INDUSTRIAL Production Wells

High Capacity Wells

What You Need to Know...

Iowa DNR Water Use and Allocation Water Supply Engineering Wallace State Office Building 502 E 9th St Des Moines, Iowa 50319



Industrial Production Wells?

- ? WILL you be pumping at or above 500 Gallons per Minute (gpm)?
- **?** ARE there nearby Private Wells, Other High Capacity Wells or Industrial Wells?

Know your well's geology, aquifers & water-bearing formations:

- 🖊 Bedrock dolomite, limestone, sandstone
- 🖊 Alluvial or Buried sands and gravel
- Protected aquifers such as: Jordan Sandstone (Ordovician)
 - Devonian Limestone
 - Silurian Dolomite
 - Dakota Sandstone (Cretaceous)

Perform Hydro Geologic Review Well Forecast

WHY is this IMPORTANT?

- ... Protect your well
- ... Protect your neighbor's well
- ... Protect Iowa's Ground Water



To Obtain a Water Use Permit for a High Capacity Well

- \checkmark Provide map of proposed irrigation well site
- ✓ Provide map inventory of wells and well construction details within a 1 mile radius
- ✓ Contact us prior or during construction for pump testing guidance based upon your geological setting
- Submit results of any required pump testing – including production well and observation well(s)





What Permits do you need?

County Private Well Construction Permit

DNR Water Use & Allocation Permit C DNR – Water Supply Engineering – Water Use & Allocation Team

Contact:

DNR Water Supply Engineering Water Allocation & Use (WSE- WAT) http://www.iowadnr.gov/Environmental-Protection/Water-Quality/Water-Supply-Engineering/Water-Allocation-Use

Michael K. Anderson, PE, Senior Engineer \$\\$ (515) 725-0336

Deborah R. Williams, Geologist III \$\$\langle\$ (515) 975-1644

DNR – Private Well Program

http://www.iowadnr.gov/Environmental-Protection/Water-Quality/Private-Well-Program

Erik Day, Environmental Specialist Senior \$\$\circ\$ (515) 402-7981

Additional Resources for

Well Mapping Resources Iowa Geological Survey - GEOSAM https://geosam.iihr.uiowa.edu/home

Iowa DNR - Technical Bulletin 23.1 - SD 0014



IMPORTANT INFORATIONM ON IRRIGATION