

# Aquatic Facility Plan Review

One application is required for each proposed venue.

State and county laws require that a permit be issued prior to constructing or making repairs to an aquatic venue meant for public or semi-public use. Any change in plans or specifications of the venue after a permit has been issued must have written approval from the Pueblo Department of Public Health and Environment.

Fees are non-refundable. Email applications to [EHEPApplications@pueblocounty.us](mailto:EHEPApplications@pueblocounty.us)

Property information			
Project name			
Project description			
Site address for venue			
Venue type	<input type="checkbox"/> Swimming <input type="checkbox"/> Therapy <input type="checkbox"/> Wading <input type="checkbox"/> Interactive Play Feature <input type="checkbox"/> Other _____		
Venue location	<input type="checkbox"/> Indoor <input type="checkbox"/> Outdoor <input type="checkbox"/> Combination		
Water supply	<input type="checkbox"/> Private Well <input type="checkbox"/> Cistern <input type="checkbox"/> Municipal (specify) _____		
Bather type (select all that apply)	<input type="checkbox"/> Children ages 0-12 <input type="checkbox"/> Youth ages 13-17 <input type="checkbox"/> Adults <input type="checkbox"/> Adults ages 65+		
Qualified lifeguard(s)	<input type="checkbox"/> Present at all times when the aquatic venue is open <input type="checkbox"/> Not present when aquatic venue is open <input type="checkbox"/> Are not required for the proposed aquatic venue per MAHC 6.3.2		
Applicant and owner contact information			
Applicant Name			
Mailing Address, City, Zip			
Phone		Email	
Owner Name			
Mailing Address, City, Zip			
Phone		Email	
Designer contact information			
Designer Name			
Mailing Address, City, Zip			
Phone		Email	
The undersigned does hereby agree to comply with all PDPHE stipulations, the provisions of the 2022 Pueblo County MAHC, and all applicable State laws and regulations.			
Signature			Date

### Required document checklist

- ☐ Aquatic Venue Recirculation System Equipment Summary
- ☐ Aquatic Venue Hydraulic Analysis Summary
- ☐ Aquatic Venue Design Compliance Form – New Venue
- ☐ Design drawings, plot plan, flow diagrams to scale, which include (facility, venue, equipment room, chemical storage space, hygiene facility)
- ☐ Specification sheets for all equipment listed on Aquatic Venue Recirculation System Equipment Summary form
- ☐ Proof of NSF certification for all equipment listed on Aquatic Venue Recirculation System Equipment Summary form

Signature

Date

### Health Department use

☐ \$100 Application Fee

☐ \$50 x \_\_\_\_ hour Plan Review Fee

Approved by

Approval Date

# Aquatic Venue Design Compliance Form – New Venue

Instructions: Complete this form in its entirety and submit as an attachment to the application package for the construction of a new aquatic venue. Incomplete and/or unsigned forms will be returned. In signing this form, the designer certifies the design of the proposed aquatic venue conforms with the requirements set forth in the 2022 Pueblo County Model Aquatic Health Code, hereby referenced as the “MAHC”. If a variance from the MAHC design requirements is requested, the subsection of the code for the variance must be identified and justification for the request must be provided. Variances are granted at the sole discretion of PDPHE.

Definitions for terms used in this form can be found in Section 3.2 of the 2022 Pueblo County Model Aquatic Health Code.

The 2018 Model Aquatic Health Code was adopted by reference in 5 CCR 1003-5 Swimming Pools and Mineral Baths Section 1.3. This adoption by reference resulted in the creation and approval of the 2022 Pueblo County Model Aquatic Health Code (MAHC), approved by the PDPHE Board of Health on 11/24/2021.

