



**Disability Services  
Safety and Claims Management**  
 Department of Executive Services  
 Human Resources Management Division  
 P.O. Box 80283  
 Seattle, WA 98108  
 (206) 205-8575  
 (206) 296-0514 FAX

Employee :

Claim # :

## JOB ANALYSIS

Job Title:	Wastewater Treatment Operator I		
Department:	DNRP	Division:	Solid Waste
DOT Title:	Wastewater-Treatment-Plant Attendant	DOT #:	955.585-010
SVP:	4	Requestor:	Jeff Casem
Worksite Address:	Cedar Hills Landfill	Office Contact Name/ Phone/ Email:	Matt McCollum (206) 396-0217 matt.mccollum@kingcounty.gov
Original Analyst:	Kyle Pletz, VRC, CDMS	Analysis Date:	5/14/18
Update Analyst:		Update Date:	

On-Site     Interview     Representative

### JOB DUTIES:

#### ESSENTIAL FUNCTIONS ACCORDING TO THE EMPLOYER:

All King County jobs require ability/essential function to:

- Demonstrate predictable, reliable, and timely attendance.
- Follow written and verbal directions to complete assigned tasks on schedule.
- Read, write, and communicate in English & understand basic math.
- Learn from directions, observations, and mistakes and apply procedures using good judgment.
- Work independently or as part of a team and interact appropriately with others.
- Scientific reasoning; logical inference.

Job Specific Requirements:

1. Operates, monitors and maintains wastewater treatment and odor control equipment as well as biological, chemical, mechanical and hydraulic processes.
2. Provides expert troubleshooting, problem solving and decision-making when performing duties particularly in unusual on-site and/or emergency situations.
3. Performs on-site response to unusual occurrences and emergencies.
4. Plans, schedules, coordinates and performs maintenance on wastewater facilities, septage, process control, maintenance, facilities services, off-site facilities services and other crews to exchange information on wastewater operations, maintenance and processes.
5. Communicates with the general public, construction personnel, consultants and engineers to resolve complaints and serves as technical resource.
6. Maintains multiple facilities including, but not limited to, landfill and pump stations.
7. Performs maintenance and repairs on various equipment, such as pumps.
8. Performs various maintenance and repair duties as needed.



# King County Job Analysis

Job Title : Wastewater Treatment Operator I

Employee :

DOT # : 955.362-010

Claim # :

## EXPERIENCE, QUALIFICATIONS, KNOWLEDGE, SKILLS:

### MINIMUM QUALIFICATIONS:

Valid Washington State Driver's License, and a confined space certification. Employee must have 6 months of experience in the operations of wastewater management.

### Machines, Tools, Special Equipment, Personal Protective Equipment Used:

Forklift, motorized cart (similar to golf cart), dump truck, vacuum truck, power tools, cranes, lawnmower, hand tools, pumps, blowers, compressors, steam cleaner, hoses, 19 monitors, pressure washer, air quality monitors, fall protection, eye protection, ear protection, rain gear, backup batteries, 2-way radio, shovel and computer.

## PHYSICAL REQUIREMENTS

Frequency Scale	Strength	Work Pattern	
<b>N</b> = Never	<input type="checkbox"/> Sedentary	<input checked="" type="checkbox"/> Full-time	
<b>S</b> = Seldom (1-10 %, up to 48 min)	<input type="checkbox"/> Light	<input type="checkbox"/> Part-time	
<b>O</b> = Occasional (11-33%, 49 min. – 2 hr 40 min)	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> Seasonal	
<b>F</b> = Frequent (34-66%, 2 hr 41 min – 5 hr 20 min)	<input type="checkbox"/> Heavy	8-10	Hours Per Day
<b>C</b> = Constant (67-100%, more than 5 hr 20 min)	<input type="checkbox"/> Very Heavy	4-5	Days Per Week
		FLSA Exempt <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	

### Work Pattern (continued)

- Overtime: Optional and unpredictable (response to weather, power outage, mechanical failure etc.)

Job Demand	Frequency and Weight (lbs)					Activity Description
	N	S	O	F	C	
<b>Lifting</b> floor – waist		21-50	11-20	1-10		<p>Up to 2 hrs./time, 4 hrs. total with 10 lbs. while line trimming. A harness is available for use. Also manipulated hand and power tools.</p> <p>Up to 2-3 min./time, 1.5 hr. total with weights of 11-20 lbs. while manipulating 2-6" hoses, tool bags, ½ hp pumps, oil jugs and large pump parts.</p> <p>Up to 50 lbs. up to 30 sec./time for up to 10 min. total while lifting jugs of oil and large hoses. There is a crane available for use on all the trucks.</p>



## King County Job Analysis

Job Title : Wastewater Treatment Operator I

Employee :

DOT # : 955.362-010

Claim # :

