

Geological Road Outcrop Survey

By Karen Adams, June 2012

A geological survey of road-side outcrops along the public roads contained within EL25/2008 and EL26/2008, was carried out over two days (6th-7th June, 2012). The survey was intended as a brief visual analysis of the 'publicly available' outcrops within the licence for the purpose of identifying areas that might be potentially prospective for coal and as such warrant further exploration.

The majority of outcrops observed were dolerite and/or sandstone-mudstone and all correspond with the available geological data. There were a few noteworthy areas including in the south of EL25/2008, to the west of Kempton, and in the south of EL26/2008 to the north east of Colebrook.

The southern area of EL25/2008 was of particular interest given that a series of holes drilled ('KP' holes) by CRAE in the 1980's to follow up on the Mount Vernon coal seam, ended in dolerite at reasonably shallow depths. Upon examination of the outcrops in the valleys and leading up the hills upon which the holes were drilled, a number of dolerite outcrops separated by sandstone (and some mudstone) were observed and would tend to indicate that these are likely to be sills. In which case, the KP series of drill holes were likely ended too early. There were also two outcrops of highly degraded carbonaceous mudstone observed in the vicinity of the eastern intersection of Clifton Vale Road and Fosters Road (see photo below).



There is a report of coal outcropping in the Kempton area, observed in the 1980's in what was likely to have been a fresh outcrop at the time. It is likely that this outcrop has degraded greatly or has

been covered by debris. As such, it has not been re-discovered. It is possible, that the above pictured outcrop once had some associated coal, or was proximal to coal.

A relatively fresh outcrop of mudstone and lithic sandstone with flaser banding and some carbonaceous mudstone was observed along Rhyndaston Road in the southern part of EL26/2008, to the north-east of Colebrook (pictured below).





This survey has identified and/or confirmed areas of potential coal prospectivity, but is just an initial step. Further, more detailed mapping within privately owned land on the licences is probably advisable, and more detailed mapping in the areas identified in this survey is definitely warranted. It may also be advisable to consider continuing where CRAE left off with the KP series drill hole.