

<b>Swimming Pool/Spa Inspection Report WRITTEN NOTIFICATION</b>		<b>Johnson County Public Health</b> <i>Serving Iowa, Johnson, Louisa and Muscatine Counties</i> 855 S. Dubuque Street * Iowa City, Iowa 52240 * 319/356-6040 www.johnson-county.com	
Facility Name: <b>University of Iowa Fieldhouse</b>		1. Registration #: P / S 52-0465-006-2-A-001	
Person Contacted: Emily Downes		2. Registration #: P / S	
Title: Associated Director		3. Registration #: P / S	
Facility Physical Address: UI Campus Fieldhouse		City: Iowa City	State: IOWA
County: <input type="checkbox"/> Iowa <input checked="" type="checkbox"/> Johnson		<input type="checkbox"/> Muscatine	<input type="checkbox"/> Louisa
<b>This Written Notification refers to the Swimming Pool/Spa inspection conducted on 08/18/2021. The boxes checked below cite each section of the Iowa Code/Iowa Administrative Code rules violated, and specifies the steps required for correcting the violation. Please refer to the facility's Swimming Pool/Spa Inspection Report for descriptions of the manner in which the owner or operator failed to comply.</b>			

**A. MANAGEMENT/PERSONNEL**

1. Certificates

- Pool 15.4(6)h:  Spa 15.51(5)a:  
Copies of certified operator, lifeguard, first-aid, basic water rescue, & CPR certificates for the facility staff shall be kept at the facility.

2. Operational records

- Pool 15.4(6)f:  Spa 15.51(5)e:  
Operator shall have the operational records for the previous 12 months at the facility. These records shall contain a day-by-day account of operation:

- |                          |                                                                                                                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pool                     | Spa                                                                                                                                                                                                                        |
| <input type="checkbox"/> | <input type="checkbox"/> ORP and pH readings, results of pH, free chlorine or total bromine residual, cyanuric acid, total alkalinity, combined chlorine, and calcium hardness tests, and any other chemical test results. |
| <input type="checkbox"/> | <input type="checkbox"/> Results of monthly microbiological analyses.                                                                                                                                                      |
| <input type="checkbox"/> | <input type="checkbox"/> Reports of complaints, accidents, injuries, & illness.                                                                                                                                            |
| <input type="checkbox"/> | <input type="checkbox"/> Dates & quantities of chemical additions, including resupply of chemical feed systems.                                                                                                            |
| <input type="checkbox"/> | <input type="checkbox"/> Dates when filters were backwashed, cleaned or a filter cartridge was changed.                                                                                                                    |
| <input type="checkbox"/> | <input type="checkbox"/> Monthly ground fault circuit interrupter test results.                                                                                                                                            |

3. Frequency of Tests

- Pool 15.4(2)e:  Spa 15.51(2)e:  
The results of the tests required shall be recorded in the swimming pool/spa records.  
 Describe violation(s):

4. Signs

- Pool 15.4(6)b,d,e:  Spa 15.51(5)b,c:
- |                          |                                                                                                                                                                                                                                |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pool                     | Spa                                                                                                                                                                                                                            |
| <input type="checkbox"/> | <input type="checkbox"/> Legible rules signs shall be posted conspicuously at a minimum of two locations within the facility enclosure.<br>Rules shall include: No diving in the shallow end, No horseplay, No running on deck |
| <input type="checkbox"/> | <input type="checkbox"/> A sign shall be posted at each entry to a swimming pool or a wading pool where lifeguards are not required.                                                                                           |
| <input type="checkbox"/> | <input type="checkbox"/> <b>N/A</b> Rules & restrictions for the use of a water slide shall be posted near the slide.                                                                                                          |
| <input type="checkbox"/> | <input type="checkbox"/> A "Spa Rules" sign shall be posted near the spa.                                                                                                                                                      |
| <input type="checkbox"/> | <input type="checkbox"/> The maximum depth of a spa shall be posted at a conspicuous location near the spa in numerals or letters                                                                                              |

5. Material Safety Data Sheets (MSDS)

- Pool 15.4(6)k:  Spa 15.51(5)j:  
Copies of MSDS for the chemicals used at the swimming pool/spa shall be kept at the facility in a location known to facility staff with chemical handling responsibilities. The MSDS shall be reviewed by the facility staff at least annually.

