



Figure 41
Proposed Trail Head & Parking

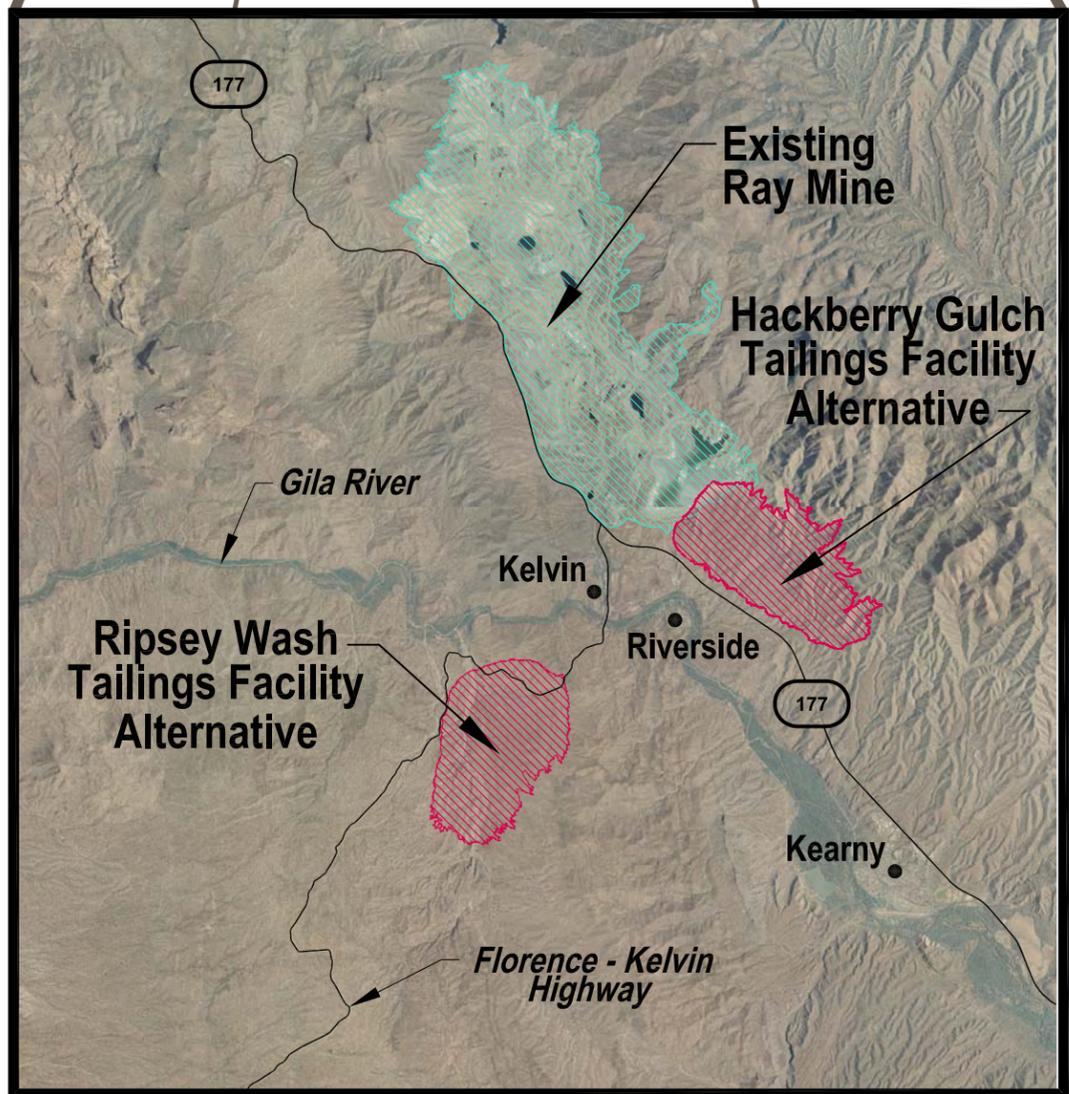
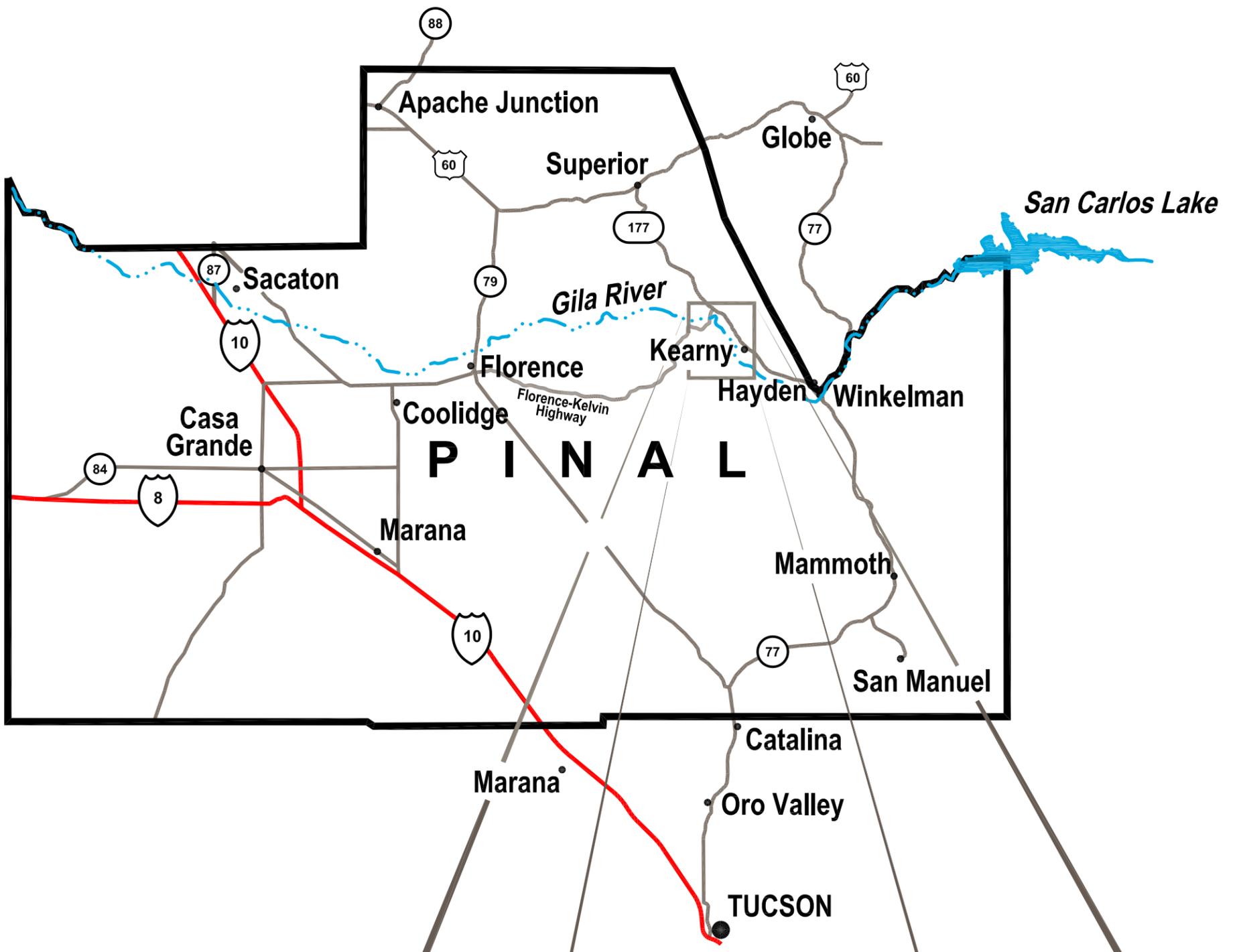
