

HIPPY FIRE
AMENDED
BURNED AREA REHABILITATION PLAN

U.S. FISH AND WILDLIFE SERVICE
CIBOLA NATIONAL WILDLIFE REFUGE
February 2005

FIRE DATE: June 23, 2002

AGENCY/UNIT: U.S. Fish and Wildlife Service
Cibola National Wildlife Refuge
Rt. 2, Box 138, Cibola, Arizona 85328
Phone: 928-857-3253

LOCATION/SIZE: Cibola, La Paz County, Arizona
424 acres, T1S, R24W, Sec.2
Lat. and Long.; 33° 21' 14.2" x 114° 41' 46.6"

PREPARED BY: U.S. Department of Interior
U.S. Fish and Wildlife Service
Cibola National Wildlife Refuge and
Regional Office BAER Team

Submitted By:

Date:

Mark Kaib, Acting Regional Fire Management Coordinator/Fire Ecologist

REHABILITATION PLAN REVIEW AND APPROVAL

I. Project Leader approval that the Rehabilitation Plan meets approved land management plan management objectives.

Project Leader, Tom Alexander Date

II. Regional Fire Management Coordinator concurrence that the plan fits the Interagency Burned Area Response Handbook technical definition for use of Rehabilitation funding.

Regional Fire Management Coordinator, Region 2 Date

III. Rehabilitation Funding Approval (check one box below):

- Approved** Explanation for Revision or Disapproval:
- Approved with Revision**
- Disapproved**

Regional Director, Region 2 Date

IV. Rehabilitation Funding Approval (check one box below):

- Approved** Explanation for Revision or Disapproval:
- Approved with Revision**
- Disapproved**

Chief, National Wildlife Refuge System Date

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EXECUTIVE SUMMARY

Introduction

This plan has been prepared in accordance with specific agency policy. This plan has been amended to provide burned area rehabilitation recommendations for all lands burned within the Hippy Fire perimeter which lie within the Cibola National Wildlife Refuge (NWR) administered by the U.S. Fish and Wildlife Service (USFWS). The primary objectives of the Hippy Fire Burned Area Rehabilitation Plan are:

- ☐ Utilize integrated management activities to improve lands unlikely to recover naturally from severe wildland fire damage by emulating historic ecosystem structure, function, diversity, and dynamics according to approved land management plans.
- ☐ Restore or establish healthy, functioning ecosystems, even if these ecosystems cannot fully emulate historic or pre-fire conditions as specified in approved land management plans.
- ☐ To reduce fire hazards to the surrounding resources and facilities, through restoration of native riparian vegetation (i.e. cottonwood, willow, mesquite), in place of more flammable and hazardous monotypic salt cedar.

The original burned area rehabilitation team consisted of Mike Hawkes (Refuge Manager), John Earle, and Brenda Zaun of Cibola NWR, and Mark Kaib from the Regional Office. This revised plan is being managed and implemented by Tom Alexander (Refuge Manager), Bill Seese (Assistant Refuge Manager), and Geary Hund the Refuge Biologist.

The 424 acre area burned by the fire was dominated by mature salt cedar (*Tamarix chinensis*.) with quailbush (*Atriplex lentiformis*), arrow-weed (*Tessaria sericea*), cottonwood (*Populus fremontii*), and a 20 year old revegetation site that contained willow (*Salix goodingii*), screwbean mesquite (*Prosopis pubescens*) and honey mesquite (*Prosopis glandulosa*). The team found extensive high severity burn damage to the revegetation site as well as patches of cottonwood and willow trees located along the river in the backwater areas of J-dikes. Approximately .7 miles of refuge fencing was destroyed as well as 8 to 10 wooden utility poles that held the line that supplied power to a pump that served as the refuge's water supply. The refuge and the community of Cibola experienced a power outage for several hours Sunday afternoon/evening. Severe radiant heat damaged all of the boundary signs located on the .7 miles of fencing. The heat also melted the copper telephone wires together within a telephone junction box located along the fence line, which rendered the refuge without telephone service until Monday morning. The wildlife biologist evaluated vegetation and habitat impacts and conducted an assessment of wildlife loss. The refuge manager assessed utility pole and line damage and notified Arizona Public Service (APS) utility company regarding damage and repairs required. On June 25, APS replaced the burned poles with steel utility poles.

Treatment specification numbers 1-5 have been funded and accomplished through Fiscal Year 01 and 02 expenditures (2003-2004). These treatments include the clearing and piling of aerial vegetation, root plowing and piling salt cedar and remaining woody debris, repair of concrete ditch, replacement of fence, and the forthcoming agriculture engineering plan for laser leveling, water conveyance system, and revegetation units (See Part E).

Fire Background

The Hippy Fire began around 1:30 pm on Sunday, June 23, 2002, at Cibola NWR approximately 1 mile west of the refuge headquarters, La Paz County, Arizona. The cause of ignition is currently under investigation, but is believed to be human-caused with the aid of fireworks. Initial assessment of the fire

was initiated by Tristan Fluharty, BLM Fire Operations Specialist. Incident command was taken by the Lower Colorado River Interagency Fire Management Group engines from the Yuma BLM. The fire exhibited extreme fire behavior including fire whirls, spotting, and torching with winds up to 15 mph from the southwest. It grew rapidly, jumping two roads. It expanded a range of 1.6 miles in length within 2 hours. The radiant heat and intensity of the fire was extreme, completely incinerating wooden power poles and trees in the hottest portions of high fuel loads. In addition to refuge lands, the fire spotted across a county road and burned two large stacks of baled alfalfa hay. Resources that responded to the Hippy Fire included 9 Type 6 engines (BLM Yuma, Kingman, Phoenix, Oatman, Mohave Mesa), a Type 2 and Type 4 engine from Ehrenberg and Palo Verde, 2 water tenders, 3 Type 4 engines, 1 Type 2 crew from Mescalero, 1 Type 3 helicopter, 2 single-engine air tankers, 1 air attack, and Riverside, Imperial and La Paz County Sheriff's Offices also provided assistance, primarily with traffic control. One D6 dozer was utilized to build a fire line to halt the continued growth of the fire and prevent it from possibly endangering private homes and lives. The fire was contained on June 24, 2002 at 2000 and declared controlled on June 26, 2002 at 1700.