Project Name		
Reference Document	Statement	Designer Signature
5 CCR 1003-5, Swimming Pools and Mineral Baths, Section 1.3	<p>1. The U.S. Department of Health and Human Services, Centers for Disease Control and Prevention’s (CDC) Model Aquatic Health Code (3rd Edition – 2018) is hereby incorporated into these regulations by reference and is available from the CDC’s website at <a href="https://www.cdc.gov/mahc/editions/current.html">https://www.cdc.gov/mahc/editions/current.html</a>.</p> <p>A. Where pool and spa construction standards in the MAHC conflict with locally adopted building, electrical, or plumbing codes, the more stringent of the conflicting code language shall have precedence.</p> <p>B. A city, town, a city and county, or a county or district board of public health established pursuant to section 25-1-508, C.R.S. may, at its sole discretion, voluntarily choose to adopt the Model Aquatic Health Code, in whole or in part, into its local ordinances or rules, to be administered and enforced by such city, town, city and county, or local public health agency.</p> <p>C. The department is not authorized to administer/enforce the Model Aquatic Health Code, and instead shall administer/enforce the regulations below in jurisdictions that do not have a voluntary swimming pool and mineral bath program.</p>	
2022 Pueblo County MAHC, Section 1.3	These regulations hereby adopt and incorporate the U.S. Department of Health and Human Services Centers for Disease Control and Prevention’s “2018 Model Aquatic Health Code” (July 2016) § 4.0, Facility Design and Construction Standards, by reference, and those sections of the Model Aquatic Health Code cross-referenced therein, not including any further editions or amendments thereof and only to the extent that the provisions therein are not inconsistent with these regulations. Signature in the block to the right serves as acknowledgement of this design requirement of the 2022 Pueblo County MAHC, Section 1.3.	
Standard Methods for the Examination of Water and Wastewater, 2022 Pueblo County MAHC, Section 4.7.6.3	These regulations hereby adopt and incorporate the American Public Health Association/American Water Association/Water Environmental Federation’s “Standard Methods for the Examination of Water and Wastewater, 23rd Edition” (2017) by reference, not including any further editions or amendments thereof and only to the extent that the provisions therein are not inconsistent with these regulations. Signature in the block to the right serves as acknowledgement of this design requirement of 2022 Pueblo County MAHC, Section 4.7.6.3.	
Codes, Standards, and Laws Referenced in the MAHC Code, MAHC, Section 3.3	These regulations hereby adopt and incorporate numerous codes, standards, and laws by reference, not including any further editions or amendments thereof and only to the extent that the provisions therein are not inconsistent with these regulations. Signature in the block to the right serves as acknowledgement of this design requirement of the 2022 Pueblo County MAHC, Section 3.3.	

Application packages for proposed aquatic venues must include the following elements listed in Section 4.1 of the 2022 Pueblo County MAHC. Use the boxes to the right in the following section to indicate where these elements can be found in your application package.

2022 Pueblo County MAHC Section Citation		Application Reference (drawing/page number, document name)
4.1.1.1	AQUATIC FACILITY construction plans shall be designed to provide sufficient clarity to indicate the location, nature, and extent of the work proposed.	
4.1.1.2	AQUATIC FACILITY construction plans shall show in detail that it will conform to the provisions of this CODE and relevant laws, ordinances, rules, and regulations, as determined by PDPHE and to protect the health and SAFETY of the facility's BATHERS and PATRONS.	
4.1.1.3	No person shall begin to construct a new AQUATIC FACILITY or shall SUBSTANTIALLY ALTER an existing AQUATIC FACILITY without first having the construction plans detailing the construction or SUBSTANTIAL ALTERATION submitted to and approved by PDPHE. Approval cannot be completed without payment of fees per the PDPHE fee schedule, where applicable.	
4.1.1.4	All plans shall be prepared by a design professional who is registered or licensed to practice their respective design profession as defined by the state or local laws governing professional practice within the jurisdiction in which the project is to be constructed.	
4.1.1.5	All construction plans shall include the following statements: 1) "The proposed aquatic facility and all equipment shall be constructed and installed in conformity with the approved plans and specifications or approved amendments," and 2) "No substantial alteration, changes, additions, or equipment not specified in the approved plans can be made or added until the plans for such substantial alteration, changes, additions, or equipment are submitted to and approved by PDPHE."	
4.1.2.1.1	AQUATIC FACILITY plans shall include the name, address, and contact information for the owner, designer, and builder if available at the time of submission.	
4.1.2.1.2	AQUATIC FACILITY plans shall include site information indicating at a minimum the location of all utilities, wells, topography, natural water features, and potential sources of surface drainage and pollution which may affect the proposed AQUATIC FACILITY.	
4.1.2.1.3	AQUATIC FACILITY plans shall include a site plot plan including: 1) A general map and detailed scaled drawings of the AQUATIC FACILITY site plan or floor plan with detailed locations of the AQUATIC VENUES and AQUATIC FEATURES; and 2) The locations of all water supply facilities, sources of drinking water, public or private sewers, and relative elevations of paved or other walkways and the EQUIPMENT ROOM floor shall be shown on the plans with the elevations of storm and sanitary sewer inverts and street grade.	
4.1.2.2.1	Detailed scaled and dimensional drawings for each individual AQUATIC VENUE shall include an AQUATIC VENUE area plan and layout plan along with dimensioned longitudinal and transverse cross sections of the AQUATIC VENUE.	
4.1.2.2.1.1	The design documents shall include a record of operating conditions ( <i>water temperature(s), space temperature, space relative humidity, space dew point</i> ) and intended use for each type of VENUE ( <i>FLAT WATER, AGITATED WATER, HOT WATER</i> ) accepted by both the designer and owner/operator.	
4.1.2.2.2	Detailed scaled and dimensional drawings for each individual AQUATIC VENUE shall include location and type of: <ol style="list-style-type: none"> <li>1) INLETS,</li> <li>2) Overflows,</li> <li>3) Drains,</li> <li>4) Suction outlets,</li> <li>5) Overflow gutters or devices,</li> <li>6) Piping,</li> <li>7) Designed POOL water elevation,</li> <li>8) AQUATIC FEATURES such as ladders, stairs, diving boards, SLIDES, and play features,</li> <li>9) Lighting,</li> </ol>	

