

RiverWatch Formal Hazard Assessment and Control

Job/position/work type: Interpretive River Guide					Assessment date: April 3, 2019	
Assessment performed by: Cal Kullman, Executive Director with staff input during training week. WWTP walking tour assessment provided by Brent Lines, City of Calgary.					Reviewed/revised: April 21, 2019	
Tasks (List all tasks/activities of the job/position)	Hazards (List all existing and potential health and safety hazards)	Severity	Likelihood	Risk	Controls List the controls for each hazard: (Elimination, Engineering, Administrative, PPE)	Date implemented:
		S	x	L		
Raft Preparations	Bus maneuvering	3	1	3	Wear safety vests; stay onboard the bus or well in the driver's view during backing; use stop signs when crossing river pathways; use cones to demark pedestrian crossing areas	April 22, 2019
	Raft loading and unloading	2	2	4	Clear ground clutter; clear people from far side of trailer when loading a top raft; shout a warning before rafts come off or go up; pull the top raft off the stack using long bow and stern lines, not black cam straps.	April 22, 2019
	Guide-on-trailer fall hazard	2	2	4	Do not climb raft stacks; stay on the ground or on the bus rear door platform; use paddles to push top rafts; use bow or stern lines to pull top rafts; spot guides standing on trailer	April 22, 2019

<p>Severity: How serious could the consequences be? 3 – It could kill you or cause a permanent disability, today or over time. 2 – It could send you to the hospital. 1 – It could make you uncomfortable.</p>	<p>Likelihood: How likely is it going to happen? 3 – It is highly likely. 2 – It might happen. 1 – It is unlikely.</p>	<p>Risk: Calculate the risk of hazards to prioritize preventive actions. Severity x Likelihood = Risk</p>
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Raft Preparations	Heavy gear bins	1	2	2	Move full bins of gear one-at-a-time; do not lift or lower bins/steps from an elevated position on steps; bend knees, keep back straight and lift by straightening legs	April 22, 2019
	Teeing-up raft loads	2	2	4	When “teeing-up” a raft and sliding it onto a raft trailer, care must be taken not to rush and crush people carrying at the raft front	April 22, 2019
	Raft ratchet straps	1	2	2	Check the far side of the raft trailer; coordinate with other staff; shout a warning before tossing tie down straps over top rafts	April 22, 2019
	Low bus door	1	2	2	Ensure the upper door frame pad is in place; bend forward going through the bus rear low door	April 22, 2019
	Bus exhaust	1	2	2	While the running bus is powering the inverter and raft blowers, ensure the raft is located away from the bus exhaust pipe	April 22, 2019
	Loud shop vac	1	2	2	Wear ear plugs when using or near an operating shop vac; clear students away	April 22, 2019
	Road rage	2	2	4	If confronted on the road or if the bus is followed, assist the driver by recording the license, vehicle description and/or photograph the aggressive vehicle and offender. Stay in the bus.	April 22, 2019
	Bus collision	2	1	2	If the bus must stop along a roadway, stay in the bus. If planning to exit the bus, wear reflective vests.	April 22, 2019
	Metal trailer storage doors	1	2	2	Only trained staff should open and close metal trailer storage doors	Sept 04, 2019

Compound Work	Working alone	3	1	3	If working alone in the storage compound, notify management before and afterwards; close the compound gate while working	April 22, 2019
Raft Guiding	Bridge pillars	3	1	3	Plan raft routes far in advance; command the group's attention; know your group's capabilities; consider wind and current direction	April 22, 2019
	Foot entrapment	3	1	3	Do not stand in river currents	April 22, 2019
	Back or shoulder strain injury	1	2	2	Use the entire paddling group to maneuver the raft; consider changing sides when convenient and safe	April 22, 2019
	Weather, wind, sun exposure	1	3	3	Wear sun screen. Wear sun glasses. Be aware of hypothermia symptoms. Convene sunscreen and layering breaks for students.	April 22, 2019
	Lightning	3	1	3	Decide to stay or go on-river well in advance; head to shore at the first available ramp access	April 22, 2019
	Sweepers, strainers obstacles	3	1	3	Plan raft routes far in advance; command the group's attention; know your group's capabilities; consider wind and current direction	April 22, 2019
	Rising flow rates	3	1	3	Check river forecasts @ rivers.alberta.ca ; know RW cut-off flow rates	April 22, 2019
	Shallow gravel bars	1	2	2	Plan raft routes far in advance; if grounded, try rearranging passenger loading; use passenger bouncing; avoid entering the water	April 22, 2019
	Unexpected obstacles	2	2	4	Turn the raft upstream and forward ferry to shore; scout ahead from shore; make a plan	April 22, 2019
	Abuse	2	1	2	Share the river; allow anglers and golfers lots of space; move away from conflict with other river users; alter the planned river route	April 22, 2019

Water Quality Testing	Chemical contact	2	2	4	Wear safety glasses; consider wind direction; do not leave drinking water bottles in the area	April 22, 2019
	Abuse	2	1	2	Share the river; allow anglers and golfers lots of space; move away from conflict with other river users; choose a different shoreline for stops	April 22, 2019
	Used syringes	3	1	3	Use the provided sharps kit and tweezers for needle storage	April 22, 2019
	Broken glassware	2	1	2	Use the provided broken glass container for glass storage	April 22, 2019
WWTP Walking Tours	Vehicle traffic	3	1	3	Stay on tour route; stay behind barriers; keep groups close together	April 22, 2019
NB. Use all supplied PPE including hard hats, safety glasses and reflective vests	Open water	3	1	3	Stay on tour route; keep groups close together; don't lean on railings	April 22, 2019
	SO2 exposure or low oxygen	3	1	3	Stay on tour route; wear personal gas monitors	April 22, 2019
	Incidental bio-hazard contact	2	1	2	Stay on tour route; stay upwind and away from water spray; avoid railing contact; use hand sanitizer; no food or drink bottles	April 22, 2019
	Trips and slips	2	2	4	Stay on tour route; wear proper footwear	April 22, 2019
	U.V. exposure	2	1	2	Stay on tour route; wear safety glasses	April 22, 2019