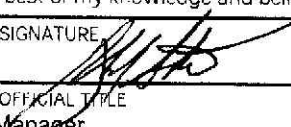


Complete in accordance with instructions on reverse and forward copy: TO: National Oceanic and Atmospheric Administration Office of Oceanic and Atmospheric Research 1315 East-West Highway SSMC-3 Room 11554 Silver Spring, MD 20910				Form Approved: OMB No. 0648-0025 Expires 01/01/2028 NOAA FORM 17-4 U.S. DEPARTMENT OF COMMERCE (4-81) NAT'L OCEANIC AND ATMOSPHERIC ADM. <b>INITIAL REPORT ON WEATHER MODIFICATION ACTIVITIES</b> (P.L. 205, 92 <sup>ND</sup> CONGRESS)			
<b>1. PROJECT OR ACTIVITY DESIGNATION, IF ANY</b> Kings River Basin Cloud Seeding Program				<b>2. DATES OF PROJECT</b> a. DATE FIRST ACTUAL WEATHER MODIFICATION ACTIVITY IS TO BE UNDERTAKEN 12/01/2023 b. EXPECTED TERMINATION DATE OF WEATHER MODIFICATION ACTIVITIES 03/31/2024			
<b>3. PURPOSE OF PROJECT OR ACTIVITY</b> Snowpack Augmentation				<b>4. (a) SPONSOR</b>			
NAME James Reynolds				<b>4. (b) OPERATOR</b> NAME Richard Stone			
AFFILIATION Kings River Water Conservation District			PHONE NUMBER (559) 237-5567		AFFILIATION RHS Consulting, LTD		
STREET ADDRESS 4886 East Jensen Ave			PHONE NUMBER (775) 357-4659				
CITY Fresno				STATE CA		ZIP CODE 93725	
CITY Reno				STATE NV		ZIP CODE 89511	
<b>5. TARGET AND CONTROL AREAS (See Instructions)</b>							
TARGET AREA LOCATION Kings River Basin				CONTROL AREA LOCATION Merced River, Tule River, Cottonwood Creek			
SIZE OF AREA 2225 SQ.MI				SIZE OF AREA 750 SQ.MI.			
<b>6. DESCRIPTION OF WEATHER MODIFICATION APPARATUS, MODIFICATION AGENTS AND THEIR DISPERSAL RATES, THE TECHNIQUES EMPLOYED, ETC. (See Instructions)</b> This is a continuation of the Kings River Basin program, a long-term project that began operations in 1956. During the 2024 winter season winter storm systems will be seeded using aircraft and ground-based generators. The operational program office is located at the Fresno Airport (KFAT). Silver Iodide type aerosols will be dispersed 20-30 miles upwind of the target area. Aircraft seed rates of 800-3000 g/hr will be dispersed along custom seed tracks at altitudes ranging between 9,000 - 17,000' based on forecast soundings. Ground generators will be operated that release 20gAgI/hr., the number of generators depending on wind, moisture and temperatures profiles and distance to the target. Evaluations are conducted annually based on ratio statistics of target area compared with control area streamflows. Multiple control areas are used that surround the target area to the north, south, and southeast of the target area.							
<b>7. LOG BOOKS:</b> Enter name, affiliation, address, and telephone number of responsible individual from whom log books or other records may be obtained.							
NAME Richard Stone				THIS REPORT IS REQUIRED BY PUBLIC LAW 92-205; 85 STAT 735; 15 U.S.C. 330b. KNOWING AND WILLFUL VIOLATION OF ANY RULE ADOPTED UNDER THE AUTHORITY OF SECTION 2 OF PUBLIC LAW 92-205 SHALL SUBJECT THE PERSON VIOLATING SUCH RULE TO A FINE OF NOT MORE THAN \$10,000, UPON CONVICTION THEREOF.			
AFFILIATION RHS Consulting, LTD			PHONE NUMBER (775) 357-4659				
STREET ADDRESS 2227 Bellanca St, Hangar A							
CITY Minden		STATE NV					
<b>8. SAFETY AND ENVIRONMENT</b>							
<input checked="" type="checkbox"/> YES		<input type="checkbox"/> NO		Has an Environmental Impact Statement, Federal or State been filed? If yes, please furnish a copy as applicable.			
<input checked="" type="checkbox"/> YES		<input type="checkbox"/> NO		Have provisions been made to acquire the latest forecasts, advisories, warnings, etc. of the National Weather Service, Forest Service, or others when issued prior to and during operations? If yes, please specify on a separate sheet.			
<input checked="" type="checkbox"/> YES		<input type="checkbox"/> NO		Have any safety procedures (operational constraints, provisions for suspension of operations, monitoring methods, etc.) and any environmental guidelines (related to the possible effects of the operations) been included in the operational plans? If yes, please furnish copies or a description of the specific procedures and guidelines.			
<b>9. OPTIONAL REMARKS (See Instructions Use Separate Sheet.)</b>							
NAME Richard Stone				<b>CERTIFICATION:</b> I certify that the above statements are true, complete and correct to the best of my knowledge and belief.			
AFFILIATION RHS Consulting, LTD			SIGNATURE 				
STREET ADDRESS PO Box 17096							
CITY Reno		STATE NV					
CITY Reno		STATE NV		ZIP CODE 89511		DATE 10/21/2022	
CITY Reno		STATE NV		ZIP CODE 89511		PHONE NUMBER 357-4659 (775)	

## King River Basin Supplement to Form 17-4

The following information is provided as requested by item 8 on Form 17-4, Safety and Environment

### Environmental Impact Report

An Environmental Assessment was conducted by the sponsor and a Negative Declaration was filed with no dissenting opinions.

### Suspension Criteria

KRCD may temporarily suspend the project when one of the following conditions exists

#### EXCESSIVE SNOWPACK

These snowpack amounts serve as a guide regarding the potential suspension of the seeding program; they are not hard and fast criteria, but rather are designed to prompt close coordination with the water managers. These criteria are based on average target area precipitation amounts as follows:

1. 200% on January 1
2. 180% on February 1
3. 160% on March 1
4. 150% on April 1

Snow sensor observation are available on a daily basis at several locations. Interpolation of these percentages can be made for any given day in order to aid suspension decisions.

#### FLOODING

1. TARGET AREA- Utilizing quantitative precipitation forecasts (QPF), antecedent indices, and forecast freezing levels, decisions can be made of individual storm event runoff in the area draining into Pine Flat Lake. If the estimated storm runoff volume exceeds the available storage (i.e., spill condition), the project may be suspended.
2. RAIN ON SNOW- During periods above average snowpack exists and rising freezing levels and potential for rain on snow events where insufficient storage capacity exists the project may be temporarily suspended until the river flows recede and freezing levels fall below 4,500'.
3. Severe Weather - Severe weather is monitored on a storm-by-storm basis, and even hourly basis during rapidly changing weather conditions. The project may be suspended when a National Weather Service Flash Flood Warning is in effect over any part of the target area until the warning expires.

#### SPECIAL CIRCUMSTANCES

1. Official emergency response activity within the target area.
2. Other Special Circumstances or unusual circumstances, which may be deemed hazardous. Examples of special circumstances very strong winds, heavy snow at low elevations, and other unforeseen conditions that could be hazardous or perceived by the public as hazardous. Reservoir storage levels, soil moisture content, and amounts of precipitation in prior seasons are all factors to consider in assessing whether a temporary program suspension is appropriate.



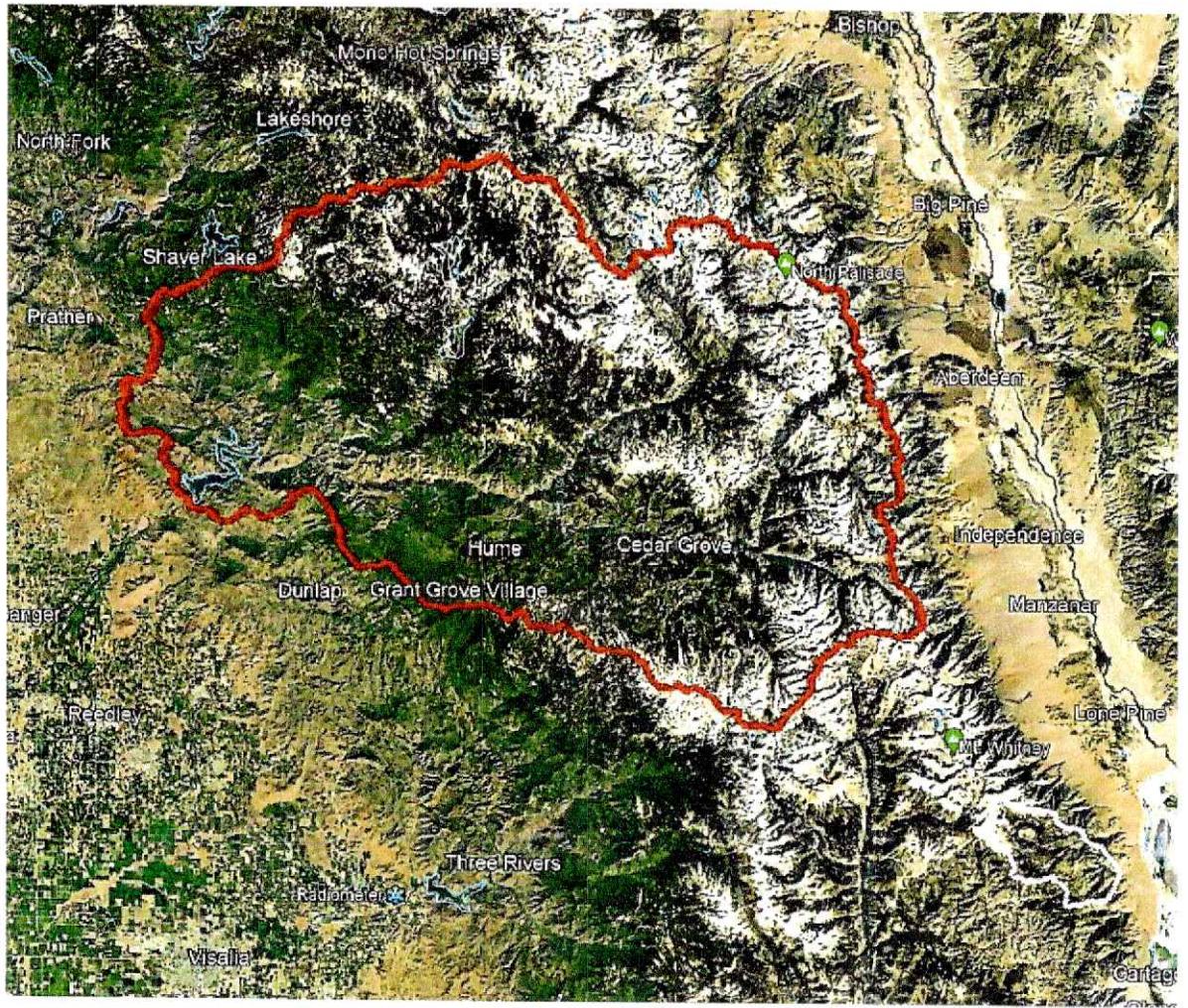


Figure 1. Kings River Basin Target Area.