

JOB TITLE: Wastewater Treatment Operator  
EMPLOYEE:  
VRC: Kyle Pletz

DOT #: 955.362-010  
CLAIM #



**King County**

## **KING COUNTY ON SITE JOB ANALYSIS**

**JOB TITLE** Wastewater Treatment Operator

**JOB CLASSIFICATION** Wastewater Treatment Operator

**DOT TITLE** Wastewater-Treatment-Plant Operator (sanitary ser.)

**DOT NUMBER** 955.362-010

**DEPARTMENT** Natural Resources and Parks

**DIVISION** Wastewater Treatment

**# OF POSITIONS IN THE DEPARTMENT WITH THIS JOB TITLE** 30

**JOB STATUS**

Full Time, Career Service.

**ADDRESS OF WORKSITE**

1200 Monster Road  
Renton, WA 98055

**CONTACT'S NAME** Mike Wohlfert, Assistant Plant Manager

**CONTACT'S PHONE** (206) 263-1831

**EMPLOYER JOB TITLE** Wastewater Supervisor

**DATE COMPLETED** 5/9/02

**VRC NAME** Jeff Casem

**DATE REVISED** 08/24/09, 09/15/2016

**WORK HOURS**

Various shifts, 10 hours per day, 4 days per week, Monday through Thursday.

**OVERTIME**

Required on a rare occasion. Fair Labor Standards Act Non-Exempt (hourly).

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### **JOB DESCRIPTION**

Operates and monitors wastewater treatment and odor control equipment, systems and processes in a wastewater treatment facility and/or collection system and conveyance system.

### **ESSENTIAL ABILITIES FOR ALL KING COUNTY JOB CLASSIFICATIONS**

1. Ability to demonstrate predictable, reliable, and timely attendance.
2. Ability to follow written and verbal directions and to complete assigned tasks on schedule.
3. Ability to read, write & communicate in English and understand basic math.
4. Ability to learn from directions, observations, and mistakes, and apply procedures using good judgement.
5. Ability to work independently or part of a team; ability to interact appropriately with others.
6. Ability to work with supervision, receiving instructions/feedback, coaching/counseling and/or action/discipline.

### **JOB SPECIFIC REQUIREMENTS**

Must possess a current wastewater certification group 1, a valid Washington State Driver's License, and a confined space certification. Employee must have 2 years of experience in wastewater treatment.

### **ESSENTIAL FUNCTIONS Listed in order of importance**

1. Operates, monitors and maintains wastewater treatment and odor control equipment as well as biological, chemical, mechanical and hydraulic processes.
2. Provides broad, in-depth on-the-job training to other wastewater operations staff.
3. Provides expert troubleshooting, problem solving and decision-making when performing duties particularly in unusual on-site and/or emergency situations.
4. Performs on-site response to unusual occurrences and emergencies.
5. Plans, schedules, coordinates and performs maintenance on wastewater facilities, process control, maintenance, facilities services, off-site facilities services and other crews to exchange information on wastewater operations, maintenance and processes.
6. Communicates with the general public, construction personnel, consultants and engineers to resolve complaints and serves as technical resource.
7. Performs the duties of the Wastewater Treatment Utility Worker as needed.

### **NON-ESSENTIAL FUNCTIONS**

1. Composes written manuals.
2. Answers telephones.
3. Septage.

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### **TOOLS, MACHINES, EQUIPMENT, PRODUCTS, AND SERVICES USED**

Forklift, motorized cart (similar to golf cart), dump truck, vacuum truck, power tools, cranes, hand tools, pumps, blowers, compressors, steam cleaner, pressure washer, self-contained breathing apparatus (SCBA), 2-way radio, shovel and computer.

### **PHYSICAL DEMANDS AS JOB IS TYPICALLY PERFORMED**

Continuously = occurs 66-100% of the time

Frequently = occurs 33-66% of the time

Occasionally = occurs 1-33% of the time

Rare = may occur less than 1% of the time

Never = does not ever occur (such demands are not listed)

### **This job is classified as**

Light per DOT but Medium in this instance.

### **Standing**

Continuously on flat cement and uneven surfaces for up to 1 hour at a time for up to 8 hours total in a work shift. Most commonly occurs while hosing down a tank, monitoring confined space entry, and performing wet well inspections.

### **Walking**

Continuously on flat cement and uneven surfaces for distances up to  $\frac{3}{4}$  mile for up to 10 minutes at a time and up to 8 hours total in a work shift. Most commonly occurs while walking from building to building as well as from one side of the plant to the other when responding to an emergency at the chlorine building.

### **Sitting**

Frequently for up to 2.5 hours at a time for up to 4 hours total in a work shift. Most commonly occurs while working in the control room, driving a County vehicle, monitoring pump stations, operating pumps as well as responding to radio and phone calls.

