

COAL & ORGANIC PETROLOGY SERVICES PTY LTD

Trading as Organic Petrology Services

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Balmain, Jan. 19, 2018



**Environment Protection Authority**

Building 22/310 Richmond Road, Netley, S.A. 5037, AUSTRALIA

**EPA Reference -**

**Order no.:-**

**Our ref: EM1134**

**REPORT ON 1 FILTER SAMPLE**

1 sample was received on January 16, 2018 for to analyse a 'high volume sample filter microscopically. The sample was analysed under the label ED395

The samples was examined macroscopically and at 50x magnification under a stereomicroscope. Parts of the filter were further set in polyester resin, sanded and polished for observation under 500x magnification.

The material on the filter is very finely grained (max. 20 – 30  $\mu\text{m}$ ), It is macroscopically (slightly reddish) light brown and has traces of black matter, visible under a stereomicroscope at 50 times magnification. At higher magnification few of these dark particles (<1 - 2%) can be identified as coal. The majority of the filter material is soil/minerals with some (<5%) plant fragments. The latter are identified by their bright fluorescence under UV-light illumination, but too small to be described more specifically..

