JOB DESCRIPTION

TITLE: Engineering Technician III  SECTION: 21 Water Resources

DEPARTMENT: Engineering  SRN: 37

REPORTING RELATIONSHIP:

Reports to: Water Quality Specialist

Supervises the following: N/A

DEFINITION: Under general direction, performs technical engineering work related to gathering, summarizing, evaluating and reporting water resources data and implementing water resources programs related to water supply and water quality in the fields of irrigation, domestic water, sanitation and stormwater.

ESSENTIAL FUNCTIONS:

1. Review, research and evaluate proposed water quality regulations and prepare reports for water quality specialist.

2. Under the direction of the water quality specialist, prepare sample schedules, delegate assignments to, and coordinate the work of engineering aides and technicians I & II.

3. Interpret water quality data and prepare technical reports and correspondences in response to requests from regulatory agencies, consultants and the public.

4. Perform special studies related to water resources as assigned.

5. Attend meetings related to water resources as a district representative and prepare meeting summaries and evaluations for water quality specialist.

6. Implement water resources monitoring programs with a minimum amount of supervision.

7. Review, summarize and analyze complex chemical, biological and radiological water quality data.

8. Allied functions related to regulatory compliance, monitoring, analysis and reporting for water quality and water supply issues in the fields of sanitation, domestic water, irrigation and stormwater.
MINIMUM QUALIFICATIONS:

License or Certificate: Valid Vehicle Operator’s License issued by the state Department of Motor Vehicles. Department of Motor Vehicles driving record may influence employment or classification.

Experience: Any combination of training and experience, which would likely provide the required knowledge and abilities, is qualifying. A typical way would be to have three years of experience as an engineering technician II working with water quality, laboratory and regulatory issues in an irrigation, domestic water, sanitation and stormwater or similar environment.

Education: Typically, the successful candidate will have completed significant college level coursework in biology, chemistry, engineering or environmental science. A Bachelor of Science Degree in Environmental Science, Chemistry, Biology or a related field from an accredited college or university is preferred.

Knowledge of:
- District rules and regulations.
- Location of district facilities and how these facilities operate within systems.
- Methods of collecting, preserving and documenting water quality samples.
- Methods of stream flow measurements and water level monitoring.
- Computer program concepts, spreadsheets and databases as they relate to data management, record keeping, data evaluations and reports.
- General knowledge of the processes involved with irrigation, domestic water, sanitation and stormwater engineering.
- Principles of chemistry and chemical safety related to water quality testing.
- Principles of statistics related to data summaries and evaluations.
- Water quality standards, permits and environmental regulations related to the fields of irrigation, domestic water, sanitation and stormwater.
- Environmental regulations such as the Clean Water Act, the Clean Air Act and the Safe Drinking Water Act.
- California laws and regulations pertaining to public drinking water systems and sewage collection, treatment, reuse and disposal.
- Laboratory analytical methods, instruments and procedures used for water quality testing in the fields of irrigation, domestic water, sanitation and stormwater.
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Abilities:
- Make accurate mathematical calculations.
- Follow written and oral instructions and directions.
- Understand technical water quality and water supply data.
- Organize water quality and water supply data from multiple sources into accurate reports.
- Work cooperatively with others.
- Communicate effectively verbally and in writing.
- Summarize and evaluate statistical water resources data.
- Use personal computer applications and Internet services to summarize and evaluate water quality data and research water resources issues.
- Review complex technical regulations and reduce these regulations to their effect on district interests.
- Possess technical writing skills as required for the preparation of environmental compliance reports and correspondence.
- Evaluate complex chemical, biological and radiological regulations, reports and manuscripts.

PHYSICAL REQUIREMENTS:

1. Drives district vehicle to job sites including over rough terrain.
2. May work in extreme weather conditions including heat and rain.
3. Uses telephone and two-way radio to communicate.
4. Uses personal computer, keyboard, mouse and monitor for long periods.

See Human Resources for physical assessment form.