Pueblo Department of Public Health & Environment

MAHC Inspection Guide: Lifeguard Facilities

****Indicates Imminent Health Hazard**

Chemical Parameters:

Parameters	Min Required	Max Required
Free Chlorine (pool)**	1.0 ppm	10 ppm
Free Chlorine (spa, therapy pool)**	3.0 ppm	10 ppm
Combined Chlorine	0.0	0.4
Bromine (pool)**	3.0 ppm	8.0 ppm
Bromine (spa, therapy pool)	4.0 ppm	8.0 ppm
Total Alkalinity	60	180
pH**	7.0	8.0
Calcium Hardness	150	2500
Temperature (pools, spas, therapy pools)	70	104
Cyanuric Acid	0	90

Chemical Readings:

Water Body**:**

Free Chlorine	Total Chlorine	Combined Chlorine
Free Bromine	pH	Total Alkalinity
Calcium Hardness	Cyanuric Acid	Water Temperature
ORP Reading	Flow Meter Reading	Turnover Rate

Water Body:

Free Chlorine	Total Chlorine	Combined Chlorine
Free Bromine	pH	Total Alkalinity
Calcium Hardness	Cyanuric Acid	Water Temperature
ORP Reading	Flow Meter Reading	Turnover Rate

Water Body:

Free Chlorine	Total Chlorine	Combined Chlorine
Free Bromine	pH	Total Alkalinity
Calcium Hardness	Cyanuric Acid	Water Temperature
ORP Reading	Flow Meter Reading	Turnover Rate

Chemical Readings OUT:

-
-
-
-
-
-

Pool Perimeter:

- ☐ Pool bottom is visible**
- ☐ Main drain visible and secure- VGBA approved cover**
- ☐ Tiles are intact
- ☐ Pool bottom is clean
- ☐ Inlets are operational
- ☐ Skimmers are cleaned out, no buildup of debris
- ☐ Skimmer baskets present
- ☐ Weir doors are present
- ☐ Depth markers present/good condition – horizontal and vertical edge of pool**
- ☐ No Diving markers present/good condition**
- ☐ Ladders and grab rails are anchored and secure
- ☐ Plumbing shall be maintained with no leaks or discharge
- ☐ Underwater maintained (if applicable)
    - No cracks on underwater lighting lenses

Deck Perimeter:

- ☐ Deck in good repair: no large cracks, no water pooling
- ☐ Deck perimeter free of obstructions
- ☐ Glass furniture not present
- ☐ Extension cords are not being used as substitute for permanent wiring
- ☐ Extension cords shall be minimum of 6 ft from body of water
- ☐ Waste/recycling containers shall be maintained in good repair and clean
- ☐ Potable water available to bathers
- ☐ Drinking fountains are clean, water falls within catch basin
- ☐ No glass or sharp objects present**
- ☐ Overhead wires are protected (if applicable) **
- ☐ Outlets are GFCI**
- ☐ Emergency lighting maintained**
- ☐ Safety Equipment**
    - Staff communication equipment (radios, phones, etc.)
    - Emergency telephone
    - Backboard with head immobilizer and straps
    - First aid kit
        - Absorbent compress
        - Adhesive bandages
        - Adhesive tape
        - Sterile pads
        - Disposable gloves
        - Scissors
        - Elastic wrap
        - Emergency blanket
        - Resuscitation mask with one-way valve
        - Bloodborne pathogen spill kit
    - Throwing device with 50-foot rope (buoy) – only if 1 lifeguard on duty
    - Reaching pole with shepherd's crook – only if 1 lifeguard on duty

- ☐ Signage that indicates:
    - First aid kit location
    - Emergency telephone location
    - Emergency dialing instructions
    - Management contact information
    - Hours of operation
        - Operating hours of the aquatic facility
        - Unauthorized use outside of designated hours is prohibited
- ☐ Lifeguard Equipment
    - UV protection (for chairs and on lifeguards)
    - Rescue tube
    - Identifying uniform
    - Signal device
    - Sunglasses
    - Resuscitation mask with one-way valve
    - Disposable gloves (non-latex, non-powdered)

Locker Room/Bathrooms

- ☐ Floors clean, in good repair
- ☐ Toilets flushing and supplied with toilet paper
- ☐ Sinks supplied with soap and paper towels
- ☐ Diaper changing station present
- ☐ Diaper changing handwashing signage
- ☐ Showers in good repair
- ☐ Drinking fountains shall be in good repair
    - Clean
    - Water should not go outside catch basin