Fire Damages and Threats to Human Safety and Natural and Cultural Resources

In addition to vegetation damage caused by the fire, .7 miles of refuge boundary fence, 6 boundary signs, and 8 to 10 wooden utility poles were destroyed directly by the fire and associated radiant heat. Approximately 70 feet of cement-lined irrigation ditch was destroyed due to fire suppression activities with a bulldozer. A local contractor was called and assessed the damage for immediate replacement. The current burned area condition poses no threat to human safety or cultural resources in the area. The majority of the area burned was historically used for agriculture. However, it is located within 1 mile of the community of Cibola. West winds could produce a significant amount of ash and dust that could possibly affect respiratory health function in some people. Although the pre-burn riparian habitat was severely altered from non-native invasive tamarisk and hydrological changes, the riparian wildlife habitat that existed is now completely destroyed. The restoration of native riparian and wetland habitats will greatly enhance the wildlife and recreational benefits, Endangered Southwestern Willow Flycatcher Critical Habitat while reducing future threats from high severity wildland fires.

Management Requirements

The area lies within the Cibola NWR and is adjacent to an important recreational area along the east side of the Colorado River. It is also located within a mile from the community of Cibola. The adjacent river is popular for boating, skiing, fishing, and is used by tourists and local residents. Various partners, including the U.S. Bureau of Reclamation (BOR) and the U.S. Bureau of Land Management (BLM) would be interested partners, along with the U.S. Fish and Wildlife Service (USFWS), in revegetation of this area. Furthermore, revegetation with native trees would greatly reduce the threat of a fire hazard for the surrounding communities and natural resources. Without integrated management of these non-native invasive species and revegetation efforts, salt cedar will return rapidly and create a severe fire hazard within about 5 years.

Rehabilitation

The following statements in approved management plans justify the proposed burned area rehabilitation treatments funded with Emergency Fire Rehabilitation funds.

Lower Colorado River National Wildlife Refuges Comprehensive Management Plan and Environmental Assessment, page 55, lists revegetation, including salt cedar removal, as a goal and objective of Cibola NWR (approved 9/94, J. Rogers).

Restore riparian areas invaded by salt cedar to historic Southwestern Willow Flycatcher habitat, (Lower Colorado River Refuge Complex Comprehensive Conservation Plan, page 31, C. Smith, 10/97).

Guidance for rehabilitation of wildfire areas is provided by the USFWS Fire Management Handbook (Release: 7/17/00) and 095 FW3 (2/00).

The burned area presents an opportunity to prevent the invasive exotic salt cedar from further dominating this area by restoring it with native riparian plant species. This should also enhance the water resources available to wildlife and plants at this site, as native species utilize less water for evapotranspiration than the exotic salt cedar. Restoring native plants will help stabilize soils by mitigating gully and sheet erosion of soil, ash, and woody debris, thereby reducing the erosion of these elements and their impacts to the lower watershed and riparian habitat.

Guidance limits the use of fire rehabilitation funds to stabilize soils and biotic communities no later than two growing seasons, or at the time of this original plan approval, for a maximum of three years after initial plan approval. The stabilization of biotic communities should minimize unacceptable changes to ecosystem structure and function resulting from wildfire. Such stabilization allows for the establishment of shrubs, forbs, grasses, and trees if demonstrated to meet project objectives. Also allowed are efforts to minimize the establishment of non-native invasive species to prevent burned area degradation.

Our objective for the Hippy Fire rehabilitation plan is to first remove as much of the burned aerial vegetation (salt cedar skeletons) as possible, using heavy equipment. This can be achieved by using a Caterpillar D6 and/or D8 with a blade and root knife. Salt cedar resprout vigorously after burning. Planting of native cottonwood, willow, mesquite trees, and perhaps native bushes (quail bush, wolfberry) would follow at a rate of approximately 110 trees per acre (20' centers). The trees would be flooded/irrigated accordingly to achieve maximum growth and survivorship.

PART A - FIRE LOCATION AND BACKGROUND INFORMATION

Fire Name	Hippy
Fire Number	C803
Agency Unit	Cibola National Wildlife Refuge
Region	2
State	Arizona
County(s)	La Paz
Ignition Date/Cause	June 23, 2002 / Human caused
Zone	LCR Interagency
Date Controlled	June 26, 2002 @ 1700
Total Acres	424
Date Contained	June 24, 2002 @ 2000

PART B - NATURE OF PLAN

I. Type of Plan (check one box below)

Emergency Stabilization

X Rehabilitation

Both Emergency Stabilization and Rehabilitation

II. Type of Action (check one box below)

- Initial Submission**
- X Updating or Revising the Initial Submission**
- X Supplying Information of Accomplishment to Date on Work**
- Different Phase of Project**
- Final Accomplishment Report (To Comply with the Closure of the 9262 Account)**

PART C - REHABILITATION PLAN OBJECTIVES

- Prevent aggressive regrowth and re-establishment of undesirable exotic plant species such as salt cedar (*Tamarix chinensis*) as practical and necessary, restore natural conditions to areas disturbed by fire suppression actions
- Replace utility poles, fencing, signs, and repair damaged section of irrigation ditch.
- Rehabilitate former salt cedar areas with cottonwoods, willows, mesquites and other native species as specified in the Lower Colorado River National Wildlife Refuges Comprehensive Management Plan.
- Reduce fire hazards to surrounding communities and facilities.