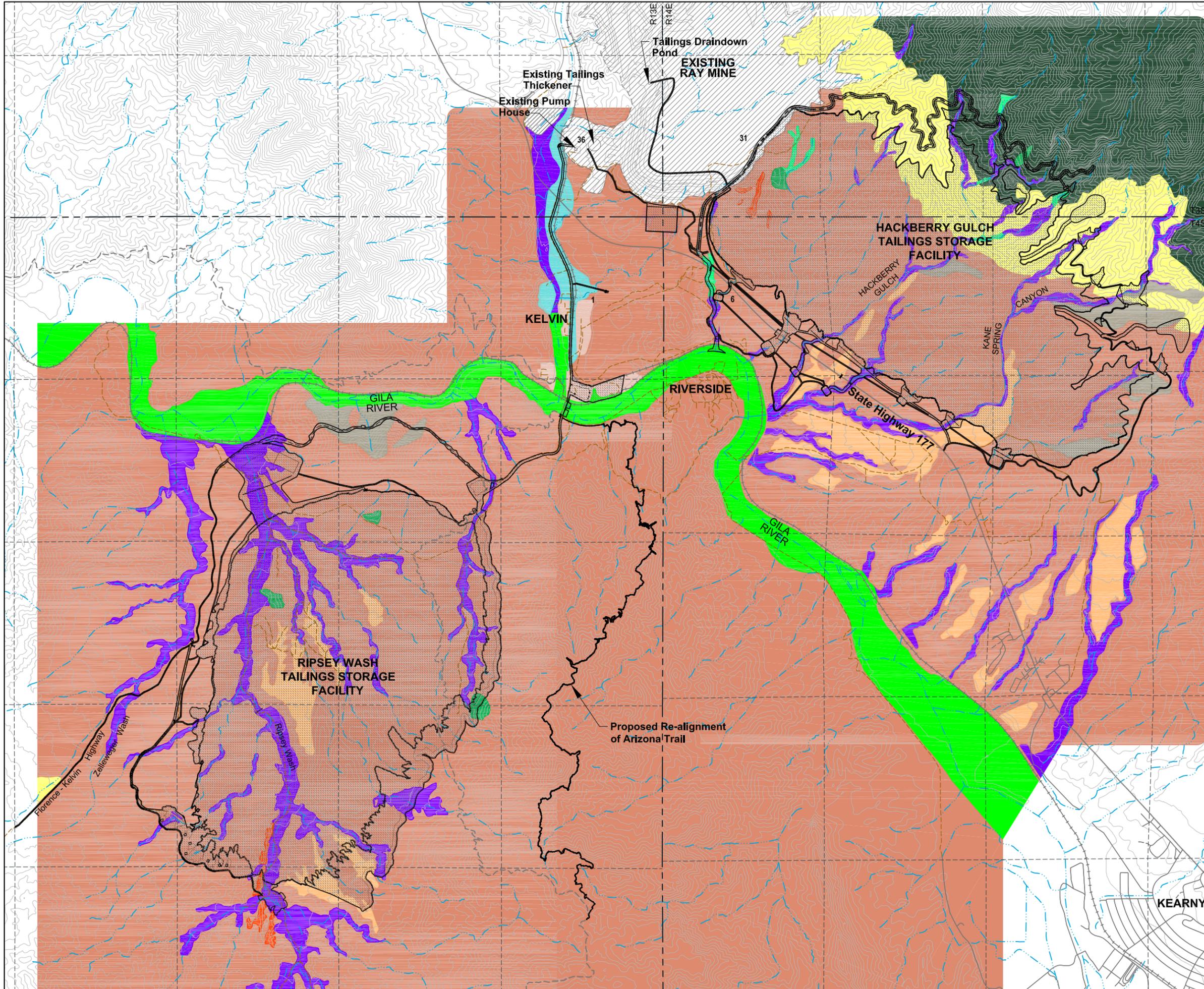


