

DESCRIPTION: Under immediate supervision, performs journey level work conducting technical evaluations of the quality and quantity of groundwater available for domestic use and for informing those responsible for the regulation, development and management of the groundwater resource; provides instruction on less complex matters pertaining to groundwater geology; performs related work as required.

DISTINGUISHING CHARACTERISTICS: (A position is assigned to this class based on the scope and level of work performed as outlined below.)

This is the first classification level of two in the professional Geologist/Groundwater series. Positions at this level are assigned specific tasks or portions of a project based on the complexity of the work and the level of experience, training and proficiency possessed by the incumbents. Typically the incumbent has little or no practical experience at entry level. Positions may be assigned to one or more of a variety of work functions based on acquired knowledge and ability. Positions in this classification typically advance to the second level classification after gaining sufficient experience to perform related tasks of all complexities independently.

At the second level professional Geologist/Groundwater II classification level, incumbents are expected to perform a variety of tasks on more technically complex projects and assignments. Work is performed at this level with greater independence.

EXAMPLES OF WORK: (A position may not be assigned all the duties listed, nor do these examples include all the duties that may be assigned.)

Collects and analyzes groundwater samples to study, interpret and evaluate environmental data.

Participates with the technical reviews of contamination assessments, cleanups and remedial action plans to determine need for and level of groundwater monitoring; conducts reviews of less complex assessments independently.

Under general supervision, assists with presenting results of technical reviews using visual interpretive depictions of environmental data and letters, reports or maps.

Reviews less difficult permit applications and groundwater monitoring plans to determine potential environmental impact. Provides assistance to others regarding complex permit applications and groundwater monitoring plans.

Conducts groundwater monitoring inspections of facilities and, under general supervision, assists in writing groundwater monitoring and corrective action plans or evaluations.

Under general guidance, reviews available geological, hydrological, and chemical data for the purpose of advising owners of existing and proposed public water supply systems of the safety and reliability of the groundwater source and the efficiency of well installations.

Participates in the performance of statistical and data analysis to identify groundwater quality and potential contamination sources; conducts such analysis independently for less complicated sources

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Establishes contacts and maintains liaison with the University of Nebraska's Conservation and Survey Division and the well drilling industry relative to implementation of the Nebraska Safe Drinking Water Act.

Participates in assembling and maintaining a historical record of the groundwater withdrawal practices carried out by cities and villages.

Under general guidance, evaluates and assists in the establishment of parameters associated with well design.

Investigates the geological aspects of water well failures and participates in the establishment of design criteria assuring greater reliability for future installations.

Advises owners on the proper methods to be used in the abandonment of wells; enlists the guidance of Geologist/Groundwater II's for complex or unusual circumstances.

KNOWLEDGE, SKILLS AND ABILITIES REQUIRED: (These are needed to perform the work assigned.)

Knowledge of: the principles and practices of hydrology and groundwater geology; the principles and practices of geology and the storage and movement of groundwater as influenced by geological phenomenon; cause and effect of contamination in groundwater; governmental and private sources of information relating to water in the environment; drilling and construction techniques involved in the withdrawal of groundwater; statistics, arithmetic and their applications; practical application of engineering science and technology; principles and methods for describing features of land masses including physical characteristics and distribution of plant, animal and human life.

Skill in: communicating with individuals and groups with varying technical backgrounds to collect and relay information; listening to and understanding others; prioritizing workloads; using analytical judgment to make decisions; public speaking and providing presentations.

Ability to: learn and identify the State of Nebraska's geology and groundwater resources; learn and apply local, State and federal groundwater laws, regulations and standards; learn, apply and uphold agency policies and procedures; establish and maintain effective working relationships with individuals in order to obtain their cooperation in the selection of water supply sources and methods of withdrawal; gain the knowledge and experience necessary to assume a major role as an agency representative in statewide water management efforts; read and interpret topographic and geologic maps; organize, analyze and interpret data to draw conclusions and write reports; use computers and other tools for data storage and analysis; work outside in varying elements and terrains..

MINIMUM QUALIFICATIONS: (Applicants will be screened for possession of these qualifications. Applicants who need accommodation in the selection process should request this in advance.)

Bachelor of Science Degree in geology, the physical sciences, geography, environmental science, soil science, civil engineering, environmental engineering or a related field consistent with the duties of the position.

SPECIAL NOTES:

Some positions in this class may require an applicant to possess a current professional license / degree / certificate within a professional field prior to appointment to the class.

Positions in this class may require an employee to possess a valid driver's license or the ability to provide independent authorized transportation, in order to perform work-related travel.

Regular day travel within the state required; overnight travel on occasion. It may be necessary to work irregular hours to accomplish work tasks.

State agencies are responsible to evaluate each of their positions to determine their individual overtime eligibility status as required by the Fair Labor Standards Act (FLSA).