6. Operation Manual

- Pool 15.4(6)i,j,l,m:  Spa 15.51(5)g,h,j:
- |                          |                                                                                                                                                                                                                           |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pool                     | Spa                                                                                                                                                                                                                       |
| <input type="checkbox"/> | <input type="checkbox"/> A permanent manual for the operation of the facility shall be kept at the facility.                                                                                                              |
| <input type="checkbox"/> | <input type="checkbox"/> A written emergency plan shall be provided.                                                                                                                                                      |
| <input type="checkbox"/> | <input type="checkbox"/> A schematic drawing of the recirculation system shall be provided. Clear labeling of piping may substitute.                                                                                      |
| <input type="checkbox"/> | <input type="checkbox"/> <b>N/A</b> The lifeguard staffing plan for the facility shall be available to the inspector at the facility. The plan shall include staffing assignments for all programs conducted at the pool. |

7. Other

- Pool  Spa

**B. FILTRATION/RECIRCULATION**

1. Skimmers/Strainer Baskets

- Pool 15.4(1)b(4):  Spa 15.51(1)e:  
A swimming pool/spa shall have a means for skimming the water surface & weirs which adjust automatically to variations in water level. Skimmers shall have an easily removable basket or screen upstream from any valve.

2. Inlets  
 Pool 15.4(1)b(3):       Spa 15.51(1)d:  
 Pools/Spas shall have inlets adequate in design, number, location, and spacing to ensure effective distribution of treated water and maintenance of uniform disinfectant residual.
3. Water level  
 Pool 15.4(4)g:       Spa 15.51(4)e:  
 Swimming pool & spa water levels shall be maintained at the skimming level.
4. Crossconnection  
 Pool 15.4(1)d(1)&(2):       Spa 15.51(1)g(1)&(2):  
 Water supplied to a swimming pool/spa shall be discharged to the system through an air gap or a reduced principle backflow device. Vacuum breaker backflow preventers shall be provided on all hose bibs serving a swimming pool, spa, shower room, chlorine room &/or filter room.
5. Pressure Gauges: Gauges shall be located & of such a size that they may be easily read by the operator.  
 Pool 15.4(1)b(2):       Spa 15.51(1)a(4):  
 The recirculation system shall have an operating pressure gauge located before the filter if it is a pressure filter system. A vacuum filter system shall have a vacuum gauge located between the filter and the pump.
6. Flow Meter  
 Pool 15.5(5)e:       Spa 15.52(5)e  
 Each swimming pool/spa recirculation system shall be provided with a permanently installed flow meter to measure the recirculation flow rate.
7. Wastewater  
 Pool 15.4(1)c:       Spa 15.51(1)f:  
 Wastewater and backwash water shall be discharged through an airbreak or an air gap.
8. Other  
 Pool       Spa

### **C. WATER QUALITY**

1. Water Supply  
 Pool 15.4(1)d:       Spa 15.51(1)g:  
 The water supplied to a swimming pool/spa shall be from a water supply meeting the requirements of the Iowa Department of Natural Resources for potable water.
2. Water Balance  
 Pool 15.4(2)a,b:       Spa 15.51(2)a,b:  
 Refer to Iowa Code sections listed & Aquatic Facility Testing & Record Keeping Requirements handout provided.
3. Clarity  
 Pool 15.4(2)c:       Spa 15.51(2)c:  
 A swimming pool/spa shall be closed if the grate openings on the main drain are not clearly visible.
4. Test Kit  
 Pool 15.4(2)f:       Spa 15.51(2)f  
 A swimming pool/spa facility shall have functional water testing equipment for free chlorine & combined chlorine, or total bromine; pH; total alkalinity; calcium hardness; & cyanuric acid (if cyanuric acid or a stabilized chlorine is used at the facility).
5. Disinfection/Chemical Feed  
 Pool 15.4(3)a:       Spa 15.51(3)a:  

