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Date: May 1, 2010
To: Ralph Markarian, John Dimitri
cc:
From: Rob Barrick
Re: **Hydrocarbon Results for MC252 Weathered Oil**

Attached are results of the following analysis of MC252-Sample 5

1. Whole oil (C₃ to C₄₄) fingerprinting analysis (***MC252 Weathered Oil_ZyMaX 41819.pdf***), completed by ZymaX Laboratory in Escondido, CA
2. Triplicate, quantitative PAH analysis (***MC252 Sample 5 PAH_B&B 1May10.xls***), completed by B&B Laboratories in College Station, TX

The lowest molecular weight hydrocarbon detected in the whole oil analysis was the alkane *n*-C₁₄ (labeled on the attached chromatogram). Naphthalene, a volatile PAH compound, elutes earlier than *n*-C₁₄ and was not detected. More volatile compounds, including benzene, toluene, ethylbenzene, and xylenes were also undetected.

Naphthalene, the most volatile compound tested for in the PAH analysis by B&B, was present just above detection limits at 0.1 ng/mg oil.