	10) Pool markings, and 11) Surface materials	
4.1.2.2.3	<p>Detailed scaled and dimensional drawings of the AQUATIC FACILITY and for each individual AQUATIC VENUE, as appropriate, shall include location and type of:</p> <ol style="list-style-type: none"> <li>1) Design of DECK, curb, or walls enclosing the AQUATIC VENUE,</li> <li>2) DECK drains,</li> <li>3) Paved walkways and other hardscape features,</li> <li>4) Non-slip flooring,</li> <li>5) AQUATIC VENUE area finishes,</li> <li>6) Drinking fountains or other sources of drinking water,</li> <li>7) Entries and exits,</li> <li>8) Hose bibs,</li> <li>9) Fences,</li> <li>10) Telephones, and</li> <li>11) Area lighting.</li> </ol>	
4.1.2.2.4	<p>Detailed scaled and dimensional drawings for each individual AQUATIC VENUE shall contain a flow diagram showing the location, plan, elevation, and schematics of:</p> <ol style="list-style-type: none"> <li>1) Filters,</li> <li>2) Pumps,</li> <li>3) Chemical feeders and interlocks</li> <li>4) Chemical controllers and interlocks,</li> <li>5) SECONDARY DISINFECTION SYSTEMS, if required,</li> <li>6) Supplemental DISINFECTION systems, if installed,</li> <li>7) Ventilation devices or AIR HANDLING SYSTEMS,</li> <li>8) Heaters,</li> <li>9) Surge tanks, including operating levels,</li> <li>10) BACKFLOW prevention assemblies and air gaps,</li> <li>11) Valves,</li> <li>12) Piping,</li> <li>13) Flow meters,</li> <li>14) Gauges,</li> <li>15) Thermometers,</li> <li>16) Test cocks,</li> <li>17) Sight glasses, and</li> <li>18) Drainage system for the disposal of AQUATIC VENUE water and filter wastewater.</li> </ol>	
4.1.2.2.5	Detailed scaled and dimensional drawings for each individual AQUATIC VENUE shall contain a schematic layout of the AQUATIC VENUE EQUIPMENT ROOM (or EQUIPMENT AREA if permitted by PDPHE) showing accessibility for installation and maintenance.	
4.1.2.2.6	Detailed scaled and dimensional drawings for each individual AQUATIC VENUE shall contain a schematic layout of the AQUATIC FACILITY CHEMICAL STORAGE SPACE(S).	
4.1.2.2.7	Detailed scaled and dimensional drawings for each AQUATIC FACILITY shall show the location and number of all available HYGIENE FACILITIES provided including dressing rooms, lockers and basket STORAGE, SHOWERS, lavatory, toilet FIXTURES, and DIAPER-CHANGING STATIONS.	

