



CHAPTER 5

CONSULTATION AND COORDINATION

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CHAPTER 5

CONSULTATION AND COORDINATION

5.1 INTRODUCTION

This chapter describes the public outreach and participation opportunities made available through the development of this PRMP/EIS and consultation and coordination efforts with tribes, government agencies, and other stakeholders. This chapter also lists the agencies, organizations, and individuals that received a copy of the Draft RMP/EIS.

The BLM land use planning activities are conducted in accordance with NEPA requirements, CEQ regulations, and DOI and BLM policies and procedures implementing NEPA. NEPA and associated laws, regulations, and policies require BLM to seek public involvement early in and throughout the planning process to develop a reasonable range of alternatives to proposed actions and to prepare environmental documents that disclose the potential impacts of proposed actions and alternatives. Public involvement and agency consultation and coordination, which have been at the heart of the planning process leading to this PRMP/FEIS, were achieved through Federal Register notices, public comments on the Draft RMP/EIS, public and informal meetings, individual contacts, media releases, planning bulletins, and the Lower Sonoran-SDNM RMP Web site at: http://www.blm.gov/az/st/en/prog/planning/son_des.html.

5.2 PUBLIC COLLABORATION AND OUTREACH

Active involvement by the public helps to ensure that the alternatives considered address the diversity of public interests, builds trust between BLM and the public, creates public “buy-in” to and understanding of the eventual management decisions, and develops a working relationship that will carry into the shared implementation of those management decisions.

BLM has performed a variety of public outreach programs to increase involvement in the planning process. BLM has taken a two-pronged approach to public involvement. The first has been traditional public involvement through scheduled and announced public meetings, such as the public meetings at the scoping and draft comment periods.

The second approach has been public interaction through BLM participation at community meetings, special interest group meetings, and coordination with elected representatives. BLM staff were invited to speak at meetings in the communities of Tonopah, Buckeye, Gila Bend, Ajo, and Mobile as well as at numerous environmental and recreation groups. These informal meetings have provided the BLM an opportunity to explain the planning process and timeline, and to encourage citizen participation in the planning efforts. These meetings have been very helpful for both the planning effort and to identify issues that need immediate action, independent of the planning process. Several communities also have met independently to discuss public lands and develop recommendations to present to BLM. BLM has continued to actively encourage public involvement through the formal planning process, informal community meetings, and other methods.

5.2.1 SCOPING PROCESS

The Lower Sonoran-SDNM public scoping process began officially with the publication of Notices of Intent (NOIs) in the Federal Register. The NOI to initiate planning on the SDNM Decision Area was published on April 24, 2002 (Vol. 67, No. 79, Page 20158, [AZ-400-02-1610-DO-089A]), and the NOI to initiate planning on the Lower Sonoran (formerly known as the Phoenix South) Decision Area was published on December 9, 2002 (Vol. 67, No. 236, Page 72968, [AZ-020-03-1610-DO-089A]). The BLM also released the following:

- A Planning Bulletin to the entities on BLM's mailing list, including federal, state, county, and local agencies, tribes, organizations and special interest groups, and other interested parties. The Bulletin was published in both English and Spanish;
- Newspaper legal announcements in statewide and local papers; and
- Media and public service announcements in both English and Spanish to local and regional newspapers, television, and radio stations issued January 21-31, 2003.

A complete, detailed listing of the media outlets where information was released is included in the Scoping Report, which can be downloaded from the project Web site found on the Internet at: http://www.blm.gov/pgdata/etc/medialib/blm/az/pdfs/planning/son_des.Par.48097.File.dat/Scoping_Report.pdf.

BLM conducted 11 public scoping meetings during February and March of 2003. The open house scoping meetings were held in the Arizona communities of Maricopa, Gila Bend, Casa Grande, Globe-Miami, Ajo, Sells, Tucson, Buckeye, Mesa, Phoenix, and Yuma. Each of the 11 meetings was conducted in an open house format, allowing meeting participants to review maps and display boards of each planning area and to ask specific questions one-on-one with BLM staff about the RMP/EIS process.

