



Waste Testing Report

Name : คุณอัจฉรา พิบูลย์เศรษฐ์
 Address : Eco-Siam / บริษัท ปูนซีเมนต์นครหลวง จำกัด (มหาชน)
 Waste name : Leather Scrap
 Company : Pan Upper
 Code : 3-58-5303859-1-1
 Material ID : 37581007

Report No : AFR1275/06
 Issue date : 06/09/06
 Received date : 07/07/06
 Tested date : 31/07/06
 Sampling date : 1-30/06/06
 Sampling Point : AFR Received Area

Test : ☐ First Acceptance
☐ AR & AF Mixed

☒ Complete test : ประจําเดือน มิถุนายน 2006
☐ Other :

Waste Appearance

Color : เทา - ดำ

Odor : -

Other : ลักษณะตัวอย่างเป็นแผ่น

☐ Oil ☒ Solid AF
☐ Waste Water ☐ Solid AR
☐ Pasty ☐ Other

Parameters		Unit	Method	As received	As dry Basis	Ash Component	Result
Physical and Chemical Properties	Water Content	%	Karl Fischer				N/A
	Moisture Content	%	Oven @ 105± 5 °C				N/A
	Viscosity	cPs	BROOKFIELD DV-II Plus				N/A
	pH		Electrometric Method				N/A
Organic Properties	Net CV	cal/g	AC-350(ASTM D-2382,D-240)	✓			2,083
	Sulfur Content	%	S-144DR(ASTM D-1552)	✓			0.86
	Ash Content	%	Furnace @ 750 °C	✓			3.66
	Volatiles Content	%	Furnace @ 950 °C				N/A
	Flash point	°C	Pensky-Martens Closed Cup(ASTM D93-96)				N/A
Inorganic Properties	PCB	ppm	GC or GC/MS				N/A
	Trace elements	Arsenic (As)	HPA / ICP-OES	✓			< 0.26
		Chromium (Cr)		✓			13,002
		Cadmium (Cd)		✓			< 0.01
		Copper (Cu)		✓			< 0.03
		Lead (Pb)		✓			< 0.09
		Mercury (Hg)		✓			< 0.13
		Zinc (Zn)		✓			< 0.004
		Thallium (Tl)		✓			< 0.20
		Vanadium (V)		✓			< 0.01
		Nickel (Ni)		✓			< 0.09
	Main Oxides	SiO ₂	WDXRF				N/A
		Al ₂ O ₃					N/A
		Fe ₂ O ₃					N/A
		CaO					N/A
		MgO					N/A
		K ₂ O					N/A
		Na ₂ O					N/A
		P ₂ O ₅					N/A
		TiO ₂					N/A
	Halogen	Chloride Content	Potentiometric Titration	✓			0.74

N/A = Not Analysis

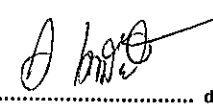
ND = Non Detectable

Remark :

Reported by : อัจฉรา (11กค) Date : 2/10/06

(Miss.Archana Piboonsate)

Quality Assurance Supervisor

Approved by :  date : 2/10/06

(Mrs Kanya Thamee)

AFR Quality Control Division Manager