### **Climbing stairs**

Occasionally for up to 5 minutes at a time while climbing up to 70 steps for up to 1 hour total in a work shift. Most commonly occurs while walking to pumps and bar screens. Employee may need to carry tools while climbing stairs.

### **Climbing**

Occasionally on fixed ladders to heights of 20 feet for up to 5 minutes at a time for up to 30 minutes total in a work shift. Most commonly occurs while climbing in and out of tanks as well and climbing on to a roof to inspect or change a fan belt.

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**Balancing**

Occasionally on fixed ladders to heights of 20 feet for up to 15 minutes at a time for up to 1 hour total in a work shift. Most commonly occurs while cleaning out pumps, replacing pump parts, cleaning samplers and removing clogs from pumps and pipes.

**Bending/Stooping**

Occasionally on flat cement and uneven surfaces for up to 10 minutes at a time for up to 2 hours total in a work shift. Most commonly occurs while cleaning out pumps, replacing pump parts, cleaning samplers and removing clogs from pumps and pipes.

**Kneeling**

Occasionally on flat cement and uneven surfaces for up to 10 minutes at a time for up to 2 hours total in a work shift. Most commonly occurs while cleaning out pumps, replacing pump parts, cleaning samplers and removing clogs from pumps, hoses and pipes.

**Crouching**

Occasionally on flat cement and uneven surfaces for up to 10 minutes at a time for up to 2 hours total in a work shift. Most commonly occurs while cleaning out pumps, replacing pump parts, cleaning samplers and removing clogs from pumps and pipes.

**Crawling**

Rare on flat cement surfaces for distances of up to 15 feet for up to 1 minute at a time for up to 3 minutes total in a work shift. Most commonly occurs while crawling to drain gates that may be leaking as well as when inspecting confined spaces. Employee may use a SCBA when performing these duties.

**Operating Controls with Feet**

Occasionally for up to 1 hour at a time for up to 3 hours total in a work shift while driving county vehicles that may include a vacuum truck, motorized cart, truck or forklift.

**Reaching above shoulder height**

Rare up to 1 minute at a time for up to 5 minutes total in a work shift while holding a rope, ladder or pipe as well as when replacing light bulbs.

**Reaching at waist to shoulder height**

Continuously for up to 3.5 hours at a time for up to 8.5 hours total in a work shift while driving, working on pumps and operating pump controls.

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**Reaching at knee to waist height**

Frequently for up to 2 hours at a time for up to 6 hours total in a work shift while pressure washing and working on pumps.

**Reaching at floor to knee height**

Occasionally for up to 30 minutes at a time for up to 3 hours total in a work shift while working on pumps or cleaning out samplers.

**Lifting 1-10 pounds**

Occasionally for up to 5 minutes at a time for up to 3 hours total in a work shift. Most commonly occurs with weights of 3-5 pounds while using hand tools, replacing filters and using a 2-way radio.

**Carrying 1-10- pounds**

Continuously for distances of up to ¾ mile for up to 3 hours at a time and up to 9 hours total in a work shift. Most commonly occurs with weights of 3 pounds while carrying a 2-way radio at all times.

**Lifting 11-20 pounds**

Occasionally for up to 2 minutes at a time for up to 30 minutes total in a work shift. Most commonly occurs with weights of 13-15 pounds while using power tools as well as moving buckets of grit, sewage and sand.

**Carrying 11-20 pounds**

Occasionally for distances of up to 100 feet up to 5 minutes at a time and up to 1 hour total in a work shift. Most commonly occurs with weights of 13-15 pounds while transporting power tools and toolboxes as well as moving buckets of grit, sewage and sand.

**Lifting 21-50 pounds**

Occasionally for up to 1 minute at a time for up to 1 hour total in a work shift. Most commonly occurs with weights of 30-50 pounds while moving a bucket of sand, sewage or tools.

**Carrying 21-50 pounds**

Occasionally for distances of up to 200 feet for up to 5 minutes at a time for up to 30 minutes total in a work shift. Most commonly occurs with weights of 30-50 pounds while transporting a bucket of sand, sewage or tools.

**Pushing and Pulling**

Rare for distances of 30 feet for up to 30 seconds at a time with a force of 30-50 pounds for up to 2 minutes total in a work shift while moving a cart or dolly loaded with tools.

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**Handling**

Frequently for up to 1 hour at a time for up to 5 hours total in a work shift while using tools and driving.

**Operating Controls with Hands**

Frequently for up to 1 hour at a time for up to 5 hours total in a work shift while using tools, driving, performing digester cleaning, and operating pump controls that may include switches, buttons and dials.