Comments received during the initial scoping period largely fell into the following three categories:

- Public Values – those features or qualities valued by various members of the public, such as an area's natural beauty, the quiet peaceful surroundings, and a place to “get away from it all” without having to travel great distances;
- Public Activities – those activities that the public noted doing on public lands, such as hiking, hunting, sight-seeing, camping, wildlife observation, and driving and motorized touring; and
- Desired Management – the public's ideas and input for how BLM should manage the public lands in the Lower Sonoran Field Office area and Sonoran Desert National Monument, which focused on managing for resource protection and to provide public access to the lands.

Section 1.3.4, Planning Issues Addressed in the RMP Process, summarizes the issues raised during scoping. Additional details can be found in the Scoping Report on the project Web site.

5.2.2 PROJECT WEB SITE

The BLM maintains a project Web site to provide the public with the latest information about the RMP/EIS process. The Web site, available at: http://www.blm.gov/az/st/en/prog/planning/son_des.html, provides background information about the project, a public involvement timeline and calendar, maps and photos of the planning area, copies of documents such as the NOIs, newsletters, the Draft RMP/EIS, and point-of-contact information.

5.2.3 MAILING LIST

The BLM compiled a mailing list of the individuals, agencies, and organizations that had participated in past BLM projects. Attendees at the scoping open houses, and public meetings were added to the mailing list if they wanted to receive or continue to receive project information. In addition, all individuals or organizations who submitted scoping comments and comments on the Draft RMP/EIS were added to the mailing list. Through this process, the mailing list was revised and now includes approximately 500 entries. Requests to be added to or to remain on the official Lower Sonoran-SDNM RMP distribution list will continue to be accepted throughout the planning process.

5.3 CONSULTATION AND COORDINATION

5.3.1 AGENCY COORDINATION

Agency coordination is an important step in a successful collaborative process for several reasons. First, early involvement with other federal, tribal, state, and local governments establishes a solid working relationship with each agency. Next, coordination builds trust and credibility between agencies that can then be transferred to the public. Finally, coordination will help ensure that BLM develops land use decisions that are supported by and conform to other jurisdictions in any given area to the maximum extent possible.

BLM has coordinated with federal, state, and county agencies throughout the planning and EIS process. The BLM has gathered issues, ideas, and concerns, and discussed the role of agencies in the process. A full listing of the agencies that BLM coordinated with can be found in the Scoping Report at: http://www.blm.gov/pgdata/etc/medialib/blm/az/pdfs/planning/son_des.Par.48097.File.dat/Scoping_Report.pdf.

A letter introducing the RMP/EIS, identifying data-gathering efforts, and offering agencies the opportunity to become cooperating agencies in the planning efforts was sent to more than 200 agencies. A cooperating agency meeting was held at the Arizona State Office on October 30, 2002. The purpose of the meeting was to discuss BLM's planning process, collaborative planning, and the meaning and responsibilities of cooperating agency status. Opportunities for involvement in BLM's planning process without becoming a cooperating agency also were discussed. It was made clear that BLM's goal was to encourage involvement by all interested parties using whatever methods the parties wished.

MOUs have been developed for those agencies choosing to be a cooperating agency on the Lower Sonoran-SDNM RMP/EIS to outline the roles and responsibilities of the cooperating agencies and the BLM throughout the planning process. BLM has signed MOUs with the following agencies:

- Arizona Game and Fish Department
- Arizona Department of Transportation

5.3.2 TRIBAL GOVERNMENT-TO-GOVERNMENT CONSULTATION

BLM contacted the following tribes by letter on July 25, 2002, to initiate consultations and to reiterate the opportunity to be a cooperating agency in the planning process:

- Ak-Chin Indian Community
- Fort McDowell Yavapai Nation
- Fort Sill Apache Tribe
- Gila River Indian Community
- Hopi Tribe
- Pascua Yaqui Tribe
- Salt River Pima-Maricopa Indian Community
- San Carlos Apache Tribe
- Tohono O'odham Nation
- Tonto Apache Tribe
- White Mountain Apache Tribe
- Yavapai-Apache Indian Community
- Yavapai-Prescott Indian Tribe

