

Groundwater Modeling Training Phase 2 Storyboard (15-17 Sept 2015)



Purpose: To deliver more advanced groundwater modeling and monitoring training workshop on groundwater principles; aquifer characterization; and data acquisition needed to design, construct, and use groundwater models with case study application for the Tuul River Basin in Mongolia and to present the interim model products to decision-makers for consideration in future water-related planning activities.

Highlights

- Over 20 participants trained in use of MODFLOW to build a transient groundwater model
- Decision-maker session with Ministry of Environment, Green Development, and Tourism (MEGDT) on groundwater modeling and artificial recharge options
- Site visit to upper Tuul River watershed to examine the monitoring equipment and geophysical characteristics
- Preliminary analysis of varying withdrawal and recharge scenarios to enhance water security options

Way Forward

- Continue development of Tuul River Basin MODFLOW model to deliver calibrated model for use in decision-making for water security
- Begin groundwater model for the Gobi region
- Work with an interagency model development team from MEGDT, RBAs, university professors, and FWI
- Request from MEGDT for USACE to assist with technical review of feasibility studies for Tuul Water Complex (series of 3 dams proposed)



Mr. Anderson presenting on groundwater modeling



Discussing groundwater modeling equipment with Dr. Dorjsuren's team



Examining aquifer materials from a recently drilled observation well



Dr. Dorjsuren, Ms. Bulgan, Dr. Haynes, Mr. Davis, and Mr. Anderson