Health Protection

Environmental Health Services

Basic Pool Safety Plan

September 2015











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Pool Information

Pool Administration / Information

<u> </u>				
Facility Name				
Facility Address			Phone	
Pool Safety Plan Prepared by			Date	
Last Reviewed / Updated by	(Required to be done at	least once a year)	Date	
Pool data sheets, engineered	plans and/or pool drawings (s	should be included it	available)	
Location of Pool Data Sheets (It is reco	mmended that a laminated copy be posi	ted in the filter room)		
Location of Engineered Plans and/or Pe	ool Drawings			
Additional Information (if requ	ired)			
Contact Information				
Facility Owner or Strata	Name	Phone Number	Cell Number	
Facility Manager	Name	Phone Number	Cell Number	
Operator/Maintenance/Pool Company	Name	Phone Number	Cell Number	

Pool Details	Pool Details (Provide details for each pool in the facility)				
Pool Name or Description	Pool 1	Pool 2 N/A			
(e.g. main pool, hot tub)	Туре	Туре			
	Name	Name			
	Facility/Premises#	Facility/Premises#			
	Date Constructed:	Date Constructed:			
	Indoor Outdoor	Indoor Outdoor			
Bather Load					
Surface Area of Pool					
Volume					
Depth	Minimum	Minimum			
	Maximum	Maximum			
Design Flow Rate		prrect flow meter readings confirm flow through the main drain will not create a suction zard and is adequate for the correct turnover rate. The flow rate can be found on the ol data sheet.			
	 All pools should have at least one flow meter. Hot tubs should have at least two flow meters. Pools with water features may have additional flow meters. 				
	Pool recirculation:	Pool recirculation:			
	Water features:	Water features:			
	or	or			
	Hot tub recirculation:	Hot tub recirculation:			
	Hot tub hydro air:	Hot tub hydro air:			

List of Equipment and Amenities				
Pool 1	Pool 2			
Choose all that apply (✓):	Choose all that apply (✓):			
Diving Board(s) Slides Ladder(s) # Sauna Steam Room Underwater Lighting	Diving Board(s) Slides Ladder(s) # Sauna Steam Room Underwater Lighting			
Other Features (list):	Other Features (list):			

Emergency Procedures

Procedures in the event of a serious injury, emergency or incident.

Emergency Contact List (Post next to	the telepho	one or	in anoth	er visible	e location if no teleph	one available)
First Responders						
Ambulance	911	or	()		
Fire Department			()		
Police			()		
			()		
Building Contacts Trained in First Aid / En	nergency	/ Resp	onse /	CPR	(if any)	
	()			Cell phone ()
	()			Cell phone ()
Additional Contact Information						
Local Hospital	()				
Poison Control	()				
Public Health Department	()				
Pool Company	()				
Gas Company	()				
	()				

Location of Pool Emergency Phone

Identify the location of where the pool emergency phone and the phone script will be located. In the event that there is no emergency phone, ensure the phone script is in an easily accessible location.

	ple of emergency phone script Dial 911 and specify police, ambulance or fire.
2	Ctate who you are along with the address and the phone number you are calling from
2.	, ,
	- Hello, I'm at (facility)
	- The address is (facility street address)
	- The swimming pool phone number is
	- The swimming pool phone number is (facility phone number)
3.	State the nature of the situation. If there is a fire, advise them of the chemical storage room location.
3.	State the nature of the situation. If there is a fire, advise them of the chemical storage room
	State the nature of the situation. If there is a fire, advise them of the chemical storage room
4.	State the nature of the situation. If there is a fire, advise them of the chemical storage room location. Tell them the best way to come to the facility (provide directions)
4.	State the nature of the situation. If there is a fire, advise them of the chemical storage room location.

Facility Emergency Response

These are only examples and do not cover all possible incidents or actions. Alter as appropriate. (Attach blank copy of Incident Reporting Form and Emergency Site Plan)

