



Open Water Safety Plan

Application Instructions

- Before applying for a USMS open water sanction, event hosts must review their event information and safety plans with their LMSC Sanctioning Officer. Upon approval from the LMSC Sanctioning Officer, the event host is then ready to apply for sanction.
- When applying for a USMS open water sanction, event hosts are required to submit their safety plan for review and approval by the Open Water Compliance Coordinator (OWCC) ON THIS APPLICATION through the online sanction process. We welcome additional supporting information—after all, many event hosts have developed extensive safety plans over years of hosting events—but everyone must submit this completed application to ensure that all pertinent points are covered in safety planning.
- Using a Google Earth map or equivalent, event hosts are also required to upload a map of the venue and course with the safety plan application. Maps must include locations of start & finish, guide & turn buoys, feeding stations, safety craft, lifeguards/first responders, on-site medical care, and evacuation points.
- In the best scenario, the Safety Director should assist the event host in the developing the event safety plan. If the Safety Director did not take part in developing of the safety plan (usually in the case of appointment after the sanction request or in the case of a substantially unchanged safety plan developed over years of experience), the event host must give the Safety Director a copy of the approved safety plan.
- Upon request, USMS OWCC David Miner will send you a copy of the approved safety plan. Contact David at openwateradvisor@usmastersswimming.org or 941-545-9709.

Open Water Safety Plan Application

Event Information

General Information

Name of Host: [New Wave Swim Team](#)
Name of Event: 2025 NC Open Water Championships
Event Location: Lake Echo, Seven Lakes
City: West End State: NC LMSC: NC
Event Dates: 5/30/2025 through 5/31/2025
Length of Swim(s): 400M, 800M, 2K, 3K
Dual Sanctioned with USA-Swimming: Yes

Key Event Personnel

Event Director: [Jonathan Besch](#). Phone: (919) 320-4998 E-mail: coachbesch@newwaveswimteam.org
Referee: [Thornton Burnette](#) Phone: 910-730-5775 E-mail: THOR8550@AOL.COM
Certified Safety Director: [Ed Hill](#). Phone: 910-691-2616 E-mail: e.hill@lpl.com

Pre-Race Safety Meeting (required): all officials & safety personnel must attend

Tentative date: 5/30/2025 Time: [4:45 PM](#) (and 5/31/25 7:15 AM)

Tentative agenda: [Escort craft, Swim procedures, Communication, Contingency Plans, Emergency Care, Abandonment of race, Severe weather](#)

Pre-Race Swimmer Meeting (required): all officials & swimmers must attend to participate in race

Tentative date: 5/30&31/2025 Time: [20 min before each race](#)

Tentative agenda: Race procedures, Safety information

Course & Event Conditions

The Course

Body of water: Lake Water type: Fresh Water Water depth from: 20 ft to: average

Course: Open - non-event watercraft allowed near swim course

If open course, indicate the agency used to control the traffic while swimmers are on the course.

Agency name: Seven Lakes Landowners Assoc. closes the lake for the races How to contact during event: 910 673-5060

Expected water conditions for the swimmers: (marine life, tides, currents, underwater hazards): Calm—residential lake used for small boats and recreation swimming, no hazards expected.

How is the course marked?

- Turn buoy(s): Height(s) 5.5 ft Color(s) Orange Shape(s) Triangular
- Guide buoy(s): Height(s) 3 ft Color(s) Yellow Shape(s) Triangular
- Approximate Distance between Guide buoys: 150 m

Number of Feeding Stations: 0

Type of structure(s) used as feeding station(s): N/A

Number of people the structure(s) can safely hold: N/A

Water & Air Temperatures

Expected air temp range: 80-90

Expected water temp range: 78-80

Wetsuits: Not allowed

USMS Water Temperature Index for sanctioned open water events:

- Below 57°F (Very Cold) – heat retaining swimwear and a Thermal Plan for Cold Water Swims is **REQUIRED**
- 57°F-60°F (Cold) - heat-retaining swimwear is required or a Thermal Plan for Cold Water Swims is **REQUIRED**
- 60°F-66°F (Quite cool) - Thermal Plan for Cold Water Swims is **RECOMMENDED**
- 66°F-72°F (Fairly cool) - Thermal Plan for Cold Water Swims is **ENCOURAGED**
- 72°F-78°F (Cool) - No Thermal Plan required
- 78°F-82°F (Optimal) - Heat-retaining swimwear & neoprene caps are not permitted above 78°F.
- 82°F-85°F (Warm) - Thermal Plan for Warm Water Swims is **RECOMMENDED**
- 85°F-87.8°F (Very warm) - Thermal Plan for Warm Water Swims is **REQUIRED**
- 87.8°F-95°F (Hot) - Sanctioned open water swims cannot be held
- Over 95°F (Extremely hot) - Any swimming is ill-advised

USMS Water Temperature Measurement Procedure: Using an accurate thermometer, the event host should take three to five measurements at various places on the course—12 to 18 inches below the water surface and no closer to the shore than 25 meters (if possible)—within one hour before the start of an open water swim. The host should average these measurements, post and/or announce the resulting average temperature at least 30 minutes before the start of the swim, and announce it during the pre-race staff safety and swimmers' meetings.

Water Quality

It is recommended that one week before the event, check water quality. If results returned are inconsistent with the local governing body's standards, notify swimmers who participated in the event of any known exposures post-race. If an exceptional event such as heavy rain or flooding affects the water quality, the Event Director, Referee, or Safety Director shall have the authority to postpone or cancel the race. It is recommended to take and retain water samples on race day and retain for reference.

Lake Echo is part of Seven Lakes, NC, a private community. <http://www.sevenlakesnc.org/>. The landowners' association tests the water regularly, as the lakes are used for swimming as well as boating.

Event Safety

Medical Personnel

Lead medical personnel (emergency trained) on site: Heather Milkowich, [Qualification](#)

Experience in sporting events (Marathon, Triathlon, Open water swim, etc.): Yes

Will medical personnel be located on the course? No

The number of medical personnel will be dependent on the course layout, number of swimmers in the water, expected conditions, etc. How many medical personnel do you plan to have on site? 2

First Responders/Lifeguards & Monitors

Indicate the qualifications of the first responders: ARC Lifeguards

Number on course: 5

Number on land: 10+

Indicate their location on the Race Plan Map.

Onsite Medical Care & Facilities

Describe onsite set up for medical care, such as medical treatment tent, heating/cooling tent or facility. etc., and indicate locations on the Race Plan Map. EMS & medical personnel located at Start/Finish area. Shade available.

Ambulance/Emergency Transportation & Nearby Medical Facilities

Ambulance(s) onsite: 910-673-8151

On Call: Available closer to event date

Have you spoken with local emergency response agency regarding potential emergencies? Yes

Closest medical facility: FirstHealth Moore Regional, Pinehurst

Phone: 910-715-1000

Type of medical facility (urgent care, hospital, etc.): Hospital

Distance to closest medical facility: 10-20 miles Approximate transport time: 18

Watercraft

Motorized Watercraft:

- Owned/operated by government agencies (Coast Guard, police, fire & rescue, etc.): 0
- Owned/operated by volunteers or hired individuals: 1

Will all motorized watercraft with a propeller owned/operated by volunteers or hired individuals be equipped either with a propeller guard or a swimmer monitor? Yes

Other motorized watercraft:

- With propellers fore of the rudder: 0
- With impeller motor (jet ski, jet boat): 0
- Anchored from start to finish: 0

Allocation of Watercraft:

- Safety Watercraft:
 - 1st Responders: Motorized: 0 Non-motorized: 0
 - 2nd Responders: Motorized: **0** Non-motorized: **9**
- Watercraft for race officials: Motorized: 0 Non-motorized: 1
- Watercraft for race supervision: Motorized: 1 Non-motorized: 0
- Watercraft for feeding stations: Motorized: 0 Non-motorized: 0
- Watercraft for escorted events: Motorized: 0 Non-motorized: 0

- Other event watercraft: N/A

Emergency Signal Flag Color for all watercraft: Red

Communications

Primary method between event officials: Radio Secondary method: Cell Phone

Primary method between medical personnel, first responders & safety craft: Radio (separate channel from Meet Officials)

Secondary method: Cell Phone

Swimmer Counting & Accountability

Describe method of swimmer body numbering: Both upper arms, both hands

Describe method of electronic identification of swimmer (Recommended): Chips by FS Series

Describe different bright cap colors for various divisions (Recommended): Bright caps will differentiate genders

Describe method of accounting for all swimmers before, during and after swim(s): Max athletes on course: 200
Chip check on entry into water & manual count. Chip finish w/ race numbers both punched & written down; videotaping start/finish. Head counts into and out of the water also will be used.

