

# **Environmental Assessment: Gypsum Wash RX**



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# **Chapter 1. Introduction**



## **1.1. Identifying Information:**

The Gypsum Wash is located in Clark County, 7.3 miles southeast of Nellis Air Force Base, and .64 miles southwest of the Pabco gypsum plant entrance. The area has been designated as the Rainbow Gardens Area of Critical Environmental Concern (ACEC) by the Southern Nevada District Bureau of Land Management (BLM). This area is known for unauthorized off road vehicle use, target shooting, and illegal dumping.

The Gypsum Wash is also an area proliferated by the invasive plant tamarisk. Tamarisk (*T. ramosissima*, *T. pentandra*), is a native plant species of Eurasia and was intentionally introduced to the U.S. in the early 1800's. Their escape from cultivation has reduced native vegetation on the land because of competition for water. Controlling the existing tamarisk population helps to prevent further colonization of this aggressive invader and allows the revegetation of native plant species. The treatment used to remove tamarisk involves stump cutting individual plants and applying herbicide to the stump. The cut tamarisk is left to dry on the ground which causes an increase in the fuel load of riparian areas resulting in increase of wildland fire danger.

Past treatment in the Gypsum Wash included the stump cutting of tamarisk to restore this riparian area in . The past treatment was approved under the EA NV-052-98-040, dated April 20th of 1998. This EA included a one year monitoring of the natural revegetation. Yet, to present date the continued presence of tamarisk piles have prevented natural vegetation from returning.

### **1.1.1. Title, EA number, and type of project:**

Gypsum Wash RX

DOI-BLM-S010-2010-0034-EA

Prescribed Burn (hand piles)

### **1.1.2. Location of Proposed Action:**

Gypsum Wash

Mt. Diablo PM

T. 20S., R.63E. Sec. 13

### **1.1.3. Name and Location of Preparing Office:**

U.S. Department of the Interior

Bureau of Land Management

Las Vegas Field Office

4701 N. Torrey Pines Drive

Las Vegas, NV 89130

### **1.1.4. Identify the subject function code, lease, serial, or case file number:**

Case file number JE32

### **1.2. Purpose and Need for Action:**

The primary objective of this action is to reduce the existing wildland fire hazard. Previous treatments of tamarisk in the area have left approximately 30 acres of piled stump cut tamarisk on BLM lands as well as a portion of private land owned by Pabco Gypsum. Prior to the treatment, this invasive plant had a dominant presence in the wash and now the piles prevent native vegetation from establishing. Management direction for restoration of plant productivity on disturbed areas of public lands is to “rehabilitate, reclaim, or revegetate areas subjected to surface disturbing activities, where feasible.” The large amount of fuel provided by the piles puts native vegetation at risk in the event of a wildland fire. By removing the piles the BLM will reduce the fire risk to native vegetation. This is also in conformance with the Las Vegas Resource Management Plan (RMP).

The Proposed Action to remove the piles will be a prescribed burn operation conducted by the BLM and National Park Service (NPS). This operation will remove piles of tamarisk from previous treatments, reducing potential negative effects from future wildland fire to both BLM and adjacent private lands. The completion of this action will also allow the revegetation of native species in this previously invaded area.

### **1.3. Scoping, Public Involvement and Issues:**

Internal scoping was performed to identify potential issues present with the Proposed Action. The issues identified present were regarding hydrology and wildlife. The hydrological issue raised is to avoid the Proposed Action during a time when there is a presence of water in the Gypsum Wash. The wildlife issue identified the tamarisk piles as an area that animals use for cover and how the animals will leave these covers prior to the Proposed Action.

External involvement occurred with Lenny Ordway, the site manager for Pabco Gypsum. This consultation took place on December 2nd, 2009 regarding permission for the BLM and NPS to perform the Proposed Action on the section of the proposed site that is owned by Pabco Gypsum. Permission was granted, in letter form, on December 16th, 2009.

# **Chapter 2. Proposed Action and Alternatives**



## 2.1. Description of the Proposed Action:

### A. Background

The Proposed Action is a prescribed fire operation to remove approximately 30 acres of stump-cut tamarisk in the Gypsum Wash. This action will reduce the negative effects of a future wildland fire while allowing revegetation of native species to occur.

### B. Methods

1. Cut tamarisk piles will be removed by the burning methods outlined in the Gypsum Wash Burn Plan. The length of time the cut piles have been left to dry out will facilitate the burning process.
2. Access to the Gypsum Wash site will be using only existing roads and trails. (see the attached map 1- 4). From these trails, personnel will transport necessary tools by hand to the burn area.
3. Four piles that were located in proximity of an acacia or mesquite tree were relocated by hand June 23rd, 2009 to outside a 30 foot buffer
4. Native species adjacent to some of the piles will be protected by firefighting personnel (see below) from the BLM and NPS, minimizing the impact to these native plants.
5. Local police and fire agencies and both operating gypsum mines located in the area will receive pre-and post-fire notifications of the dates when pile burns will begin and end.