On June 28, 2002, a meeting was held at the Ak-Chin tribal headquarters with the Cultural Resources Committee of the Four Southern Tribes (Ak-Chin Indian Community, Gila River Indian Community, Salt River Pima-Maricopa Indian Community, and the Tohono O'odham Nation). The planning process and planning areas were described, and formal consultation, cooperating agency status, and community involvement and collaboration were discussed. Tribal staff emphasized the importance of ongoing and regular consultation, protection of cultural and natural resources, and the need for law enforcement to protect cultural sites from damage and looting.

On August 21, 2002, Phoenix District Office (PDO) staff met with the Hopi Cultural Preservation Office staff at the Hopi Tribal Government Complex. The primary interest of the staff was the Agua Fria National Monument, but the staff did reiterate the need for continuing consultations for all public lands in Arizona. Hopi staff emphasized the importance of protecting cultural sites, and restricting uses that

may adversely affect those sites. Other concerns included the BLM reburial policy and scientific testing and data recovery.

On September 17, 2002, PDO staff met with Tohono O'odham Nation cultural and natural resources staff, legislative council members, and representatives of the Tribal Chairman. BLM provided a short presentation on the planning process and planning areas, and formal consultation, cooperating agency status, and community involvement and collaboration were discussed. The Tohono O'odham Nation staff was interested in natural and cultural resource protection; grazing management; law enforcement, both with regard to cultural resource site protection, undocumented immigrants, and drug smuggling; and opportunities for co-management of the SDNM. The Tohono O'odham Nation was interested in acquiring two parcels of land: Darby Wells near Ajo (the effort to make this land available is currently underway) and the Florence Cemetery. The Tohono O'odham Nation was also interested in becoming a cooperating agency. On October 18, 2002, a follow-up meeting was held with the Legislative Resource Committee of the Tribal Council to provide information on the planning process and further discuss issues of interest to the Tohono O'odham Nation.

On September 18, 2002, PDO staff met with the Ak-Chin Indian Community Tribal Council. BLM provided a short presentation on the planning process and planning areas; formal consultation, cooperating agency status, and community involvement and collaboration were discussed. The Ak-Chin expressed interest in cultural resource protection, particularly on the SDNM, and requested that BLM keep the Ak-Chin cultural staff informed on progress in the planning process.

On March 28, 2003, a field trip was held with representatives from the Four Southern Tribes on the SDNM. The trip included stops at a petroglyph site, historic Papago site, archaic site, and the Vekol Grasslands ACEC. In addition to discussion of each site and appropriate protection measures, BLM's categorization process for cultural sites and the ongoing Class I Cultural inventory were discussed.

In addition to formal consultation and opportunities to become cooperating agencies, the tribes were invited to attend the agency scoping meeting held on June 5, 2003. Throughout 2004, the BLM presented planning effort updates and information to several tribes and tribal groups, including the Four Southern Tribes Cultural Resources Working Group, the Tohono O'odham Nation, the Ak-Chin Indian Community and the Gila River Indian Community. Topics included updates on the plan's status and discussion of cultural and heritage resource issues. In 2005, the BLM met with the Ak-Chin Indian Community to discuss concerns regarding access into certain tribal lands and BLM reviewed the travel management planning and route designation process for the planning effort. In February 2005, the BLM sent out letters to 13 consulting tribes with draft management alternatives and planning effort status, including information on public workshops for discussing the preliminary alternatives. Additionally, throughout 2005, the BLM was in regular contact with several tribes to discuss cultural resource issues, travel management designations, and route access to tribal lands. Between 2006 and release of the Draft RMP/EIS in August 2011, the BLM had annual meetings with the tribes to discuss the planning efforts status and other issues that concerned the tribes; these issues generally focused on preservation of cultural resources, access to tribal lands, and land tenure adjustments.

