

SOP Options for Member Community Meter Station Anomalies

Purpose: Provide uniform guidance for the generation of monthly invoices for member communities when meter station data is either not gathered or is suspect and inaccurate.

Option A- Past Practice

Utilize the flow data for invoicing based off the average from the previous 3 months station data.

Example: On the 15th of February a lightning strike takes out the flow meter at meter station 1 and it is not repaired or replaced until March 1st.

In this scenario the flow data from January, December, and November are averaged and the average flow would be inserted into the billing spreadsheet for the dates in question. (the 15th thru the 28th).

- This method uses the most recent 3 months data available on the pro side and on the con side does not account well for seasonal flow variations from dry or saturated ground conditions from months like a wet April or dry February.

Option B – B1 5 years data for the month - 3-year data use

Utilize the flow data for invoicing from the month in question from past 5 years. Throw out both the highest year and the lowest year and use the average of the 3 years.

Example: On the 15th of February a lightning strike takes out the flow meter at meter station 1 and it is not repaired or replaced until March 1st.

In this scenario the previous data from the past 5 years for the month of February are used with the high and low months being thrown out to correct for wet/dry years data. The average flow would then be placed in the billing spreadsheet for the dates in question.

A sub option possibility is to use the actual dates in question from the historical data where only the 15th thru the 28th data would be used for calculating a bill.

Option C – Quarterly data – 3 years

Utilize the quarters flow data for the previous 3 years and insert the flow value for the dates in question.

Example: On the 15th of February a lightning strike takes out the flow meter at meter station 1 and it is not repaired or replaced until March 1st.

In this option the previous 3 years data for the 1st quarter are averaged and inserted into the billing spreadsheet to generate the monthly invoice.

- This method, to an extent, takes out seasonality and water use patterns, and also buffers year to year changes.