### C. Personnel

Fire crews from the Bureau of Land Management and National Park Service will be utilized to conduct the prescribed fire operation. All crews will be under the supervision of a qualified burn boss from the BLM and will conduct operations in accordance with the attached Gypsum Wash Burn Plan.

### D. Schedule

The prescribed fire will span approximately two days and will take place in the Feb-March timeframe in 2010 when weather is favorable for burning. Information about weather constraints can be found in the attached Gypsum Wash Burn Plan.

### E. Monitoring

Monitoring of the burn site for regrowth will be ongoing to evaluate and document the progress and success of the Proposed Action and the potential need for further tamarisk removal in the project area.

### F. Retreatment

Should the prescribed fire objective of 95+% pile consumption not be met, the site may be revisited to complete the burn while providing for timeframe concerns addressed in the Migratory Birds section of this document. .

### G. Health and Safety

- **Personnel Protection** – Standard protective equipment will be used during the prescribed fire operation. The equipment needed is outlined in the Interagency Standards for Fire and Aviation Operations chapter 7 page 8. In addition, all personnel participating in the firing operations will be red carded in accordance with assigned tasks.

- **Public Safety** – Notification will be made to mines in the area as well as Las Vegas Metropolitan Police Department (LVMPD), Clark County Air Quality, and Nellis Air Force Base (AFB). Signs will also be posted on the road to ensure the safety of drivers and fire crews assisting on the project.

### **Standard Operating Procedures**

1. Prior to ignition each pile will be prodded and shaken in a best effort to scare animals out of the piles where they may be dwelling. Personnel will take note of species seen. If a special status species is seen then proper protocol will be followed which may result in the delay of the project. This protocol is described in the mitigation measures section of this document on page.
2. All prescribed fire actions will be per the approved Gypsum Wash Burn Plan.
3. All personnel and equipment will be cleaned and examined for plant material, both prior to entering and exiting the site. This will reduce the threat of transporting noxious weeds into the site and other areas in the region.
4. Fuel used in the drip torches will be mixed prior to arriving on the project site. All fuel will be stored in self closing 5 gallon cans. and all OSHA regulations will be followed.
5. All OSHA regulations will be followed.

## **2.2. Description of Alternatives Analyzed in Detail:**

### **No Action**

The Proposed Action will not be undertaken. If no action is taken, the cut tamarisk will remain in the gypsum wash and will continue to act as a barrier to native species reestablishing in the area. If no action were taken to remove the tamarisk, any potential wildland fires will remove the native species surrounding the site thus providing for the reestablishment of Tamarisk and other weeds in the area.

## **2.3. Alternatives Considered but not Analyzed in Detail**

### **Mechanized Removal**

Mechanical removal using a wood chipper on the tamarisk piles was considered. However, access to the site will require that multiple piles be hand transported to an area accessible by the chipper. Transporting 30 acres of piles will result in increased costs in man power and chipper rental. In addition, without the removal of the chipped piles, there will be a continued threat of potential wildland fire. Due to the higher cost in manpower and equipment rental, this alternative fails to meet the desired fuel reduction objectives and was dropped from further analysis.

## **2.4. Conformance**

The Proposed Action is in conformance with the Las Vegas Resource Management Plan, 1998; Activity: Riparian Management Decision. RP-1-f and Fire Management Decision FE-2-a. It is also in conformance with the Las Vegas Fire Management Plan, 2004 Prescribed Fire, Chapter 4, pages 354-355.

## **Chapter 3. Affected Environment:**



The table below summarizes the environmental attributes that have been reviewed, whether they may be affected by the Proposed Action, and rationale for that determination. Elements that are not affected will not be discussed further, while affected elements will be carried through for further analysis.

**Table 3.1. Affected Environment**

Supplemental Authority	Not Present	Present/ Not Affected	Present/ Affected	Rationale
Air Quality		X		Prescribed burns are a federal maintenance activity. No issues.
Areas of Environmental Concern (ACEC)		X		No new surface disturbance will be associated with this action and with approved burn plan there will be no impact to the ACEC. Use of existing roads and trails will eliminate sources of new routes used by illegal off road activity.
BLM Natural Area	X			Project is located outside of Sunrise Instant Study Area (ISA). No issues.
Cultural Resources	X			The area of potential effect (APE) is outside the Gypsum Cave Traditional Cultural Property (TCP). No new surface disturbance is proposed and existing access roads will be used to reach the site. The undertaking as proposed will have no affect to historic properties; no further evaluation is required.
Greenhouse Gas Emissions		X		Emissions are minimal and temporary and not likely to affect
Environmental Justice	X			Not present
Farmlands (Prime or Unique)	X			The Gypsum Wash occurs within the Rainbow Gardens ACEC which is to be retained in federal ownership. No farmlands are present in this area. The privately owned land is owned by Pabco Building Products and they engaged in the removal of gypsum for drywall.
Fish and Wildlife Excluding USFWS Designated Species		X		Wildlife species in the general area include small mammals, rodents, birds and reptiles. Additionally, the BLM sensitive species western burrowing owl, chuckwalla and banded gila monster may be present in the general area. These species will be displaced as tamarisk piles are disturbed within the project area. The primary direct impact of the Proposed Action on wildlife will be killing of animals during burning of tamarisk piles and the loss of these piles as habitat. Standard operating procedure to shake and prod piles prior to burning to scare out any animals will help reduce these impacts. Additional impacts associated with mortality from vehicular traffic may also occur during proposed activities. Upon completion of the Proposed Action,