In August 2011, BLM held a meeting at the Cultural Resource Working Group of the Four Southern Tribes to discuss the pending release of the Draft RMP/EIS and how the tribes would be able to comment on the document.

5.3.3 SECTION 106 CONSULTATION

In accordance with the requirements of Section 106 of the National Historic Preservation Act, the BLM is coordinating with and soliciting input from the Arizona SHPO. The BLM and Arizona SHPO are following the coordination protocols in the Arizona Protocol relating to amending resource management plans; the protocol provides for a phased consultation process related to historic, traditional, and cultural resources for an EIS and subsequent activities that could tier from a ROD. Per these procedures, the BLM Arizona initiated consultation with the Arizona SHPO by written correspondence in 2003. The letter described the Lower Sonoran-SDNM RMP/EIS and specified the need to consult on information presented in the EIS.

Over the course of the planning process, BLM met with or contacted the SHPO to share updates and information on the planning effort, including sending a copy of the Scoping Report in February 2004 and the Draft RMP/EIS in October 2011. On October 21, 2011, the BLM send a letter to the SHPO detailing the history of the planning effort and requesting review and comment on the Draft RMP/EIS by the SHPO. On November 14, 2011, the BLM received the SHPO's comments on the Draft RMP/EIS noting comments regarding impacts to cultural resources and associated mitigation outlined in the plan.

5.3.4 SECTION 7 CONSULTATION

In accordance with the requirements of Section 7 of the ESA, the BLM is currently consulting with the USFWS to ensure that the BLM's proposed action would not jeopardize the continued existence of any listed threatened, endangered, or proposed species or critical habitat.

BLM is currently working on the BA and has had one meeting with the USFWS to explain the proposed action and the format used for the effects determinations for the four listed species in the Lower Sonoran-SDNM BA from the preferred alternative. Once a draft BA is completed, BLM will deliver the draft to the USFWS for comments and clarification.

From these ongoing consultations, the USFWS will develop a BO which can include conservation recommendations to minimize or avoid possible adverse effects on listed species or their critical habitat. It can also impose reasonable and prudent measures needed to minimize any harmful impacts, and can require monitoring and reporting to ensure adequate protection compliance. A BO prevents unacceptable harm to an ESA-listed species or its habitat, and is purely biological: it is a scientific judgment about a proposed action, not a policy document.

5.3.5 FEDERAL AND MILITARY COORDINATION

The BLM has coordinated with other federal agencies and military installations within the Planning Area, including the National Park Service and US Air Force. The BLM and National Park Service met to discuss management options in the Ajo Block area, specifically regarding land tenure adjustments, land use authorizations, rights-of-way, borderland and associated law enforcement issues, national park access, boundary management, endangered species management, recreation, and comprehensive travel management decisions. The BLM has coordinated with the Base Executive Council and Interagency Executive Committee regarding the planning efforts and military involvement for borderlands, travel and recreation management, land restoration, and threatened and endangered species management on Luke

Air Force Base and the Barry M. Goldwater Air Force Range military installations, and management of public lands in the Ajo Block, Sentinel Plain, and SDNM.

The BLM also works with the Borderlands Management Taskforce, which coordinates all federal agencies involved with borderlands management. BLM's responsibility is to manage and protect natural resources, protect employees and public land users, and coordinate with all other law enforcement agencies (e.g., county, state, and federal agencies, including Immigration and Customs Enforcement). Issues include impacts related to undocumented immigration, drug and human trafficking, and coordinated management and mitigation measures.

5.3.6 ARIZONA GOVERNOR'S OFFICE COORDINATION

The BLM has coordinated and consulted with the Arizona governor and governor's office and other state agencies. BLM met with the Arizona Department of Transportation to review regional transportation plans and discuss the agency's concerns and questions. Additionally, BLM has had extensive coordination with the Arizona Game and Fish Department to discuss wildlife management, public access route designations, and wildlife movement corridors. BLM also invited AGFD to participate in and/or comment on the target shooting analysis; however, BLM has not received a response or comments on this issue.

