

NEW JERSEY
WATER SUPPLY AUTHORITY

_NJWSA
Approval

_6/30/1999
Date

JOB DESCRIPTION

Title: WATERSHED PROTECTION SPECIALIST WSA

DEFINITION

Performs professional work of above average difficulty, requiring the frequent use of independent judgment. Such work includes the study/analysis and reporting of watershed conditions and assists in the development of watershed management/protection programs. Responsibilities will also include: the characterization and assessment of watersheds, watershed management areas and river basins; the negotiation and development of watershed management approaches and plans; the development and implementation of evaluation methods for the execution of watershed management plans; public education, outreach and involvement regarding watershed management issues; and cooperative efforts with interested parties in the implementation of watershed protection activities. May be required to perform the duties of the job outside of normal work hours, as needed or as directed. Performs related work as required.

EXAMPLES OF WORK

Develops and assists: in the development of watershed characterizations including both status and trends information; in the development of watershed assessments including comparison of watershed status and trends to available standards or thresholds, and assessment of significant causes for the watershed status and trends;

Prepares water resource management plans at the site specific subwatershed, watershed, watershed management area and river basin scale to address substantive resource issues identified through a watershed planning process.

Plans, designs, and conducts water resource field studies, surveys and land use analyses. Collects and analyzes water resource data, and prepares clear, technically sound, accurate, informative and statistical reports containing findings, conclusions and recommendations; and prepares official correspondence regarding such reports.

Participates in public information and involvement activities, conferences and meetings with appropriate individuals, and groups of officials interested in or responsible for water resource activities. May serve as NJWSA representative on advisory committees or other similar bodies.

Selects, uses, maintains and coordinates repair of equipment utilized in water resource data collection and management.

Maintains essential records, reports and files. May be required to learn to utilize various types of electronic and manual recording and information systems used by the NJWSA and cooperating agencies.

Performs water data management activities including the entry and retrieval of information in STORET.

Develops and operates basic water models. Prepares work plans for water planning activities, and reviews water resource reports and projects. Collects water samples and aquatic specimens as required, and transports them to assigned laboratories for analysis. Develops site-specific, subwatershed and watershed action plans and coordinates implementation of such plans to remedy or prevent water resource impairment.

REQUIREMENTS

Education and Experience: Graduation from an accredited college with a Bachelor's degree in environmental science, soil science, ecology, water resource management, forestry, chemistry, hydrology, geology, biology, zoology, environmental planning or other field of science or planning related to watershed or water resource management; or a Bachelor's degree in civil, environmental, agricultural or sanitary engineering, or field of engineering related to watershed or water resource management. NOTE: A Master's degree with specialization in one of the disciplines indicated above may be substituted for the required experience and possession of a valid Professional Engineer's license by the New Jersey State Board of Professional Engineers and Land Surveyors may be substituted for the Bachelor's degree in engineering. Additionally, a minimum of two years of professional experience in watershed management or water resource management, including water quality control, water quality analysis, environmental impacts analysis, water supply control, or two years of professional experience in the environmental aspects of watershed or water resources planning; or two years of professional experience in the field of environmental engineering or environmental planning related to water resources.

Licenses: Must possess a valid motor vehicle operator's license.

Knowledge & Abilities: Considerable knowledge of the principles, methods and procedures necessary to provide adequate supply and quality control of water resources; the principles, methods and procedures used in the assessment of water quality status, trends and pollutant sources; the principles, methods and procedures used in the development of watershed management and protection plans and projects; public education and public involvement principles, methods and procedures; land use management techniques for the protection of water quality, water quantity and aquatic ecosystems; database and current word processing software for personal computers

Basic Knowledge Of: the principles of surface and ground water hydrology; the principles and methods of environmental impact analysis; the principles and methods of cartographic and geographic information system mapping and data management procedures; demographic analysis and assessment techniques; the technology for treating potable water supplies and sanitary wastewater effluent

Ability to meet and work very effectively with the general public, elected officials and other government agencies in matters related to water resource and watershed management and planning; understand, analyze, interpret and apply the laws and regulations of the State of New Jersey, county and local governments, and the Federal Government pertaining to water resources control, environmental impact analysis, water supply, water quality and land use management; acquire considerable knowledge of the surface and subsurface waters of the State, including water yield and water quality consideration, and the social and economic issues incidental to the development, allocation and conservation of these water resources; analyze problems, conduct studies, organize assigned work, develop effective work methods, and prepare clear, concise and effective reports thereon including conclusions and recommendations; learn to utilize various types of electronic and manual recording and information systems used by the authority; perform all assignments safely by following job safe procedures and Authority Safety Policies and Procedures and commonly accepted safety practices, and by utilizing appropriate protective apparel and/or safety equipment, as needed; read, write, speak, understand, or communicate in English sufficiently to perform the duties of this position. American Sign Language or Braille may also be considered as acceptable forms of communication. Persons with mental or physical disabilities are eligible as long as they can perform the essential functions of the job after reasonable accommodation is made to their known limitations. If the accommodation cannot be made because it would cause the employer undue hardship, such persons may not be eligible.

SALARY RANGE: 23

A Forty (40) Hour, No Limit (NL) position