Supplemental Authority	Not Present	Present/ Not Affected	Present/ Affected	Rationale
				habitat within the project area will be improved as a result of native vegetation reestablishment and the risk of future wildland fires in the area reduced.
Floodplains		X		Activity will have a minimal impact on potential increase in flooding hazard.
Fuels/Fire Management			X	Carried forward for analysis.
Geology/Mineral Resources/Energy Production		X		PABCO Gypsum operates in this area on private land. They have been contacted and understand that burning will occur adjacent to their private property and have agreed to burning on their property. No mining claims present.
Hydrologic Conditions		X		Impacts to local hydrologic conditions should be minimal.
Invasive Species/Noxious Weeds		X		These treatments will aid in the restoration of this project. Mitigation measures described are adequate.
Lands/Access		X		No issues, however, per 43 CFR 2807.14, all ROW holders in the area must be notified by letter of this action at least 30 days prior to the activity. Please send a notice to NV Power (N-54678), City of Los Angeles (N-4790), Intermountain Power Proj (N-10683). Their addresses can be located in the LR2000 on the serial register page.
Livestock Grazing	X			Gypsum Wash occurs within the Rainbow Gardens ACEC which is closed to livestock grazing per the Las Vegas RMP.
Migratory Birds			X	Carried forward for analysis.
Native American Religious Concerns		X		The undertaking as proposed will not impact the Gypsum Cave Traditional Cultural Property (TCP). Ethnographic studies conducted for the Harry Allen to Mead powerline identified Gypsum Cave and Gypsum Spring as areas of concern. Neither site will be affected.
Paleontology	X			No fossil bearing strata will be impacted by the undertaking as it is proposed.
Rangeland Health Standards		X		This activity will have no impact on rangeland health standards.

Supplemental Authority	Not Present	Present/ Not Affected	Present/ Affected	Rationale
Recreation		X		Provide caution or warning signage for casual recreation use occurring in the area. Monitor fire perimeter to ensure casual recreationists do not wander into burn area.
Socio-Economics		X		This activity will have no impact on mining activities at Pabco and adjacent mines. PABCO Gypsum operates in this area on private land. They have been contacted and understand that burning will occur adjacent to their private property and have agreed to burning on their property.
Soils		X		Fire severity with this activity should be low to moderate. May result in an increase to sedimentation to Gypsum Spring. However, due to the size and extent of the project, these impacts should be minimal.
Threatened, Endangered or Candidate Plant Species	X			Not Present.
Threatened, Endangered, or Candidate Animal Species		X		The above Proposed Action has a no affect determination on the threatened desert tortoise ( <i>Gopherus agassizii</i> ). This project will have no affect on any other federally listed species or designated critical habitat. Historical survey data indicates that the area surrounding the project site is very low density tortoise habitat. The proposed project will not result in any new disturbance and the tamarisk piles to be burned within Gypsum Wash are not suitable habitat for desert tortoise. No impacts to desert tortoises are expected and no remuneration fees are required. Compliance with the special stipulations below will help to ensure that no affect to desert tortoise occurs. 1) Should a Desert Tortoise enter the project area, all activities will immediately stop until such time as the animal has left the area of its own accord. 2) A speed limit of 25 miles per hour shall be required for all vehicles travelling on the existing access road. 3) Workers will be instructed to check underneath all vehicles before moving them as tortoises often take cover underneath parked vehicles. This

Supplemental Authority	Not Present	Present/ Not Affected	Present/ Affected	Rationale
				notice will serve as the Section 7 Determination and no additional paperwork will be provided (Sec 7 Log # NV-052-10-029).
Wastes (hazardous or solid)	X			No known wastes, hazardous or solid, are know to be present in the area of the action. In the event that wastes are found notification will be made through proper channels.
Water Resources/Quality (drinking/surface/ground)		X		Fire severity with this activity should be low to moderate. May result in an increase to sedimentation to Gypsum Spring. However, due to the size and extent of the project, impacts to water quality should be minimal.
Wetlands/Riparian Zones			X	Carried forward for analysis.
Wild and Scenic Rivers	X			Not present.
Wilderness/WSA		X		The Proposed Action is located adjacent to Sunrise Mountain Instant Study Area (ISA), which is managed under the Interim Management Policy and Guidelines for Lands Under Wilderness Review. Such lands must be managed according to these guidelines in such a manner so as not to impair the suitability of such areas for preservation as wilderness until Congress has determined otherwise. No issues with the action as proposed.
Woodlands/Forestry	X			Not present.
Vegetation Excluding USFWS Designated Species		X		No impacts. Las Vegas bearpoppy, Arctomecon californica, a BLM sensitive plant, present in the vicinity. Burn will be conducted in unvegetated portions of the wash. Best Management Practices (BMP) expected to protect adjacent BLM sensitive species and vegetation adjacent to the wash.
Visual Resources		X		The Proposed Action is in Visual Resource Management Class III, which allows for moderate change to the existing landscape. Management activities may attract attention but should not dominate the view of the casual observer. The Proposed Action is not anticipated to have any long term visual impacts and meets the requirements for Visual Resource Management Class III. No issues.