Prior to approval of the PRMP/FEIS, the governor will be given the opportunity to identify any inconsistencies between the proposed plan and state or local plans, policies, and programs, and to provide recommendations in writing (during the 60-day consistency review period).

5.3.7 LOCAL GOVERNMENT

The BLM has coordinated and consulted with local governments throughout the planning process. BLM met with the Maricopa County Department of Transportation regarding regional transportation issues, including discussion of anticipated highway planning projects. BLM also met with the Maricopa County and Pinal County Park and Recreation departments to discuss recreation-related land management coordination efforts for the Saddle Mountain, Buckeye Hills, and San Tan Mountains areas. BLM also met with the Town of Gila Bend regarding their recreation and development interests.

Additionally, BLM has reviewed numerous county planning documents, including the Pinal County Comprehensive Plan, the Pinal County Open Space and Trails Master Plan, and the City of Maricopa's Parks, Trails, and Open Space Master Plan. BLM's planning guidance notes that RMPs shall be consistent with other federal, state, and local plans to the maximum extent consistent with federal law and FLPMA provisions, and assure that consideration is given to those state and local plans relevant to the development of land use plans for public lands. BLM has reviewed these county plans for consistency and found that the actions proposed in the PRMP are generally consistent with the intent and actions in the county plans.

Local governments submitted scoping comments when BLM initiated the planning effort and reviewed and commented on the Draft RMP/FEIS. BLM will continue to coordinate with local governments after the RODs are signed.

5.3.8 PUBLIC OUTREACH AND LOCAL CONSTITUENCY GROUPS

In an effort to provide outreach to the local communities in the planning area, BLM contacted constituency groups with interest in several of the planning issues. BLM contacted several shooting groups to discuss the target shooting analysis, including the Table Mesa Coalition, the Arizona State Rifle and Pistol Association, and the AGFD. The Table Mesa Coalition provided feedback on the shooting analysis, including information on safe shooting practices and distances and areas that should remain open for shooting activities.

5.4 PUBLIC COMMENT ON THE DRAFT RMP/EIS

The EPA published a Notice of Availability (NOA) of the Draft RMP/EIS on August 25, 2011. The NOA initiated the 90-day public comment period required for planning actions. In preparing the PRMP/FEIS, the BLM considered all comments received or postmarked during the public comment period. The DRMP/DEIS was made available for viewing, downloading, and commenting by a variety of methods, including as a PDF on the BLM Web site, CD, paper copies, and on the BLM's ePlanning system.

5.4.1 PUBLIC MEETINGS AND PUBLIC NOTIFICATION

The BLM held 8 public meetings in the Planning Area in October 2011. Meeting locations included Phoenix, Ajo, Gila Bend, Mesa, Casa Grande, and Buckeye.

Over 200 people attended the public meetings. The largest number of attendees was from non-affiliated individuals, followed by non-profit organizations, local clubs, and government agencies.

5.4.2 ePLANNING

The Lower Sonoran-SDNM DRMP/DEIS is one of the first in BLM to use the latest version of ePlanning. It was published in the ePlanning system in order to streamline preparation and organization of the document, and make it more easily accessible to the public for viewing and commenting. Information on ePlanning can be found at Internet Web site:

http://www.blm.gov/wo/st/en/prog/planning/planning_overview/eplanning2.html.

All comments submitted regarding difficulties using the ePlanning application are being considered in the maintenance of the software application and in future upgrades.

5.4.3 SUMMARY OF COMMENTS

The comment period closed on November 25, 2011. All written comments sent prior to midnight (12:00 AM on November 25, 2011) were accepted as official comments. Methods of submitting comments included the ePlanning web platform, letters, facsimiles, and email messages. All comments, regardless of how they were submitted, received equal consideration.

