

February 20, 2020

## **Telemetry Requirements and Industrial Water Depot Policies for Compliance with Conditional and Temporary Water Permits**

**Prior to the withdrawal of water, a meter and telemetry system must be installed and communicating with the Office of the State Engineer's Water-Use Database.**

The meter and telemetry system (MTS) must be capable of reporting at least one meter reading per day to the web services hosted by the Office of the State Engineer, whether pumping is occurring or not.

Only one MTS is required for each water depot, provided there is a "master meter" which monitors all water use at a water depot. If multiple systems are pumping water from the approved point(s) of diversion and are not connected to each other, an MTS is required on each system. If a water depot has both ground water and surface water sources, a separate MTS is required for each water source. The telemetry system is calibrated to work with the meter; therefore, the telemetry system must remain attached to the meter at all times. In the case of temporary water permits, once an MTS is installed, it must remain in place until the water permit expires, is no longer in use, or has been requested disconnected from its associated water depot. Permitholders shall notify the Office of the State Engineer and provide a final (end) meter reading within three days if an MTS is replaced or removed.

The electronic delivery of real-time data must be through a SOAP (Simple Object Access Protocol) service. After a telemetry system has been installed, SOAP Credentials must be requested. SOAP Credentials will be issued along with an initial Weekly Meter Report and a copy of the Monthly Water Meter Report. The Weekly Meter Report must be completed for the first 7 days of pumping. Daily entries of water use should be entered onto the report for 7 days. After the 7<sup>th</sup> day, a copy of the report must be submitted to the Office of the State Engineer via mail or email. Monthly Water Meter Reports will also be required for every month an MTS is communicating with the Office of the State Engineer's Water-Use Database, even if water has not been withdrawn. The Monthly and Weekly Meter Reports are to be completed by taking visual readings of the meter and documenting the values on the respective sheets. These reports provide the necessary information for telemetry system calibration and are an important aspect of keeping a permitholder in compliance. A depot login and password will be issued after the SOAP Credentials have been issued. The permitholder must monitor their MTS regularly to verify it is connected and reporting accurately at least once per day.

It is important to note that there could be technical failures with an MTS beyond the control of the permitholder. Reporting water use remains the responsibility of the permitholder even during times when the MTS is not operating properly. In the event of MTS failure, the Office of the State Engineer must be notified immediately and daily meter readings should be collected and reported to our office until the MTS is operating properly. Keeping the Office of the State Engineer informed throughout the duration of this process will be taken into consideration when evaluating compliance with telemetry requirements.

SOAP Credentials from the State can be requested online using the following link:

[http://www.swc.nd.gov/reg\\_approp/waterpermits/meter\\_request.html](http://www.swc.nd.gov/reg_approp/waterpermits/meter_request.html)

After receiving your SOAP Credentials, use the below link to log into your depot:

<http://swc.nd.gov/permitlink/4dcgi/DepotLoginForm>

An updated version of this document will be maintained and found at the following link:

[http://www.swc.nd.gov/pdfs/telemetry\\_requirements.pdf](http://www.swc.nd.gov/pdfs/telemetry_requirements.pdf)

**For any questions or assistance setting up your MTS, please contact a Water Resource Program Administrator at 701-328-2754, or by e-mail at [depotreporting@nd.gov](mailto:depotreporting@nd.gov)**