<b>Supplemental Authority</b>	<b>Not Present</b>	<b>Present/ Not Affected</b>	<b>Present/ Affected</b>	<b>Rationale</b>
Wild Horse and Burros	X			The Proposed Action is not located within any herd management areas.
Areas with Wilderness Characteristics	X			The Proposed Action is not located within any areas known to meet criteria for wilderness character and is not under consideration for future wilderness designation.

### 3.1. Fuels & Fire Mangement

The Proposed Action will reduce the threat of wildland fire to native vegetation in the wash. This will benefit the native vegetation by opening new ground in the wash for establishment.

### 3.2. Migratory Birds

Under the Migratory Bird Treaty Act of 1918 (MBTA) and subsequent amendments (16 U.S.C. 703-711), it is unlawful to take, kill, or possess migratory birds. A list of the protected bird species can be found in 50 C.F.R. §10.13. The list of birds protected under this regulation is extensive and the project site has potential to support many of these species, including the BLM sensitive species the western burrowing owl (*Athene cunicularia*). Typically, the breeding season is when these species are most sensitive to disturbance, which generally occurs from March 15 through July 30.

### 3.3. Wetlands & Riparian Zones

The proposed project will take place in the Gypsum Wash, a highly eroded waterway channel located north of Lake Mead at 1,723 feet elevation. This wash carries the runoff from the highlands east of Las Vegas to the lake. The wash conditions are 85% dry, but there is no running water inside the footprint of the burn. The Rainbow Gardens ACEC has geologic features and gypsiferous soils which support a unique plant community.

Within the project area Tamarisk is the dominant vegetation with some arrow weed (*Pluchea sericea*), matchweed (*Phyla nodiflora*) and cat claw (*Acacia greggii*) present. Live fuels in the project area are minimal as it consists of piles of cut tamarisk with little understory growth. Just outside of the project area dense stands of young tamarisk can be found in the wash with no occurrence on higher ground around the wash. The site is within the boundary for the Rainbow Gardens ACEC as shown in map 1.

### 3.4. Wildlife, T&E

Fauna in the area of Gypsum Wash are typical of the Mojave Desert and include a variety of mammals, birds, and reptiles. Due to the lack of year round water amphibians are probably not common in this area of the Gypsum Wash.

The area is also home to the federally listed desert tortoise (*Gopherus agassizii*). This species is listed as threatened throughout the Mojave Desert and occur in valleys and bajadas below 5,000 feet. The tortoise is usually associated with creosote vegetation type with is dominant on the uplands surrounding the project area. Within the project area densities are suspected to be low because of loose sandy soils, susceptibility to flooding, unsuitable vegetation, and near vertical wash walls.

The federally listed southwestern willow flycatcher (*Empidonax trailli*, SWFL) nests in riparian habitats of southern Nevada along rivers and lakes and has been found nesting in tamarisk habitats near water. The Gypsum Wash is not located within a critical habitat area. In conducting this burn, the timing will not interfere with the migratory patterns of the SWFL. According to the USFWS it is a summer breeder and will move to wintering areas in Central America by the

end of September. The burn will take place in the early months of the new year prior to their return to breeding grounds. The site also has no standing water and lacks the dense vegetation preferred by the flycatcher.

The site may also contain the gila monster (*Heloderma suspectum*) and chuckwalla (*Sauronmalus obesus*). Both species are identified as BLM special status species and the gila monster is also listed by the State of Nevada as a rare and protected reptile. The Rainbow Gardens ACEC does not include unique fish or wildlife resources and it is not an ACEC for tortoise habitat.

### **3.5. Private Land**

Approximately half of the project site is on private land owned by Pabco Building Products, LLC who has given permission to carry out this action.

# **Chapter 4. Environmental Effects:**



## **4.1. Fuels and Fire Management**

### **4.1.1. Proposed Action:**

The Proposed Action will result in reducing the unplanned fire potential in the Gypsum Wash. The action will remove dead piled tamarisk which will open the land for native vegetation to reestablish. The effects of this action will also benefit the wash and native vegetation by reducing the threat of wildfire.

