper as Cu	EPA 3050 B	3.70	mg/kg	
Iron as Fe	EPA 3050 B	982.90	mg/kg	
Nickel as Ni	EPA 3050 B	<0.02	mg/kg	
Lead as Pb	EPA 3050 B	4.21	mg/kg	
Selenium as Se	EPA 3050 B	<0.01	mg/kg	
Zinc as Zn	EPA 3050 B	14.91	mg/kg	
Mercury as Hg	D/ SGS TW 12	<0.005	mg/kg	
Total Phenol	ICARDA	<0.001	mg/kg	

Authorised Signatory		Technical Signatory	Technical Signatory
Ethi	74	Danit	Cpatt
Walter Ogara - Mu	ti-Lab Manager	DAVID OMONDI-LAB ANALYST	George Nduko-Chemist
		Page 1 of 8	
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ANALYSIS STARTED:	21/01/2015
MARKS:	LAMU COAL POWER PROJECT
	SAMPLE CONDITION: DELIVERED IN A POLYTHENE PACK
	SOIL SAMPLE
	SITE AREA: KWASASI-NEAR BEACON 2

TESTS	METHOD	RESULT	UNITS	
Total Cyanide	ICARDA	<0.01	mg/kg	
ТРН С6-С44	SGS TW 56	5.72	mg/kg	
TPH C10 - C16	SGS TW 56	12.13	mg/kg	
TPH C16 - C22	SGS TW 56	0.40	mg/kg	
рН	ICARDA	7.44		
Arsenic as As	EPA 3050 B	<0.02	mg/kg	
Cadmium as Cd	EPA 3050 B	2.39	mg/kg	
Chromium as Cr	EPA 3050 B	4.41	mg/kg	
Copper as Cu	EPA 3050 B	2.26	mg/kg	
Iron as Fe	EPA 3050 B	1219.00	mg/kg	
Nickel as Ni	EPA 3050 B	0.60	mg/kg	
Lead as Pb	EPA 3050 B	5.07	mg/kg	
Selenium as Se	EPA 3050 B	<0.01	mg/kg	
Zinc as Zn	EPA 3050 B	7.80	mg/kg	
Mercury as Hg	D/ SGS TW 12	<0.005	mg/kg	
Total Phenol	ICARDA	<0.001	mg/kg	

	Technical Signatory	Technical Signatory
Ethothy	Dungt	Cpett
Walter Ogara - Multi-Lab Manager	DAVID OMONDI-LAB ANALYST	George Nduko-Chemist
2015 0946 0000045579	Page 2 of 8	
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MARKS:	LAMU COAL POWER PROJECT
	SAMPLE CONDITION: DELIVERED IN A POLYTHENE PACK
	SOIL SAMPLE
	SITE AREA: KWASASI-NEAR BEACON 4

TESTS	METHOD	RESULT	UNITS	
Total Cyanide	ICARDA	<0.01	mg/kg	
ТРН С6-С44	SGS TW 56	8.33	mg/kg	
TPH C10 - C16	SGS TW 56	11.20	mg/kg	
TPH C16 - C22	SGS TW 56	0.95	mg/kg	
pH	ICARDA	7.54		
Arsenic as As	EPA 3050 B	<0.02	mg/kg	
Cadmium as Cd	EPA 3050 B	1.32	mg/kg	
Chromium as Cr	EPA 3050 B	6.15	mg/kg	
Copper as Cu	EPA 3050 B	4.03	mg/kg	
Iron as Fe	EPA 3050 B	1856.93	mg/kg	
Nickel as Ni	EPA 3050 B	2.41	mg/kg	
Lead as Pb	EPA 3050 B	7.95	mg/kg	
Selenium as Se	EPA 3050 B	<0.01	mg/kg	
Zinc as Zn	EPA 3050 B	9.85	mg/kg	
Mercury as Hg	D/ SGS TW 12	<0.005	mg/kg	
Total Phenol	ICARDA	<0.001	mg/kg	

Authorised Signatory		Technical Signatory	Technical Signatory
Etho	L.	Dunit	Cpett
Walter Ogara - Multi-	Lab Manager	DAVID OMONDI-LAB ANALYST	George Nduko-Chemist
		D 0 (0	
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Date: 30/01/2015

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PRODUCT DESCRIPTION:	SEDIMENTS
SAMPLED BY:	SGS
DATE SAMPLED:	10/01/2015
SAMPLE RECEIVED:	21/01/2015
ANALYSIS STARTED:	21/01/2015
MARKS:	LAMU COAL POWER PROJECT SAMPLE CONDITION: DELIVERED IN A TEFLON TUBE SEDIMENTS SITE No. 1 SITE NAME:NDUNUNI BAY

