



State of North Dakota

Office of the State Engineer

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WATER APPROPRIATION DIVISION

Telemetry Requirements and Industrial Water Depot Policies

May 5, 2015

Telemetry Informational Sheet:

The telemetry system must be capable of reporting at least one meter reading per day to the web services hosted by the State Engineer's Office. Currently, there are eight contractors that provide telemetry services that have already implemented tools capable of meeting the reporting requirements of the State Engineer. This list will be periodically updated as more telemetry contractor systems meet the State Engineer requirements.

Flowpoint Systems:

Jakub Zielinski at 877-655-5585

Fusion Integrated Technologies

Steve Clayton at 701-258-8899

Information Data Technologies (IDT):

Agri-Industries at 701-572-0767

Todd Moch : SoloTek LLC at 701-934-5159

Steve Uban at 605-878-3345

McCrometer :

Mon-Kota Irrigation at 701-844-5300

Rock Water Energy Solutions at 701-244-9097

Joseph Harker at 307-677-6492

Micro-Comm:

Chris Cote at 913-390-4500

Preferred Controls:

Peter Desautel at 701-839-0181

Well Head Automation :

TJ Halverson at 701-641-8631

Most of these contractors also provide web sites that can be used by the depot owner/manager to verify meter readings. If you prefer to work with another contractor, the web service specifications are available at: <http://dbase1.swc.nd.gov:8082/4dwsdl>

Since the purpose of the telemetry system is to monitor total water use, only a single telemetry system is required if there is a "master meter" which monitors all of the water use at a water depot. If a water depot has both ground water and surface water sources, a separate meter and telemetry system for each water source is required. If a water depot does not have a "master meter", a telemetry monitoring system needs to be attached to each meter. The telemetry system is required to remain attached to the meter for the duration of the water permit's allocation period, since the telemetry is calibrated to work with the water meter. In the case of a temporary water permit, once a water meter and telemetry is installed the meter and telemetry must remain in place until the water permit expires, or when the depot is permanently closed by the permit holder. Please contact us if you have questions about the details of your water permit's allocation circumstances.

After a telemetry system has been installed, monthly meter reading reports will still be required for several months to ensure that the telemetry installation is functioning correctly. The monthly meter reports also provide the necessary information for calibrating the telemetry system. Once we are confident that the telemetry system is functioning correctly, the monthly meter reports will be discontinued for the site.

We recognize there could be technical failures with telemetry systems from time to time that are beyond the control of the depot owner or manager. Reporting water use remains the responsibility of the permit holder even during times when the telemetry is not operating properly. During a telemetry failure, manually reporting water use and keeping our office informed of your efforts to repair telemetry issues will be taken into consideration when evaluating your compliance with water permit requirements for telemetry.

The telemetry pilot study report can be found at our agency web site.

<http://www.swc.nd.gov/4dlink9/4dcgi/GetSubCategoryPDF/250/Telemetry%20Study%20Report.pdf>

To navigate to the telemetry report: 1st, go to www.swc.nd.gov.

2nd, click once on the title "Reports and Publications" found on the left side of the screen in bold black letters, which will display a sub-list of 25 items.

3rd, click once on the title "Miscellaneous Studies", which is the last item in the sub-list of 25 items. This will open the pilot study report as a PDF file.

An updated version of this document and the telemetry vendor list is at the link below.

<http://www.swc.nd.gov/Data/swcftp/webfiles/TelemetryRequirements.pdf>

To navigate to the "Telemetry Requirements" document: 1st, go to www.swc.nd.gov.

2nd, click once on the title "Permits and Applications" found on the left side of the screen in bold black letters, which will display a sub-list of 6 items.

3rd, click once on the title "Water Permits", which is the last item in the sub-list of 6 items. This will open a list of 13 items on the right side of your screen.

4th, On the right side of your screen, click once on the title "Telemetry Requirements", which will open the current version of this document as a PDF file.

If you have any questions regarding these matters, feel free to contact Michael Hove or Deidra Lies at 701-328-2754, or by e-mail at mhove@nd.gov or dlies@nd.gov.