Pump Room:

- ☐ Recirculation pump approved, in good condition and operating
- ☐ Pump is running continuously (24/7)
- ☐ Main drain is set to 20%, skimmers set to 80%
- ☐ Pump wiring is grounded
- ☐ Filter approved, in good repair and operating
- ☐ No plumbing cross-connections with potable and non-potable sources
- ☐ Approved water supply source, water source protected through air gap or other method
- ☐ Flow meter present and operating
- ☐ Secondary disinfection system functions properly (if applicable)
- ☐ Approved chemicals and usage
- ☐ Chemicals being fed through automated feeder
- ☐ Automated controller operable
- ☐ Testing logs complete
- ☐ Approved test kit
- ☐ Reagents are within expiration dates
- ☐ Automated controller installed within 1 year of adoption
- ☐ Automated controller is interlocked
- ☐ When mixing- chemicals are added to water and not vice versa

Chemical Storage Room:

- ☐ Chemicals labeled
- ☐ Chemicals stored in room separate from pump room
- ☐ Chemicals stored safely
    - Liquids not above powders/solids
    - Permeable containers are stored off floor
    - Chemicals not stored above eye level
- ☐ PPE present (mask, goggles, gloves, etc.)
- ☐ Chemical inventory and SDS available

Chlorine Gas Storage Room:

- ☐ Chlorinators and chlorine gas cylinders shall be housed in separate enclosure
- ☐ Chlorine gas storage room shall have door that prevents gas leakage, equipped with inspection window
- ☐ Chlorine cylinders shall be secured from falling (chained to wall, etc.)
- ☐ In-use cylinders shall be secured on platform scale
- ☐ Separate vent opening to exterior shall be provided
- ☐ Operator of chlorinating equipment shall be trained in its use

Written Documentation:

- ☐ Current Certificate of Operation available
- ☐ Operator training certification(s) available onsite
- ☐ Lifeguard training certification(s) available onsite
- ☐ Equipment Inventory
    - Equipment name and model number
    - Manufacturer and contact information
    - Local vendor/supplier and technical representative (if applicable)
    - Replacement or service dates and details
- ☐ Equipment manuals
- ☐ Staffing Plan (6.3.3)
    - Identifying and communicating health and safety hazards
    - Mitigating health and safety hazards and closing the facility if needed
    - Interfacing with PDPHE related to the requirements of this code
    - Maintaining water quality and, if required, air quality
    - Enforcing the aquatic facility rules and regulations
    - Responding to reported emergencies
- ☐ Zone of Patron Surveillance (6.3.3.1.1)
    - The qualified lifeguard can view the entire area of the assigned zone of patron surveillance
    - The qualified lifeguard can reach the furthest extent of the assigned zone of patron surveillance within 20 seconds
    - Identify whether the qualified lifeguard is in an elevated stand, walking, in-water and/or other approved position
    - Identifying any additional responsibilities for each zone, and
    - All areas of each aquatic venue are assigned a zone of patron surveillance

☐ Rotation Procedures (6.3.3.1.2)
- Identifying all zones of patron surveillance responsibility at the aquatic facility
- Operating in a manner to provide an alternation of tasks, such that no qualified lifeguard conducts patron surveillance activities for more than 60 continuous minutes
- Have a practice of maintaining coverage of the zone of patron surveillance, during the change of the qualified lifeguard

☐ Emergency Action Plan (6.3.4.5.6)
- A diagram of the aquatic facility
- A list of emergency telephone numbers
- The location of first aid kit and other rescue equipment
- An emergency response plan for accidental chemical release
- A fecal/vomit/blood contamination response plan
- Outline types of emergencies and imminent health hazards
- Outline methods of communication between responders, emergency services and patrons
- Identify each anticipated responder
- Outline the tasks of each responder
- Identify required equipment for each task
- Emergency closure requirements

☐ Accidental Chemical Release Plan (6.3.4.5.6.1)
- How to determine when professional HAZMAT response is needed
- How to obtain it
- Response and cleanup
- Provision for training staff in these procedures
- A list of equipment and supplies for clean-up

☐ Evacuation Plan Components (6.3.4.5.7.1)
- Actions to be taken in cases of drowning, serious illness or injury, chemical handling accidents, weather emergencies, and other serious incidents
- Defined roles and responsibilities for all staff

☐ Communication Plan Components (6.3.4.5.8.1)
- Provision and use of readily accessible, appropriate communication devices such as telephones, call boxes, and mobile devices
- Signage
- Procedures to be followed
- Acceptable alternative communication during loss of power; and
- Training of all personnel

☐ Inclement Weather Plan (6.3.4.5.9)
- Contingency/response plan for localized weather events that may affect their operation (i.e. lightning, high winds, etc.)