TESTS	METHOD	RESULT	UNITS	
Total Cyanide	ICARDA	<0.01	mg/kg	
TPH C6-C44	SGS TW 56	4.64	mg/kg	
ТРН С10 - С16	SGS TW 56	8.11	mg/kg	
TPH C16 - C22	SGS TW 56	<0.01	mg/kg	
pH	ICARDA	7.94		
Arsenic as As	EPA 3050 B	<0.02	mg/kg	
Cadmium as Cd	EPA 3050 B	2.78	mg/kg	
Chromium as Cr	EPA 3050 B	5.05	mg/kg	
Copper as Cu	EPA 3050 B	1.63	mg/kg	
Iron as Fe	EPA 3050 B	2364.14	mg/kg	
Nickel as Ni	EPA 3050 B	4.29	mg/kg	
Lead as Pb	EPA 3050 B	6.69	mg/kg	
Selenium as Se	EPA 3050 B	<0.01	mg/kg	
Zinc as Zn	EPA 3050 B	8.28	mg/kg	
Mercury as Hg	D/ SGS TW 12	<0.005	mg/kg	
Total Phenol	ICARDA	<0.001	mg/kg	

Authorised Signatory		Technical Signatory	Technical Signatory
Etho	L'	Danut	Cpett
Walter Ogara - Multi-I	Lab Manager	DAVID OMONDI-LAB ANALYST	George Nduko-Chemist
12015 0946 0000045579		Page 4 of 8	
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Date: 30/01/2015

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PRODUCT DESCRIPTION:	SEDIMENTS
SAMPLED BY:	SGS
DATE SAMPLED:	11/01/2015
SAMPLE RECEIVED:	21/01/2015
ANALYSIS STARTED:	21/01/2015
MARKS:	LAMU COAL POWER PROJECT SAMPLE CONDITION: DELIVERED IN A TEFLON TUBE SEDIMENTS SITE No. 2 SITE NAME:PATE ISLAND BAY

TESTS	METHOD	RESULT	UNITS	
Total Cyanide	ICARDA	<0.01	mg/kg	
ТРН С6-С44	SGS TW 56	3.37	mg/kg	
TPH C10 - C16	SGS TW 56	6.13	mg/kg	
TPH C16 - C22	SGS TW 56	<0.01	mg/kg	
pH	ICARDA	7.75		
Arsenic as As	EPA 3050 B	<0.02	mg/kg	
Cadmium as Cd	EPA 3050 B	2.44	mg/kg	
Chromium as Cr	EPA 3050 B	7.81	mg/kg	
Copper as Cu	EPA 3050 B	2.82	mg/kg	
Iron as Fe	EPA 3050 B	3666.46	mg/kg	
Nickel as Ni	EPA 3050 B	<0.02	mg/kg	
Lead as Pb	EPA 3050 B	13.72	mg/kg	
Selenium as Se	EPA 3050 B	<0.01	mg/kg	
Zinc as Zn	EPA 3050 B	8.41	mg/kg	
Mercury as Hg	D/ SGS TW 12	<0.005	mg/kg	
Total Phenol	ICARDA	<0.001	mg/kg	

Authorised Signatory		Technical Signatory	Technical Signatory
Etho	2hi	Danit	Cpett
Walter Ogara - Multi-	-Lab Manager	DAVID OMONDI-LAB ANALYST	George Nduko-Chemist
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Date: 30/01/2015

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PRODUCT DESCRIPTION:	SEDIMENTS
SAMPLED BY:	SGS
DATE SAMPLED:	12/01/2015
SAMPLE RECEIVED:	21/01/2015
ANALYSIS STARTED:	21/01/2015
MARKS:	LAMU COAL POWER PROJECT SAMPLE CONDITION: DELIVERED IN A TEFLON TUBE SEDIMENTS SITE No. 3 SITE NAME:MBELE MBELE WETLAND

TESTS	METHOD	RESULT	UNITS	
Total Cyanide	ICARDA	<0.01	mg/kg	
TPH C6-C44	SGS TW 56	<0.01	mg/kg	
ТРН С10 - С16	SGS TW 56	12.76	mg/kg	
TPH C16 - C22	SGS TW 56	<0.01	mg/kg	
pH	ICARDA	7.86		
Arsenic as As	EPA 3050 B	<0.02	mg/kg	
Cadmium as Cd	EPA 3050 B	2.60	mg/kg	
Chromium as Cr	EPA 3050 B	13.41	mg/kg	
Copper as Cu	EPA 3050 B	11.34	mg/kg	
Iron as Fe	EPA 3050 B	3386.82	mg/kg	
Nickel as Ni	EPA 3050 B	<0.02	mg/kg	
Lead as Pb	EPA 3050 B	13.82	mg/kg	
Selenium as Se	EPA 3050 B	<0.01	mg/kg	
Zinc as Zn	EPA 3050 B	15.08	mg/kg	
Mercury as Hg	D/ SGS TW 12	<0.005	mg/kg	
Total Phenol	ICARDA	<0.001	mg/kg	