Describe method of accounting for swimmers who do not finish: Swimmers w/drawing from race will check in w/ race admin.

Warm-up/Warm-down Safety Plan

Describe safety plan for warm-up/warm-down, include number and location of lifeguards and designated watercraft. Area by start/finish & race admin to be used; lifeguards on site.

Swimmer Management

Maximum number of swimmers on course at a time: 200

If more swimmers show up on the day of the swim(s), how will you adjust the safety plan to accommodate the increased number of entries? Pre-race day registration required

How will you deploy the safety staff and crafts distributed to supervise this event to ensure swift recognition, rescue, and treatment of any swimmer? 2-3 craft on each leg of the triangular 1K course

How will you deploy the safety staff to maximize rapid response to a troubled swimmer? Lifeguards will activate water rescue protocol, flagging the safety boat and guiding swimmer to shore or safety craft. Information will be radioed by race personnel to admin; coach/handler will be contacted via cell phone or announcement. Swimmer will be brought to the medical tent if needed and will check in with Clerk Of Course. EMS will provide transportation to First Health Regional if needed

How will you alter the event if insufficient safety personnel/craft are available on the day of the swim(s)? Course shape may be changed to run parallel to shore or as a narrow rectangle; distances may be decreased. Races may be postponed til later in the day or rescheduled for the following day.

Describe your missing swimmer plan: EMS, lifeguards, and New Swim team coaches will activate underwater search and recovery. Concurrently, meet operations will contact the coach/handler, check chip check in list and video, along with withdrawal list.

Severe Weather Plan

Is a lightning detector or weather radio available on site? Yes

Describe your plan for severe weather or natural disaster: Evacuation of spectators to cars/fitness center. No race will be held if lightning is in the vicinity or moving toward the area.

Describe your course and site evacuation plan, including accounting for all swimmers and other participants: If swimmers are in the water, 3 whistles will be blown to signal an end to the race; no leg is far from shore. Boats can be used to pick up swimmers if needed. Swimmers will be counted on exit.

Thermal Plan for Cold Water Swims

General Information

Thermal Plan for Cold Water Swims: USMS Rules for Open Water Swims state:

302.2.2A (1) A swim shall not begin if the water temperature is less than 60° F. (15.6° C.), unless heat-retaining swimwear is required of all swimmers or a USMS-approved thermal plan is in place.

302.2.2A (2) A swim in which heat retaining swimwear is required of all swimmers shall not begin if the water temperature is less than 57° F. (13.9° C.), unless a USMS-approved thermal plan is in place.

Remember that the average masters swimmer does little or no acclimatization to cold water, so even a small drop in water temperature—especially in the colder ranges—dramatically increases the odds of thermal issues: Cold Shock Response, Cold Incapacitation, Hypothermia, and Circum-rescue Collapse). Be Prepared!

- If your swim course has a remote chance of water temperature less than 60° F., you are **REQUIRED** to complete the thermal plan below, showing your specific commitment to increased swimmer preparation before the event, reduced swimmer exposure during the event, and maximize mitigation & treatment of thermal issues during & after the event.

- If your swim course has a chance of water temperature between 60° F & 66° F., a thermal plan is **RECOMMENDED**.

- If your swim course has a chance of water temperature between 66° F & 72° F., a thermal plan is **ENCOURAGED**.

How will you assist swimmer preparation before the event:

The following methods are among the ways you can do this:

1. Emphasize & stress on entry information of possible cold water swim conditions.
2. Require prior cold water swim experience.
3. Require swimmer cold water preparation plan.
4. Refuse entry if swimmer is not acclimated to cold water swimming.