Pool	Spa
<input type="checkbox"/>	<input type="checkbox"/> (1) Equipment for continuous feed of a chlorine or bromine compound to the water shall be provided & shall be operational. The equipment shall be adjustable in at least five increments over its feed capacity.
<input type="checkbox"/>	<input type="checkbox"/> (2) Equipment for the continuous feed of a chemical for pH adjustment of the water shall be provided & shall be operational for each swimming pool/spa.
<input type="checkbox"/>	<input type="checkbox"/> (3) Equipment & piping used to apply chemicals to the water shall be of such size, design, & material that they may be cleaned. All material used for such equipment & piping shall be resistant to the action of chemicals to be used.
6. Solution Tank  
 Pool 15.5(11)g:       Spa 15.52(11)f:  
 Where a metering pump is used to feed solution of disinfectant, the disinfectant solution container shall have a capacity of at least one day's supply at the rate specified in 15.5(11)c / 15.52(11)c, except that when the system is designed to feed directly from a 55 gallon shipping container, a larger solution container is not required.
7. Cleaning  
 Pool 15.4(3)b:       Spa 15.51(3)b:  

Pool	Spa
<input type="checkbox"/>	<input type="checkbox"/> A swimming pool/spa shall be clean. The inspection agency may require that a swimming pool/spa be drained & scrubbed with a disinfecting agent prior to further usage.
<input type="checkbox"/>	<b>N/A</b> A vacuum system shall be provided to remove dirt from the bottom of the swimming pool.
<b>N/A</b>	<input type="checkbox"/> A spa containing 500 gallons of water or less shall be drained & refilled a minimum of once a week. A spa containing over 500 gallons of water shall be drained & refilled a minimum of one time every two weeks.
8. Other  
 Pool       Spa  
 The pH/ORP meter is reading HHR. The meter needs to read ORP.

### **D. MARKING**

1. Color  
 Pool 15.4(4)i(1):  
 The bottom & sides of a swimming pool shall be white or a light color.
2. Smooth Finish  
 Pool 15.4(4)i(2):       Spa 15.51(4)g:  
 Swimming pool/spa walls & floors shall have a smooth surface in order to facilitate cleaning.

3. Boundary Lines

Pool 15.4(4)(3):

The boundary between shallow & deep water (5 ft) shall be marked by a float line with floats spaced no more than 5 ft apart. The float line shall be installed within 12 inches of the shallow side of the boundary. When the slope of the floor of a swimming pool exceeds 1 ft vertical to 12 ft horizontal a depth of less than 5 ft, the float line shall be placed within 12 inches of the shallow edge of the slope change.

4. Depth Markers

Pool 15.4(4)j:

(1) Depth markers shall be located on the deck no more than 3 ft from the edge of the swimming pool. The depth of a wave pool shall also be marked on the side walls of the wave pool, above the maximum static water level, where the depth is 3 ft or more, & on the deep end wall of the wave pool.

The "8" depth marker on the north side of the pool deck is flaking off. Touch-up the depth marker.

(2) Depth markers shall be located at 1 ft depth intervals, but not more than 25 ft apart measured between the centers of the depth markers around the area of a swimming pool which has a water depth of 5 ft or less & around the area of a wave pool where the water depth is 3 ft or more.

(3) Depth markers shall be located not more than 25 ft apart measured between the centers of the depth markers around the deep end of the swimming pool. The words "Deep Water" may be used in place of numerals as depth markers.

5. No Diving Markers

Pool 15.4(4)j(6):

Swimming pool areas where diving is not permitted shall be marked with "No Diving" or equivalent wording or graphics on the pool deck within 3 ft of the edge of the swimming pool at intervals no greater than 25 ft between the centers of the markers around the perimeter of the area.

6. Slip Resistant Markers

Pool 15.4(4)j(7):

Letters, numbers & graphics marked on decks shall be slip resistant.

7. Other

Pool

Spa

**E. DECKS**

1. Width/Clean/Drainage/Slip Resistant

Pool 15.5(4)a:

Swimming pools shall be surrounded by a deck. Class A Pool = at least 6 ft wide. Class B Pool = at least 4 ft wide. Decks shall extend at least 4 ft beyond diving stands, lifeguard chairs or any other deck equipment.

