

SYSTEM AND METHOD FOR IDENTIFYING LIKELY GEOGRAPHICAL LOCATIONS OF ANOMALIES IN A WATER UTILITY NETWORK

ABSTRACT

A computerized method for determining one or more statistically likely geographical locations of an anomaly in a region zone of a water utility network, the water utility network comprising at least a network of pipes for delivering water to consumers and a plurality of meters positioned within the water utility network including a plurality of meters capturing data regarding the water delivering within the region zone of the anomaly, the method comprising. The method includes receiving anomaly event data, the anomaly event data representing an indication of an anomaly occurring or having occurred within a region or zone of the water utility network, the anomaly event data being associated with meter data produced by one or more of the meters. The method also includes performing a plurality of tests on the anomaly event data each designed to statistically determine a likely geographical location of the anomaly within the region or zone, the performance of each test producing a result. The results of the plurality of tests to generate scores for the determined likely locations for the anomaly are combined. The one or more of the determined likely locations are presented to a user.

Fig. 1