Authorised Signatory		Technical Signatory	Technical Signatory
Etho	2h	Danit	CONT
Walter Ogara - Multi-	-Lab Manager	DAVID OMONDI-LAB ANALYST	George Nduko-Chemist
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PRODUCT DESCRIPTION:	SEDIMENTS
SAMPLED BY:	SGS
DATE SAMPLED:	13/01/2015
SAMPLE RECEIVED:	21/01/2015
ANALYSIS STARTED:	21/01/2015
MARKS:	LAMU COAL POWER PROJECT SAMPLE CONDITION: DELIVERED IN A TEFLON TUBE SEDIMENTS SITE No. 4 SITE NAME:KWASASI

TESTS	METHOD	RESULT	UNITS
Total Cyanide	ICARDA	<0.01	mg/kg
TPH C6-C44	SGS TW 56	5.76	mg/kg
TPH C10 - C16	SGS TW 56	8.18	mg/kg
TPH C16 - C22	SGS TW 56	0.24	mg/kg
pH	ICARDA	7.75	
Arsenic as As	EPA 3050 B	<0.02	mg/kg
Cadmium as Cd	EPA 3050 B	1.92	mg/kg
Chromium as Cr	EPA 3050 B	5.23	mg/kg
Copper as Cu	EPA 3050 B	2.26	mg/kg
Iron as Fe	EPA 3050 B	3084.59	mg/kg
Nickel as Ni	EPA 3050 B	2.12	mg/kg
Lead as Pb	EPA 3050 B	13.69	mg/kg
Selenium as Se	EPA 3050 B	<0.01	mg/kg
Zinc as Zn	EPA 3050 B	7.56	mg/kg
Mercury as Hg	D/ SGS TW 12	<0.005	mg/kg
Total Phenol	ICARDA	<0.001	mg/kg

	Technical Signatory	Technical Signatory
Etho	hi Danit	Cpett
Walter Ogara - Multi-La	ab Manager DAVID OMONDI-LAB ANALYST	George Nduko-Chemist
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Date: 30/01/2015

KURRENT TECHNOLOGIES LIMITED P.O.BOX 16989 - 00620 NAIROBI Nairobi Kenya

Analysis Report MA15-00219.008

PRODUCT DESCRIPTION:	SEDIMENTS
SAMPLED BY:	SGS
DATE SAMPLED:	15/01/2015
SAMPLE RECEIVED:	21/01/2015
ANALYSIS STARTED:	21/01/2015
MARKS:	LAMU COAL POWER PROJECT SAMPLE CONDITION: DELIVERED IN A TEFLON TUBE SEDIMENTS SITE No. 5 SITE NAME: LAMU BAY

TESTS	METHOD	RESULT	UNITS
Total Cyanide	ICARDA	<0.01	mg/kg
TPH C6-C44	SGS TW 56	4.78	mg/kg
TPH C10 - C16	SGS TW 56	9.40	mg/kg
TPH C16 - C22	SGS TW 56	0.66	mg/kg
pH	ICARDA	7.73	
Arsenic as As	EPA 3050 B	<0.02	mg/kg
Cadmium as Cd	EPA 3050 B	2.84	mg/kg
Chromium as Cr	EPA 3050 B	5.24	mg/kg
Copper as Cu	EPA 3050 B	19.27	mg/kg
Iron as Fe	EPA 3050 B	2223.78	mg/kg
Nickel as Ni	EPA 3050 B	8.41	mg/kg
Lead as Pb	EPA 3050 B	13.83	mg/kg
Selenium as Se	EPA 3050 B	<0.01	mg/kg
Zinc as Zn	EPA 3050 B	33.83	mg/kg
Mercury as Hg	D/ SGS TW 12	<0.005	mg/kg
Total Phenol	ICARDA	<0.001	mg/kg

End of Analytical Results

Authorised Signatory	Technical Signatory	Technical Signatory
Ethothy	Donit	Clarket
Walter Ogara - Multi-Lab Man	ager DAVID OMONDI-LAB ANALYST	George Nduko-Chemist
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