Spa 15.52(4):

Spas shall have a deck around at least 50% of the spa perimeter and shall be at least 4 ft wide.

Pool 15.4(4)e:  Spa 15.52(4)b

The decks shall drain away from the swimming pool/spa. The deck slope shall be at least 1/8 inch/ft and nor more that 1/2 inch/ft to drain. The deck shall be constructed to eliminate standing water.

Pool 15.4(4)k(3):  Spa 15.51(4)h:

Decks shall have a slip resistant, durable and cleanable surface, free of litter, obstructions & tripping hazards.

2. Hose Bibs

Pool 15.5(4)h:

Spa 15.51(4)h(3):

At least one hose bib shall be provided for flushing the deck.

3. Other

Pool

Spa

**F. SAFETY**

1. First Aid Kit

Pool 15.4(4)f(4):

A swimming pool facility shall have a first-aid kit which contains a supply of bandages, bandage compress, self-adhering gauze bandage & latex (or similar material) disposable gloves, and chemical cold compress. Where life guards are not present, the first-aid kit shall be prominently mounted in the swimming pool enclosure, or a sign stating its location shall be posted near the swimming pool.

A first aid kit is missing a cold compress.

2. Telephone

Pool 15.4(4)f(7):

Spa 15.51(4)d:

A designated emergency telephone, capable of being operated without coins, shall be available to the users of a swimming pool/spa. If the emergency telephone is not located within the swimming pool/spa enclosure, management shall post a sign(s) indicating the location of the emergency telephone.

3. Fencing/Gates

Pool 15.4(4):

Except for a fill & drain wading pool, a swimming pool shall be enclosed by a fence, wall building enclosure or combination thereof not less than 4 ft high & made of durable material.

A fence, wall or other means of enclosure shall have no openings, other than gateways & doorways, that would allow the passage of a 4 inch sphere, & shall not be easily climbable by toddlers. The distance between the ground & the top of the lowest horizontal support accessible from the outside of the facility, or between the two lowest horizontal supports accessible from outside the facility, shall be at least 45 inches. Except where controlled entrance is provided, gates & doors shall be lockable, self-closing & self latching.

If a wading pool is within 50 ft of a swimming pool, the wading pool shall have a barrier at least 36 inches high separating it from the swimming pool.

An indoor swimming pool shall be enclosed by a barrier at least 3 ft high if there are sleeping rooms, hallways, apartments, condominiums or permanent recreation areas used by children which open directly into the swimming pool area.

A wave pool shall have a continuous barrier along the full length of each side of the wave pool. The barrier shall be at least 42 inches high and be installed 2 1/2 to 3 ft from the side of the wave pool. Users shall not be permitted in this area.

Spa 15.51(4)k:

A spa shall be enclosed by a fence, wall, building or combination thereof not less than 4 ft high. The spa enclosure shall be constructed of durable materials. Except for gate & door openings, the enclosure shall have no opening that would permit the passage of a 4 inch sphere. Except where controlled entrance to the spa is provided, gates or doors into the spa area shall be self-closing and self-latching. A spa may be in the same room or enclosure as another spa or a swimming pool.

4. Emergency Equipment

Pool 15.4(4)f:

Except for wading pools, a minimum of one unit of lifesaving equipment shall be provided for each 1500 ft<sup>2</sup> of water surface area or fraction thereof. A unit of lifesaving equipment consists of one of the following: A U.S. Coast Guard recognized ring buoy, a life pole or a "shepherd's crook" of at least 8 ft in length, a rescue buoy, a rescue tube, &/or any other piece of rescue equipment approved by the department.

5. Lifeguard Chair

Pool 15.4(4)e:

Outdoor swimming pools where lifeguards are required by rule shall have at least one elevated lifeguard chair or station provided for a swimming pool with a water surface area of 2000 - 4000 ft<sup>2</sup> inclusive; at least two chairs shall be provided if the area is 4001-6000 ft<sup>2</sup>; and at least three chairs shall be provided if the area is 601 ft<sup>2</sup> or more.