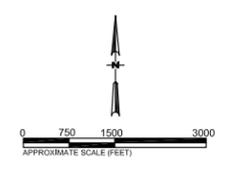
Figure 42
Highways & Roads



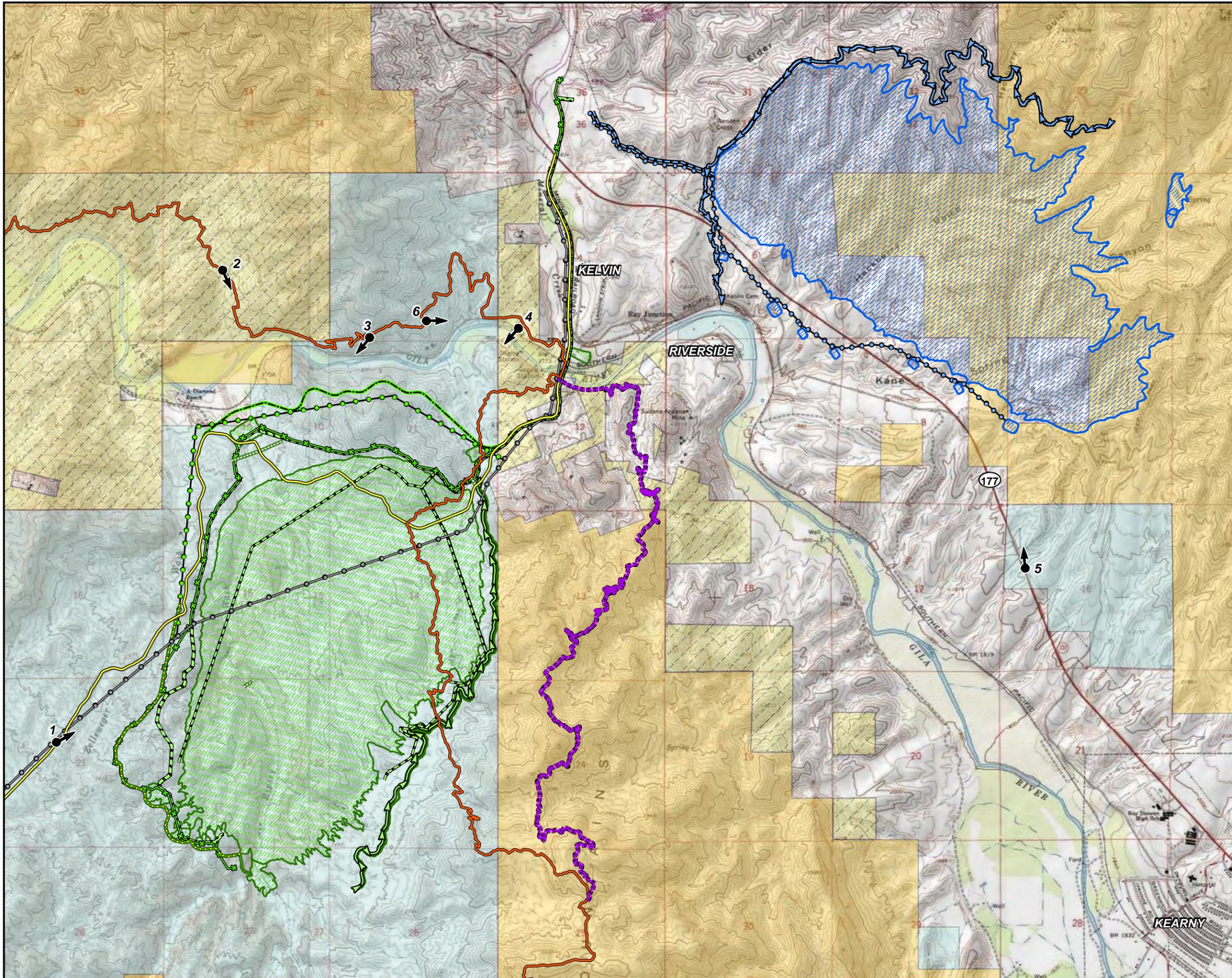
- LEGEND:**
- EXISTING GROUND SURFACE CONTOUR EL, FEET
 - EXISTING DRAINAGES
 - EXISTING RAILROAD
 - EXISTING ROAD
 - EXISTING TRAIL/UNIMPROVED ROAD
 - PROPOSED DIVERSION CHANNEL
 - PROPOSED DISTURBANCE BOUNDARY

- DISTURBED AREA
RIPSEY WASH TSF VEGETATION**
- Saguaro Paloverde-Jojoba Mixed Cacti Shrubland - 1,970 Acres
 - Xeroriparian - 407 Acres
 - Saguaro Paloverde-Jojoba Triangle Leaf Bursage Shrubland - 134 Acres
 - Ocotillo Paloverde-Mixed Shrubland - 5 Acres
 - Mesquite-Blue Paloverde Shrubland - 11 Acres
 - Gila River Riparian Zone - 4 Acres
 - Saguaro Density - 15 Acres
 - Tuffaceous Sandstone Outcrop - 9 Acres
 - Disturbed - 18 Acres
 - Mine Disturbance - 1 Acre

- DISTURBED AREA
HACKBERRY GULCH TSF VEGETATION**
- Saguaro Paloverde-Jojoba Mixed Cacti Shrubland - 1,675 Acres
 - Xeroriparian - 157 Acres
 - Saguaro Paloverde-Jojoba Triangle Leaf Bursage Shrubland - 63 Acres
 - Saguaro Density - 6 Acres
 - Ocotillo Paloverde-Mixed Shrubland - 47 Acres
 - Saguaro Ocotillo Paloverde-Jojoba Shrubland - 240 Acres
 - Sonoran Riparian Deciduous Woodland - 23 Acres
 - Saguaro Paloverde Teddybear Cholla Shrubland - 44 Acres
 - Conglomerate Outcrop - 8 Acres
 - Mine Disturbance - 27 Acres