PART D – BURNED AREA REHABILITATION TEAM MEMBERS

Position	Team Member (Agency)
Team Leader*	Tom Alexander, Refuge Manager (USFWS)
Public Information	BLM, Yuma office
Operations	Bill Seese, (USFWS)
NEPA Compliance & Planning	Brenda Zaun, Refuge Biologist (USFWS)
Hydrologist	Andrew Hautzinger (USFWS)
Fire Ecologist	Mark Kaib (USFWS)
Cultural Resources/Archeologist	Carol Telles (BLM)
Vegetation Specialist	Brenda Zaun (USFWS)
Wildlife Biologist	Geary Hund (USFWS)
GIS Specialist	Barbara Bowles (BLM)
Contracting	Joe Grainey
Photographer	Brenda Zaun (USFWS)

PART E - SUMMARY OF ACTIVITIES AND COSTS

The summary of activities and cost table below identifies emergency rehabilitation costs charged or proposed for funding from Suppression Operations, Emergency Fire Rehabilitation, agency operation, and other funding sources. Treatments 1-5 and 11 were funded and accomplished through Fiscal Year 01 and 02 obligations (2003-2004). Expenditures are displayed in the total cost column. They are coded with the appropriate cost authority. The total cost of the rehabilitation effort to date is displayed, excluding the costs absorbed by the fire account (fire crews, labor, and associated overhead) is displayed as Suppression Operations (F), Fire Rehabilitation (FR), Emergency Watershed Protection (EWP), or Agency Operations/Other (O/OP) or other. An 8A contractor has been identified for remaining treatments and this work has been put on the fast track to be expedited for completion by the end of June. It was determined through the agriculture engineering plan, that our original cost estimates for the remaining treatments were underestimated. Refer to the agriculture engineering plan on file at the Cibola NWR for more detailed treatment specifications. This table identifies rehabilitation costs charged or proposed for funding from rehabilitation funding sources. Revegetation activities will be implemented and costs incurred by the Refuge as described in Part G post rehabilitation.

No.	Treatment Specification	Unit	Unit Cost (\$)	# Units	Implementation Method/ FY	Specification Total (\$)
Contractor/Agency Services						
1	Repair concrete ditch	job	\$3,000	1	Contractor/01	\$3,000
2	Replace fence	mile	\$10,000	0.7	Contractor/01	\$7,000
3	Clear and pile aerial vegetation	acre	\$575	400	Contractor/02	\$230,056
4	Root plow and pile salt cedar roots and woody debris	acre	\$240	400	Contractor/02	\$96,168
5	Agriculture Engineering Plan for laser leveling, water conveyance system, and revegetation units.	job	\$47,945	1	Contractor/02	\$47,945
6	Earthwork, Levee, Roadwork, and water control design earth moving specifications.	job	\$7,500	1	Contractor/03	\$7,500
7	Laser level ground	Cubic Yards	\$1.50	121,000	Contractor/03	\$181,500
8	Construct water conveyance system, turnouts, check gates, ditch lining and repairs, drainage ditches	job	\$120,960	1	Contractor/03	\$120,960
9	Project Construction Management, construction staking, field inspections, office supplies, as built,	job	\$21,500	1	Contractor/03	\$21,500
10	Sediment Detention Basin	job	\$45,500	1	Contractor/03	\$45,500
Supplies						
11	Signs	ea	\$7	13	Contractor/01	\$89
Wages						
12	Administrative Assessment, Contract Administration, Planning, Efficacy Monitoring	ea	\$37,709	1	Agency	\$37,709
*Sub-Total Completed Treatments.....						\$384,258
Total Rehabilitation Funding Needed.....						\$414,669
Total Emergency Stabilization and Rehabilitation Funding.....						\$798,927
Treatment specification numbers 1-5, and 11 have been funded and accomplished through Fiscal Year 01 and 02 expenditures (2003-2004).						

PART F - INDIVIDUAL TREATMENT SPECIFICATIONS

SPECIFICATION TITLE:	Repair Concrete Ditch	AGENCY:	Contractor
PART E: Treatment Specification # 1	Repair concrete irrigation ditch	FISCAL YEAR(S) (list each year):	FY1

I. WORK TO BE DONE (describe or attach exact specifications of work to be done)

<p>Number and Describe Each Task:</p> <p>A. General Description: Construct irrigation ditch from water source to revegetation site</p> <p>B. Location/Suitable Sites: 400 acre area burned by Hippy Fire</p> <p>C. Design/Construction Specifications: Ditch dimensions, 2' at bottom with 1:1 slope and 8' top width with turnouts</p> <p>D. Purpose of Treatment Specifications: To flood irrigate / revegetated area</p>

II. LABOR, MATERIALS AND OTHER COSTS:

PERSONNEL SERVICES:	COST/ITEM
TOTAL PERSONNEL SERVICE COST	
EQUIPMENT PURCHASE, LEASE AND/OR RENT	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	
MATERIALS AND SUPPLIES	COST/ITEM
TOTAL MATERIALS AND SUPPLY COST	
TRAVEL COST	COST/ITEM
TOTAL TRAVEL COST	
CONTRACT COST	COST/ITEM
Construct irrigation ditch	\$3,000
TOTAL CONTRACT COST	\$3,000

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNIT	COST	FUNDING SOURCE	METHOD
FY 1	job	\$3,000	1	\$3,000	R	C

FUNDING SOURCE

F - Suppression Operations P - Agency Personnel Services
 R - Burned Area Rehabilitation C - Contract (long-term)
 OP/O - Agency Operations/Other

METHODS

EWP - Emergency Watershed Protection
 EFC - Emergency Fire Contract (short-term)
 FC - Incident Management Crew Assignment

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2-3 independent contractual sources.	
2. Documented cost figures from similar project work obtained from local agency sources.	M/C
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimates based upon government wage rates and material cost.	
5. No cost estimate required -- cost charged to Fire Suppression Account.	

P = Personnel Services E = Equipment M = Materials/Supplies T = Travel C = Contract F = Suppression

PART F - INDIVIDUAL TREATMENT SPECIFICATIONS Cont.

