

**PLACER COUNTY
BEST MANAGEMENT PRACTICES PLAN FOR LAKE TAHOE WATER-BASED
FIREWORKS**

- A. **Fireworks Best Management Practices Plan** The Permittees (Display Sponsor and Pyrotechnic Vendor) shall prepare and implement a Placer County Fireworks Best Management Practices Plan (Fireworks BMP Plan) in accordance with Placer County Code Chapter 9 Article 9.33 to reduce fireworks debris associated with Authorized Events entering the waters, shores and lands surrounding the Lake Tahoe area. The Fireworks BMP Plan shall address, at a minimum, the following elements:
1. Whenever practicable and economically feasible, the Permittees shall consider the use of alternative fireworks produced with new pyrotechnic formulas that replace perchlorates with other oxidizers and propellants that burn cleaner and produce less smoke, and are certified for use in California by the office of the State Fire Marshall.
 2. Whenever feasible and practical, Permittees shall select fireworks that minimize or eliminate plastic components.
 3. A safety zone (the "Safety Zone") around the fireworks (barges or land) shall be determined by Permittees prior to commencement of Authorized Event in accordance with the laws and regulations applicable to an Authorized Event and as approved by the United States Coast Guard (USCG).
 4. The fireworks and fireworks equipment shall be set up, discharged and taken down by the fireworks operator and crew in accordance with the laws and regulations applicable to an Authorized Event. All permits, licenses, and approvals required by respective authorities having jurisdiction over the Authorized Event shall be obtained by Permittees, and the parties responsible under applicable law and regulations shall comply with requirements and conditions of those permits and licenses. All equipment used to hold and launch the fireworks shall be secured properly by Permittees in accordance with applicable laws and regulations and in such a way as to minimize the risk that the equipment and fireworks would fall into the water. No equipment or fuel tanks, other than that required to meet safety and permit requirements, including the set-up, discharge and take-down of fireworks, shall be allowed on the barge during or following the fireworks event. Other than system firing cables and common or grounding wires intended to be recovered after the display, electric igniter wires used to trigger the fireworks shall be secured by the fireworks operator and crew to minimize the risk that the wires would fall into the water during or after the display. As soon as it is safe and practicable at the completion of the display, the deck of each barge that carried/shot fireworks shall be raked and swept for all loose debris with no material entering the water. The barge is then to be washed down to extinguish any errant hot embers by the Permittees to prevent debris from being deposited in the lake or the barge catching on fire. Final cleaning of barges must be accomplished by 12 p.m. the following day.

5. During Authorized Events, the Permittees shall monitor wind and current direction and the fireworks trajectory to determine where to focus debris cleanup to the discharge of any fireworks. For the purposes of immediate post-event debris clean-up, Permittees shall have no less than two (2) boats at the discharge location. The boats shall consist of at least one power boat and may consist of one power boat and one kayak. Each power boat shall be staffed with a crew of no less than two (2) persons wearing USCG approved life vests with attached lighting devices and each kayak shall consist at least one (1) person, unless affixed seats allow for two (2) persons wearing USCG approved life vests with attached lighting devices (“Clean-Up Crew”). The power boat may be the same boat utilized to service the fireworks display, following the event, and once the “All Clear” is called by public safety officials. The boats shall be equipped with no less than one spot light with no less than 2,000,000 candle power or that sufficient to illuminate the lake’s surface to enable the Clean-Up Crew to locate and retrieve observable fireworks debris (the “Debris Search”) utilizing long-handled fine basket scoop nets and rakes. Each vessel shall have no less than two (2) long-handled fine basket scoop nets on board for debris retrieval and trash receptacles. Following an Authorized Event, and so long as conditions permit safe operation, the Clean-Up Crew shall commence the debris search and cleanup effort to collect and remove debris from the surface of Lake Tahoe. The Clean-Up Crew shall monitor wind and surface water movement of fireworks debris outside the safe perimeter utilizing GPS units to mark locations and debris trajectory. The debris search shall involve multiple patterns of search within the fireworks debris fallout area and Safety Zone until amount of observable surface debris within and surrounding the Safety Zone is de minimis. Any unexploded/dud fireworks should be reported immediately to the Pyrotechnic Vendor, or if none is available, on-site public safety officials or by calling 911.
6. The Clean-Up Crew shall resume the debris search and cleanup effort with no less than a two-member boat crew the day following the Authorized Event or as soon thereafter as conditions permit safe operations. The Clean-Up Crew shall travel in expanding search patterns from the fireworks discharge location at slow speed searching for the collecting fireworks debris from the surface of the lake. The Clean-Up Crew shall focus the debris search and cleanup efforts according to monitored current wind direction and the trajectory of fireworks during the Authorized Event. The day after cleanup, efforts shall continue until the amount of observable surface debris is de minimis, but in no event shall the effort be less than two (2) hours. Any unexploded/dud fireworks should be reported immediately to the Pyrotechnic Vendor, or if none is available, on-site public safety officials or by calling 911.
7. The Permittees shall commence an underwater debris search and cleanup effort with a certified dive crew the day following the Authorized Event or as soon thereafter as conditions permit safe operations. The certified divers shall cover the

Authorized Event debris field, working outward from the location where the barges were anchored the night before to locate and collect fireworks debris and other trash from reasonably safe depths of the lakebed.

8. Permittees shall assemble crews necessary to patrol the Placer County shoreline by foot from the ignition site to 2,640 ft north or north east and 1,320 feet south or south west to collect and remove any and all fireworks debris observed on the beaches and shoreline. Nothing in this policy shall discourage or require Permittee from acquiring permission to access private property in order to remove debris. Daily search and cleanup efforts by foot shall be conducted for one day following the Authorized Event, after which foot patrol may cease if no fireworks debris is found on the shoreline. If fireworks debris continues to be observed on the shoreline during subsequent days, cleanup patrols shall be continued until no more debris is found. If fireworks debris from an Authorized Event is reported to be in an area other than stated shoreline area, cleanup crews will respond to clean up such debris. Permittee is responsible for performing these tasks.
9. All debris collected during the various cleanup efforts shall be disposed of in accordance with all applicable laws and regulations. All hazardous fireworks debris collected, including duds, resulting from the set-up, firing, and strike of the public fireworks display, including live pyrotechnics debris, shall be handled and managed in accordance with applicable fireworks and hazardous materials laws and regulations by Permittees. Permittee shall contact 911 for emergency response as needed.

B. Daily Event Logs and Final Report

Permittees shall prepare and submit a written final report that compiles daily logs of all search and cleanup efforts for each Authorized Event within fifteen (15) business days following completion of all searches and cleanup efforts described in Paragraphs 5 through 9, above to the County Risk Manager, but no later than thirty (30) days from event date Daily logs shall be compiled by each team of divers or "clean-up crews". The daily logs shall contain the following information:

1. Names of Permittees, including name(s), physical address (and mailing address, if different) and license number(s) of the Pyrotechnic Vendor(s) in charge of the fireworks display.
2. The date, time, and duration of the Authorized Event.
3. The amount of fireworks debris collected, the locations where fireworks debris was collected, the types of fireworks debris collected (e.g., fuse, cardboard debris, plastic debris, etc.) representative photographs or observed fireworks debris collected from shoreline areas, the dates, times and visual observations (e.g., wind direction, current direction, fireworks trajectory) during and after an Authorized Event, and any other pertinent information.

4. Locations searched shown on a map or other suitable diagram.

The final log shall compile and attach all the daily logs and, in addition, shall include a summary of the total quantity and types of fireworks debris collected from the Lake and the entire shoreline area, as well as subtotals for each beach or discrete shoreline area, and the name of the person in charge of the particular search.

C. Violation and Enforcement

Any violations to implementing this Plan as prescribed may subject the Permittees to penalties as provided for in the Placer County Code.