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Tarmac Trading Limited
Mountsorrel Laboratory,
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Date: 01st August 2019

LABORATORY TEST REPORT

TEST REQUIREMENTS: To determine the Waste Acceptance Criteria, EA Landfill Directive Reg Note 2 in accordance with **Standard Methods for the Examination of Water and Wastewater: 19th Edition: 1995 and BS EN 12457:3:2002.**

SAMPLE DETAILS:

Certificate of sampling received:	**Yes**
Laboratory Ref. No:	**S82009**
Client Ref. No:	**19-1555**
Date and Time of Sampling:	**02/07/2019**
Date of Receipt at Lab:	**22/07/2019**
Date of Start of Test.:	**31/07/2019**
Sampling Location:	**Unknown**
Name of Source:	**Mountsorrel**
Method of Sampling:	**Unknown**
Sampled By:	**Client**
Material Type and Nominal Size:	**Filter Cake**
Target Specification:	**N/A**

RESULTS:

SEE ATTACHED

Comments:	Report checked and approved by:
The work was carried out by our accredited, competent, subcontracted laboratory.	Joseph Parry Aggregate Job Coordinator

REQUIREMENTS

Date of Requisition **31/07/19**

Client Sample Ref	Required Interpretation
S/N S82009 ***Waste Data*** **19-1555**	**Chemical analytical data interpretation: Waste designation (WAC).**

Date of Completion **31/07/19**

Results: TOTAL WAC ANALYSIS – S82009

Parameter	S82009 ref 19-1555
TOTAL ANALYSIS	
Total Moisture (%)	**18.8**
Total Organic Carbon (%)	**< 0.5**
Loss on Ignition (%)	**0.71**
BTEX (mg/kg)	**< 0.04**
PCBs 7 congeners (mg/kg)	**< 0.01**
Mineral Oil C10-C40 (mg/kg)	**< 10**
Total PAHs (EPA16) (mg/kg)	**< 1.6**
pH	**8.6**
ANC to pH 4 (mol/kg)	**< 1**
ANC to pH 7 (mol/kg)	**< 1**

Results: LEACHATE WAC ANALYSIS – S82009

Parameter	S82009 ref 19-1555
LEACHATE ANALYSIS	
Arsenic (mg/kg)	**< 0.01**
Barium (mg/kg)	**< 0.1**
Cadmium (mg/kg)	**< 0.02**
Chromium (mg/kg)	**< 0.1**
Copper (mg/kg)	**< 0.02**
Mercury (µg/kg)	**< 0.002**
Molybdenum (mg/kg)	**< 0.1**
Nickel (mg/kg)	**< 0.1**
Lead (mg/kg)	**< 0.05**
Antimony (mg/kg)	**< 0.05**
Selenium (mg/kg)	**< 0.03**
Zinc (mg/kg)	**0.05**
Chloride (mg/kg)	**< 100**
Fluoride (mg/kg)	**< 0.1**
Sulphate (mg/kg)	**< 100**
Total Dissolved Solids (mg/kg)	**340**
Phenols index (mg/kg)	**< 1**
Dissolved organic carbon (mg/kg)	**< 50**

Interpretation: WASTE ACCEPTANCE CRITERIA ASSESSMENT

The results of assessment of the analytical parameters tested with respect to WAC status are tabulated below:

Sample Reference	WAC CLASSIFICATION STATUS
S82009 ref 19-1555	**Inert Waste**

Conclusions

S82009 – WAC CLASSIFICATION : INERT WASTE.
The results of WAC analysis of sample referenced S82009 ref 19-1555 indicate that the relevant parameters comply with the inert waste landfill classification limits, where such exist; as such, the material is classified as suitable for disposal at an **INERT WASTE** licensed landfill.

Note that the WAC Waste classification is an indicator of the suitability of a landfill to receive such waste for disposal (in accordance with the appropriate licence). The results of WAC analysis do not determine whether a waste is hazardous or not, this is only achieved by following the procedures to be used in the determination of whether a waste is hazardous cited in The Environment Agency document "***Technical Guidance, WM3***".

WAC summary of results table appended.

WAC SUMMARY OF RESULTS

Sample Reference	**S82009 ref 19-1555**	***Landfill Waste Acceptance Criteria Limits***		
Sampling Date	**-**	***Inert Waste Landfill***	***Stable Non-reactive Hazardous Waste in Non-Hazardous Landfill***	***Hazardous Waste Landfill***
Solid Waste Analysis				
Total Organic Carbon (%)	**< 0.5**	*3*	*5*	*6*
Loss on Ignition (%)	**0.71**	-	-	*10*
Sum of BTEX (mg/kg)	**< 0.04**	*6*	-	-
Sum of 7 PCBs (mg/kg)	**< 0.01**	*1*	-	-
Mineral Oil (mg/kg)	**< 10**	*500*	-	-
PAH Sum of 17 (mg/kg)	**< 1.6**	*100*	-	-
pH (pH Units)	**8.6**	-	*>6*	-
ANC to pH 4 (mol/kg)	**< 1**	-	*to be evaluated*	*to be evaluated*
ANC to pH 7 (mol/kg)	**< 1**	-	*to be evaluated*	*to be evaluated*
Eluate Analysis (mg/kg)	**Cumulative 10:1**	***Limit values for compliance leaching test using BS EN 12457-3 at L/S 10 l/kg***		
Arsenic	**< 0.01**	*0.5*	*2*	*25*
Barium	**< 0.1**	*20*	*100*	*300*
Cadmium	**< 0.02**	*0.04*	*1 (UK 0.1)*	*5 (UK 1)*
Chromium	**< 0.1**	*0.5*	*10*	*70*
Copper	**< 0.02**	*2*	*50*	*100*
Mercury	**< 0.002**	*0.01*	*0.2 (UK 0.02)*	*2 (UK 0.4)*
Molybdenum	**< 0.1**	*0.5*	*10*	*30*
Nickel	**< 0.1**	*0.4*	*10*	*40*
Lead	**< 0.05**	*0.5*	*10*	*50*
Antimony	**< 0.05**	*0.06*	*0.7*	*5*
Selenium	**< 0.03**	*0.1*	*0.5*	*7*
Zinc	**0.05**	*4*	*50*	*200*
Chloride	**< 100**	*800*	*15000*	*25000*
Fluoride	**< 0.1**	*10*	*150*	*500*
Sulphate as SO_4	**< 100**	*1000*	*20000*	*50000*
Total Dissolved Solids	**340**	*4000*	*60000*	*100000*
Phenol Index	**< 1**	*1*	-	-
Dissolved Organic Carbon	**< 50**	*500*	*800*	*1000*

END OF REPORT