Over 250 organizations, government agencies, industry representatives, and individuals responded during the comment period. Most of the written submissions contained multiple comments on different topics, and over 500 unique comments were made. All information received through these comments has been

evaluated, verified, and incorporated into the Final EIS, as appropriate. If you are interested in reviewing individual letters or the complete set of letters received on the Draft RMP/EIS, they are available for viewing through the PDO web site and on compact disc by request.

Comments on the DRMP/DEIS pertained to a number of issues, including but not limited to scope of the document, NEPA adequacy of the baseline data and impact analysis, information related to consultation and coordination on the project, and policies and guidance the BLM needed to follow. In addition, comments were received for the following resources and resource uses: air quality, cultural resources, fish and wildlife, livestock grazing, land use and special designations, minerals and energy, noise, national scenic and historic trails, recreation, socioeconomics, special status species, tribal interests, vegetation, visual resources, and water resources. BLM responses to the comments are presented in **Chapter 6, Comments Received on the Draft EIS.**

5.5 LIST OF PREPARERS

**Table 5-1
List of Preparers**

Name	Degree	Role
Preparers: 2011 Draft RMP/EIS and 2012 PRMP/FEIS		
Bureau of Land Management, Management Team		
Angelita S. Bullets	B.S., Anthropology	Phoenix District Manager
Emily Garber	B.A., Anthropology M.A., Anthropology;	Lower Sonoran Field Manager
Richard B. Hanson	B.S., Park and Recreation Resources	Sonoran Desert National Monument Manager and Recreation/Wilderness
Bureau of Land Management, Interdisciplinary Team		
Brian Achziger	Fire Science	Fire Management Specialist, Fuels – Phoenix District Office
Barbara Albiston	B.S., English	Writer/Editor – Boise District Office
Don Applegate	B.S., Recreation Resources Management	Recreation Program Lead – Arizona State Office
Leah Beaudoin Baker	M.A., Global Environmental Policy; B.S., Biology	Planning and Environmental Coordinator – Phoenix District Office
Mike Behrens	M.S., Forest Science/Fire Ecology; B.S., Forest Science	Fire Management Officer – Phoenix District Office (Former)
Jameson Belke	B.S., Geography/Cartography	GIS Specialist – Phoenix District Office (Former)
Thomas V. Bickauskas	B.S., Manufacturing Engineering Technology	Travel Management Coordinator – Hassayampa Field Office
Steve Bird	B.S., Wildlife Sciences	Wildlife Biologist – Sonoran Desert National Monument
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David Eddy	B.S., Geology	Geologist – Hassayampa Field Office

**Table 5-1
List of Preparers**

Name	Degree	Role
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Jeff Garrett	B.S., Geology	Mining Law Program Lead – Arizona State Office
Jo Ann Goodlow	M.P.M., Planning Management	Reality Specialist– Lower Sonoran Field Office
Chris Horyza	B.S., Forestry and Range Management	Arizona BLM Planning and Environmental Program Lead – Arizona State Office
Michael Johnson	M.A., Anthropology; B.A. Anthropology	Deputy Preservation Officer – Arizona State Office
Byron Lambeth	B.S., Rangeland Management	Rangeland Resources – Lower Sonoran Field Office (Former)
Mariano Lanza	B.S., Environmental Technology Management and Engineering	Surface Protection Specialist, Hazardous Materials, Public Safety – Lower Sonoran Field Office
Matthew Magaletti	M.U.E.P., Urban and Environmental Planning; B.S., Planning	Realty Specialist/Assistant Planning and Environmental Coordinator – Lower Sonoran Field Office (Former)
Ken Mahoney	B.S., Leisure Studies, Park Planning & Resource Management	National Landscape Conservation System Coordinator – Arizona State Office
Elroy Masters	B.A., Biology	State Fish and Wildlife Program Lead – Arizona State Office
Joshua Mays	B.S., Wildlife and Restoration Ecology	Biological Science Technician – Lower Sonoran Field Office (Former)
Roger Oyler	B.S., Agriculture, Range Science	Arizona Wild Horse and Burro Program Lead – Arizona State Field Office
David G. Proffitt	M.U.E.P., Urban & Environmental Planning; B.A. English	Writer/Editor & Assistant Environmental Planner – Lower Sonoran Field Office (Former)
William J. Ragsdale	B.S., Agriculture	Outdoor Recreation Planner – Lower Sonoran Field Office
Jim Renthal	M.S., Watershed Management	Soil, Water, Air, Riparian Program Lead – Arizona State Office
David L. Scarbrough	B. S., Forestry	Outdoor Recreation Planner – Sonoran Desert National Monument

