

Project: *“Application of Adsorption Process for Removal of Emerging Pollutants from Drinking Water”*

Grant Awarded: Shastri Research Grant (SRG) - \$10,000

Professor Jafer Soltan, Associate Professor of Chemical Engineering, University of Saskatchewan was awarded the SRG Grant in 2012-13 for this project. The presence of emerging pollutants in surface water bodies and ground-water in Canada together with absence of proper drinking water treatment processes in remote places has created the need for an effective and simple process for removal of emerging pollutants from drinking water. The study focused on investigating and identifying the problem of emerging pollutants in water which included chemicals, pharmaceuticals, personal care products and pesticides, the chronic exposure of which would have an impact on vulnerable people like infants and pregnant women. The study helped in arriving at possible removal methods including adsorption, advanced oxidation UV and Ozone, and catalytic ozonation. The removal process includes a polishing stage at the end of wastewater treatment process before discharge to river.

For more information on the project please contact Prof. Jafer Soltan at j.soltan@usask.ca

Or Please visit: <http://engineering.usask.ca/faculty-staff/cbe/jafar-soltan/index.php>



Aerial view of a typical wastewater treatment plant

Micro Pollutants in Water