



desert conservation
PROGRAM

Date: March 20, 2012

TO: DISTRIBUTION

RE: DESERT CONSERVATION PROGRAM PROJECT COMPLETION NOTIFICATION:
**THREATS RESEARCH AND MONITORING ON
INVASIVE SPECIES SAHARA MUSTARD
2005-NPS-532**

The work for the above referenced project has been completed. Please see the attached for all project related information.

The purpose of the above referenced project was:

To gain knowledge about the Sahara mustard (*Brassica tournefortii*) plant and devise efficient methods of control and removal in order to better protect the MSHCP covered species and the habitat that supports them.

The major accomplishment or findings of this project include:

This study provided beneficial information for land managers by increasing the knowledge of the biology and ecology of Sahara mustard to aid in efficient eradication and management of this species. The NPS conducted six experiments testing specific treatment techniques at various stages of plant development. Due to unexpected germination difficulties, two of the six experiments were not completed and the contract was amended to reduce the scope. Although only four of the six experiments were completed, valuable information was gained that will help land managers develop more efficient and effective control methods for Sahara mustard across the landscape.

- Herbicide applications are successful in all three stages of seed development. However, monitoring of treatments should occur for herbicide resistance.
- Hand pulling, although not practical on a large scale basis, can be somewhat successful prior to seed germination
- Seeds on soil surface will germinate at very low rates or not at all. Seeds must be buried below soil surface or covered to germinate.
- Soil seed banks appear to be short lived at shallow depths for up to 18 months. Deeper burial increases seed persistence.

respect, protect and enjoy our desert!

For more information about this project and/or for other Project Reports or Symposium Reports, please visit our website at: <http://www.clarkcountynv.gov/Depts/dcp/Pages/default.aspx>

If you have any questions, please contact Liz Bickmore at (702) 455-2972.

Sincerely,



Marci D. Henson
Program Manager

cc:

- US Fish and Wildlife Service
- Board of County Commissioners (7)
- Permittees' Executive Committee
- Permittees' Process Management Group
- John Hill, Purchasing
- Catherine Jorgenson, District Attorney – Civil Division
- Desert Conservation Program Community Advisory Committee
- Desert Conservation Program Interested Parties List
- Multiple Species Habitat Conservation Plan Implementing Agencies
- Science Advisor
- SNPLMA Office (for SNPLMA projects)
- Congressional Office
- All Environmental Management Staff Distribution

DESERT CONSERVATION PROGRAM PROJECT COMPLETION NOTICE

Date of Issuance: 3/20/2012

General Project Information

Project Category	Conservation
Compliance Category	9d-Research/Inventory/Monitoring
Project Level	Level 2
Project Title	Threats Research and Monitoring on Invasive Species Sahara Mustard
Project Number	2005-NPS-532
Contractor	NATIONAL PARK SERVICE (NPS)
Contractor Person of Contact	Alice Corrine Newton
Contractor Project Manager	Kent Turner
DCP Project Manager	Liz Bickmore
DCP Person of Contact/Contract Manager	Heather Green
Competitive Award or Sole Source	Sole Source
Contract Start Date	09/01/2009
Purchase Order Number	4800002371-014
Contract End Date	01/01/2012
Commissioner & District	A Steve Sisolak G Mary Beth Scow
Congressional Rep & District	D3 Joe Heck

Financial Breakdown

Funding Source	SNPLMA R6
Original Contract Amount	\$104,009.40
Total Change Request Amount	-15,335.40
Revised Contract Amount	\$88,674.00
(Original Award plus Change Requests)	
Funds Not Used in Contract	0.00
Final Payout Amount	\$88,674.00

Performance Information

Total Number of Change Requests	8
Number of Change Requests by Contractor	5
Number of Change Requests by DCP	3
Total Number of Deliverables	41
Number of Deliverables Accepted	38
Number of Deliverables Rejected	12
Number of Delinquent Deliverables	1
Total Number of Milestones	25
Number of Delinquent Milestones	19
Number of Milestones Met on Time	6
Total Number of Invoices Submitted	4
Number of Rejected Invoices	0

Final Report

[http://www.clarkcountynv.gov/Depts/dcp/Documents/Library/dcp reports/2012/Sahara Mustard Control Research 2005-NPS-532 final rpt.pdf](http://www.clarkcountynv.gov/Depts/dcp/Documents/Library/dcp%20reports/2012/Sahara%20Mustard%20Control%20Research%202005-NPS-532%20final%20rpt.pdf)