SPECIFICATION TITLE:	Replace Fence	AGENCY:	Contractor
PART E: :Treatment Specification # 2	Replace Fence	FISCAL YEAR(S) (list each year):	FY1

I. WORK TO BE DONE (describe or attach exact specifications of work to be done)

<p>Number and Describe Each Task:</p> <p>A. General Description: Replace .7 miles of 5-strand barbed wire fence damaged by the Hippy Fire</p> <p>B. Location/Suitable Sites: Fence denotes Refuge north boundary (parallels Baseline Rd.)</p> <p>C. Design/Construction Specifications: Replace T-posts, wood support structures including H-braces and corner braces. Replace 5 strands of 12.5 gauge barbed wire. Remove damaged fence.</p> <p>D. Purpose of Treatment Specifications: Fence denotes Refuge north boundary and closed area.</p>

II. LABOR, MATERIALS AND OTHER COSTS:

PERSONNEL SERVICES:	COST/ITEM
TOTAL PERSONNEL SERVICE COST	
EQUIPMENT PURCHASE, LEASE AND/OR RENT	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	
MATERIALS AND SUPPLIES	COST/ITEM
TOTAL MATERIALS AND SUPPLY COST	
TRAVEL COST	COST/ITEM
TOTAL TRAVEL COST	
CONTRACT COST	COST/ITEM
Replace Fence	\$7,000
TOTAL CONTRACT COST	\$7,000

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNIT	COST	FUNDING SOURCE	METHOD
FY 1	mile	\$10,000	.7	\$7000	R	C

FUNDING SOURCE

F - Suppression Operations
R - Burned Area Rehabilitation
EWP - Emergency Watershed Protection
OP/O - Agency Operations/Other

METHODS

P - Agency Personnel Services
C - Contract (long-term)
EFC - Emergency Fire Contract (short-term)
FC - Incident Management Crew Assignment

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2-3 independent contractual sources.	
2. Documented cost figures from similar project work obtained from local agency sources.	M/C
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimates based upon government wage rates and material cost.	
5. No cost estimate required -- cost charged to Fire Suppression Account.	

P = Personnel Services E = Equipment M = Materials/Supplies T = Travel C = Contract F = Suppression

PART F - INDIVIDUAL TREATMENT SPECIFICATIONS Cont.

SPECIFICATION TITLE:		AGENCY:	Contractor
PART E: Treatment Specification # 3 & 4	Clear and pile aerial vegetation and root plowed woody debris		
	Ground clearing and preparation for laser leveling and water control structures	FISCAL YEAR(S) (list each year):	FY02

I. WORK TO BE DONE (describe or attach exact specifications of work to be done)

<p>Number and Describe Each Task:</p> <p>A. General Description: D-6 CAT to clear burned aerial vegetation and root plow 400 acre burned area to remove salt cedar skeletons and root crowns</p> <p>B. Location/Suitable Sites: 400 acres burned in Hippy Fire</p> <p>C. Design/Construction Specifications: Remove aerial vegetation and root crowns</p> <p>D. Purpose of Treatment Specifications: To prepare ground for laser leveling and water control structures.</p>

II. LABOR, MATERIALS AND OTHER COSTS:

PERSONNEL SERVICES:	COST/ITEM
TOTAL PERSONNEL SERVICE COST	
EQUIPMENT PURCHASE, LEASE AND/OR RENT	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	
MATERIALS AND SUPPLIES	COST/ITEM

D-6 CAT Clear and pile aerial vegetation @ \$575.14 for 400 acres	\$230,056
D-6 CAT and root plow and pile woody debris @ \$240.42 for 400 acres	\$96,168
TOTAL MATERIALS AND SUPPLY COST	\$326,224
TRAVEL COST	COST/ITEM
TOTAL TRAVEL COST	
CONTRACT COST	COST/ITEM
TOTAL CONTRACT COST	\$326,224

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNIT	COST	FUNDING SOURCE	METHOD
FY 02	Acres	\$575.14	400	\$230,056	R	C
FY 02	Acres	\$240.42	400	\$96,168	R	C

FUNDING SOURCE

F - Suppression Operations
R - Burned Area Rehabilitation

METHODS

P - Agency Personnel Services
C - Contract (long-term)

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2-3 independent contractual sources.	
2. Documented cost figures from similar project work obtained from local agency sources.	C
3. Estimate supported by cost guides from independent sources or other federal agencies.	C
4. Estimates based upon government wage rates and material cost.	
5. No cost estimate required -- cost charged to Fire Suppression Account.	

P = Personnel Services E = Equipment M = Materials/Supplies T = Travel C = Contract F = Suppression

PART F - INDIVIDUAL TREATMENT SPECIFICATIONS Cont.

SPECIFICATION TITLE:	Agriculture Engineering Plan for laser leveling, water conveyance system, and revegetation	AGENCY:	Contractor
PART E: Treatment Specification # 5	Agriculture Engineering Plan	FISCAL YEAR(S) (list each year):	FY02

I. WORK TO BE DONE (describe or attach exact specifications of work to be done)

<p>Number and Describe Each Task:</p> <p>A. General Description: Agriculture Engineering Plan</p> <p>B. Location/Suitable Sites: 424 acres burned in Hippy Fire</p> <p>C. Design/Construction Specifications: Agriculture Engineering Plan for laser leveling, water conveyance system, field topographic survey and soil salinity profiling maps.</p> <p>D. Purpose of Treatment Specifications: Agriculture Engineering Plan that provides the design and specifications necessary for the scope of work and bidding out of the laser leveling and water conveyance system. Additionally to guide the design of the revegetation.</p>
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II. LABOR, MATERIALS AND OTHER COSTS:

PERSONNEL SERVICES:	COST/ITEM
TOTAL PERSONNEL SERVICE COST	
EQUIPMENT PURCHASE, LEASE AND/OR RENT	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	
MATERIALS AND SUPPLIES	COST/ITEM
TOTAL MATERIALS AND SUPPLY COST	
TRAVEL COST	COST/ITEM
TOTAL TRAVEL COST	
CONTRACT COST	COST/ITEM
Agriculture Engineering Plan	\$47,945
TOTAL CONTRACT COST	\$47,945

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNIT	COST	FUNDING SOURCE	METHOD
FY02	1	\$47,945	1	\$47,945	R	C

FUNDING SOURCE

- F - Suppression Operations
- R - Burned Area Rehabilitation
- EWP - Emergency Watershed Protection
- OP/O - Agency Operations/Other

METHODS

- P - Agency Personnel Services
- C - Contract (long-term)
- EFC - Emergency Fire Contract (short-term)
- FC - Incident Management Crew Assignment

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2-3 independent contractual sources.	M/C
2. Documented cost figures from similar project work obtained from local agency sources.	M/C
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimates based upon government wage rates and material cost.	
5. No cost estimate required -- cost charged to Fire Suppression Account.	

P = Personnel Services E = Equipment M = Materials/Supplies T = Travel C = Contract F = Suppression

PART F - INDIVIDUAL TREATMENT SPECIFICATIONS Cont.

SPECIFICATION TITLE:	Earthwork, Levee, Roadwork, and water control design earth moving specifications.	AGENCY:	Contractor
PART E: Treatment Specification # 6	Earthwork Quantification Plan	FISCAL YEAR(S) (list each year):	FY03

I. WORK TO BE DONE (describe or attach exact specifications of work to be done)

<p>Number and Describe Each Task:</p> <p>A. General Description: Earthwork, Levee, Roadwork, and water control design earth moving specifications</p> <p>B. Location/Suitable Sites: 424 acres burned in Hippy Fire</p> <p>C. Design/Construction Specifications: Earthwork Quantification Plan</p> <p>D. Purpose of Treatment Specifications: Survey of soil elevation and quantification of earthwork required to meet agriculture engineering plan.</p>

II. LABOR, MATERIALS AND OTHER COSTS:

PERSONNEL SERVICES:	COST/ITEM
TOTAL PERSONNEL SERVICE COST	
EQUIPMENT PURCHASE, LEASE AND/OR RENT	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	
MATERIALS AND SUPPLIES	COST/ITEM
TOTAL MATERIALS AND SUPPLY COST	
TRAVEL COST	COST/ITEM
TOTAL TRAVEL COST	
CONTRACT COST	COST/ITEM
Agriculture Engineering Plan	\$7,500
TOTAL CONTRACT COST	\$7,500

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNIT	COST	FUNDING SOURCE	METHOD
FY03	1	\$7,500	1	\$7,500	R	C

FUNDING SOURCE

- F - Suppression Operations
- R - Burned Area Rehabilitation
- EWP - Emergency Watershed Protection
- OP/O - Agency Operations/Other

METHODS

- P - Agency Personnel Services
- C - Contract (long-term)
- EFC - Emergency Fire Contract (short-term)
- FC - Incident Management Crew Assignment

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2-3 independent contractual sources.	M/C
2. Documented cost figures from similar project work obtained from local agency sources.	M/C
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimates based upon government wage rates and material cost.	
5. No cost estimate required -- cost charged to Fire Suppression Account.	

P = Personnel Services E = Equipment M = Materials/Supplies T = Travel C = Contract F = Suppression

PART F - INDIVIDUAL TREATMENT SPECIFICATIONS Cont.

SPECIFICATION TITLE:	Laser Level Ground	AGENCY:	Contractor
PART E: Treatment Specification # 7	Laser Level -Ground Preparation	FISCAL YEAR(S) (list each year):	FY03

I. WORK TO BE DONE (describe or attach exact specifications of work to be done)

<p>Number and Describe Each Task:</p> <p>A. General Description: Laser level and slope ground to accommodate revegetation and flood irrigation</p> <p>B. Location/Suitable Sites: 424 acres burned in Hippy Fire</p> <p>C. Design/Construction Specifications: Laser level at approximately 1% slope</p> <p>D. Purpose of Treatment Specifications: To prepare ground for water conveyance system and revegetation</p>
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II. LABOR, MATERIALS AND OTHER COSTS:

PERSONNEL SERVICES:	COST/ITEM
TOTAL PERSONNEL SERVICE COST	
EQUIPMENT PURCHASE, LEASE AND/OR RENT	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	
MATERIALS AND SUPPLIES	COST/ITEM
TOTAL MATERIALS AND SUPPLY COST	
TRAVEL COST	COST/ITEM
TOTAL TRAVEL COST	
CONTRACT COST	COST/ITEM
Laser level at < 1% slope, 121,000 cubic yards @ \$1.50/cubic yard	\$181,500
TOTAL CONTRACT COST	\$181,500

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNIT	COST	FUNDING SOURCE	METHOD
FY03	cubic yard	\$1.50	121,000	\$181,500	R	C

FUNDING SOURCE

- F - Suppression Operations
- R - Burned Area Rehabilitation
- EWP - Emergency Watershed Protection
- OP/O - Agency Operations/Other

METHODS

- P - Agency Personnel Services
- C - Contract (long-term)
- EFC - Emergency Fire Contract (short-term)
- FC - Incident Management Crew Assignment

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2-3 independent contractual sources.	
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2. Documented cost figures from similar project work obtained from local agency sources.	M/C
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimates based upon government wage rates and material cost.	
5. No cost estimate required -- cost charged to Fire Suppression Account.	

P = Personnel Services E = Equipment M = Materials/Supplies T = Travel C = Contract F = Suppression

PART F - INDIVIDUAL TREATMENT SPECIFICATIONS Cont.