### **4.1.2. No Action:**

If no action is undertaken the risk of wildland fire to surrounding native vegetation will remain due to the amount of available fuel left in place in the form of stump cut tamarisk piles.

## **4.2. Migratory Birds**

### **4.2.1. Proposed Action:**

Although the Proposed Action will not result in any new surface disturbance, migratory birds including the BLM sensitive species the western burrowing owl (*Athene cunicularia*) may be present within the tamarisk piles.

- 1) To prevent undue harm, habitat-altering projects or portions of projects will be scheduled outside of bird breeding season. In upland desert habitats and ephemeral washes containing upland species, the bird breeding season generally occurs between March 15th- July 30th.
- 2) If a project that may alter any breeding habitat has to occur during the breeding season, then a qualified biologist must survey the area for nests prior to commencement of construction activities. This shall include burrowing and ground nesting species in addition to those nesting in vegetation. If any active nests containing eggs or young birds are found, an appropriately sized buffer area must be avoided until the young birds fledge.

### **4.2.2. No Action:**

If no action is undertaken the above mentioned mitigating measures will not need to be followed as tamarisk piles will be left on the ground. The tamarisk pile habitat will remain with species nesting in the piles to be at risk in any potential unplanned wildland fires.

## **4.3. Wetlands and Riparian Zones**

### **4.3.1. Proposed Action:**

Project is located within the Gypsum spring area. This project will benefit the local riparian habitat, as native vegetation reestablishes.

### **4.3.2. No Action:**

If no action is undertaken the reestablishment of local riparian habitat may not occur.

## **4.4. Wildlife, T and E**

### **4.4.1. Proposed Action:**

#### **Wildlife, T&E**

##### **General Wildlife:**

Impacts to wildlife species may occur as wildlife may be displaced or may result in loss of life with the proposed burning of the tamarisk piles within the project area. Standard operating procedure to shake and prod piles prior to burning to scare out any animals will help reduce these impacts. Additional impacts associated with mortality from vehicular traffic may also occur during proposed activities. Upon completion of the Proposed Action, habitat within the project area will improve from the establishment of native vegetation and the reduced risk of future wildland fires in the area.

##### **Desert Tortoise:**

1. Should a Desert Tortoise enter the project area, all activities will immediately stop until such time as the animal has left the area of its own accord.
2. A speed limit of 25 miles per hour shall be required for all vehicles travelling on the existing access road.
3. Workers will be instructed to check underneath all vehicles before moving them as tortoises often take cover underneath parked vehicles.

The above Proposed Action has a no affect determination on the threatened desert tortoise (*Gopherus agassizii*). This project will have no affect on any other federally listed species or designated critical habitat. Historical survey data indicates that the area surrounding the project site is very low density tortoise habitat. (The proposed project will not result in any new disturbance and the tamarisk piles to be burned within Gypsum Wash are not suitable habitat for desert tortoise). No impacts to desert tortoises are expected and no remuneration fees are required. Compliance with the special stipulations below will help to ensure that no affect to desert tortoise occurs.

##### **Southwestern willow flycatcher:**

The Proposed Action will have no affect on the endangered southwestern willow flycatcher (*Empidonax traillii extimus*) as the action will take place between February and March 2010, falling outside their nesting season which occurs between May 1st-August 31st.

##### **Gila monster & chuckwalla:**

The Proposed Action occurs in suitable habitat for banded gila monster and chuckwalla. The primary direct impact of the Proposed Action on individuals may be habitat displacement or loss of life to animals during the burning of tamarisk piles. Standard operating procedure to shake and prod piles prior to burning to scare out any animals will help reduce these impacts. Additional impacts associated with mortality from vehicular traffic may also occur during proposed activities.

Potential impacts to banded gila monster and chuckwalla will be temporary as the duration for the above action is approximately two days. Upon completion of the Proposed Action, habitat within the project area will improve from reestablishment of the native vegetation and the reduced risk of future wildland fires in the area.

#### **4.4.2. No Action:**

If no action is undertaken the above mentioned mitigating measures will not need to be followed as tamarisk piles will be left on the ground. The tamarisk pile habitat will remain with species nesting in the piles to be at risk in any potential unplanned wildfires.

### **4.5. Cumulative Effects**

The geographic area of effect is the portion of Gypsum Wash identified on the maps (1–3) in the appendix. The direct effect is within the pile burn perimeter and within the contingency lines.

Improving the condition of vegetation on public lands to a desired plant community or to a potential natural community is identified in the Las Vegas RMP as an objective of vegetation management. This action seeks to improve the natural plant community in the Gypsum Wash by removing tamarisk piles. Long term cumulative impacts are not expected, however, revegetation projects, both natural and by the BLM, will take place upon completion of this Proposed Action.