Job Demand	Frequency and Weight (lbs)				Activity Description
<b>Lifting</b> waist-shoulder				1-10	Up to 2 hrs./time, 4 hrs. total with 10 lbs. while line trimming. A harness is available for use. Also manipulated hand and power tools.
			11-20		Up to 2-3 min./time, 1.5 hr. total with weights of 11-20 lbs. while manipulating 2-6" hoses, tool bags, ½ hp pumps, oil jugs and large pump parts.
		21-50			Up to 50 lbs. up to 30 sec./time for up to 10 min. total while lifting jugs of oil and large hoses. There is a crane available for use on all the trucks.
<b>Lifting</b> above shoulder		1-10			Up to 30 sec./time, 2 min. total with 1-10 lbs. when accessing items on upper shelves.
<b>Carry</b> (Distance/Surface)				1-10 500'	Up to 2 hrs./time, 4 hrs. total with weights of 1-10 lbs. while line trimming and transporting pump parts, hand tools and power tools.
		11-20 50'			Up to 5 min./time, up to 5-50', 15 min. total with 15-20 lbs. while transporting fuel containers, small hoses, large pump parts etc.
		21-50 50'			Up to 1-2 min./time, 10 min total to carry jug of oil, bucket of chlorine pellets.
<b>Pushing/Pulling</b> (Distance/Surface)			1-50		Up to 30 min./time, with 1-50 lbs. of force, 2 hrs. total while pulling a chain to open/close overhead valves as well as manipulating 2-6" hoses.

Physical Demands	Frequency					Activity Description
	N	S	O	F	C	
Sitting				X		On an office chair or vehicle seat up to 1.5 hr./time, 3 hrs. total while performing computer duties, driving to multiple work locations and performing repairs/maintenance.
Standing				X		On flat, linoleum, metal, wet/slick and cement surfaces for up to 2 hrs./time, 4 hrs. total while performing oil changes at pump stations, line trimming, vactoring, jetting and performing work in wet wells, vaults and storage tanks.
Walking					X	On flat, linoleum metal, wet/slick and cement surfaces for up to 2 hrs./time, 8 hrs. total while using line trimmer, walk behind lawnmower, traversing within/between facilities (pump stations, retention ponds, leachate equalization pond).
Perform Work on Ladders	X					Up to 20 min/time, 40 min total while performing work in wet wells.
Climbing		X				Up to 30 sec./time, 5 min total while climbing stairs and ladders. 4x per year climb 85' water tower.



# King County Job Analysis

Job Title : Wastewater Treatment  
Operator I

Employee :

DOT # : 955.362-010

Claim # :

Physical Demands	Frequency				Activity Description
Balancing				X	Up to 2 hrs./time 8 hrs. On a ladder, wet, slick or metal surfaces; also while mowing and line trimming as well as traversing wells, ponds etc.
Stooping / Bending			X*		On flat linoleum and cement surfaces for up to 15 min./time, 1-2 hours total while changing oil in pumps. *Can reduce bending/stooping by alternating with kneeling/squatting/sitting.
Twisting at Neck			X		Up to 15 min./time, 2 hrs. total while line trimming, performing pump repairs, inspecting pump stations and driving.
Twisting at Waist			X		Up to 15 min./time, 2 hrs. total while line trimming, performing pump repairs and inspecting pump stations.
Squatting / Kneeling			X*		On flat linoleum and cement surfaces for up to 15 min./time, 1-2 hours total while changing oil in pumps. *Can reduce by alternating with bending/stooping/sitting.
Crawling		X			Up to 1 min./time, 5 min. total while traversing in and around wet wells.
Reach waist to shoulder				X	Up to 1.5 hr./time, 6-8 hrs. total while line trimming, mowing, driving and using floor squeegee.
Reach above shoulder		X			Up to 1 min./time, 5 min. total while connecting vector tubes and accessing items/tools on shelves.
Keyboarding		X			Up to 15 min/time, 30 min. total while entering data, composing email and completing timesheets.
Wrist Flexion/Extension				X	Up to 2 hrs./time, 4 hrs. total while line trimming and utilizing hand tools.
Handle/Grasp				X	Up to 2 hrs./time, 6-8 hrs. total while line trimming, mowing, driving and utilizing hand tools.
Forceful Grasp		X			Up to 10 min/time, 45 min. total while handling vector jet hose and utilizing hand/power tools.
Fine Finger Manipulation				X	Up to 10 min./time, 4 hrs. total while threading bolts, performing computer duties, manipulating documents and adjusting equipment (idle, choke, prime etc.).
Hand Controls				X	Up to 2 hrs./time, 4 hrs. total while operating cranes, line trimmer, hand-off auto switches at pump stations, power tools, fall protection crank and driving,
Foot Controls				X	Up to 1.5 hrs./time for up to 3 hrs. total in a work shift while driving an automobile or riding lawnmower.
Repetitive Motion	X				Body Part: Hand Cycles/hr:
Vibratory Tasks – High	X				
Vibratory Tasks – Low					Up to 2 hrs./time, 4 hrs. total while line trimming, mowing, operating a grinder and operating powered hand tools.
Talking			X		Up to 5 min./time, 1 hr. total while conversing with coworkers, superiors and contractors. Maintaining contact when workers are in a well.



