

## Coagulation Filtration

Envirogen Technologies, Inc.'s coagulation filtration process works by collecting the coagulated contaminant in the influent water onto the filter media. Our pure  $MnO_2$  media has been judged superior to competing technologies, such as greensand, largely due to the robust nature of its composition. Our preferred media resists the degradation that is common with manganese-coated substrates.

At regular intervals, the media undergoes automatic backwashing, and the backwash water is captured in settling tanks. The precipitate in the backwash tank settles in the bottom of the tank and is periodically hauled off for disposal via tank truck.

After settling occurs, a majority of the backwash supernatant can be sent back to the headwork of the treatment system. This significantly reduces the amount of valuable water requiring disposal and maximizes the efficiency of the system.

Our array of smaller vessels, coupled with control via dynamic automated valving, offers increased efficiency when compared with large static vessel design.

### ENVIROGEN TECHNOLOGIES ADVANTAGE

- Small, multi-bed configuration
- Removes arsenic, iron, manganese and radium
- Robust media handles multiple contaminants

