

34. The permittee must have groundwater samples collected and analyzed from each active production and monitoring well in February, May, August, and November of each year, for the permit duration.

Groundwater samples must be collected in accordance with the Florida Department of Environmental Protection's (FDEP) standard operating procedures (SOP), DEP-SOP-001/01, DEP Quality Assurance Rule, 62-160, F.A.C.

The well must be purged in accordance with the appropriate procedure in DEP-SOP-001/01, as necessary to evacuate water from the well column and induce groundwater representative of the hydrogeologic formation into the well prior to sampling. Purged water must be sampled and analyzed in the field for the following parameters:

- Water Temperature (°C)
- pH (SU)
- Specific Conductance (umhos/cm or uS/cm)
- Turbidity (NTU)

Purging must be documented using the Groundwater Sampling Log form referenced in the FDEP SOP or equivalent.

Water samples must be stored on ice immediately after collection and remain on ice until received by the laboratory. It is recommended that sample duplicates be taken to allow for laboratory errors or data loss, and these samples be stored by the laboratory for a minimum of 60 days to ensure backup sample availability should re-analyses be required.

Quality Assurance

The permittee must provide documentation that field instruments were properly calibrated prior to obtaining field measurements during purging and sampling.

All water quality analyses must be performed by a laboratory certified by the Florida Department of Health (FDOH) and the National Environmental Laboratory Accreditation Program (NELAP). All laboratory analyses must be by methods for which the laboratory has FDOH certification. All laboratory analyses must be completed within EPA holding times. If data is lost or a laboratory error occurs and the EPA holding time for an analysis has expired, the permittee must have the well re-sampled within 15 days of notification from the laboratory that a loss or laboratory error has occurred. The resample shall be collected according to the procedures described above, and analyzed for the field parameters and the major ion suite listed above.