6. Chlorine Room (Gas - Vents, Lights, Gas Cylinders)

Pool 15.4(4)n:

(1) Room shall have an airtight exhaust system which takes its suction near the floor & discharges out of doors in a direction to minimize the exposure to swimming pool patrons. The system shall provide one air change every 4 minutes.

(2) An air intake shall be provided near the ceiling.

(3) The exhaust fan shall be operated from a switch in a nearby location outside the chlorine room or building.

(4) A plastic bottle of commercial strength ammonia solution for leak detection shall be provided.

7. Fully Submerged Outlets

Pool 15.4(4)h:

Spa 15.51(4)f:

Each fully submerged outlet, including the main drain(s), shall be designed to prevent user entrapment.

Pool

Spa

Each fully submerged outlet shall have a cover/grate that has been tested for compliance with the requirements of the ASME standard.

Fully submerged outlet cover/grates shall not be removable without the use of tools.

Purchase records & product information shall be maintained by the facility for at least five years from the cover/grate purchase. If a field fabricated, a copy of the certification letter shall be kept at the facility for at least five years from the certification date.

**N/A**

Each spa pump that draws water directly from a fully submerged outlet shall be connected to two or more outlets or a single outlet with an area of at least 144 in<sup>2</sup>.

8. Safety Vacuum Release Systems

Pool 15.4(4)h:

Spa 15.51(4)f:

A facility with a single fully submerged outlet that is not unblockable and that is directly connected to a pump shall be closed if the outlet system is not equipped with a safety vacuum release system.

Pool

Spa

(1) Purchase records & product information shall be maintained by the facility for at least 5 years from the SVRS purchased.

(2) An SVRS shall be installed in accordance with the manufacturer's instructions

(3) An SVRS shall be tested for proper function at least once in each month, date & result of each test shall be recorded.

9. Handrails, Stairs, Ladders & Ramps

Pool 15.4(4)b:

(1) Ladders or recessed steps shall be provided in the deep portion of a swimming pool. Stairs, ladders, recessed steps or ramps shall be provided in the shallow portion if the vertical distance from the bottom of the swimming pool to the deck is more than 2 ft.

(2) Ladders, ladder rungs & ramps shall be securely anchored.

(3) The distance between the wall and the vertical rail of the ladder shall be no greater than 6 inches and no less than 3 inches. The lower end of each ladder rail shall be securely covered with a smooth nonmetallic cap. The lower end of each ladder rail shall be within 1 inch of the wall.

(4) Stairs, ladder rungs, ramps & recessed steps shall be slip-resistant.

(5) If a swimming pool is over 30 ft wide, recessed steps, ladders ramps or stairs shall be installed on each side.

(6) Where recessed steps are provided, securely anchored grab rails shall be provided.

(7) Where stairs or ramps are provided, they shall be equipped with a securely anchored handrail.

(8) When stairs are provided for entry into a swimming pool, a slip resistant stripe at least 1 inch wide of a color contrasting with the swimming pool floor shall be marked at the leading edge of each tread.

Spa 15.51(4)b:

(1) When the top rim of a spa is more than 24 inches above the surrounding floor area, stairs, or a ramp shall be provided.

(2) Stairs, ladders, ladder rungs, and ramps shall be slip-resistant

(3) Where stairs and ramps are provided, they shall be equipped with a handrail.

(4) Ladders and handrails shall be constructed of corrosion-resistant materials, or provided with corrosion resistant coatings. Ladders and handrails shall have no exposed sharp edges.

(5) Ladders, handrails, and grab rails shall be securely anchored.

10. Chemical Storage

Pool 15.4(4)a:

Spa 15.51(4)a:

Pool

Spa

Swimming pool/spa treatment chemicals shall be stored & handled in accordance with the manufacturer's recommendations.

Chemical shall be stored & handled in accordance with the manufacturer's recommendations.

Chemical storage containers shall be clearly labeled.

A warning sign shall be placed on the door of rooms where chemical are used/stored, or where bulk containers are located.