**Fingering**

Occasionally for up to 1 hour at a time for up to 3 hours total in a work shift while pipefitting and manipulating bolts and screws as well as manipulating switches buttons and dials on the switchboard.

**Feeling**

Rare for up to 1 minute at a time for up to 5 minutes total in a work shift while feeling heat or vibration of equipment to identify mechanical failure.

**Talking**

Frequently for up to 30 minutes at a time for up to 5 hours total in a work shift while conversing with co-workers, supervisors and managers as well as giving presentations.

**Hearing**

Continuously for up to 3.5 hours at a time for up to 8.5 hours total in a work shift while identifying safety sirens, listening for mechanical failures and conversing on the telephone and radio.

**Tasting/Smelling**

Continuously for up to 3.5 hours at a time for up to 8.5 hours total in a work shift while smelling for burning motors, sewage leaks, and chlorine leaks.

**Near acuity—clarity of vision at 20 inches or less**

Continuously for up to 1 hour at a time for up to 8 hours total in a work shift while reading dials and gauges in the pump control room.

**Far acuity—clarity of vision at 20 feet or more**

Continuously for up to 3.5 hours at a time for up to 8 hours total in a work shift while driving and identifying potential hazards such as moving machinery.

**Depth perception—three dimensional vision**

Continuously for up to 3.5 hours at a time for up to 8 hours total in a work shift while driving and identifying potential hazards such as moving machinery.

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**Visual accommodation—Adjustment of lens of eye to bring an object into sharp focus**

Occasionally for up to 5 minutes at a time for up to 30 minutes total in a work shift while using a microscope to identify bacteria in samples.

**Color vision—ability to identify and distinguish colors**

Continuously for 3.5 hours at a time for up to 8.5 hours total in a work shift while reading color gauges as well as identifying indicator and emergency lights.

**Field of vision—observing an area that can be seen up and down or right or left while eyes are fixed on a given point**

Continuously for up to 3.5 hours at a time for up to 8 hours total in a work shift while driving and identifying potential hazards such as moving machinery.

**Night vision--seeing after sundown with minimal or no supplemental light sources**

Continuously for up to 3.5 hours at a time for up to 8 hours total in a work shift while working at night or before sunrise.

**TEMPERAMENTS**

Directing, controlling, or planning activities of others: Rare

Performing repetitive or short-cycle work: Occasionally

Performing a variety of duties: Continuously

Working alone or apart in physical isolation from others: Continuously

Working effectively under stress: Frequently-Continuously

Attaining precise set limits, tolerances, and standards: Continuously

Working under specific instructions: Occasionally

Working with others: Continuously

Making judgements and decisions: Frequently

**ENVIRONMENTAL FACTORS**

Work is performed in an industrial wastewater setting where the worker is exposed to or in close proximity to heavy operating machinery, high voltage, sewage, adverse weather conditions, uneven surfaces, cat walks/metal grating, noxious or toxic gasses and chemicals, as well as loud noises. The noise level is quiet to very loud. Hearing protection, eye protection, breathing protection and hard hats are required in some areas.

**Workers are exposed to**

Outside weather: Continuously

Extreme heat: Occasionally

Wet: Continuously

Humidity/dampness: Continuously

Fumes: Continuously

Odors: Continuously

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Dusts: Continuously

Mists: Continuously

Gases: Continuously

Poor ventilation: Occasionally

Moving mechanical parts: Continuously

Vibration: Frequently

Working in high, exposed places: Occasionally

Toxic or caustic chemicals: Continuously

**POTENTIAL MODIFICATIONS TO JOB**

Utilize motorized cart to reduce walking.

\_\_\_\_\_  
Signature & title of evaluator

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature & title of contact

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature & title of employee

\_\_\_\_\_  
Date



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**HEALTH CARE PROVIDER SECTION**

**Check all that apply**

**The employee is released to perform the described duties without restrictions on performance or work hours.**

**The employee is released to perform the described duties on a reduced schedule. The recommended schedule is:**

\_\_\_\_\_

**Temporary until \_\_\_\_\_**       **Permanent as of \_\_\_\_\_**

**The employee is released to perform the described job with the following modifications:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Temporary until \_\_\_\_\_**       **Permanent as of \_\_\_\_\_**

**The employee is not released to perform the described duties due to the following job functions:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Temporary until \_\_\_\_\_**       **Permanent effective \_\_\_\_\_**

**The employee is unable to work in any capacity.**  
**A release to work is:**  **anticipated by \_\_\_\_\_**       **Not expected**

**The limitations are due to the following objective medical findings:**

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
Printed or typed name and phone number of Health Care Provider

\_\_\_\_\_  
Signature of Health Care Provider

\_\_\_\_\_  
Date