**Figure 43
Vegetation Map**



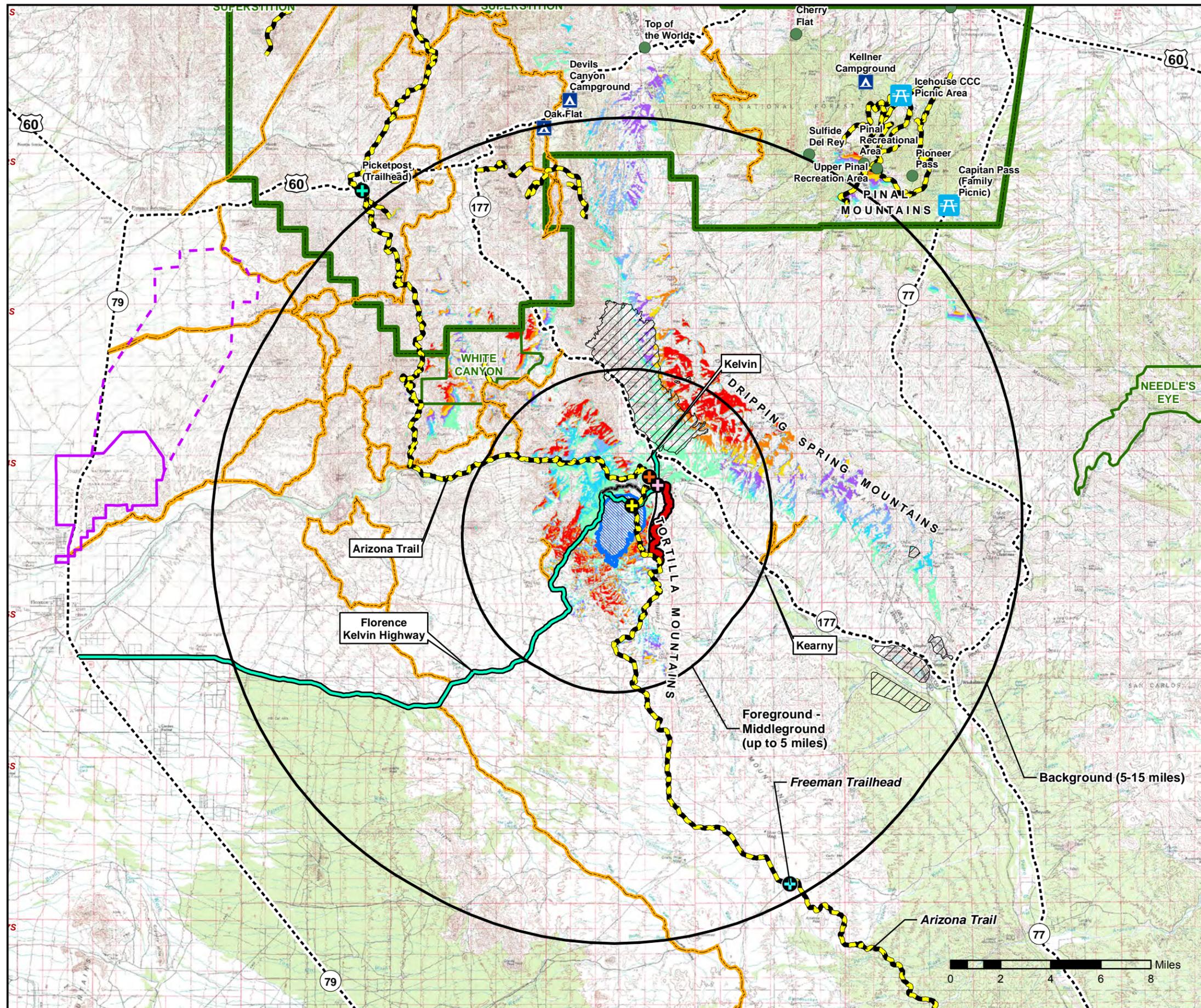
N

3,000 0 3,000 Feet

T4S, R13E, Portions of Sections 1-3, 12 & 21
 T4S, R14E, Portions of Sections 16 & 27,
 Pinal County, Arizona,
 Grayback & Kearny USGS 7.5' Quadrangles
 Land Ownership Provided by BLM
 Project Line Work Provided by AMEC
 Environment & Infrastructure