Type of Incident	Facility Procedure	Prevention (may include)	
Medical Emergencies (near drowning/drowning, unconscious, chest pain, spinal/head injury, broken bones/sprains, seizures, allergic reactions, etc.)	 Call 911 Provide assistance as necessary Record incident on records sheet 	 Signage posted and enforced Staff Training Good water quality Depth markings visible Pool monitored for slips and entrapment 	
Minor Incidents/First Aid	 Provide assistance as necessary Advise patron to see his/her doctor Record incident on records sheet 	 Signage posted and enforced Pool monitored for slips and entrapment First aid kit well stocked 	
Heat-Related Incidents	Call 911Provide assistance as necessaryRecord incident on records sheet	 Hot Tub Max 40°C Signage posted Clock functioning Sink and shower water max 49°C 	
Health / Hygiene Emerge	ncies		
Fecal and Vomit Incidents	 See attached CDC Response Protocol Record incident on records sheet Contact Health Authority Environmental Health Officer 	- Signage posted	
Blood and Body Fluid Incidents (In and out of water)	 Record incident on records sheet Contact Health Authority Environmental Health Officer 	- Signage posted	
Disease Outbreaks (e.g. rashes, eye or ear infection, fungal infections)	 Contact Health Authority Advise patron to see his/her doctor Record incident on records sheet Check records to identify potential problems when client used facility and current conditions Apply corrective action as necessary 	 Signage posted and enforced Exclude patrons that are ill Minimize contamination to pool Provide soap at showers and sinks Follow cleaning procedures Balance pool chemistry Ensure adequate level of disinfectant 	
Patron Related Emergen	cies		
Entrapment/Section Incident	 Shut down recirculation system if necessary Call 911 if necessary Close pool Determine reason for entrapment Apply corrective action Record incident on records sheet Contact Health Authority Environment Health Officer 	 Inspect pool facility regularly for entrapment hazards Signage Ensure proper flow through main drain Ensure proper covers on main drain Equalizer lines disabled 	

Type of Incident	Facility Procedure	Prevention (may include)
Hostile/Aggressive/ Difficult Person	- Call 911 if necessary	Staff trainingNo consuming alcohol or other intoxicants
Missing Person	- Call 911 if necessary - Record incident on records sheet	- Signage - Parents supervise children
Facility Emergencies		
Gas Leak (chlorine, ozone, natural gas, propane, etc.)	 Call 911 if necessary Clear the building Record incident on records sheet 	 Know where and how to shut off gas Preventative maintenance and checks Monitoring systems Staff training
Chemical Spill	 Call 911 if necessary Record incident on records sheet 	 Staff training Personal protective equipment present Knowledge of chemicals and interactions Proper storage Material Safety Data Sheets (MSDS) present
Fire (complete and attach an evacuation plan and site plan that includes locations of alarms, exists, extinguishers, etc.)	 Call 911 Inform fire department of chemical storage and location of store room See evacuation procedure below Record incident on records sheet Contact Health Authority Environmental Health Officer 	 Staff training Fire alarms and extinguishers Exit sign clearly marked Equipment maintenance Proper chemical storage
Natural Disasters (lightning, flood, earthquake, etc.)		- Staff training

Evacuation Procedure	etc. Attach building plan with evacuation routes and designated meeting areas.		

Lifesaving, First Aid and Supervision

Emerge	ncy Equipment	Location(s)
	Non-conductive reaching assist at least 3.5 meters in length with a shepherd's hook	
	Throwing ring with rope at least 6 mm in diameter and length of at least half the width of the pool plus 3 meters	
	Basic First Aid Kit (Recommended)	
	Personal protective equipment including pocket mask and gloves (Recommended)	
	Other	

Signage

Lifeguard on Duty

When no lifeguard on duty, a clearly visible notice must be posted at each entrance to the pool.

NO LIFEGUARD ON DUTY CHILDREN MUST BE SUPERVISED BY AN ADULT

Pool Rules

- Ensure you are not ill including diarrhea, vomiting, open sore(s), bandages, head colds, discharging
 ears or noses, or ear infections. Persons with related symptoms should not enter the pool until 48 hours
 after cessation of these symptoms.
- Wear clean and appropriate bathing attire.
- Take a cleansing shower.
- Ensure all children less than 7 years of age are closely supervised (within arm's reach at all times) by a responsible person of at least 16 years of age.
- Ensure infants and toddlers wear swim diapers and/or elastic swim pants.
- Ensure one responsible person supervises a maximum of three children who are less than 7 years of age.
- Report an injury suffered while in the pool enclosure, to the pool manager or lifeguard.
- Report any contamination or fouling of the pool (e.g. urinating of defecating), to the pool manager or lifeguard.
- No running, fighting or engaging in conduct likely to cause an injury.
- No contaminating or fouling the pool.
- No diving.

Additional Signs

Attach additional signs/rules for the safe use of hot tubs, saunas and other features.

- No diving.
- Don't stay in the hot tub for more than 10 minutes at a time.
- Don't totally immerse your body.
- No entry if under the influence of alcohol or other intoxicants.
- Keep hair away from underwater fittings.

Pool Operation and Maintenance

Pool Operator Qualifications	(training / experience)

When to close the pool to swimmers

- When there is the presence of vomitus or feces.
- When minimum disinfection level cannot be maintained.
- When water is too cloudy to see the pattern of the main drain.
- When the recirculation system is not working.
- When there is a power outage.
- When supercholorinating or shocking.
- When adding chemicals directly to the pool.
- When any hazardous situation exists that could negatively impact the health and safety of swimmers (may require closure of the entire facility (e.g. chlorine gas leak, poor microbiology, suction hazard).
- When pH or other chemical parameters are out of required range.
- When instructed by the Health Officer.