### **4.6. Mitigation Measures**

1. The Proposed Action will take place outside of March 15th to July 30th.
2. Should a Desert Tortoise enter the project area, all activities will immediately stop until such time as the animal has left the area of its own accord.
3. A speed limit of 25 miles per hour shall be required for all vehicles travelling on the existing access road.
4. Workers will be instructed to check underneath all vehicles before moving them as tortoises often take cover underneath parked vehicles.
5. Signage will be placed on nearby roads to inform motorists of the prescribed burn in the area.
6. Notifications will be made to appropriate municipal agencies, private landowners, and federal agencies to inform of the action.



## **Chapter 5. Tribes, Individuals, Organizations, or Agencies Consulted:**



**Table 5.1. List of Persons, Agencies and Organizations Consulted**

<b>Name</b>	<b>Purpose &amp; Authorities for Consultation or Coordination</b>	<b>Findings &amp; Conclusions</b>
Lenny Ordway, Site Manager for Pabco Gypsum	Pabco Gypsum was consulted in reference to permission for the BLM and NPS to conduct the Proposed Action on a portion of company land.	Permission to conduct the proposed action was received on Dec. 16th, 2009, in letter form.
Glen Gibson FWS Fire Management Officer	Glen performed a technical review on the Gypsum Wash Burn Plan as a qualified Type 1 Prescribed Fire Burn Boss	Gypsum Wash Burn Plan was approved on Feb. 1st, 2010
Citizens for Active Management of Frenchman/Sunrise	Contacted group to inform that the project summary was available on the NEPA registry.	



## **Chapter 6. List of Preparers**



**Table 6.1. List of Prepares**

<b>Name</b>	<b>Title</b>	<b>Responsible for the Following Section(s) of this Document</b>
Lisa Christianson	Air Resources Specialist	Air Quality, Greenhouse Gas Emissions
Gayle Marrs-Smith	AFM Renewable Resources	ACEC, BLM Natural Area
Susanne Rowe	Archeologist	Cultural Resources, Paleontology, Native American Religious Concerns
Susan Farkas	Planning and Environmental Coordinator	Environmental Justice, Socio-Economics
Mark Slaughter	Wildlife Biologist	T&E Species, Fish and Wildlife, Migratory Birds
Sarah Peterson	Hydrologist	Floodplains, Hydrologic Conditions, Soils, Wetlands and Riparian Zones
Evan Allen	Geologist	Geology, Mineral Resources, Energy Production
Nora Caplette	Weeds Specialist	Invasive and Noxious Weeds
Krystal Johnson	Wild Horse and Burro Specialist	Wild Horse and Burros, Rangeland Health Standards
Robert Dieli	Outdoor Recreation Planner	Recreation, Wild and Scenic Rivers
Fred Edwards	Botanist	T&E Plants, Woodland and Forestry, Vegetation
Sendi Kalcic	Wilderness Planner	Wilderness and WSA, Areas with Wilderness Characteristics
Lauren Brown	Restoration Ecologist	Visual Resources
Lucas J. Rhea	Fuels	Fuels/Fire Management, Farmlands, and Livestock Grazing



