

DEPARTMENT OF NATURAL RESOURCES

POSITION DESCRIPTION

Working Title: Private Water Hydrogeologist

Classification: Hydrogeologist Advanced - Project

Location: Bureau of Drinking Water and Groundwater, GEF-2, Madison, WI

Position Summary:

This position provides geologic, hydrogeologic and technical expertise, project management and leadership to the investigation of complex geological, hydrogeological and groundwater contamination. This position coordinates the review of complex groundwater quality projects and provides professional geologic and hydrogeologic expertise in carrying out the Private Water Section's responsibilities. This position requires knowledge of the DG program to enable the employee to work effectively on a wide range of complex private well issues including well contamination situations, technological best practices in well construction, interpretation of NR 812, NR 809 and NR 140 administrative rules, and other issues associated with complex well sites.

This position will be the statewide expert and provide geological, hydrogeological and groundwater contaminant analysis to implement technical eligibility requirements of the state's ARPA funded Well Compensation program. This position deals on a routine and continuous basis with complex, multi-disciplinary, and highly sensitive hydrogeological issues that require interpretation, judgement and impact department actions and future decisions.

Geographic Scope & Travel Requirements: This position is part of the Private Water Supply Section of the Bureau of Drinking Water and Groundwater. This position is responsible for statewide administration of assigned program duties. Occasional in-state travel and occasional overnight stays will be required.

Scope of Authority: This position reports to the Private Water Supply Section Chief in the Bureau of Drinking Water and Groundwater. This position is non-supervisory. This position will work with general supervision to represent the section, bureau, division, or department as needed with cross-program, interagency and industry groups.

TIME GOALS AND ACTIVITIES:

65 % A. Hydrogeologic Analysis and Technical Reviews

- A1. Serve as statewide expert and project manager for complex contamination projects involving applications for ARPA funded well compensation grant claims.
- A2. Coordinate technical reviews with other department staff including groundwater section, Waste and Materials Management and Remediation and Redevelopment programs, to ensure comprehensive data review and analysis.
- A3. Provide a high level of interpretation and evaluation of exceedances of drinking water standards for private wells.
- A4. Lead reviews of proposed projects that received Well Compensation grant funding through ARPA, to determine if they are technically acceptable and sufficient to remediate the contamination.
- A5. Lead reviews of proposed projects to determine compliance with code requirements and well compensation award conditions.

30% B. Policy, Guidance and Technical Criteria

- B1. Coordinate and provide information and pre-application assistance to drillers and well owners regarding technical requirements for ARPA funded well compensation grants.

- B2. Serve as a liaison to well drilling industry and department staff regarding ARPA grant requirements. Provide information and outreach including web page content, application materials, presentations, publications and other forms of communication.
- B3. Administer ARPA well grants program through coordination with groundwater section and field staff. Compile and analyze hydrogeologic and water sampling data to support the potential establishment of new Special Well Casing Depth Area (SWCDAs) and revising existing SWCDAs.
- B4. Develop and maintain technical criteria, statewide procedures, and training for consistent hydrogeologic assessment for all ARPA well compensation grants.

5% C. Other Duties as Assigned

- C1. Conduct technical review of specific well construction reports for compliance with administrative code and approval requirements. Follow stepped enforcement process for noncompliance with requirements and make recommendations or corrective actions to gain compliance.
- C2. Perform other duties as assigned by the Section Chief or Bureau Director.

KNOWLEDGE, SKILLS AND ABILITIES:

- 1. Knowledge of hydrogeology (particularly related to Wisconsin), chemistry, groundwater chemistry, geology, bacteriology, public health sanitation and microbiology.
- 2. Knowledge of hydrogeologic and chemical principles controlling the fate and transport of potential contaminants in the environment from man-made or naturally occurring substances.
- 3. Skill in the use of personal computers including word processing, spreadsheets and databases.
- 4. Knowledge of well construction and pump installation methods, principles, and practices.
- 5. Skilled in interpreting and applying statutes and administrative codes related to the drinking water and groundwater program.
- 6. Skilled in interpreting hydrogeologic maps, water sampling results, groundwater flow models, and geologic and monitoring data.
- 7. Skilled in analyzing site-specific and broader scale hydrogeological and well construction issues.
- 8. Ability to communicate effectively, including ability to present complex information clearly and concisely in a variety of formats, and demonstrated written communication skills including technical writing as well as communicating technical and regulatory requirements to diverse audiences.
- 9. Skill in the use of DNR manuals, data management systems (Oracle-based) and GIS (ArcView software).
- 10. Knowledge of process improvement principles and practices.

PHYSICAL REQUIREMENTS & ENVIRONMENTAL FACTORS:

Strength Requirements

Sedentary work (occasional lifting of up to 15 pounds) about 95% over a year's time.

Light work (infrequent lifting of up to 50 pounds) about 5% over a year's time.

Physical

This position will spend a majority of time in an office setting or in meetings. Regular activities include talking, hearing, seeing, handling paper, sitting, and walking. The position will also occasionally spend time standing, carrying, lifting, reaching, climbing, bending at the waist, kneeling, and crouching.

Environmental Factors: The majority of the activities of this position occur primarily inside. This position will occasionally require outdoor field work including carrying light equipment from storage to a vehicle or carrying equipment from a vehicle to an inspection site. There may be situations involving sufficient noise to cause the employee to shout in order to be heard. There may be exposure to hazards near drilling sites such as unstable surfaces (i.e., rocks, silt, mud), moving mechanical parts and/or conditions that affect the respiratory system or skin, such as fumes or odors, that could result in bodily injury.

Equipment Used: Office equipment, GPS/navigation equipment, monitoring and sampling devices, electronic equipment/radios, and motorized vehicles. The position is occasionally required to travel statewide; therefore, they must have the ability to travel to locations throughout the state.

Telework Evaluation: Telework may be available for this position.