Pool Water Chemistry Requirements

Parameters requiring testing	Minimum Testing Frequency	Test results required		
рН	2 x / day	Within range of 7.2 – 7.8		
Combined Chlorine	2 x / day	Less than 1 ppm		
Alkalinity	1 x / week	Within range of 80 – 120 ppm		
Cyanuric Acid	1 x / week	Less than 80 ppm		
Disinfectant		Water temp ≤ 30°C Water Temp >30°C		
Free Available Chlorine or	2 x / day	0.5 ppm or greater	1.5 ppm or greater	
Chlorine Cyanurate (stabilized chlorine) or	2 x / day	1.0 ppm or greater	2.0 ppm or greater	
Bromine	2 x / day	1.5 ppm or greater 2.5 ppm or greater		

Name and Model of Test Kit

(may attach procedures for testing and calibration)

Name of Reagent	Manufacturer's Recommended Shelf Life

Written Procedures in the event test results fail

Troubleshooting Problem	Product Used to Correct	General Procedures (e.g. describe dilutions or use product label
Disinfectant too high		
Disinfectant too low		
Combined chlorine too high		
pH too high		
pH too low		
Alkalinity too high		
Alkalinity too low		
Cyanuric acid too high (if applicable)		
Cyanuric acid too low (if applicable – outdoor pools only)		
Cloudy Water		

Safe Handling and Storage of Chemicals

Chemicals Used	Essenital Information, Precautions and Storage Details (follow MSDS)
E.g. Sodium hypochlorite	(i.e. Corrosive, causes severe eye injury, skin burns, respiratory burns. Use protective gear to handle, do not mix with muriatic acid, chlorinator tank requires containment.)

Procedures for opening and closing pool at beginning/end of day (attach additional sheet if necessary)			
Procedures for opening and closing seasonal pool at beginning/end of season (attach additional sheet if necessary)			
Short in Hoodsbury)			
Procedures for draining the pool			

Maintenance of Mechanical Equipment	(Note: This list provides examples and is not intended to be a complete
list. Modify as necessary.)	

Installation and operating manuals are located	

Equipment	What Needs to be Checked	Frequency	Corrective Procedures (for backwashing, replacing filter media, adjust flow and rate, etc.)
Filters	Backwash gauges		
	Filter media		
Chemical Feeder	Tubing Pump		
Pumps	 Hair and lint strainer Cavitation, noise Leaks Losses prime 		
Water Temperature Heater	Water temperature too hot/coldScaling/corrosion)		
Flow Meter	Flow rate too high/lowMeter corrodedFloat stuck		
Ventilation			
Skimmers/Main	Weir functionProper % of flow		
Ground Fault Interrupter	■ Test by tripping		

Operation and Maintenance Responsibilities Related to Facility			
Duties (i.e. Clean deck; test pool chemistry; monitor and repair equipment, etc.)	Person, Job Title or Company	Backup Person, Job Title or Company	Description

General Maintenance Checklist

The following are some of the items that should be included in your schedule (schedule may include a comments section)

Pool basin
☐ Checked for entrapment hazard (gap between 3.5" and 9")
☐ Check water intakes for possible suction hazards
☐ Check for any safety hazard such as sharp projections
☐ Main drain is secure and in good repair
☐ Checked for signs of deterioration
☐ Skimmer basket cleaned
Handrails, ladders, deck equipment secure
Water level is correct for removal of floating debris
Depth markings clearly visible
Steps are clearly marked in a contrasting colour
Floors are in good condition with non-slip surfaces, free of pooled water, free of ice in freezing conditions
Adequate fencing, doors, gates, alarms to prevent unauthorized entry
Drinking water fountain is operational (clean and good pressure)
First aid kit well stocked
Rescue equipment in good condition and easily accessible
Signage is in place
Shower/sink temperature < 49°C
Ground fault circuit interrupter for underwater lights functioning
Backflow prevention devices/air gap are functional
Clock in place and functional
Adequate lighting for pool area
Pool temperature ≤ to 37°C
Hot tub temperature ≤ to 40°C
Flow meters working properly
Deck drains are secure and in good repair
Floating weirs functioning

Pool Cleaning Schedule

Area	Chemical, Cleaner or Other Products Used	How to Handle Safely/Procedure (refer to MSDS)	Cleaning Frequency	Person or Position Responsible		
Floors						
Change Room						
Showers/Washrooms						
Halls						
Pool Deck						
Floor/Deck Drains						
Other:						
Surfaces						
Benches/Lockers						
Shower Walls						
Toilet Bowls						
Sinks/Mirrors						
Pool Features						
Other						
Pool Basin						
Tiles at water mark						
Skimmer baskets						
Vacuuming						
Other						
Supplies						
Toilet paper/towels						
Soap						
Other						
Other Areas	Other Areas					