



UNC
ENVIRONMENT,
HEALTH & SAFETY

Job Safety Analysis

Safety Information for The University of North Carolina at Chapel Hill

JOB SAFETY ANALYSIS TOPIC:

Manual Flushing Dental Vacuum Tanks

Title	Work Task	Hazards	Controls
Preplan the work	Gather proper tools (collection bucket, hose) Gather Proper PPE for the job and inspect it (safety glasses, gloves, possibly Tyvek suit)	Improper tools Improper PPE inspection/selection	Using improper tools or parts can lead exposure or injury Improper PPE use and inspection can lead to unnecessary hazards created by wrong PPE or faulty PPE
Before the job/Site prep	Don necessary PPE Set up hose for testing solenoid valve Set up bucket before flushing	Improper Donning of PPE Trip Hazard	Improperly donning or not donning PPE can lead to an unnecessary exposure. Ensure all PPE is on correctly and has passed inspection Keep bucket under the collection point Keep hose flat

Title	Work Task	Hazards	Controls
Flush Tank	Open tank bypass valve Close isolation valves (inlet and outlet) of tank to be flushed	Slips, Trips, and Falls Potential Exposure Improper Collection	Keep an eye on the process to avoid having the contaminated water get on the floor. Make sure the hose is secure and there is a collection plan for the contaminated material

	<p>Open breather valve to release the vacuum pressure</p> <p>Open the access hatch on the tank and verify contaminant levels</p> <p>Manually open the tank flush valves/hit the washdown button/or rinse with hose and nozzle until drain pipe is full</p> <p>Close flush valves prior to water level reaching hatch level</p> <p>Open ball valve at base of tank or pump flush water through the access hatch into the contamination drum provided by EHS</p> <p>Repeat flushing as needed</p> <p>Place all water collected in small collection bucket into the large properly labelled collection container</p> <p>EHS will test flush water to determine level of contaminants</p> <p>Properly mark waste for disposal and contact EHS for pick up</p>	<p>Improper Storage and labeling</p>	<p>Contact the UNC Hazardous Materials Manager (919-962-5509) to obtain the properly labelled container with date and fill out a hazardous waste pick up form found here: https://ehs.cloudsapps.unc.edu/HazMat_Pickup/</p> <p>Once storage of material starts the container must be picked up within one year, even if the container is not at capacity.</p>

<p>Clean Up</p>	<p>Close and secure access hatch</p> <p>Close breather valve to tank</p> <p>Open the tank inlet and outlet valves</p> <p>Close the tank bypass valves</p> <p>Unhook hose, roll up, and take back to store properly</p> <p>Doff PPE</p> <p>Store PPE</p>	<p>Trip Hazards</p> <p>Improper Doffing</p> <p>Improper PPE Storage</p>	<p>Proper housekeeping will help keep the threat of trip hazard down from unsuspecting ME room users and storing properly will increase the life of the hose</p> <p>Improper doffing can lead to exposure hazards if the employee comes in contact with certain materials</p> <p>Improper PPE storage can lead to a shorter PPE life span or PPE that is not as effective in the future</p>
<p>Training</p>	<p>Employees must have hands on training in the proper use of this piece of equipment.</p>	<p>Supervisor is to fill out the turn in the form to UNC-CH ‘Supervisor Led Training Form’ and Environment, Health and Safety for documentation of proper training</p>	
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<p>Referenced Material</p>			

Contact Info

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