



Deep Bed Filters



This fact sheet addresses common questions about the **deep bed filters and associated methanol feed** that is being incorporated in the proposed project.

Purpose and Benefits of Process

The existing denitrification filters serve as the primary source of filtration and the associated methanol provides a carbon source for the removal of nitrate from the water. The deep bed filters utilize sand filtration to remove additional solids from the water after it leaves the clarification process. The benefits of deep bed filters include:

- Removes additional solid particles from the water, which further reduces suspended solids concentration. By reducing suspended solids concentrations it also reduces the concentrations of other pollutants that are associated with the solids.

- Removal of suspended solids reduces the energy required for ultraviolet disinfection.
- By feeding methanol into the filter influent stream additional nitrate is removed from the water.

What Process Modifications will be made?

While no modifications will be made to the deep bed filters themselves, the existing piping into the filters will be replaced with larger diameter piping to allow for treatment of higher peak flows during wet weather events.

Is the process a potential odor source? Is the process odor controlled?

Filters are not a potential odor source.

Does the process include equipment that has the potential to create noise? If so, is there any noise control provided?

Yes, the filters have blowers and pumps that are used for backwashing the filter sand. However, these pumps and blowers are located inside of a building and noise levels outside of the building will be relatively low and even lower at the property line. The noise levels would not change from existing conditions as no changes to the blowers and pumps will occur.

Will the process modification change the look and feel of the site?

No, all changes will be made inside of structures or below grade.

Will the process modification change the safety of the site?

No. The safety of the deep bed filters will not change compared to the existing site.