SPECIFICATION TITLE:	Water conveyance system	AGENCY:	Contractor
PART E: : Treatment Specification # 8	Construct water conveyance system, turnouts, check gates, ditch lining and repairs, drainage ditches	FISCAL YEAR(S) (list each year):	FY03

I. WORK TO BE DONE (describe or attache exact specifications of work to be done)

<p>Number and Describe Each Task:</p> <p>A. General Description: Water conveyance system</p> <p>B. Location/Suitable Sites: 424 acres of area burned in Hippy Fire</p> <p>C. Design/Construction Specifications: Construct water conveyance system, turnouts, check gates, ditch lining and repairs, drainage ditches</p> <p>D. Purpose of Treatment Specifications: To provide irrigation for restoration of native habitat</p>
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II. LABOR, MATERIALS AND OTHER COSTS:

PERSONNEL SERVICES:	COST/ITEM
TOTAL PERSONNEL SERVICE COST	
EQUIPMENT PURCHASE, LEASE AND/OR RENT	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	
MATERIALS AND SUPPLIES	COST/ITEM
TOTAL MATERIALS AND SUPPLY COST	
TRAVEL COST	COST/ITEM
TOTAL TRAVEL COST	
CONTRACT COST	COST/ITEM
\$120,960/job for 424 ac	\$120,960
TOTAL CONTRACT COST	\$120,960

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNIT	COST	FUNDING SOURCE	METHOD
FY03	job	\$120,960	1	\$120,960	R	C

FUNDING SOURCE

F - Suppression Operations
R - Burned Area Rehabilitation
EWP - Emergency Watershed Protection
OP/O - Agency Operations/Other

METHODS

P - Agency Personnel Services
C - Contract (long-term)
EFC - Emergency Fire Contract (short-term)
FC - Incident Management Crew Assignment

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2-3 independent contractual sources.	
2. Documented cost figures from similar project work obtained from local agency sources.	
3. Estimate supported by cost guides from independent sources or other federal agencies.	M/C
4. Estimates based upon government wage rates and material cost.	
5. No cost estimate required -- cost charged to Fire Suppression Account.	

P = Personnel Services E = Equipment M = Materials/Supplies T = Travel C = Contract F = Suppression

PART F - INDIVIDUAL TREATMENT SPECIFICATIONS Cont.

SPECIFICATION TITLE:	Construction Management	AGENCY:	Contractor
PART E: Treatment Specification # 9	Project Construction Management, construction staking, field inspections, office supplies, as built,	FISCAL YEAR(S) (list each year):	FY03

I. WORK TO BE DONE (describe or attache exact specifications of work to be done)

<p>Number and Describe Each Task:</p> <p>A. General Description: Project Management</p> <p>B. Location/Suitable Sites: Project Construction Management, construction staking, field inspections, office supplies, as built, of earthwork and water conveyance system for 424 acres burned in Hippy Fire</p> <p>C. Design/Construction Specifications: “ “ “</p> <p>D. Purpose of Treatment Specifications: To provide project oversight and management interface with Refuge project leader.</p>
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II. LABOR, MATERIALS AND OTHER COSTS:

PERSONNEL SERVICES:	COST/ITEM
TOTAL PERSONNEL SERVICE COST	
EQUIPMENT PURCHASE, LEASE AND/OR RENT	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	
MATERIALS AND SUPPLIES	COST/ITEM
TOTAL MATERIALS AND SUPPLY COST	
TRAVEL COST	COST/ITEM
TOTAL TRAVEL COST	
CONTRACT COST	COST/ITEM
\$21,500/job	\$21,500
TOTAL CONTRACT COST	\$21,500

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNIT	COST	FUNDING SOURCE	METHOD
FY03	job	\$21,500	1	\$21,500	R	C

FUNDING SOURCE

- F - Suppression Operations
- R - Burned Area Rehabilitation
- EWP - Emergency Watershed Protection
- OP/O - Agency Operations/Other

METHODS

- P - Agency Personnel Services
- C - Contract (long-term)
- EFC - Emergency Fire Contract (short-term)
- FC - Incident Management Crew Assignment

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2-3 independent contractual sources.	
2. Documented cost figures from similar project work obtained from local agency sources.	M/C
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimates based upon government wage rates and material cost.	
5. No cost estimate required -- cost charged to Fire Suppression Account.	

P = Personnel Services E = Equipment M = Materials/Supplies T = Travel C = Contract F = Suppression

PART F - INDIVIDUAL TREATMENT SPECIFICATIONS Cont.

SPECIFICATION TITLE:	Sediment Detention Basin	AGENCY:	Contractor
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PART E: Treatment Specification # 10	Sediment Detention Basin constructed within water conveyance system to capture undissolved solids within irrigation water	FISCAL YEAR(S) (list each year):	FY03
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I. WORK TO BE DONE (describe or attache exact specifications of work to be done)

<p>Number and Describe Each Task:</p> <p>A. General Description: Sediment Detention Basin</p> <p>B. Location/Suitable Sites: Constructed near inlet within water conveyance system</p> <p>C. Design/Construction Specifications: Sediment Detention Basin constructed within water conveyance system to capture undissolved solids within irrigation water</p> <p>D. Purpose of Treatment Specifications: To reduce undissolved solids entering irrigated fields and impact to soils</p>

II. LABOR, MATERIALS AND OTHER COSTS:

PERSONNEL SERVICES:	COST/ITEM
TOTAL PERSONNEL SERVICE COST	
EQUIPMENT PURCHASE, LEASE AND/OR RENT	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	
MATERIALS AND SUPPLIES	COST/ITEM
TOTAL MATERIALS AND SUPPLY COST	
TRAVEL COST	COST/ITEM
TOTAL TRAVEL COST	
CONTRACT COST	COST/ITEM
\$45,500/job	\$45,500
TOTAL CONTRACT COST	\$45,500

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNIT	COST	FUNDING SOURCE	METHOD
FY03	job	\$45,500	1	\$45,500	R	C

FUNDING SOURCE

- F - Suppression Operations
- R - Burned Area Rehabilitation
- EWP - Emergency Watershed Protection
- OP/O - Agency Operations/Other

METHODS

- P - Agency Personnel Services
- C - Contract (long-term)
- EFC - Emergency Fire Contract (short-term)
- FC - Incident Management Crew Assignment

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2-3 independent contractual sources.	
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2. Documented cost figures from similar project work obtained from local agency sources.	M/C
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimates based upon government wage rates and material cost.	
5. No cost estimate required -- cost charged to Fire Suppression Account.	