**Table 5-1
List of Preparers**

Name	Degree	Role
Paul Sitzmann	B.A., Ecology and Evolutionary Biology	Range Technician – Phoenix District Office, Wildlife Biologist Agua Fria National Monument
Michael Werner	B.S., Natural Resources	Realty Specialist – Arizona State Office
Ammon Wilhelm	B.S., Fish and Wildlife Management	Wildlife Biologist – Kingman Field Office
EnviroSystems Management 2011 Draft RMP/EIS		
Lilian Jonas	Ph.D., Sociology; M.A., Applied Sociology; B.S., Biology	Writer/Editor
Environmental Management and Planning Solutions, Inc., Interdisciplinary Team 2012 PRMP/FEIS		
Angie Adams	BA, Biology, English Minor, Drake University, 1995	Transportation, Recreation
David Batts	MS, Natural Resource Planning, Michigan State University, 1993 BS, International Development, Lewis and Clark College, 1989	Socioeconomics
James Bode	BA, Environmental Studies, University of Colorado at Boulder, 2009	Socioeconomics; Technical Editing
Amy Cordle	BS, Civil Engineering, Virginia Polytechnic Institute and State University, 1992	Air Quality, Climate Change
Annie Daly	BA, Environmental Studies, Loyola Marymount University, 2011	Fire Management, Hazardous Materials
Zoe Ghali	MS, Environmental Physiology, University of Colorado, Boulder, 2006; Interdisciplinary Certificate in Environmental Policy, University of Colorado, Boulder, 2006; BS, Biology, University of California, Santa Barbara, 2001	Socioeconomics
Holly Prohaska	MS, Environmental Management, University of San Francisco (2000); BA, Marine Science / Biology, University of San Diego (1995)	Public Outreach, Project Management
Laura Long	MA, 2010, Media and Communications, European Graduate School; BA, 2004, English Literature, Florida State University	Technical Editor
Carol-Anne Murray	MA, Anthropology, University of Wyoming, 1997; BA, Anthropology, University of California, Los Angeles, 1992	Project Manager, Cultural Resources, Paleontology, Tribal Interests

**Table 5-1
List of Preparers**

Name	Degree	Role
Katie Patterson	JD, Environmental Law, University of Colorado –Boulder 2011; BA, Environmental Policy, Vanderbilt University, 2008	Air Quality, Climate Change
Jennifer Thies	MS, Resource Management, University of Nevada Reno, 1998; BS, Conservation and Resource Studies, University of California, Berkeley, 1993	Lands and Realty
Drew Vankat	MS, Environmental Policy and Planning, University of Michigan, 2006; BPh, Urban and Environmental Planning, Miami University, 2003	Travel Management, Recreation
Jennifer Whitaker	MS, Project Management, Regis University, 2007; BS, Public Affairs, Concentration Natural Resource Management, Indiana University, 1997	Mineral Resources
Kate Wynant	BA, Environmental Studies; Spanish; Minor in Political Science; University of Colorado – Boulder, 2006	Visual Resources Management
Meredith Zaccherio	MS, Biology, Boston University, 2005; BS, Biology, SUNY Binghamton, 2001; BS, Environmental Science, SUNY Binghamton, 2001	Plants and Wildlife

Preparers: 2006 Administrative Draft

Bureau of Land Management, Management Team

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Ralph Costa	B.S., Engineering	Lower Sonoran Acting Associate Field Manager for Lands and Minerals (Retired)
Eugene Dahlem	M.S., Zoology	Sonoran Desert National Monument Manager (Retired)
Karen Kelleher	M.E.M., Landscape Ecology	Sonoran Desert National Monument Manager (Former)