# **Chapter 7. Appendices**



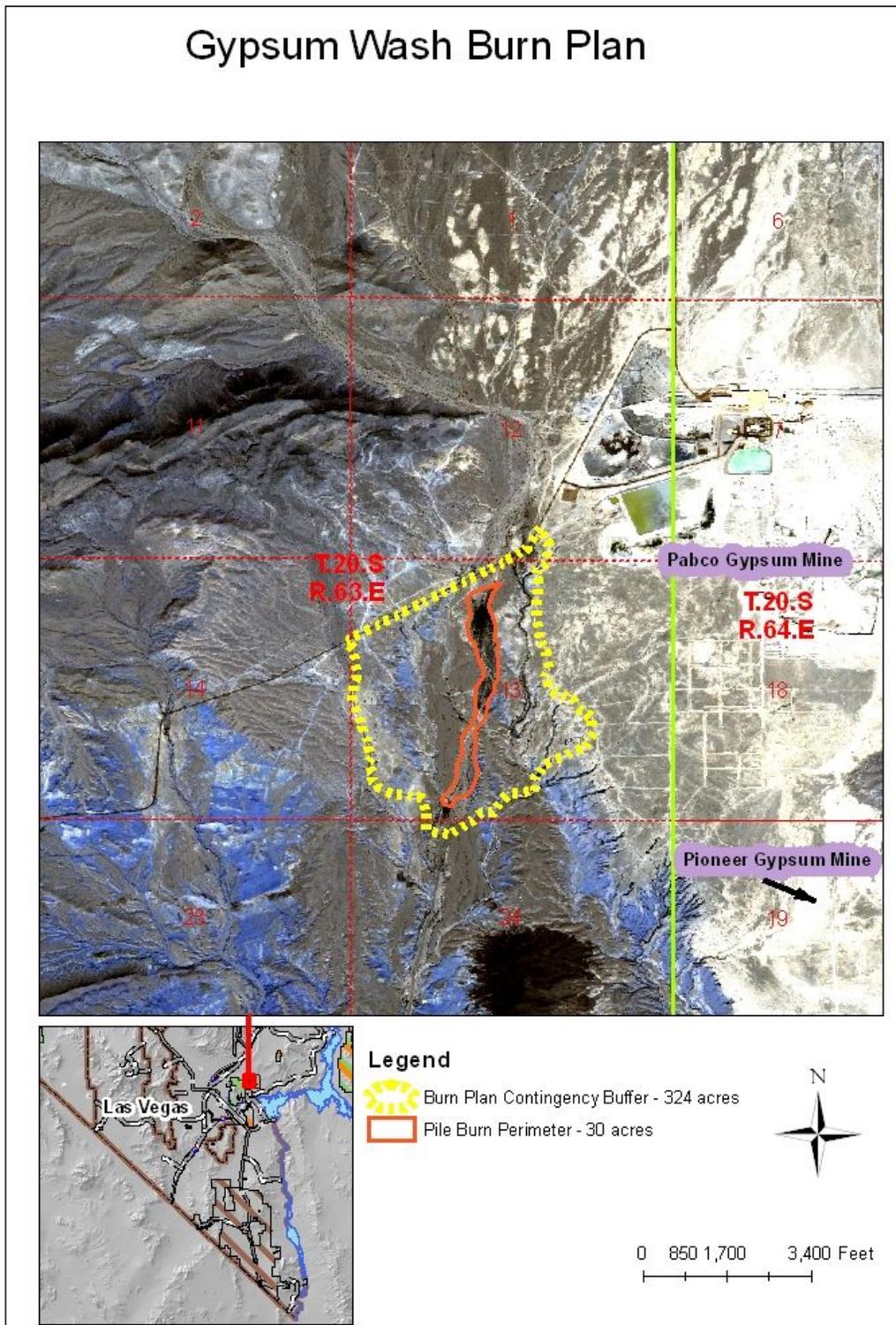
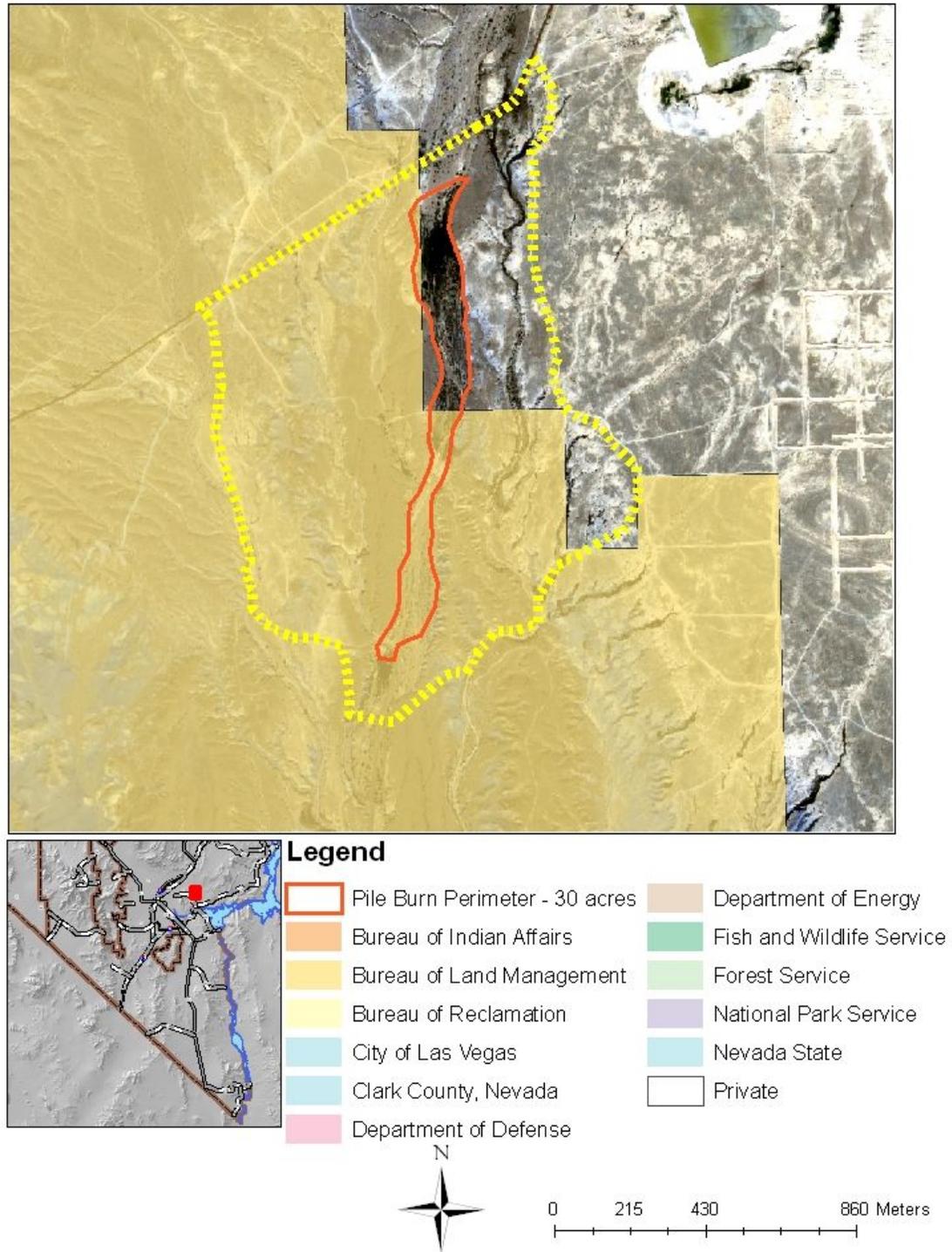