## King County Job Analysis

Job Title : Wastewater Treatment  
Operator I

Employee :

DOT # : 955.362-010

Claim # :

Physical Demands	Frequency					Activity Description
	N	S	O	F	C	
Hearing					X	Up to 2 min./time, 8 hrs. total while conversing with coworkers and superiors about work assignments. The employee also utilizes hearing when listening for moving vehicles, warning sirens, backup sirens and various alarms. The work environment includes constant heavy truck and machinery traffic.
Visual – Near Acuity					X	Up to 2.5 hours at a time for up to 8 hours total in a work shift while traversing throughout a landfill, pump stations, retention ponds and wells. Reviews plans, blue prints and wiring diagrams that may be color coded. Reviews various manuals. Continuously identify moving vehicles and equipment.
Visual – Far Acuity					X	
Visual – Depth Perception					X	
Visual – Color Discrimination					X	
Visual – Accommodation					X	
Visual – Field of Vision					X	
Exposure to Weather					X	
Extreme Cold		X				Underground wells. Rare snow.
Extreme Hot		X				Line trimmer and mower engines.
Wet and / or Humidity			X			Hoses, vector trucks.
Proximity to Moving Mechanical Parts					X	The work environment includes constant heavy truck and machinery traffic. Line trimmer and mower.
Exposure to Explosives			X			Flammables, confined space.
Atmospheric Conditions			X			Work is performed at a landfill that has occasional dust.
Exposed Heights		X				Wells, 85' water tank.
Exposure to Electricity		X				Amp (480 amps) reading at pump stations on a monthly basis.
Exposure to Toxic / Caustic Chemicals		X				Work is performed at a landfill. Not all exposures are known.
Exposure to Radiation	X					
Exposure to Fumes		X				Work is performed at a landfill. Not all exposures are known.
Exposure to Odors					X	Work is performed at a landfill.
Exposure to Dusts			X			
Exposure to Mists			X			
Exposure to Gases			X			
Exposure to Vibration			X			
Exposure to Confined Spaces			X			
Noise Intensity	<input type="checkbox"/> Very Quiet <input type="checkbox"/> Quiet <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> Loud <input type="checkbox"/> Very Loud					The noise is caused by trucks and heavy machinery.
Other:					X	Work is performed in an industrial landfill 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. Not all exposures are known.



## King County Job Analysis

Job Title : Wastewater Treatment  
Operator I

Employee :

DOT # : 955.362-010

Claim # :

### Analyst's Comments:

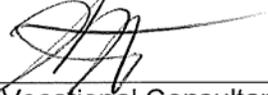
### Possible Employer Modifications:

### Update Comments (*if applicable*):

**Note:** The information for this job analysis was gathered by either on-site observation, interview and / or is representative of the labor market as indicated on page one. Additional data may have been obtained from standardized industry resources such as the DOT, GOE, COJ, OOH, WOIS and O-NET. On occasion, practicality and feasibility prevent the direct observation and/or gathering of objective, quantifiable data. For this reason, a "best estimate" may have been used.

### Analyst:

### Update (if applicable):

  
\_\_\_\_\_  
Vocational Consultant

5/14/18  
\_\_\_\_\_  
Date

\_\_\_\_\_  
Vocational Consultant

\_\_\_\_\_  
Date

### Employer Verification:

### Employee Verification: (optional)

  
\_\_\_\_\_  
Name

5/14/18  
\_\_\_\_\_  
Date

\_\_\_\_\_  
Name

\_\_\_\_\_  
Date



## King County Job Analysis

Job Title : Wastewater Treatment  
Operator I

Employee :

DOT # : 955.362-010

Claim # :

### MEDICAL PROVIDER:

- I agree that the employee can perform the physical activities described in this job analysis and can return to work. Date employee is released to return to work if different from today's date: \_\_\_\_\_
- I agree the employee can perform the described job but only with modifications (describe in comments section). Modifications are needed on a  permanent basis or  temporary basis.
- The employee ***temporarily*** cannot perform this job based on the following physical limitations:

Anticipated release date: \_\_\_\_\_

Treatment plan: \_\_\_\_\_

- The employee is ***permanently*** restricted from performing the physical activities described in this job analysis based on the following physical limitations (state objective medical findings):

### Comments:

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Print Name

- Attending Physician     Consulting Physician     Pain Program Physician
- IME Physican     PCE Therapist     OT / PT Therapist     PEP Physician