



EXECUTIVE SUMMARY

Total Petroleum Hydrocarbon Leach Test

Cooee Products manufactures a Dust Suppression agent – DustBloc.

DustBloc is a water based bitumen emulsion that is readily diluted with water. When applied to an area, the DustBloc soaks into the surface, taking an amount of bitumen with it. When the water evaporates off, a thin bitumen layer is left behind, providing dust suppression and weather proofing of the surface.

The Total Petroleum Hydrocarbon Test involved collecting run off from two samples of material – one treated with DustBloc and one untreated. Collected runoff was supplied to Symbio Alliance for testing.

The runoff was tested for the total range of petroleum hydrocarbons to test if DustBloc leached any hydrocarbons into the environment.

The control sample recorded levels under the Limits of Results for hydrocarbon testing across the range of hydrocarbon fractions. The treated sample recorded the same levels showing that DustBloc does not leach hydrocarbons into the environment.

Methodology

2 kilograms of road base material was placed into two metal baking trays.

The material was brought to O.M.C. with water and compacted using a 1 kg roller. The trays were then placed in the sun to dry for 2 days.

One tray was tagged as the control, and the other the DustBloc treated sample.

DustBloc treated sample:

- Day 1 - 100 ml of water and 5 ml of DustBloc was mixed together and applied via a drip system that covered the sample. Tray was placed in the sun for drying.
- Day 2 - 100 ml of water and 5 ml of DustBloc was mixed together and applied via a drip system that covered the sample over the original coat. Tray was placed in the sun for drying.
- Day 3 - 100 ml of water and 5 ml of DustBloc was mixed together and applied via a drip system that covered the sample over the original coat. It was found that the first two coats caused a water proofing affect so the third application was beading in most areas - the tray was tilted up and down until the liquid was mixed in. Tray was placed in the sun and wind for drying.

Filling the laboratory sample bottles:

- When the de-mineralized water was run across the treated sample the water was beading up on the surface and did not soak in.
- The untreated sample started eroding as soon as the water touched the surface and silt and small rocks started to enter the bottle. A filter was used to stop the rocks and small stones from entering the bottle. The sample ended up muddy looking water.

Two samples where taken and sent to the lab for the Total Petroleum Hydrocarbon test –a sample of the runoff on the untreated surface and a sample of the runoff on the DustBloc treated surface.

Results: Control sample was under Limits of Results for all ranges of hydrocarbons. Treated sample show the same results, indicating no leaching of hydrocarbons from DustBloc into the environment.



CERTIFICATE OF ANALYSIS

ANALYSIS PERFORMED FOR:

Tony Pynsent
Cooee Products
Building 5/527 Maroochydore Road
Maroochydore Qld 4558

DATE: 13/07/06
CERTIFICATE No.: 9070
DATE RECEIVED: 29/06/06
DATE TEST COMMENCED: 29/06/06
PAGE: 1 of 1

SAMPLE DESCRIPTION: Water (1) Samples as below

CONDITION OF SAMPLE(S) UPON RECEIVAL:

Sample(s) received at <ambient temperature. Results reported on an "as received" basis and pertain only to the sample(s) submitted.

Our Reference	9070	LOR	Units	Method Code
Your Reference	Control			
Total Petroleum Hydrocarbons				
C6-C9 Fraction	< 20	20	µg/L	WAT027
C10-C14 Fraction	50	50	µg/L	WAT027
C15-C28 Fraction	< 100	100	µg/L	WAT027
C29-C36 Fraction	< 50	50	µg/L	WAT027
Benzene	< 1	1	µg/L	EW057


Glen Rangott
Senior Chemist

HPC Holdings Pty Ltd trading as Symbio Alliance ABN 93 621 286 928

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CERTIFICATE OF ANALYSIS

ANALYSIS PERFORMED FOR:

Tony Pynsent
Coosee Products
Building 5/527 Maroochydore Road
Maroochydore Qld 4558

DATE: 13/07/06
CERTIFICATE No.: 9069
DATE RECEIVED: 29/06/06
DATE TEST COMMENCED: 29/06/06
PAGE: 1 of 1

SAMPLE DESCRIPTION: Water (1) Samples as below

CONDITION OF SAMPLE(S) UPON RECEIVAL:

Sample(s) received at <ambient temperature. Results reported on an "as received" basis and pertain only to the sample(s) submitted.

Our Reference	9069	LOR	Units	Method Code
Your Reference	Treated			
Total Petroleum Hydrocarbons				
C6-C9 Fraction	< 20	20	µg/L	WAT027
C10-C14 Fraction	< 50	50	µg/L	WAT027
C15-C28 Fraction	< 100	100	µg/L	WAT027
C29-C36 Fraction	< 50	50	µg/L	WAT027
Benzene	< 1	1	µg/L	EW057


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Photos



Tray containing road base



Initial water application



Water prior to collection