- LEGEND**
- ➔ Key Observation Point and Direction
- EXISTING FEATURES**
- Florence-Kelvin Highway
 - Overhead Electric
 - Arizona National Scenic Trail
 - Proposed Arizona National Scenic Trail Realignment Route
- RIPSEY WASH ALTERNATIVE 3**
- ▨ Ripsey Wash Alternative 3
 - ▨ Tailings Storage Facility Footprint
 - Ripsey Wash Tailings Delivery and Reclaim Water Pipelines
 - Stormwater Diversion Pipeline
 - ➔ Cutoff Wall
 - ➔ Surface Water Diversion Channel
 - Realignment of Florence-Kelvin Highway
 - Ripsey Wash Project Power Line
 - SCIP Overhead Electric Realignment
- HACKBERRY GULCH ALTERNATIVE 2**
- ▨ Hackberry Gulch Alternative 2
 - ▨ Tailings Storage Facility Footprint
 - Hackberry Gulch Tailings Delivery and Reclaim Water Pipelines
 - ➔ Surface Water Diversion Channel
 - Hackberry Gulch Route for Overhead Electric
- LAND OWNERSHIP**
- ▨ Bureau of Land Management
 - ▨ Bureau of Reclamation
 - Private Land (No Color)
 - ▨ State Trust Land

Figure 44
 KEY OBSERVATION POINT (KOP) LOCATIONS
 October 30, 2015



- Legend**
- Ripsey Wash TSF Footprint
 - Existing Mining Disturbance
 - Tonto National Forest (Administrative Boundary)
 - Wilderness Designation
 - Florence Military Reservation (Closed to Entry)
 - Florence Military Reservation (Subject to Closure)
 - Proposed Realignment of Arizona Trail
 - Popular Hiking Trails
 - Popular Offroad Trail
 - Florence-Kelvin Highway
 - Proposed Realignment of the Florence-Kelvin Highway
 - Proposed Arizona National Scenic Trail Realignment Route
 - Campground
 - Picnic
 - Other Recreational Area
 - Kelvin Trail Access
 - Existing Trailhead Location
 - Florence-Kelvin Trailhead
 - Proposed Relocated Florence-Kelvin Highway Trailhead

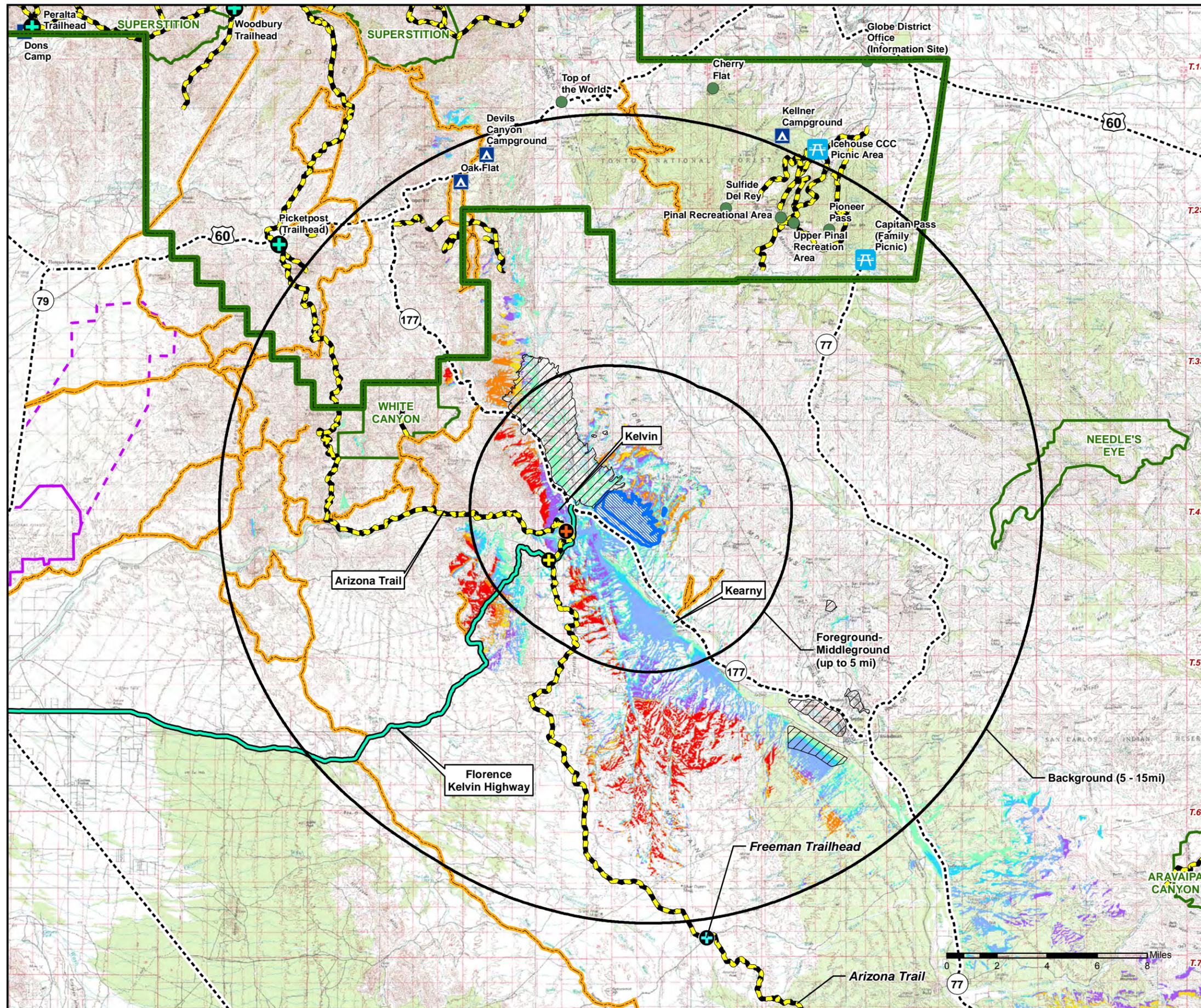
Percent of Tailings Storage Facility Receptors Visible