4.1.2.3.1	Technical specifications for the construction of each AQUATIC VENUE and all appurtenances shall accompany the drawings for the AQUATIC FACILITY plans.	
4.1.2.3.2	The following technical specifications shall be provided for each AQUATIC FACILITY: POOL water temperatures, Space design, Dry bulb and dew point temperatures, and Relative humidity.	
4.1.2.3.2.1	Each AQUATIC VENUE shall include all construction details not shown on the plans that relate to the AQUATIC FACILITY.	
4.1.2.3.2.2	Design of the ventilation and AIR HANDLING SYSTEMS for INDOOR AQUATIC FACILITIES shall include consultation with, and input by, the owner/operator to address intended use, type of VENUE (FLAT WATER, AGITATED WATER, HOT WATER) and intended typical operating water temperature.	
4.1.2.3.3	The technical specifications for each AQUATIC FACILITY shall include the sources of all water supplies.	
4.1.2.3.4	Technical specifications shall include the water surface area and volume of each AQUATIC VENUE and associated water features, if applicable.	
4.1.2.3.5	The technical specifications for each AQUATIC FACILITY and each AQUATIC VENUE shall include THEORETICAL PEAK OCCUPANCY, respectively.	
4.1.2.3.5.1	The THEORETICAL PEAK OCCUPANCY for an AQUATIC VENUE shall be used for designing systems that serve BATHERS and PATRONS. (Note: The specified density factors are the lower limits for determining THEORETICAL PEAK OCCUPANCY.)	
4.1.2.3.5.2	The THEORETICAL PEAK OCCUPANCY for an AQUATIC FACILITY shall be used for designing systems that serve BATHERS and PATRONS and shall incorporate non-water related areas such as DECKS and other adjacent portions of the AQUATIC FACILITY not associated with the AQUATIC VENUE.	
4.1.2.3.5.3	The THEORETICAL PEAK OCCUPANCY shall be calculated by dividing the surface area in square feet of the AQUATIC VENUE by the density factor (D) that fits the specific AQUATIC VENUE being considered. THEORETICAL PEAK OCCUPANCY = AQUATIC VENUE Surface Area / D The density factors (D) are: Water/BATHER-related: <ol style="list-style-type: none"> <li>1) FLAT WATER density factor = 20 ft<sup>2</sup> (1.9 m<sup>2</sup>) per BATHER.</li> <li>2) AGITATED WATER density factor = 15 ft<sup>2</sup> (1.4 m<sup>2</sup>) per BATHER.</li> <li>3) HOT WATER density factor = 10 ft<sup>2</sup> (0.9 m<sup>2</sup>) per BATHER.</li> <li>4) WATERSLIDE LANDING POOL density factor = manufacturer-established capacity at any given time.</li> <li>5) INTERACTIVE WATER PLAY water density factor = 10 ft<sup>2</sup> (0.9 m<sup>2</sup>) per BATHER on surface.</li> <li>6) SURF POOL density factor = manufacturer-established capacity at any given time.</li> <li>7) Non-water/PATRON-related</li> <li>8) DECK density factor = 50 ft<sup>2</sup> (4.6 m<sup>2</sup>) per BATHER.</li> <li>9) STADIUM SEATING density factor = 6.6 ft<sup>2</sup> (0.6 m<sup>2</sup>) per BATHER.</li> </ol>	
4.1.2.3.5.3.1	The density factors in MAHC 4.1.2.3.5.3 may be modified for higher BATHER or PATRON density, but they shall not be modified to result in less BATHERS per square foot than listed for the factors in MAHC 4.1.2.3.5.3.	
4.1.2.3.5.3.2	The THEORETICAL PEAK OCCUPANCY for an AQUATIC FACILITY shall be determined by adding the calculations for each AQUATIC VENUE in the AQUATIC FACILITY.	
4.1.2.3.6	The technical specifications and supplemental engineering data for each AQUATIC FACILITY and each AQUATIC VENUE shall include: <ol style="list-style-type: none"> <li>1) Detailed information on the type, size, operating characteristics, and rating of all mechanical and electrical equipment;</li> <li>2) Hydraulic computations for head loss in all piping and recirculation equipment;</li> </ol>	

