

# Preston New Road

January 2019 report 2

## Background Air Quality Monitoring - Methane Summary

This methane (CH<sub>4</sub>) summary report is intended to supplement our monthly reports and will be issued between the monthly reports to provide additional information on methane levels during the hydraulic fracturing period at little Plumpton.

The gap in the CH<sub>4</sub> data, between the 26 April 2018 and 1 May 2018, was due to a technical problem with the analyser.

The mobile monitoring unit (MMF) was changed from MMF2 to MMF1 on the 15 January 2019.

## Methane Results

Provisional CH<sub>4</sub> data, from the 23 August 2017 until the 30 January 2019, is shown in Figure 1. The average CH<sub>4</sub> concentration over the entire monitoring period was 1.41 mg/m<sup>3</sup>.

The wind direction data shows that during the hydraulic fracturing period (15th October 2018 - 17 December 2018) wind only came from the direction of the well pad for ~3% of the time. None of the hourly averages during the hydraulic fracturing period (15 October 2018 - 17 December 2018) are higher than any of the hourly averages measured during the non-hydraulic fracturing period.

**Figure 1. Time series plot of the methane (CH<sub>4</sub>) 1-Hour Mean Concentrations (mg/m<sup>3</sup>).**