P = Personnel Services E = Equipment M = Materials/Supplies T = Travel C = Contract F = Suppression

PART F - INDIVIDUAL TREATMENT SPECIFICATIONS Cont.

SPECIFICATION TITLE:	Signs	AGENCY:	FWS
PART E: Treatment Specification # 11	Replacement of Resource Protection and Boundary Signs	FISCAL YEAR(S) (list each year):	FY01

I. WORK TO BE DONE (describe or attache exact specifications of work to be done)

<p>Number and Describe Each Task:</p> <p>A. General Description: Replace resource protection signs and boundary signs burned in Hippy Fire</p> <p>B. Location/Suitable Sites: Refuge Boundary and Area Closed signs located on north boundary fence</p> <p>C. Design/Construction Specifications: Replace burned signs with standard FWS signs</p> <p>D. Purpose of Treatment Specifications: To inform refuge visitors of area closures and refuge boundary</p>
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II. LABOR, MATERIALS AND OTHER COSTS:

PERSONNEL SERVICES:	COST/ITEM
TOTAL PERSONNEL SERVICE COST	
EQUIPMENT PURCHASE, LEASE AND/OR RENT	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	
MATERIALS AND SUPPLIES	COST/ITEM
Refuge Boundary signs (FWS-A-2) @ \$6.85 ea x 8	\$55
Area Closed signs (FWS-A-6) @ \$6.85 ea x 5	\$34
TOTAL MATERIALS AND SUPPLY COST	
TOTAL TRAVEL COST	
CONTRACT COST	COST/ITEM
Signs	\$89
TOTAL CONTRACT COST	\$89

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNIT	COST	FUNDING SOURCE	METHOD
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FY 1	sign	\$6.85	13	\$89	R	P

FUNDING SOURCE

F - Suppression Operations
R - Burned Ares Rehabilitation
EWP - Emergency Watershed Protection
OP/O - Agency Operations/Other

METHODS

P - Agency Personnel Services
C - Contract (long-term)
EFC - Emergency Fire Contract (short-term)
FC - Incident Management Crew Assignment

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2-3 independent contractual sources.	
2. Documented cost figures from similar project work obtained from local agency sources.	
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimates based upon government wage rates and material cost.	M
5. No cost estimate required -- cost charged to Fire Suppression Account.	

P = Personnel Services E = Equipment M = Materials/Supplies T = Travel C = Contract F = Suppression

PART F - INDIVIDUAL TREATMENT SPECIFICATIONS Cont.

SPECIFICATION TITLE:	Administrative Assessment	AGENCY:	FWS
PART E: Treatment Specification # 11	Administrative Assessment, Contract Administration, Planning, Efficacy Monitoring	FISCAL YEAR(S) (list each year):	FY1-3

I. WORK TO BE DONE (describe or attache exact specifications of work to be done)

<p>Number and Describe Each Task:</p> <p>A. General Description: Monitor growth and survival/mortality of revegetation and invasive species</p> <p>B. Location/Suitable Sites: 424 acres</p> <p>C. Design/Construction Specifications: Administrative and planning oversight, Conduct monitoring using general revegetation monitoring protocol</p> <p>D. Purpose of Treatment Specifications: Administrative and planning oversight, Assess survival/mortality of seedlings, assess wildlife use of area</p>

II. LABOR, MATERIALS AND OTHER COSTS:

PERSONNEL SERVICES:	COST/ITEM
	\$37,709
TOTAL PERSONNEL SERVICE COST	\$37,709
EQUIPMENT PURCHASE, LEASE AND/OR RENT	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	
MATERIALS AND SUPPLIES	COST/ITEM
TOTAL MATERIALS AND SUPPLY COST	
TRAVEL COST	COST/ITEM

TOTAL TRAVEL COST	
CONTRACT COST	COST/ITEM
TOTAL CONTRACT COST	

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNIT	COST	FUNDING SOURCE	METHOD
FY 1				No Charge	OP	P
FY 2				No Charge	OP	P
FY 3	each	\$37,709	1	\$37,709	R	P

FUNDING SOURCE

F - Suppression Operations
R - Burned Area Rehabilitation
EWP - Emergency Watershed Protection
OP/O - Agency Operations/Other

METHODS

P - Agency Personnel Services
C - Contract (long-term)
EFC - Emergency Fire Contract (short-term)
FC - Incident Management Crew Assignment

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2-3 independent contractual sources.	
2. Documented cost figures from similar project work obtained from local agency sources.	
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimates based upon government wage rates and material cost.	P/E/M
5. No cost estimate required -- cost charged to Fire Suppression Account.	

P = Personnel Services E = Equipment M = Materials/Supplies T = Travel C = Contract F = Suppression

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNITS COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	Cibola			\$336,313	ESR	OP/O/P/C
FY 2	Cibola			\$47,945	R	P/C
FY 3	Cibola			\$414,669	R	P/C
TOTAL				\$798,927		

FUNDING SOURCE

F - Suppression Operations
R – Burned Area Rehabilitation
EWP - Emergency Watershed Protection
OP/O - Agency Operations/Other

METHODS

P - Agency Personnel Services
C - Contract (long-term)
EFC - Emergency Fire Contract (short-term)
FC - Incident Management Crew Assignment

PART G - POST-REHABILITATION

The following are post-rehabilitation, implementation, operation, maintenance, monitoring, and evaluation actions potentially beyond three years to ensure the effectiveness of initial investments. Cost for monitoring and revegetation beyond three years will be incurred by refuge.