	3) Pump curves that demonstrate that the selected recirculation pump(s) are adequate for the calculated required flows; and 4) For INDOOR AQUATIC FACILITIES, documentation that demonstrates that the INDOOR AQUATIC FACILITY is designed to meet the acoustic design criteria contained in MAHC 4.6.11. 5) Documentation per MAHC 4.7.3.2.2.3 to demonstrate that the selected DISINFECTANT feeders/equipment are of sufficient size and capacity, including evaluation of the CHLORINE demand factors in MAHC 4.7.3.2.2.2.1.	
4.1.2.3.7	The technical specifications for each AQUATIC VENUE shall include the recirculation rate and TURNOVER TIME.	
4.1.2.3.8	The technical specifications for each AQUATIC VENUE shall include information on the filter media such as diatomaceous earth, sand, gravel, or other approved material.	
4.1.2.3.9	The technical specifications for each AQUATIC VENUE shall include information on each piece of equipment associated with that AQUATIC VENUE.	
4.1.2.3.10	The technical specifications for each AQUATIC FACILITY shall include information on all aquatic SAFETY equipment.	
4.1.2.3.11	The layout for zones of PATRON surveillance as specified in MAHC 6.3.3.1.1 shall be included and must show features or design configurations that can impact PATRON surveillance.	
4.1.2.3.12	The technical specifications for each AQUATIC FACILITY and each AQUATIC VENUE shall include additional information related to the project requested by PDPHE for the purposes of the construction of the AQUATIC FACILITY and each AQUATIC VENUE and all appurtenances.	
4.1.3.1.1	PDPHE shall clearly state on the plans the limitations of their approval.	No Application Reference Required
4.1.3.1.2	The approval shall also state that it is independent of all other required approvals such as Building, Zoning, Fire, Electrical, Structural, and any other approvals as required by local or state law or CODE and the applicant must separately obtain all other required approvals and permits.	No Application Reference Required
4.1.3.1.3	PDPHE shall coordinate their AQUATIC FACILITY plan review and communicate their approval with other agencies involved in the AQUATIC FACILITY construction.	No Application Reference Required
4.1.3.1.4	PDPHE shall provide a plan submission compliance review list to the AQUATIC FACILITY owner with the following information: <ol style="list-style-type: none"> <li>1) Categorical items marked satisfactory, unsatisfactory, not applicable, or insufficient information;</li> <li>2) A comment section keyed to the compliance review list shall detail unsatisfactory and insufficient;</li> <li>3) Indication of PDPHE approval or disapproval of the AQUATIC FACILITY construction plans;</li> <li>4) In the case of a disapproval, specific reasons for disapproval and procedure for resubmittal; and</li> <li>5) Reviewer's name, signature, and date of review.</li> </ol>	No Application Reference Required
4.1.3.1.5	The AQUATIC FACILITY owner shall maintain at least one set of their own approved plans made available to PDPHE on file for as long as the AQUATIC FACILITY is in operation.	No Application Reference Required
4.1.3.2.1	The AQUATIC FACILITY owner planning a non-SUBSTANTIAL ALTERATION shall contact PDPHE to review proposed changes prior to starting the non-SUBSTANTIAL ALTERATION.	No Application Reference Required
4.1.3.2.2	The AQUATIC FACILITY operator shall consult with PDPHE to determine if new or modified plans must be submitted for plan review and approval for other non-SUBSTANTIAL ALTERATIONS proposed.	No Application Reference Required
4.1.3.3.1	Prior to replacing equipment, the AQUATIC FACILITY owner shall submit technical verification to PDPHE that all replacement equipment is equal to that which was originally approved and installed.	No Application Reference Required
4.1.3.3.2	The replacement of pumps, filters, feeders, controllers, SKIMMERS, flow meters, valves, or other similar equipment with identical or substantially similar equipment may be done without submission to PDPHE for approval of new or altered AQUATIC FACILITY plans.	No Application Reference Required
4.1.3.3.3	In emergencies, the replacement may be made prior to receiving PDPHE's approval, with the owner accepting responsibility for proper immediate replacement, if the equipment is not deemed equivalent by PDPHE.	No Application Reference Required

