



Hydrogeologist I/II

Class Code:
436,437

DEFINITION

Under supervision, performs a variety of technical and administrative tasks related to the management and protection of groundwater resources; coordinates groundwater monitoring and protection activities with engineering staff; may exercise technical and functional oversight over engineering support staff; and performs other related work as required.

DISTINGUISHING CHARACTERISTICS

Hydrogeologist I is the entry-level in the Hydrogeologist series. Under close to general supervision within a framework of established policies and procedures, incumbents perform a variety of technical and administrative tasks of limited difficulty. Assignments are given in specific terms and are subject to frequent review while in progress and upon completion, except where tasks are well defined by established standards, policies and procedures. Assignments may cover the entire field of hydrogeology and other technical disciplines. There is limited latitude for independent judgment.

This class is distinguished from the journey-level Hydrogeologist II class by the routine nature and limited complexity of work assignments and the level of supervision received. Upon recommendation of the immediate supervisor and approval by the department manager, incumbents in this class may advance to the Hydrogeologist II classification after gaining experience and achieving proficiency that meets the Hydrogeologist II experience requirements.

Hydrogeologist II is the experienced, journey-level, in the Hydrogeologist series. Under general supervision within a framework of established policies and procedures, incumbents perform the full range of technical and administrative tasks of moderate to advanced difficulty. Assignments are given in general terms and are subject to periodic review while in progress and upon completion. Assignments may cover the entire field of hydrogeology and other technical disciplines. There is some latitude for independent judgment and action in well-defined areas of work.

This class is distinguished from the entry-level Hydrogeologist I class by the increased complexity of work assignments and level of independence with which assignments are performed and the decreased level of supervision received. This class is distinguished from the Groundwater Resources Manager class which has responsibility for the planning, organization and management of District groundwater resource programs and well ordinance administration activities.

Incumbents report to the Groundwater Resources Manager in the Engineering Department.

TYPICAL DUTIES

TYPICAL EXAMPLES OF DUTIES MAY INCLUDE BUT ARE NOT LIMITED TO THE FOLLOWING:

- Oversees the investigation and cleanup at Leaking Underground Fuel Tank (LUFT) and other Spills, Leaks, Investigation, and Cleanup (SLIC) sites in conformance with local, regional, and state guidelines.

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- Prepares letters to other agencies and owners of LUFT and SLIC sites outlining recommendations for hydro-geologic investigation and remediation of contaminated soil and groundwater.
- Coordinates investigation and cleanup oversight and District project activities with other federal, state, and local agencies.
- Manages well construction projects; oversees the work of drilling; produces lithologic logs of boreholes; reviews consultant and contractor proposals and reports for conformity with guidelines, industry standards and specifications; administers contracts; monitors costs; prepares change orders; and reviews progress payments.
- Administers the groundwater basin monitoring programs; evaluates monitoring of wells in each program; analyzes field data; oversees data entry and preparation of contour diagrams; and produces technical reports and analyses of findings and recommendations.
- Coordinates the selection and maintenance of specialized field equipment used in support of groundwater resources programs.
- Interprets hydrogeologic data compiled from chemical and physical tests made on soil or groundwater samples in the field or laboratory.
- Provides instructions to support staff that produce drawings, maps and charts; checks finished drawings for accuracy and conformance with design requirements.
- Coordinates preparation of summary reports and an annual comprehensive report on groundwater basin monitoring activities conducted by the District.
- Prepares and evaluates geologic cross-sections of the groundwater basin in support of groundwater management, monitoring and protection programs.
- Provides technical assistance and consultation to District staff and the public, relative to hydrogeologic aspects of groundwater management, monitoring, and protection activities.
- Performs other related work as required.

REQUIREMENTS

Any combination of education and experience that would likely provide the required knowledge, skills, and abilities is qualifying. A typical way to obtain the knowledge, skills, and abilities would be the equivalent of:

Education and Experience:

Possession of a Bachelor's degree from an accredited college or university with a major in geology, hydrogeology, or a related field, and

Hydrogeologist I: No work experience is required.

Hydrogeologist II: Two (2) years, within the past ten years, of full time experience in

hydrogeology, groundwater investigation and cleanup and/or groundwater basin management activities (e.g., well construction, saltwater intrusion, and groundwater monitoring) gained after obtaining a bachelor's degree as described above.

Knowledge, Skills and Abilities:

Knowledge of: Geologic principles and practices; application of geologic, hydro-geological and geochemical methods to the sub-surface of the earth; subsurface exploration and sampling procedures; design and construction of wells; well rehabilitation techniques; testing methods for wells and aquifers; contract administration procedures.

Skill and Ability to: Interpret the results of field testing and geological and hydro-geological studies; gather and analyze data; evaluate alternative courses of action and recommend reasoned solutions; complete long-range water resource planning work; monitor and oversee the work of consultants and contractors; use a personal computer for a variety of technical applications; utilize word processing, spreadsheet, contouring, geographical information systems and database software applications; learn to effectively utilized specialized software applications as required to support the work of the division; maintain accurate records and prepare a variety of memos, letters and technical reports and specifications that are clear and concise; understand, interpret and apply relevant laws and regulations; communicate effectively both orally and in writing to technical and non-technical persons; establish and maintain effective working relationships with those contacted in the course of the work; and perform the essential functions of the job without causing harm to self or others.

Additional Requirements:

- Must possess a valid California driver's license and have a satisfactory driving record.

Working Conditions/Physical Requirements:

The essential functions of the job require the ability to sit for extended periods of time when performing office tasks; intermittently twist to reach equipment or supplies surrounding desk; reach above or below shoulder height; perform simple grasping and fine manipulation; finger dexterity to operate a computer and other office equipment; speak and hear in person and on the phone and to communicate orally in one-to-one and group settings; see sufficiently to perform assignments; periodically drive a vehicle from site to site; traverse uneven terrain, stand for long periods of time; climb, bend and/or crawl to conduct inspections under a variety of climatic and geographic conditions in a field environment with potential exposure to loud noise, chemicals, fumes and other environmental substances; and frequently lift and/or carry objects weighing up to 25 pounds and occasionally up to 55 pounds.

Revised: 07/15

Approved: 
Human Resources/Risk Manager

