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STATE PROCUREMENT OFFICE
NOTICE & REQUEST FOR SOLE SOURCE
STATE PROCUREMENT OFFICE
STATE OF HAWAII

1. TO: Chief Procurement Officer
2. FROM: Department of Land and Natural Resources, DOFAW
Department/Division/Agency

Pursuant to §103D-306, HRS, and Subchapter 9, Chapter 3-122, HAR, the Department requests sole source approval to purchase the following:

3. Description of goods, services, or construction:
Using remote sensing to map target invasive plants which degrade watersheds is necessary for successful management. DLNR wishes to contract Resource Mapping for flying aerial surveys of DOFAW managed lands on Kauai, Oahu, Maui and Hawaii. Each island will target a specific suite of invasive plants based on their threat on that island. Specifications for flights may vary based on biochemical or structural attributes of target plants. On some islands aerial imagery will be analyzed by Resource Mapping to produce maps of targets and the product will be GIS maps. On other islands partner staff (Watershed Partnerships funded in part by DLNR) will provide analysis after attending training provided by Resource Mapping to interpret processed imagery. Data will be made available to all state managers for invasive plant management and other purposes. Per acre costs will vary among island projects. Each of these surveys is part of a larger watershed-wide effort to map invasive threats across the landscape.

4. Vendor Name: Resource Mapping Address: 62 Grove Street Turner Falls, MA 01326 Tel. (413) 863-4928	5. Price: \$50-100K \$60-70K Federal \$10-40K State
6. Term of Contract: (mm/dd/yyyy) From: <u>June 1, 2009</u> To: <u>June 30, 2010</u>	7. Prior Sole Source Ref No. _____

8. Feature: The good, service, or construction has the following unique features, characteristics, or capabilities: While there are different technologies available for mapping invasive plants, Resource Mapping uses extremely high resolution cameras (<2 sq cm) combined with multispectral imagery at a lower resolution. Some plant species can be mapped with the multispectral technology which is able to detect a specific 'signature' of light wave reflectance unique to that plant species. Other plants such as Australian tree fern do not have a unique signature and require the high resolution visible light imagery for detection. Resource Mapping is the only company operating in Hawaii that offers this specific service for high accuracy weed mapping. These methods have been tested and refined on the island of Kauai taking into consideration local conditions that might not be present on the mainland. This contract will be combined with flights scheduled to occur over private and federal lands in order to take advantage of economies of scale. Per acre costs have already been negotiated with Resource Mapping by Watershed Partnerships. Some funds for this project require matching funds which will be fulfilled by private funds committed to project.

9. Essential features. How the unique features, characteristics, or capabilities are essential for the agency to accomplish its work: Invasive plants threaten much of state managed forest lands. Monitoring the spread of invasive plants and detecting new populations is necessary to effectively manage this threat. Resource Mapping provides the most cost-effective way of acquiring this important data. Ground surveys require extensive staff time for acquiring this data and are unfeasible in many areas where access is limited. Satellite imagery lacks the specific combination of technologies that allow for accurate mapping and detection of a multitude of species and often has cloud cover. The acquisition of accurate maps/imagery will allow managers to more effectively manage large areas of state land for both watershed and biodiversity values.

11. Alternate source. The following other possible sources for the good, service, or construction were investigated but do not meet our needs because: No other vendors offer this specialized service for detecting suites of target invasive plants that have been prioritized by managers. They either do not offer the level of resolution required for accurate detection or they do not offer the combination of imagery types (natural light with multispectral imagery) that allow for the detection of a wide range of priority targets. The other outfit providing similar data in Hawaii, Carnegie Institute is a research institute and is not available for commercial flights. Additionally its methods are still under development. Resource Mapping is the first company to offer this type of service commercially.

12. Direct any inquiries to:

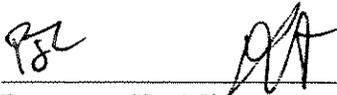
Department: DLNR/DOFAW
 Contact Name/Title: Robert Hauff

13 Phone Number:
808 587 4174
 Fax Number:
808 587 0160

Expenditure may be processed with a purchase order/p-Card: Yes No If no, a contract must be executed and funds certified.

Agency shall ensure adherence to applicable administrative and statutory requirements, including HAR Chapter 3-122, Subchapter 15, Cost or Pricing Data, if required.

14. *I certify that the information provided above is to the best of my knowledge, true, correct and that the goods, services, or construction are available through only one source.*


 Department Head Signature

5/14/09
 Date

Reserved for SPO Use Only

15 Date Notice Posted: 5/15/09

Submit written objections to this notice to issue a sole source contract within seven calendar days or as otherwise allowed from the above posted date to: Chief Procurement Officer
 State Procurement Office
 P.O. Box 119
 Honolulu, Hawaii 96810-0119

16. Chief Procurement Officer's comments:

This approval is for the solicitation process only, HRS section 103D-310(c) and HAR section 3-122-112, shall apply.

17.

APPROVED DISAPPROVED NO ACTION REQUIRED

Alan S. Fujita 6/4/09
Chief Procurement Officer Date