4.1.3.3.1	Where emergency replacements are installed as per MAHC 4.1.3.3.3, the owner shall submit documentation for review and approval of the replacement to PDPHE within 45 days.	No Application Reference Required
4.1.3.3.4	PDPHE shall provide the AQUATIC FACILITY owner written approval or disapproval of the proposed replacement equipment's equivalency.	No Application Reference Required
4.1.3.3.5	Documentation of proposed, approved, and disapproved replacements shall be maintained in PDPHE's AQUATIC FACILITY files.	No Application Reference Required
4.1.4.1	A certificate of construction compliance shall be submitted to PDPHE for all AQUATIC FACILITY plans for new construction and SUBSTANTIAL ALTERATIONS requiring PDPHE approvals.	
4.1.4.2	This certificate shall be prepared by a licensed professional and be within the scope of their practice as defined by the state or local laws governing professional practice within the jurisdiction of the certificate issuing official.	
4.1.4.3	The certificate shall also include a statement that the AQUATIC FACILITY, all equipment, and appurtenances have been constructed and/or installed in accordance with approved plans and specifications.	
4.1.4.4	If commissioning or testing reports for systems such as AQUATIC FACILITY lighting, air handling, recirculation, filtration, and/or DISINFECTION are conducted, then those reports shall be included in furnished documentation.	
4.1.4.5	Documentation of AQUATIC FACILITY new construction or SUBSTANTIAL ALTERATION plan compliance shall be maintained in PDPHE's AQUATIC FACILITY files.	No Application Reference Required
4.1.5.1	Construction permits required in this CODE and all other applicable permits shall be obtained before any AQUATIC FACILITY may be constructed.	
4.1.5.2	A construction permit or other applicable permits may be required from Pueblo Regional Building Department or other applicable agency before SUBSTANTIAL ALTERATION of an AQUATIC FACILITY.	
4.1.5.3	PDPHE shall issue a certificate to the owner to operate the AQUATIC FACILITY: 1) After receiving a certificate of completion from the design professional verifying information submitted, and 2) When new construction, SUBSTANTIAL ALTERATIONS, or annual renewal requirements of this CODE have been met.	No Application Reference Required
4.1.5.4	The Certificate of Operation to operate may be withheld, revoked, or denied by PDPHE for noncompliance of the AQUATIC FACILITY with the requirements of this CODE, and the owner will be provided: 1) Specific reasons for disapproval and procedure for resubmittal; 2) Notice of the rights to appeal this denial and procedures for requesting an appeal; and 3) Reviewer's name, signature and date of review and denial.	No Application Reference Required
4.1.5.5	Documentation of AQUATIC FACILITY Certificate of Operation renewal or denial shall be maintained in PDPHE's AQUATIC FACILITY files.	No Application Reference Required



To complete the following table, refer to the requirements of the 2022 Pueblo County MAHC, Sections 4.2 through 4.12, including all subsections. In signing this section, the Designer certifies the design of this aquatic venue incorporates Sections 4.2 through 4.12 of the 2022 Pueblo County MAHC.

MAHC Section	Statement	Variance Request Check box. If a variance is requested, complete one PDPHE Variance Request Form per variance request.	Designer Signature
4.2	<b>MATERIALS:</b> All materials for the proposed AQUATIC VENUE, including those materials specific to indoor AQUATIC VENUES, comply with the requirements set forth in MAHC Section 4.2, apart from the following requested variance(s).	Variance requested, see attached documentation.  No variance requested.	
4.3	<b>EQUIPMENT STANDARDS:</b> Equipment selected for the proposed AQUATIC VENUE comply with the requirements set forth in MAHC Section 4.3, apart from the following requested variance(s).	Variance requested, see attached documentation.  No variance requested.	
4.5	<b>AQUATIC VENUE STRUCTURE:</b> The design for the proposed AQUATIC VENUE, including risk management considerations, bottom slope, pool access/egress, stairs, handrails, grab rails, recessed steps, ladders, zero depth (sloped) entries, disabled access, color and finish, walls, structural stability, handholds, infinity edges, underwater benches, underwater ledges, underwater shelves, depth markers and markings, and the additional requirements for special use aquatic venues, comply with the requirements set forth in MAHC Section 4.5, apart from the following requested variance(s).	Variance requested, see attached documentation.  No variance requested.	
4.6	<b>INDOOR/OUTDOOR ENVIRONMENT:</b> Lighting, indoor aquatic venue ventilation, indoor/outdoor aquatic venue electrical system components, pool water heating, first aid area, emergency exit, drinking fountains, garbage receptacles, food and drink concessions, and spectator areas for the proposed AQUATIC VENUE comply with the requirements set forth in MAHC Section 4.6, apart from the following requested variance(s).	Variance requested, see attached documentation.  No variance requested.	
4.7	<b>RECIRCULATION AND WATER TREATMENT:</b> Recirculation systems and equipment, filtration, disinfection and pH control, and the water replenishment system for the proposed AQUATIC VENUE, as well as additional requirements for proposed spas, comply with the requirements of MAHC 4.7, apart from the following requested variance(s).	Variance requested, see attached documentation.  No variance requested.	
4.8	<b>DECKS AND EQUIPMENT:</b> Decks, diving boards and diving platforms, starting platforms, pool slides, lifeguard and safety-related equipment, barriers and enclosures, and aquatic venue cleaning systems for the proposed AQUATIC VENUE comply with the provisions of MAHC 4.8, apart from the following requested variance(s).	Variance requested, see attached documentation.  No variance requested.	
4.9	<b>FILTER/EQUIPMENT ROOM:</b> The equipment room and chemical storage areas for the proposed AQUATIC VENUE comply with the provisions of MAHC 4.9, apart from the following requested variance(s).	Variance requested, see attached documentation.  No variance requested.	

