

Class Title: Water Chemist

BRIEF DESCRIPTION OF THE CLASSIFICATION:

Ensures water provided to all customers meets or exceeds state and federal regulations. Provides customer service to the citizens regarding water quality. Collects, tests and analyses water samples in the water treatment process. Supports various city agencies and divisions as required. Maintains various laboratory operations.

ESSENTIAL FUNCTIONS:

This information is intended to be descriptive of the key responsibilities of the classification. The following examples do not identify all duties performed by any single incumbent. Specific requirements of individual positions are described in the Job Description.

Physical Strength Code		ESSENTIAL FUNCTIONS
1	M	Generates data through sample analysis by maintaining instruments, establishing written \"standard operating procedure\" manuals, preparing various monthly and quarterly reports, evaluating data from plant operation, raw water, and distribution system, and calibrating all chemical feeders for plants to ensure accurate chemical dosages in water treatment.
2	H	Supports various divisions including water production, distribution by calibrating and maintaining operators' lab equipment, preparing monthly reports, cross-training operators, troubleshooting treatment problems, determining chemical dosages, analyzing samples, preparing sample sites, and maintaining auto samplers.
3	H	Collects water samples at various stages of treatment process and in the water distribution system.
4	L	Provides customer service to other departments, municipalities, and area residents by tracking complaints by computer, offering solutions to issues, and locating resolutions to various problems.
5	M	Performs necessary quality control to maintain laboratory certification by purchasing lab supplies and equipment, maintaining hazardous waste and chemical hygiene programs, participating in safety programs, preparing and stocking reagents and supplies for operators' labs, and making graphs and charts for operators.
6	M	Participates in special projects by maintaining equipment, completing data entry, preparing samples, and conducting analyses.

CSC Adopted: October 2001, CSC Revised: November 2018

CLASS REQUIREMENTS:

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Formal Education / Knowledge	Work requires broad knowledge in a general professional or technical field. Knowledge is normally acquired through four years of college resulting in a Bachelor's degree or equivalent.
Experience	Six months of laboratory experience.
Certifications and Other Requirements	Valid Driver's License
Reading	Work requires the ability to read technical journals, federal regulations, manuals, letters, memorandum, and general correspondence.
Math	Work requires the ability to perform general math calculations such as addition, subtraction, multiplication and division, as well as some statistical and algebraic calculations.
Writing	Work requires the ability to write letters, technical reports, standard operating procedures, memorandum, and general correspondence.
Managerial	Managerial responsibilities include regulating sample collection, managing supply inventory, and scheduling special research projects.
Budget Responsibility	N/A
Supervisory / Organizational Control	Job has no responsibility for the direction or supervision of others.
Complexity	Work is governed by broad instructions, objectives, and policies. Work requires the exercise of considerable initiative and independent analytical and evaluative judgment.
Interpersonal / Human Relations Skills	Contacts others within the organization. These contacts may involve similar work units or departments within the City which may be involved in decision making or providing approval for purchases or projects. Works with individuals outside the City who may belong to professional or peer organizations. Working with various state and federal agencies may also be required. Vendors and suppliers may also be called upon for information on purchases, supplies or products. Meetings and discussions may be conducted with customers, brokers and sales representatives.

CSC Adopted: October 2001, CSC Revised: November 2018

OVERALL PHYSICAL STRENGTH DEMANDS:

Sedentary	Light	Medium X	Heavy	Very Heavy
S = Sedentary Exerting up to 10 lbs. occasionally or negligible weights frequently; sitting most of the time	L = Light Exerting up to 20 lbs. occasionally, 10 lbs. frequently, or negligible amounts constantly OR requires walking or standing to a significant degree.	M = Medium Exerting 20-50 lbs. occasionally, 10-25 lbs. frequently, or up to 10 lbs. constantly.	H = Heavy Exerting 50-100 lbs. occasionally, 25-50 lbs. frequently, or up to 10-20 lbs. constantly.	VH = Very Heavy Exerting over 100 lbs. occasionally, 50-100 lbs. frequently, or up to 20-50 lbs. constantly.

PHYSICAL DEMANDS:

C = Continuously 2/3 or more of the time.	F = Frequently From 1/3 to 2/3 of the time.	O = Occasionally Up to 1/3 of the time.	R = Rarely Less than 1 hour per week.	N = Never Never occurs.
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This is a description of the way the job is currently performed; it does not address the potential for accommodation.

PHYSICAL DEMANDS	FREQUENCY CODE	DESCRIPTION
Standing	F	Performing tests, collecting samples
Sitting	F	Computer, desk work, driving
Walking	F	Collecting samples
Lifting	O	Laboratory equipment, samples
Carrying	O	Laboratory equipment, samples
Pushing/Pulling	O	Gas tanks, equipment
Reaching	F	Laboratory equipment, samples
Handling	F	Laboratory equipment, samples
Fine Dexterity	F	Computer keyboard, writing, calculator, working with laboratory equipment
Kneeling	O	Collecting samples
Crouching	R	Collecting samples
Crawling	R	Collecting samples
Bending	F	Collecting samples
Twisting	O	Collecting samples
Climbing	R	Stairs, collecting samples
Balancing	R	On stairs
Vision	C	Collecting samples, performing tests, computer, desk work, driving
Hearing	C	Communicating with personnel and general public, on the telephone
Talking	F	Communicating with personnel and general public, on the telephone
Foot Controls	O	Driving
Other (specify)	N	

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MACHINES, TOOLS, EQUIPMENT, AND WORK AIDS:

pH meter, ISE meter, turbidimeter, balances, Lachat, AE autoanalyzer, spectrophotometer, colorimeter, burette, Ion chromatographs, distillers, deionization units, autoclaves, various analyzers, general office supplies, copy machine, fax machine, computer and related software, printers, gas chromatographs, atomic absorption instrumentation

ENVIRONMENTAL FACTORS:

D = Daily	W = Several Times Per Week	M = Several Times Per Month	S = Seasonally	N = Never
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HEALTH AND SAFETY		ENVIRONMENTAL FACTORS	
Mechanical Hazards	M	Dirt and Dust	M
Chemical Hazards	D	Extreme Temperatures	M
Electrical Hazards	S	Noise and Vibration	D
Fire Hazards	D	Fumes and Odors	D
Explosives	M	Wetness/Humidity	W
Communicable Diseases	D	Darkness or Poor Lighting	N
Physical Danger or Abuse	M		
Other (see 1 below)	N		

PRIMARY WORK LOCATION	
Office Environment	--
Warehouse	--
Shop	--
Vehicle	--
Outdoors	--
Other (see 2 below)	X

- (1)
- (2) Laboratory

PROTECTIVE EQUIPMENT REQUIRED:

Goggles, respirator, gloves, hearing protection, lab coat, hard hat

NON-PHYSICAL DEMANDS:

C = Continuously 2/3 or more of the time.	F = Frequently From 1/3 to 2/3 of the time.	O = Occasionally Up to 1/3 of the time.	R = Rarely Less than 1 hour per week.	N = Never Never occurs.
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NON-PHYSICAL DEMANDS	
Time Pressures	O
Emergency Situations	R
Frequent Change of Tasks	F
Irregular Work Schedule/Overtime	O
Performing Multiple Tasks Simultaneously	F
Working Closely with Others as Part of a Team	F
Tedious or Exacting Work	F
Noisy/Distracting Environment	F
Other (see 3 below)	N

- (3)