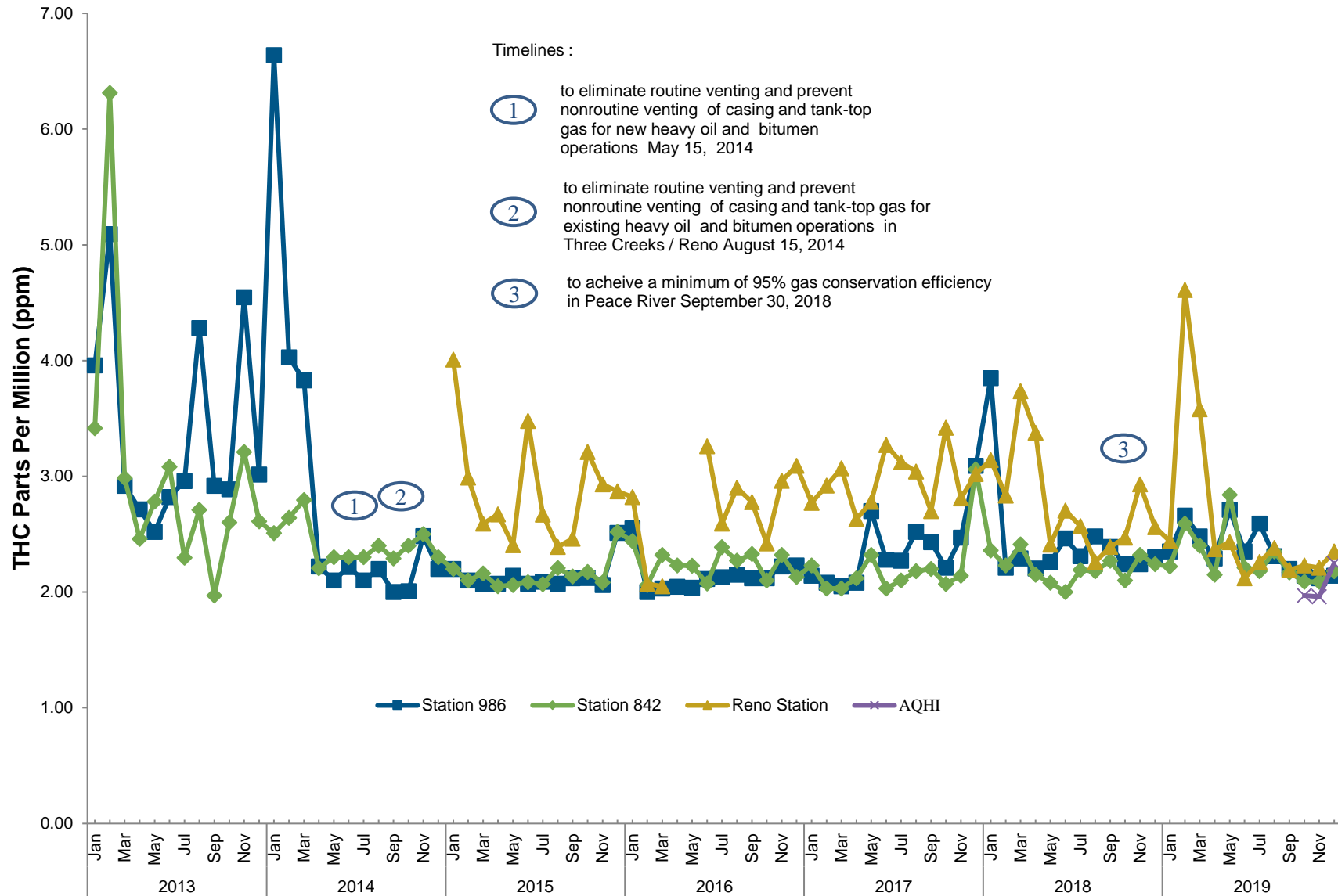


**Figure 16 – Comparison of Total Hydrocarbon 99th Percentile of Monthly One-Hour Measurements at 986, 842, Reno and AQHI Stations**



Total hydrocarbon (THC) monitoring occurs at two stations in Three Creeks (near highways 986 and 842) and at a third station in Reno. THC monitoring measures all hydrocarbon concentrations, including methane, in the ambient air and is measured in units of parts per million (ppm). Natural background levels of methane are about 1.9 ppm. THC are representative of the odours and emissions. The data presented are the 99th percentile of the hourly measurements gathered in any given month. One per cent of the hourly measurements in any given month would be higher than the values plotted in this graph.

The Reno field was shut-in during February and March 2016 and the Reno station was removed during April and May 2016. Monitoring resumed in June 2016 when production resumed.

Station 986 showed a spike in December 2017 and January 2018. This is likely attributable to cattle pasturing around the station starting on November 11, 2017 and ending January 15, 2018.

Reno station had elevated hydrocarbons concentrations during February-March 2019; however, no known upset or unusual operating circumstances were noted.

The deadline to achieve a minimum of 95% gas conservation efficiency in Peace River was September 30, 2018. The AER is investigating and working with licensees to reduce elevated concentrations in Reno.

Data obtained from PRAMP. Note the reporting resolution of the measurements was decreased from 0.1 to 0.01 ppm in January 2016.

AQHI  
Cadotte Lake Station was installed on October 1, 2019.

Chart published **March 2020**.  
See disclaimer provided on outcome page.