11. Water Heater/Boiler

Pool 15.4(1)e:

Spa 15.51(1)h:

Pool

Spa

1. Electric water heaters shall bear the seal of UL, Underwriters Laboratory, Chicago, Illinois.

2. Gas-fired heaters shall be equipped with a pressure relief valve.

3. Fuel-burning water heaters shall be vented to the outside in accordance with the Iowa State Plumbing Code.
12. Agitation control system  
 Spa 15.51(4)1:  
 The agitation control system shall be installed out of the reach of persons in the spa. The "on" cycle for the agitation system shall be no more than ten minutes.
13. Electrical Outlets (GFI/distances, etc.)  
 Pool 15.4(4)m:  Spa 15.51(4)j:  
 Pool  Spa  
 Each electrical outlet on the deck, in the shower rooms & the swimming pool/spa treatment equipment areas shall be equipped with a properly installed ground fault circuit interrupter (GFCI) at the outlet or at the breaker serving the outlet. Electrical outlets energized through an ORP/pH controller are not required to have a separate GFCI if the controller is equipped with a GFCI or is energized through a GFCI breaker. GFCI receptacles & breakers shall be tested at least once each month the swimming pool/spa is in operation. Testing dates & results shall be recorded in the swimming pool/spa records.  
**N/A**  There shall be no outlets located on, or within 5 ft of, the inside wall of a spa.  
**N/A**  An air switch within reach of persons in the spa & its connecting tube shall be constructed of materials that do not conduct electricity.
14. Other  
 Pool  Spa

**G. STRUCTURE/DIVING**

1. Diving well  
 Pool 15.5(13)a: See FIGURE 3, TABLE 4 & page 39 & 40 of the Iowa Swimming Pools Code
2. Board & Platform:  
 Pool 15.5(13)a:  
 (4) Diving boards & platforms over 3 meters high are prohibited except where approved by the department.  
 (5) Diving boards & platforms shall have slip-resistant surfaces.
3. Water Depth  
 Pool 15.5(13)a: See FIGURE 3, TABLE 4 & page 39 & 40 of the Iowa Swimming Pools Code
4. Support Structure(s)  
 Pool 5.5(13)a(6)1:  
 Supports, platforms & steps for diving boards shall be of substantial construction & of sufficient structural strength to safely carry the maximum anticipated loads.
5. Chute Structure(s)  
 Pool 15.4(4)o:  
 1. Water slide support structures shall be free of obvious structural defects.  
 3. The internal surface of a flume shall be smooth and continuous for its entire length.  
 4. The flume shall have no sharp edges within reach of a user while in the proper sliding position.
6. Chute Exits  
 Pool 15.4(4)o:  
 2. Plunge pool depth shall be at least 3 ft and no more than 4 ft at the end of the flume and for at least 15 ft beyond the flume.
7. Other  
 Pool

**H. SHOWERS/TOILETS/DRESSING ROOMS**

1. Facilities Working  
 Pool 15.4(5)d,e:  
 All lavatories, showers & sanitary facilities shall be functional. Soap shall be available at each lavatory and at each indoor shower fixture.
2. Cleanliness  
 Pool 15.4(5):  
 Users shall have access to showers, dressing rooms & sanitary facilities that are clean & free of debris.
3. Floors  
 Pool 15.4(5)a,b:  
 Floors shall have a slip-resistant surface. Floors shall provide adequate drainage to prevent standing water.
4. GFI's/Hosebibs  
 Pool 15.4(4)m(1):  
 Electrical outlets in shower room areas shall be protected by properly installed ground fault circuit interrupter (GFCI) receptacles at the outlet or breaker serving the outlet. GFCI & breakers shall be tested at least once each month the swimming pool/spa is in operation. Testing dates & results shall be recorded in the swimming pool/spa records.  
 Pool 15.5(19)e:  
 Hose bibs shall be equipped with vacuum breaker backflow preventers.
5. Other  
 Pool  Spa

Additional Comments:

Prepared By: \_\_\_\_\_  
 Jason A. Decker EHS

08/18/2021

\_\_\_\_\_  
 Date Prepared: