State of California – Natural Resources Agency
DEPARTMENT OF FISH AND WILDLIFE
Director's Office
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EDMUND G. BROWN JR., Governor
CHARLTON H. BONHAM, Director

California Department of Fish and Wildlife

Drought Response Implementation Grant

Notice of Intent to Award

February 27, 2017

The California Department of Fish and Wildlife intends to award the payable grant listed below in order to protect State and Federally listed endangered 'Sacramento River winter-run Chinook salmon', threatened Central Valley spring-run Chinook salmon, Central Valley steelhead and species of concern 'fall-run and late-fall-run Chinook salmon in accordance with FGC 1501.5(b) and Governor's Executive Order 04-25-2014.

This project involves the collection of remote sensing data which will be done under a subcontract by Quantum Spatial. Quantum has extensive expertise in using NIR and bathymetric LiDAR sensors and hyperspectral imaging platforms. National Oceanic and Atmospheric Administration (NOAA)/National Marine Fisheries Service (NMFS) Southwest Fisheries Science Center staff will work closely with Quantum in flight planning, data collection, and data processing. This project involves two tasks.

Task 1: Task 1 will involve the aerial collection of bathymetric and NIR LiDAR as well as hyperspectral imagery along the Sacramento River corridor from Keswick Dam to Red Bluff, CA.

Task 2: Task 2 will involve the aerial collection of NIR LiDAR data for the dry portions of the reach to characterize the river banks and valley geometry.

This project is necessary because the data collected from this project will be immediately used to guide restoration projects and calibrate the decision support tools for water and fisheries management.

The following table identifies the grant project proposed for award. Funding of this project is contingent upon approval of the Director and execution of a grant agreement.

Project Number	Project Title	Applicant	Proposed Award Amount	Proposed Project Start Date
P1610802	Bathymetric Data Acquisition on the Upper Sacramento River	NOAA/NMFS Southwest Fisheries Science Center (Subcontract to Quantum Spatial, a private company)	$130,263.40	Upon Grantor Approval