4.10	<b>HYGIENE FACILITIES:</b> The location; design and construction; plumbing fixtures; the incorporation of adequate space for VENUES that supply reusable suits, towels, and shared equipment; the provision of sharps containers; the prohibition of food baths; and design features that satisfy general hygiene facility requirements for the proposed AQUATIC VENUE comply with the provisions of MAHC 4.10, apart from the following requested variance(s).	Variance requested, see attached documentation.  No variance requested.	
4.11	<b>WATER SUPPLY/WASTEWATER DISPOSAL:</b> Water supply, fill spout, cross-connection control, deck drains and rinse showers, sanitary waste disposal, and pool wastewater disposal for the proposed facility comply with the provisions of MAHC 4.11, apart from the following requested variance(s).	Variance requested, see attached documentation.  No variance requested.	
4.12	<b>SPECIFIC AQUATIC VENUES:</b> In addition to compliance with MAHC Sections 4.2-MAHC 4.11, proposed spas, waterslides and landing pools, wave pools, therapy pools, lazy rivers, moveable floors, bulkheads, interactive water play venues, wading pools, and other aquatic features not otherwise addressed in the MAHC also comply with the provisions of MAHC 4.12, apart from the following requested variance(s).	Variance requested, see attached documentation.  No variance requested.	

# Aquatic Venue Hydraulic Analysis Summary

One Hydraulic Analysis Summary is required for each proposed venue.

Project Name									
<b>Venue type, shape, dimension, area, capacity, turnover time</b>									
Venue Type	Swimming	Therapy	Wading	Interactive Play Feature	Other: _____				
Venue Shape (e.g., rectangular)				Perimeter (ft)					
Length (ft)					Width (ft)				
Minimum depth (ft)					Maximum depth (ft)				
Surface Area (sq. ft.)					Volume (gallons)				
Maximum bather capacity					Anticipated bather load/day				
Minimum turnover time per MAHC (hours)					Shell Type		Gunite	Poured	Other
<b>Total dynamic head of recirculation system</b>									
Minimum theoretical total dynamic head (TDH) (feet). Assume all circulation valves fully open, clean skimmer and pump baskets, clean filter, eye-ball fittings removed from return inlets.									
Maximum theoretical TDH (feet)									
<b>Pumps</b>									
Number of recirculation pumps (excluding chemical feed pumps)									
Pump 1			Pump 2			Pump 3			
Speed Type	Single	Variable	Speed Type	Single	Variable	Speed Type	Single	Variable	
Rated capacity (gpm vs. ft head)			Rated capacity (gpm vs. ft head)			Rated capacity (gpm vs. ft head)			
Maximum flow rate operating at minimum theoretical TDH and maximum RPM (gpm)			Maximum flow rate operating at minimum theoretical TDH and maximum RPM (gpm)			Maximum flow rate operating at minimum theoretical TDH and maximum RPM (gpm)			
<b>Filters</b>									
Number of filters					Type of filter		Granular Media	Precoat	Cartridge
Area per filter (square ft)					Total filter area (square ft)				
Manufacturer maximum permissible flow rate per square ft (gpm)									
Maximum permissible flow rate per square ft per regulation (gpm)									
Maximum permissible flow rate for operation based on a) filter area and b) the stricter of manufacturer or regulatory flow rate restrictions (gpm)									
<b>Skimmers</b>									
Number of skimmers									
Manufacturer permissible flow range per skimmer (gpm)									
Flow per skimmer with pool operating at 100% of maximum flow rate through skimmer system (gpm)									
Manufacturer maximum flow rating per equalizer suction cover									

