

**DO NOT** use this equipment unless an instructor has instructed you in its safe use/operation and has given permission.



Safety glasses may be required in work areas.



Long and loose hair must be contained or constrained.



Appropriate footwear with closed-toe must be worn.



Long-pants are required.



Rings and jewellery must not be worn.



Protective gloves may be required.

## PRE-OPERATIONAL SAFETY CHECKS

1. Check workspaces and walkways to ensure no slip/trip-hazards are present.
2. Check that all equipment components are in position and are operational.
3. Ensure you are familiar with the operation of the equipment.
4. Keep table and work area clear of all tools and debris.
5. Faulty equipment must not be used. Immediately report suspect equipment.
6. Be aware of any other students or personnel in the immediate vicinity and ensure the area is clear before using this equipment.
7. Familiarize yourself with all mechanical operations, switches and controls, including potential chemicals that may be used.
8. If you have any questions or concerns, ask the laboratory technician or instructor first.

## OPERATIONAL PROCEDURES

**NO FOOD OR DRINK PERMITTED NEAR EXPERIMENTS.**

1. Open both the pump in the working channel.
2. Change the gate opening and raise the tail gate to establish hydraulic jump in the middle of the channel.
3. Record the flow depths and flow rates upstream and downstream of the jump.
4. Change the gate opening and repeat step (3).

## HOUSEKEEPING

1. Turn off all equipment once experiment is completed and dispose of chemicals in proper receptacles on completion. Leave equipment and working area in a safe, clean and tidy state.
2. Keep all walkways and aisles free of clutter and debris.

## POTENTIAL HAZARDS

- Chemical exposure on skin
- Noise
- Eye injuries
- Electrical shock
- Manual handling
- Broken glass

Date of last review \_\_\_\_\_

Signature \_\_\_\_\_