What method(s) of swimmer preparation will you take: [Click here to enter text.](#)

What action will you take to reduce swimmer exposure to thermal issues:

The following methods are among the ways you can do this:

1. Cancel the swim(s).
2. Shorten swim(s) or institute/shorten time limits.
3. Encourage wetsuits for all swimmers.
4. Require wetsuits for all swimmers.

Explain your plan of action: [Click here to enter text.](#)

What extra medical care will you provide to mitigate & treat symptoms of thermal issues:

The following methods are among the ways you can do this:

1. Bring in more emergency trained medical personnel and/or ambulances.
2. Bring in more volunteers to assist medical personnel.
3. Bring in more emergency craft and first responders on the course.
4. Increase warm beverages before the swim and at feeding stations.
5. Have special procedures (different than normal) for removing swimmers from the water & venue.
6. Increase warm beverages after the swim.
7. Increase thermal treatment gear (blankets, hot water bottles, etc.)
8. Make warm showers available on-site.
9. Make warming facilities (buildings, tents, vehicles, etc.) available on-site.
10. Other: [Specify](#)

Specify what extra listed items you will provide: [Click here to enter text.](#)

Comment on how you will be prepared to care for multiple medical issues: [Click here to enter text.](#)

If the water temperature is below 72° F, will you be prepared to deal with cold water medical issues:
[Click here to enter text.](#)

Thermal Plan for Warm Water Swims

General Information

Thermal Plan for Warm Water Swims: USMS Rule 302.2.2A(3) for Open Water Swims states:

“A swim of 5K or greater shall not begin if the water temperature exceeds 29.45° C. (85°F.). A swim of less than 5K shall not begin if the water temperature exceeds 31° C. (87.8°F.).”

Remember that the average masters swimmer does little or no acclimatization to warm water, so even a small increase in water temperature—especially in the warmer ranges—dramatically increases the odds of thermal issues: Dehydration, Heat Stroke, and Hyperthermia. Be Prepared!

- If your swim course has a chance of water temperature from 85° F to 87.8° F, you are **REQUIRED** to complete the thermal plan below, showing your specific commitment to increased swimmer preparation before the event, reduced swimmer exposure during the event, and maximize mitigation & treatment of thermal issues during & after the event.

- If your swim course has a chance of water temperature between 82° F & 85° F., a thermal plan is **RECOMMENDED**.

How will you assist swimmer preparation before the event:

The following methods are among the ways you can do this:

1. Emphasize & stress on entry information of possible warm water swim conditions.
2. Require prior warm water swim experience.
3. Require swimmer warm water preparation plan.

What method(s) of swimmer preparation will you take: Notification of possible warm water conditions

What action will you take to reduce swimmer, official, and staff exposure to heat-related issues:

The following methods are among the ways you can do this:

1. Cancel the swim(s).
2. Shorten swim(s) or institute/shorten time limits.
3. Remind all participants to stay well hydrated.
4. Remind swimmers to select appropriate pace.
5. Make swim caps optional or use Lycra swim caps.

Explain your plan of action: Remind swimmers to stay well hydrated and select appropriate pace.

What extra medical care will you provide to mitigate & treat symptoms of heat-related issues:

The following methods are among the ways you can do this:

1. Bring in more emergency trained medical personnel and/or ambulances.
2. Bring in more volunteers to assist medical personnel.

3. Bring in more emergency craft and first responders on the course.
4. Increase cool beverages before, during and after the swim (for swimmers and staff, including extra cool beverages on watercraft and feeding stations)
5. Increase heat exhaustion and heat stroke treatment gear (iced water, ice chips, cold water bottles, misting tents/fans, etc.)
6. Make cool showers available on-site.
7. Make shade and cooling facilities (buildings, tents, etc.) available on-site.
8. Other: [Specify](#)

Specify what extra listed items you will need to provide: [Click here to enter text.](#)

Comment on how you will be prepared to care for multiple medical issues: EMS will be present, and we will have a first aid kit and many coaches who are also cpr/first aid certified to help if the need arises.

If the water temperature is above 82° F, will you be prepared to deal with heat-related medical issues:

Yes