



First Nations (Alberta) Technical Services Advisory Group

Santa Fe Plaza, 18232 –102 Avenue NW, Edmonton, Alberta T5S 1S7
P: 780.483.8601 F: 780.483.8632 W: www.tsag.net

To: Alberta Chiefs
Band Administrators
Water Treatment Plant Operators

Re: Remote Water Monitoring – Improving water quality in Alberta First Nation communities.

First Nations (AB) Technical Services Advisory Group (TSAG) is pleased to advise that we are on schedule with the internet connection of water treatment plants to the SuperNet across Alberta First Nation communities. The connection will facilitate the use of remote water monitoring at First Nation communities. TSAG will be deploying the systems in the first quarter of 2012.

Remote water monitoring is the ability to monitor water quality at a water treatment plant whereas in the event a water quality issues were to arise; designated contacts will receive instant notification. In other words, should the remote water monitoring system find concerns in the water quality, it can instantly alert water plant operators, band office officials, and/or anyone designated as a contact to rectify the situation.

The system will:

- Provide a baseline of water quality data to monitor and use as an indicator of water quality issues.
- Provide historical data for assessing treatment system during various seasons.
- Allow for remote access by plant operators.
- Provide alarm services (via email) when water quality parameters are out of range.
- Store & backup water data at an off-site facility (TSAG Network Operations Center – “NOC”).
- Finally, safeguard the communities by monitoring water quality of water leaving the Water Treatment Facility.

Remote water monitoring systems monitor the following information:

- Treated water characteristics
- Turbidity
- pH of water (hardness or acidity)
- Total & free chlorine residuals
- Expandability of additional test nodes to be added if required in the future.

Page 1 of 2





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This project, in partnership with Aboriginal Affairs and Northern Development Canada, utilizes a revolutionary optical, multi-parameter probe – s::can spectro::lyser. This product provides continuous, real-time, on-line monitoring mitigating the risk of water contamination creating an added level of security for water treatment plants in First Nation communities.

Additional information on the s::can can be found on their website including a demonstration video:

<http://www.s-can.at/text.php?kat=12&id=254&langcode>

TSAG is a not-for-profit First Nation's organization mandated by Alberta Chiefs. TSAG provides technical services and training for Alberta First Nations in the Treaty 6, 7 & 8 regions. Our primary goal is to assist First Nation communities in achieving and maintaining high standards in technology and services in the following areas:

- Aboriginal Inland Habitat Program
- Asset Management
- Community Awareness Program
- Circuit Rider Training Program
- Environmental Services
- Fire Safety
- Housing Initiatives
- Information and Communications Technology (ICT)

Further Information:

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Page 2 of 2