- ☐ Incidents to Record (6.4.1.4.1). Record shall be made with all injuries and illness accidents that…
    - Results in deaths
    - Requires resuscitation, CPR, oxygen, or AED use
    - Requires transportation of the patron to a medical facility
    - Is a patron illness or disease outbreak associated with water quality?
- ☐ Chemical Inventory Log (6.4.1.5)
    - List of chemicals used in aquatic venue water and surrounding deck that could result in water quality issues, chemical interactions, or patron exposure
- ☐ Daily Water Monitoring and Testing Records (6.4.1.6)
    - pH level
    - Disinfectant residuals
    - Combined chlorine concentrations
    - Operating pressures of water recirculation pumps and filters or the corresponding flow rate from flow meter readings
    - CYA levels, if used
    - Maintenance and malfunctioning of equipment, including dates and time of all equipment calibration including WQTDs
    - Dates of challenge testing of the chemical feeder interlock system
    - If heated, aquatic venue water temperature
    - The time of filter backwash or cleaning
    - Calcium hardness
    - Total alkalinity
    - Saturation index
    - Microbiological testing, if applicable, dates/times samples were taken and results
    - Any equipment failure, power outage, or error resulting in the interruption of the circulation, filtration, or disinfection systems for more than one hour
    - Secondary disinfection systems
- ☐ Bodily Fluids Remediation Log (6.4.1.8)
    - A bodily fluid contamination response log shall be maintained to document each occurrence of contamination of the water or its immediately adjacent areas by formed or diarrheal fecal material, whole stomach discharge or vomit, and blood. See 6.4.1.8.3 for required information to include.
- ☐ Contamination Response Plan (6.5.1.1)
    - Facility shall have a contamination response plan (bodily fluid cleanup procedure) for responding to formed-stool contamination, diarrheal-stool contamination, vomit contamination, and contamination involving blood. Plan shall be reviewed annually and available for review by PDPHE. Plan must include:
    - Procedures for response and cleanup (See 6.5.2 for guidance on response)
    - Provisions for training staff in these procedures
    - List of equipment and supplies for cleanup

The results of this inspection were discussed with the person in charge of the facility and venue listed below. A formal inspection report will be emailed to the point of contact listed on the most recent Certificate of Operation Application.			
Facility Name		Venue Inspected	
Person in Charge Name (print)			
Person in Charge Signature		Date	
Inspector Signature		Date	

Imminent Health Hazards

1. Failure to provide supervision and staffing of the aquatic facility
2. Failure to provide the minimum disinfectant residual levels
3. pH below 7.0
4. pH above 8.0
5. Failure to continuously operate the aquatic venue filtration and disinfection system
6. Use of an unapproved or contaminated water supply source for potable water use
7. Unprotected overhead electrical wires within 20 feet horizontally of the aquatic venue
8. Non GFCI protected electrical receptacles within 20 feet of the inside wall of the aquatic venue
9. Failure to maintain an emergency lighting source
10. Absence of all required lifesaving equipment on deck
11. Aquatic venue bottom not visible
12. Total absence of or improper depth markings at an aquatic venue
13. Plumbing cross-connections between the drinking water supply and aquatic venue water or between sewage system and the aquatic venue including filter backwash facilities
14. Failure to provide and maintain an enclosure or barrier to inhibit unauthorized access to the aquatic facility or aquatic venue when required
15. Use of unapproved chemicals or the application of chemicals by unapproved methods to the aquatic venue water
16. Broken, unsecured, or missing main drain gate or any submerged suction outlet grate in the aquatic venue
17. Number of bathers/patrons exceeds the theoretical peak occupancy
18. Broken glass or sharp objects in aquatic venue or on deck area
19. Water temperature exceeds 104 degrees F
20. Bacteria exceeds acceptable limits in two consecutive lab-tested water samples
21. Any other item determined to be a public health hazard by PDPHE