Rehabilitation

1. Restore former vegetation to site with appropriate species as specified in the Lower Colorado River National Wildlife Refuges Comprehensive Management Plan. Plant willow, cottonwood, mesquite, grass, and forb seedlings, poles, and/or seeds to restore desired vegetation, and wildlife habitat.
2. Continue invasive species monitoring and control
3. Monitor and maintain water conveyance system
4. Long-term monitoring: Monitor riparian vegetation recovery

APPENDIX I - ENVIRONMENTAL COMPLIANCE

Federal, State, and Private Lands Environmental Compliance Responsibilities

All projects proposed in the Hippy Fire Burned Area Rehabilitation Plan that are prescribed, funded, or implemented by Federal agencies on Federal, State, or private lands are subject to compliance with the National Environmental Policy Act (NEPA) in accordance with the guidelines provided by the Council on Environmental Quality (CEQ) Regulations (40 CFR 1500-1508); Fish and Wildlife Service Fire Management Handbook (Release 7/17/00) and 095 FW3,3.9B,C. This Appendix documents the Team considerations of NEPA compliance requirements for prescribed rehabilitation and monitoring actions described in this plan for all jurisdictions affected by the Hippy burned area emergency.

Related Plans and Cumulative Impact Analysis

The Lower Colorado River National Wildlife Refuges Comprehensive Management Plan, approved 9/19/94, was reviewed and it was determined that actions proposed in the Hippy Fire Plan within the boundary of the Hippy Fire are consistent with the management objectives established in the Comprehensive Management Plan. The Comprehensive Management Plan NEPA compliance process specifically addresses:

- ∃ Part X: Synthesis, Goals and Objectives, Issue 8: Revegetation
“In cooperation with the Bureau of Reclamation (BR), revegetate substantial amounts of habitat with native mixes of vegetation leading to biological diversity.”

Cumulative Impact Analysis

Cumulative effects are the environmental impacts resulting from the incremental impacts of a proposed action when added to other past, present, and reasonably foreseeable future actions, both Federal and non-Federal. Cumulative impacts can result from individually minor, but collectively significant actions taking place over a period of time. The emergency protection and rehabilitation treatments for areas affected by the Hippy Fire, as proposed in the Hippy Fire Plan, do not result in an intensity of impact (i.e. major ground disturbance, etc.) that would cumulatively constitute a significant impact on the quality of the environment. The treatments are consistent with the above jurisdictional management plans and associated environmental compliance documents and categorical exclusions listed below.

Applicable and Relevant Categorical Exclusions

The individual actions proposed in this plan for rehabilitation of the Hippy Fire are Categorically Excluded from further environmental analysis as provided for in the DM 516, DM 6, Appendix 1, 1.4 (3), (4), (5), (6), (9), and (11).

Statement of Compliance for the Hippy Fire Burned Area Rehabilitation Plan.

This section documents consideration given to the requirements of specific environmental laws in the development of the Hippy Fire Plan. Specific consultations initiated or completed during development and implementation of this plan are also documented. The following executive orders and legislative acts have been reviewed as they apply to the Hippy Fire Plan:

- ☒ National Historic Preservation Act (NHPA).
- ☒ Executive Order 11988. Floodplain Management.
- ☒ Executive Order 11990. Protection of Wetlands.
- ☒ Executive Order 12372. Intergovernmental Review.
- ☒ Executive Order 12892. Federal Actions to Address Environmental Justice in Minority and Low-income Populations.
- ☒ Endangered Species Act.
- ☒ Secretarial Order 3127. Federal Contaminated
- ☒ Clean Water Act.
- ☒ Clean Air Act.

CONSULTATIONS

- ☒ BLM and BOR

NEPA Checklist: If any of the following exception applies, the Plan cannot be Categorically Excluded and an Environmental Assessment (EA) is required.

(Yes) (No)

- (X) Adversely affect Public Health and Safety
- (X) Adversely affect historic or cultural resources, wilderness, wild and scenic rivers aquifers, prime farmlands, wetlands, floodplains, ecologically critical areas, or Natural Landmarks.
- (X) Have highly controversial environmental effects.
- (X) Have highly uncertain environmental effects or involve unique or unknown environmental risks.
- (X) Establish a precedent resulting in significant environmental effects.
- (X) Relates to other actions with individually insignificant but cumulatively significant environmental effects.
- (X) Adversely effects properties listed or eligible for listing in the National Register of Historic Places
- (X) Adversely affect a species listed or proposed to be listed as Threatened or Endangered.
- (X) Threaten to violate any laws or requirements imposed for the "protection of the environment" such as Executive Order 1 1 988 (Floodplain Management) or Executive Order 1 1 990 (Protection of Wetlands).

National Historic Preservation Act:

Ground disturbance will occur on previously disturbed sites and therefore an archaeological survey is not required under 106 of NHPA.

A NHPA Clearance Form:

- Is required because the project may have affected a site that is eligible or on the national register. The clearance form is attached. SHPO has been consulted under Section 106 (see Cultural Resource Assessment, Appendix I).
- Is not required because the Plan has no potential to affect cultural resources (initial of cultural resource specialist).

Other Requirements:

(Yes) (No)

- (X) Does the Plan have potential to affect any Native American uses? If so, consultation with affiliated tribes is needed.
- (X) Are any toxic chemicals, including pesticides or treated wood, proposed for use? If so, local agency integrated pest management specialists must be consulted.

I have reviewed the proposals in the Hippy Fire Burned Area Rehabilitation Plan in accordance with the criteria above and have determined that the proposed actions would not involve any significant environmental effect. Therefore it is categorically excluded from further environmental (NEPA) review and documentation. Team technical specialists have completed necessary coordination and consultation to insure compliance with the National Historic Preservation Act, Endangered Species Act, Clean Water Act and other Federal, State and local environment review requirements.

Refuge Manager, Cibola National Wildlife Refuge

Date

