Chemical Hygiene Plan – Appendix C Four Corners Laboratory Task Risk Analysis

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1 Dry Screening (RO-TAP)

		Dept/Area: Four Cor	ners Quality Control Lab	
RA No: FC	C-01		Reviewed by: Joseph Patacca	Date: 1/14/2025
Task: Dry Screening (RO-TAP)		Approved by: W. Priscilla Williams	Date: 1/30/2025	
Step	Task Steps	Potential Hazards	Controls	
1	Determining which screens to be used.	Possible pinch points. Lacerations to fingers from damaged screens.	Visually inspect screens prior to use. Replace/repair screens with both hands from the center of the side Avoid pressing down on the screen when stacking.	
2	Opening and closing the sound enclosure lid.	Bodily injury. Lid may close with a minimum of applied force when gas springs are not fully extended.	Use the attached handle when raising and lowering the sound enclosure lid. Keep hands, head, and rest of body out of the line of fire.	
3	Adjust RO-Tap for screen stack size.	Possible pinch points. Securing bar may fall.	When adjusting the RO-Tap, make sure securing bar is in a resting position before putting hands in the line of fire. Raise and lower securing bar carefully.	
4	Place sample in screen stack.	Possible laceration/scratch to skin. Wrist and arm strains.	Slowly pour sample onto screen to minimize bouncing/spillage of sample. Use 2 hands to pour heavy loads and/or a stool to reduce overextending arms.	
5	Placing and removing screens from the shakers.	Possible pinch points. Hearing loss/ ear damage.	Avoid placing fingers in potential pinch points between screens and screen hold. Stay alert when working with RO-Taps. Close noise reduction box while shaking.	
6	Separating screens.	Wrist and arm strain.	Use the designated tool to separate screens that do not easily come apart.	



2 Waste Disposal

		Dept/Area: Four Co	rners Quality Control Lab		
TRA No: FC-02		Reviewed by: Joseph Patacca	Date: 1/14/2025		
Task: Waste Disposal		Approved by: W. Priscilla Williams	Date: 1/30/2025		
Step	Task Steps	Potential Hazards	Controls		
1	Dumping ground and unground samples down drain into sump.	Slip hazard if drain or sump backs up. Do not put too much feed down drain at one time. Do not put too large pebbles down drain.			
			Have sump dug out once a week with a Bobcat by the	by the plant.	
after analysis.		Laceration from broken tubes. Skin irritation	Wear cut resistant gloves. Don't let the bag rub against your body when carryin Wear nitrile gloves. Wash hands after handling waste.		
		Back strain	Dispose of waste daily to decrease the load. Ask for loads.	r help or use a cart for heavy	
3	Dumping liquid samples into flask washer	d samples into Eye irritation Slowly pour flasks onto jets to reduce splashing. Make sure all jets are covered production to turning on washer. Wear safety glasses or goggles. Skin irritation Wear nitrile gloves and lab coat. Cuts to hand Do not spin flasks once placed on jet. Spinning flasks could cause damage.			



3 Truck Use

		Dept/Area: Four	Corners Quality Control Lab	
Γ RA No: FC	C-03		Reviewed by: Joseph Patacca	Date: 1/14/2025
Task: Truck Use		Approved by: W. Priscilla Williams	Date: 1/30/2025	
Step	Task Steps	Potential Hazards	Controls	
Perform and complete vehicle inspection form. Faulty or inoperable parts If any item fails, do not operate vehicle. Information repaired.		If any item fails, do not operate vehicle. Inform superepaired.	ervisor for vehicle to be	
	Driving	Roadway hazards	Obey all speed limits and highway safety rules and regulations. Seat belts shall worn and properly adjusted at all times	
Park vehicle/ getting in and out of vehicle.	Slips, trips and falls.	Survey walking area for all hazards. Use caution.		
	out of venicle.	Runaway vehicle	Shut off engine if you exit the vehicle.	
		Failure of brakes	Use emergency brakes and chocks on tires.	
3	Place items in truck.	Possible back/arm strain.	Lift by bending at the knees and hips. Keep a straight back while lifting/ carrying load. Ask for help if needed.	
4	Fueling vehicle	Static-sparked fires	Vehicle must be shut off while being fueled. No smoking permitted while fueling vehicles. All gas cans must be removed from vehicle before being filled. No use of cell phones while fueling.	



4 Centrifuge Operation

Dept/Area: Four Corners Quality Control Lab				
TRA No: FC-04		Reviewed by: Joseph Patacca Date: 2/28/2025		
Task: Cent	rifuge Operation		Approved by: W. Priscilla Williams Date: 2/28/20	
Step	Task Steps	Potential Hazards	Controls	
1	Opening and closing lid	Pinch points	Press button to open the centrifuge and keep hands clear of lid as it opens. Keep hands clear of the sides of the lid as you close it.	
2 Loading centrifuge Possible bodily harm Skin irritation Cuts to hand		Skin irritation	Load the sample tubes evenly around the centrifus sample tubes to help balance an odd number of s An unbalanced centrifuge can lead to the equipm damaged.	amples.
			Do not fill test tubes up all the way. Fill tubes to about 1/2 inch from the top. This to prevent spilling of samples inside of centrifuge during spin cycles.	