<b>Floor drains (suction)</b>			
Number of floor and/or wall drains (denoted as "N" for calculation below)			
Manufacturer maximum flow rating per drain cover (gpm)			
Maximum flow per floor drain, with 100 percent maximum theoretical system flow directed through N-1 floor drains (gpm)			
Minimum distance between floor drains (ft, measured from center to center)			
<b>Inlets</b>			
Number of Inlets			
<b>Piping</b>			
Maximum pipe velocity, suction side (ft/sec)		Maximum pipe velocity, pressure side (ft/sec)	
<b>Water supply and wastewater disposal</b>			
Source of water for venue			
Source of water for consumption			
Pool discharges to			
Deck drains discharge to			
Filter backwash discharges to			
Toilet and showers discharge to			
<b>Designer contact information</b>			
Signature			
Date			

# Aquatic Venue Recirculation System Equipment Summary

One Equipment Summary is required for each proposed venue.

Instructions: Specifications and certification demonstrating compliance with the specified NSF Standard must be attached for all equipment listed on this summary sheet. Application packages that lack appropriate signatures or are missing specification sheets and/or documentation of NSF certification are incomplete and will be returned to the applicant.

Project Name			
<b>Equipment</b>	<b>Make</b>	<b>Model</b>	<b>Quantity used</b>
Filter			
Pump			
Automated controller			
Disinfectant feeder			
Interlock method (choose 2)	<input type="checkbox"/> Recirculation pump power monitor <input type="checkbox"/> Flow meter/switch in the return line <input type="checkbox"/> Flow meter/switch at the chemical controller		
pH adjustment feeder			
Interlock method (choose minimum of 2)	<input type="checkbox"/> Recirculation pump power monitor <input type="checkbox"/> Flow meter/switch in the return line <input type="checkbox"/> Flow meter/switch at the chemical controller		
Flow meter			
Skimmers			
Skimmer equalizer cover assemblies			
Floor drain cover assemblies			
Heater			
Pressure gauges			
Vacuum gauges			
Other			
Other			
Other			
Other			
<b>Designer contact information</b>			
Signature			
Date			

## Acknowledgement of Americans with Disabilities Act requirement for public aquatic venues

Certain public aquatic venues are required to comply with Americans with Disabilities Act (ADA) accessibility requirements. It is incumbent on the applicant who proposes to construct an aquatic venue to determine the extent to which the requirements of the ADA apply or if the proposed facility is exempt from ADA requirements. The applicant can find the ADA requirements at [https://www.ada.gov/2010ADASTandards\\_index.htm](https://www.ada.gov/2010ADASTandards_index.htm).

In reviewing your application for the construction of an aquatic venue, the Pueblo Department of Public Health and Environment (PDPHE) will not evaluate the appropriateness of the presence or absence of ADA accessibility features. Further, PDPHE will not seek proof that you have satisfied the requirements of the ADA or have obtained an exemption from the requirements of the ADA. Thus, in granting approval for the construction of the proposed aquatic venue, PDPHE in no way implies that the aquatic venue as designed and constructed satisfies the requirements of the ADA.

By signing this form, you attest that PDPHE has advised you of the above. Further, you agree that should the enforcing agency in the future determine that the aquatic venue is non-compliant with the ADA, no penalties or costs to correct deficiencies shall be at the expense of PDPHE or its authorized agents.

### Acknowledgement

(to be completed by the applicant/authorized agent on the Application – Construction of a New Aquatic Venue form)

I, \_\_\_\_\_ (print name), have read and understand the above.

Signature	
Date	