Figure 7.1. Map 1. Gypsum Wash Burn and Surrounding Area

## Gypsum Wash Land Status



**Figure 7.2. Map 2. Gypsum Wash Burn and Associated Land Status**

### Rainbow Gardens ACEC

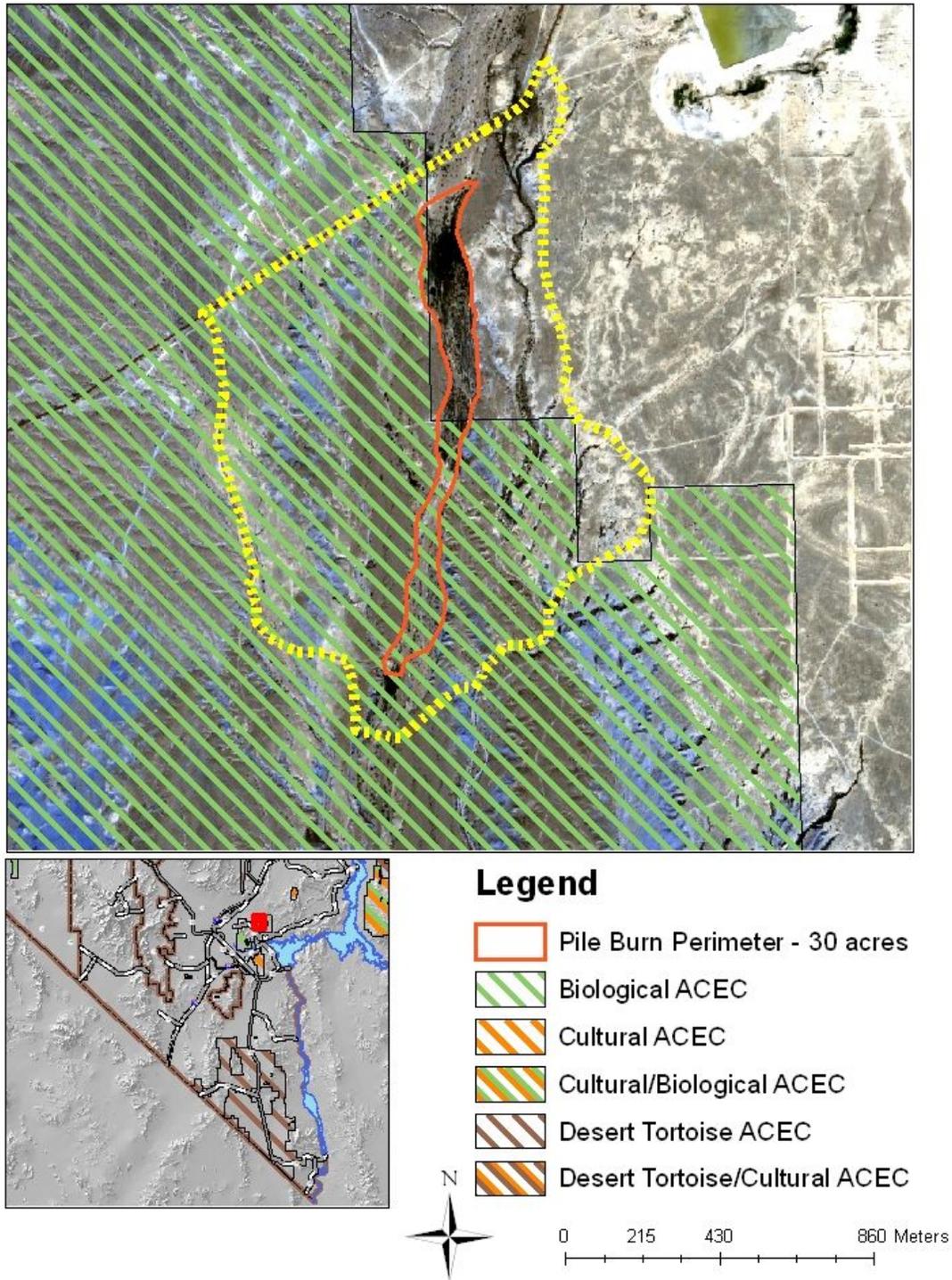


Figure 7.3. Map 3. Gypsum Wash Burn and Rainbow Gardens ACEC Boundary