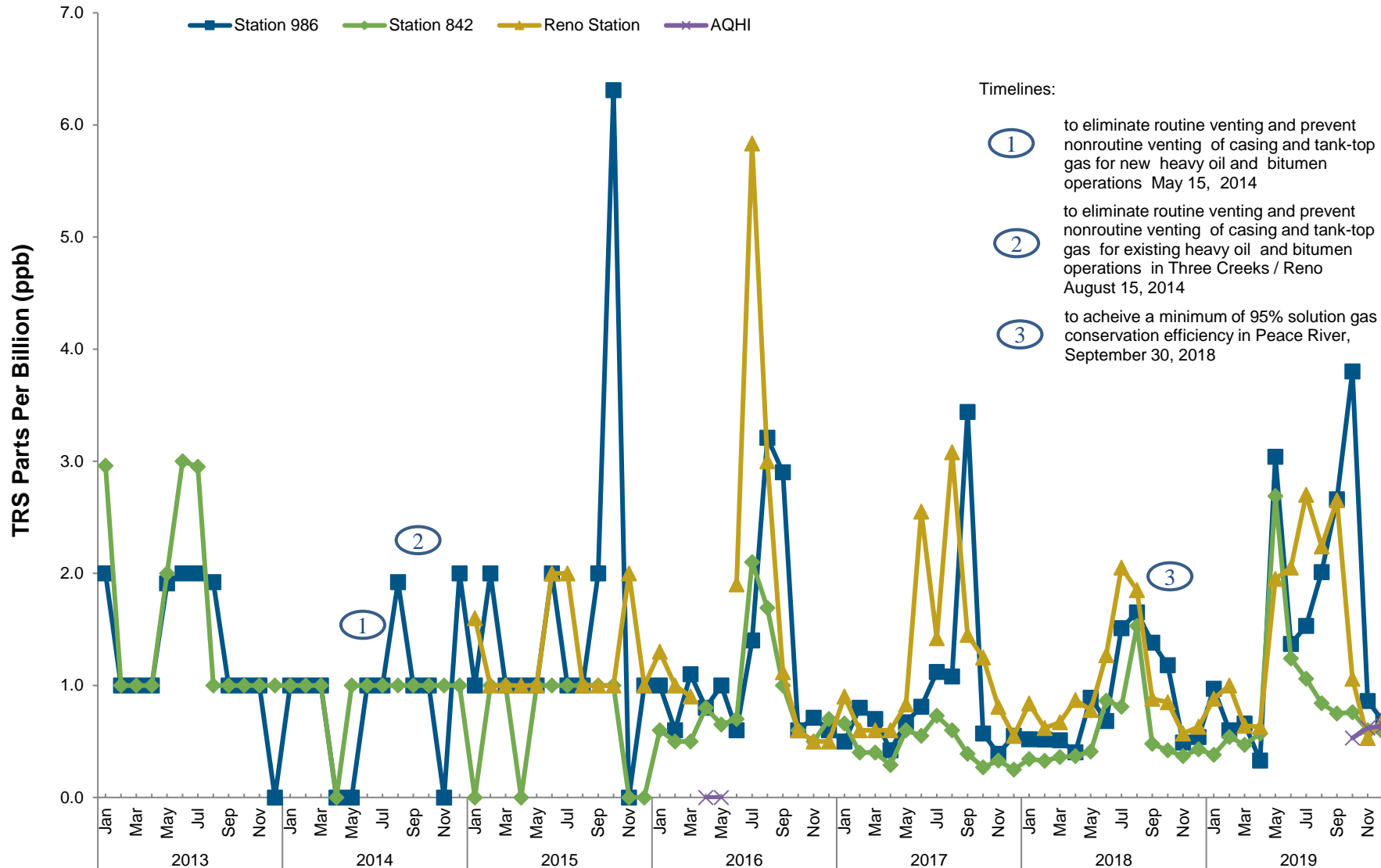


Figure 18 – Comparison of Total Reduced Sulphur 99th Percentile of Monthly One-Hour Measurements at 986, 842, Reno and AQHI Stations



Timelines:

- ① to eliminate routine venting and prevent nonroutine venting of casing and tank-top gas for new heavy oil and bitumen operations May 15, 2014
- ② to eliminate routine venting and prevent nonroutine venting of casing and tank-top gas for existing heavy oil and bitumen operations in Three Creeks / Reno August 15, 2014
- ③ to achieve a minimum of 95% solution gas conservation efficiency in Peace River, September 30, 2018

Total reduced sulphur (TRS) monitoring occurs at two stations in Three Creeks (near highways 986 and 842) and at a third station in Reno. TRS monitoring measures total reduced sulphur concentrations in the ambient air and is measured in units of parts per billion (ppb). TRS 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.

Burning of land clearing debris during the 4th quarter of 2015, created smoky conditions which resulted in higher TRS readings due to products of incomplete combustion. There were no complaints during the high TRS readings at Station 986 in October, 2015.

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.

A period of elevated TRS concentrations were recorded beginning on May 30, 2019. The cause was likely the forest fire smoke from the High Level area. Due to a major power outage that occurred September 2019, the 90% operational uptime requirement was not met. AEP reference # 358685.

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

Data obtained from PRAMP. Note the reporting resolution of the measurements was decreased from 1 to 0.1 ppb in January 2016 and to 0.01 ppb in April 2017.

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