Bureau of Land Management, Interdisciplinary Team

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**Table 5-1
List of Preparers**

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Helen Graham	B.S., Biology	Fire Management – Phoenix District Field Office (Former)
Nancy Guererro	B.A., Communications	External Affairs – Phoenix District Office (Former)
Genevieve Johnson	M.U.E.P., Urban and Environmental Planning; B.S., Conservation Biology	Project Manager, Socioeconomics – Lower Sonoran Field Office (Former)
Glenn Joki	B.S., Engineering Studies	Fire Management – Phoenix District Office (Retired)
James Maes	B.S., Mechanical Engineering	Air Quality, Hazardous Materials, Public Safety – Lower Sonoran Field Office (Former)
Angel Mayes	A.A., General Studies	Realty Specialist – Sonoran Desert National Monument (Former)
Sally Olivieri	A.S., Forest Technician	Geographic Information Systems and Mapping – Kingman Field Office
Demetrius Purdie-Williams	B.S., Technology	Geographic Information Systems and Mapping – Phoenix District Office (Former)
Kirk N. Rentmeister	B.S., Geology	Geologist – Hassayampa Field Office (Former)
Gregg Simons	B.S., Forest Management	BLM State Planning and Environmental Coordinator – Arizona State Office (Retired)
Christine Tincher	B.A., Communication	External Affairs – Phoenix District Office (Former)
Lori Young	B.S., Wildlife Management	Wildlife Biologist – Sonoran Desert National Monument (Former)
EnviroSystems Management, Interdisciplinary Team		
Sunny Bush	M.T., Hazardous Materials and Waste Management; B.A., English	Hazardous Materials, Public Health and Safety
Debra Duerr	B.A., Urban Planning	Project Manager, Visual Resources
URS Corporation, Interdisciplinary Team		
Kirsten Erickson	M.A., Public History and US History; B.A., History	Cultural and Heritage Resources
Jennifer Frownfelter	M.S., Environmental Management, Public Policy; B.S., Environmental, Population, and Organismic Biology, Environmental Conservation	Lands and Realty

**Table 5-1
List of Preparers**

Name	Degree	Role
Jeff Johnson	M.S., Plant Biology; B.S., Plant Biology	Biological Resources, Fire and Fuels
Colleen Mahoney	None	Administrative Support
Peter Martinez	M.A., Geography Information Management; B.S., Environmental Geography	Database and Web Applications
Brad Norling	M.S., Zoology and Physiology; B.S., Wildlife Biology	Biological Resources
Dave Palmer	M.A., Geology; B.S., Geology	Minerals, Geological and Paleontological Resources, Cave Resources
Meg Quarrie	B.A., Liberal Arts	Administrative Support
Ryan Rausch	M.S.E.L., Environmental Law; B.A., Biology	Project Coordinator, Water Resources, Soils
Patty Renter	Geography, Visual Basic, Introduction to ArcView, Computer information Systems	Geographic Information Systems
Gene Rogge	M.A., Anthropology; B.A., Anthropology	Cultural and Heritage Resources
Cindy Smith	B.S., Liberal Arts and Sciences	Principal-in-Charge
Barbara Sprungl	M.B.A., Business Administration; B.S., Chemical Engineering	Air Quality
Brock Tunnicliff	Ph.D., Natural Resource Management; M.S., Watershed Hydrology; B.S., Forest Ecology	Wilderness Characteristics, Travel Management, Special Designations, Recreation
Leslie Watson	B.S., Zoology	Biological Resources
Sandy Weir	B.S., Geography	Socioeconomics
Jessica Wellmeyer	M.S., Geology; B.S., Geology	Water Resources and Soils
Jen Wennerlund	M.S., Geography; B.S., Geography, Cartography, Remote Sensing, Land Use Planning	Geographic Information Systems Manager