

Announcement of Training Availability:
A Systematic Approach to Ground Water Capture Zone Analysis

Date: August 21, 2007

Location: EPA Region 2
290 Broadway
New York, NY 10007
Room 2735 (27th Floor)

Come hear the latest from EPA's Office of Research and Development (ORD) on the topic of pump and treat system capture zone analysis. This seminar is intended for project managers and hydrogeologists who work on sites with active pump and treat systems or sites where such systems are in the design phase. The day will consist of two sessions: a morning session from 9:00 am till 12 noon and then an afternoon session from 1:00 pm till 4:00 p.m.

The training seminar will present a systematic approach for the evaluation of capture zones generated by pump and treat systems, and will introduce a new guidance document on the topic being developed by the EPA Office of Research and Development. The training will also discuss the importance of capture zone analysis during ground water remediation, particularly for sites requiring hydraulic containment. The use of "converging lines of evidence" and the iterative nature of the systematic approach will be explained. Six steps associated with this systematic approach for capture zone analysis are proposed.

These steps include the following:

- Step 1: Review site data, site conceptual model, and remedy goals
- Step 2: Define site-specific Target Capture Zone(s)
- Step 3: Interpret water levels
- Step 4: Perform appropriate calculations (flow budget calculation, capture zone width calculation and/or modeling)
- Step 5: Evaluate concentration trends at monitoring wells (and potentially tracer tests)
- Step 6: Interpret actual capture and compare to Target Capture Zone(s), assess uncertainties and data gaps

Prior registration is required to attend the training. Registration is available via the Trainex website (<http://www.trainex.org>). Although registration is open to everyone, federal and state government personnel will have first priority. Registration decisions will be made by August 15, 2007.

If you have any questions about the training, please contact Kevin Willis at (212) 637-4252 or at willis.kevin@epa.gov.