 Not Visible	 >20 ≤ 35% Visible
 >0 ≤ 5% Visible	 >35 ≤ 50% Visible
 >5 ≤ 10% Visible	 >50 ≤ 70% Visible
 >10 ≤ 20% Visible	 >70 ≤ 100% Visible

Data Source:

- Amec: Tailings Facilities
- Tonto National Forest: Administrative Boundary, Wilderness Designation, Hiking Trails, Campgrounds, Fishing, Picnic, springs, Trailheads and other Rec Sites
- BLM: Wilderness Designation
- AZGF: Florence Military Reservation
- USGS: DEM, Topo Maps (ArcGIS Online)
- Wells & Peterson: Popular Offroad Trails
- Everytrail.com: Popular Hiking Trails
- Todshikingguide.com: Popular Hiking Trails
- AZLRO.org: Popular Offroad Trails

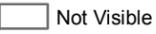
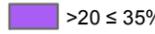
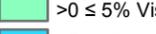
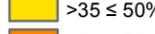
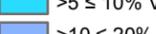
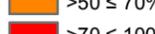
Figure 45
VISIBILITY STUDY
RIPSEY WASH ALTERNATIVE
 October 30, 2015



Legend

-  Hackberry Gulch TSF Footprint
-  Existing Mining Disturbance
-  Tonto National Forest (Admin. Boundary)
-  Wilderness Designation
-  Florence Military Reservation (Closed to Entry)
-  Florence Military Reservation (Subject to Closure)
-  Popular Hiking Trails
-  Popular Offroad Trail
-  Florence-Kelvin Highway
-  Campground
-  Picnic
-  Other Recreational Area
-  Kelvin Trail Access
-  Existing Trailhead Location
-  Florence-Kelvin Trailhead

Percent of Tailings Storage Facility Receptors Visible

- | | |
|---|--|
|  Not Visible |  >20 ≤ 35% Visible |
|  >0 ≤ 5% Visible |  >35 ≤ 50% Visible |
|  >5 ≤ 10% Visible |  >50 ≤ 70% Visible |
|  >10 ≤ 20% Visible |  >70 ≤ 100% Visible |

Data Source:

Amec: Tailings Facilities

Tonto National Forest: Admin Boundary, Wilderness Designation, Hiking Trails, Campgrounds, Fishing, Picnic, springs, Trailheads and other Rec Sites

BLM: Wilderness Designation

AZGF: Florence Military Reservation

USGS: DEM, Topo Maps (ArcGIS Online)

Wells & Peterson: Popular Offroad Trails

Everytrail.com: Popular Hiking Trails

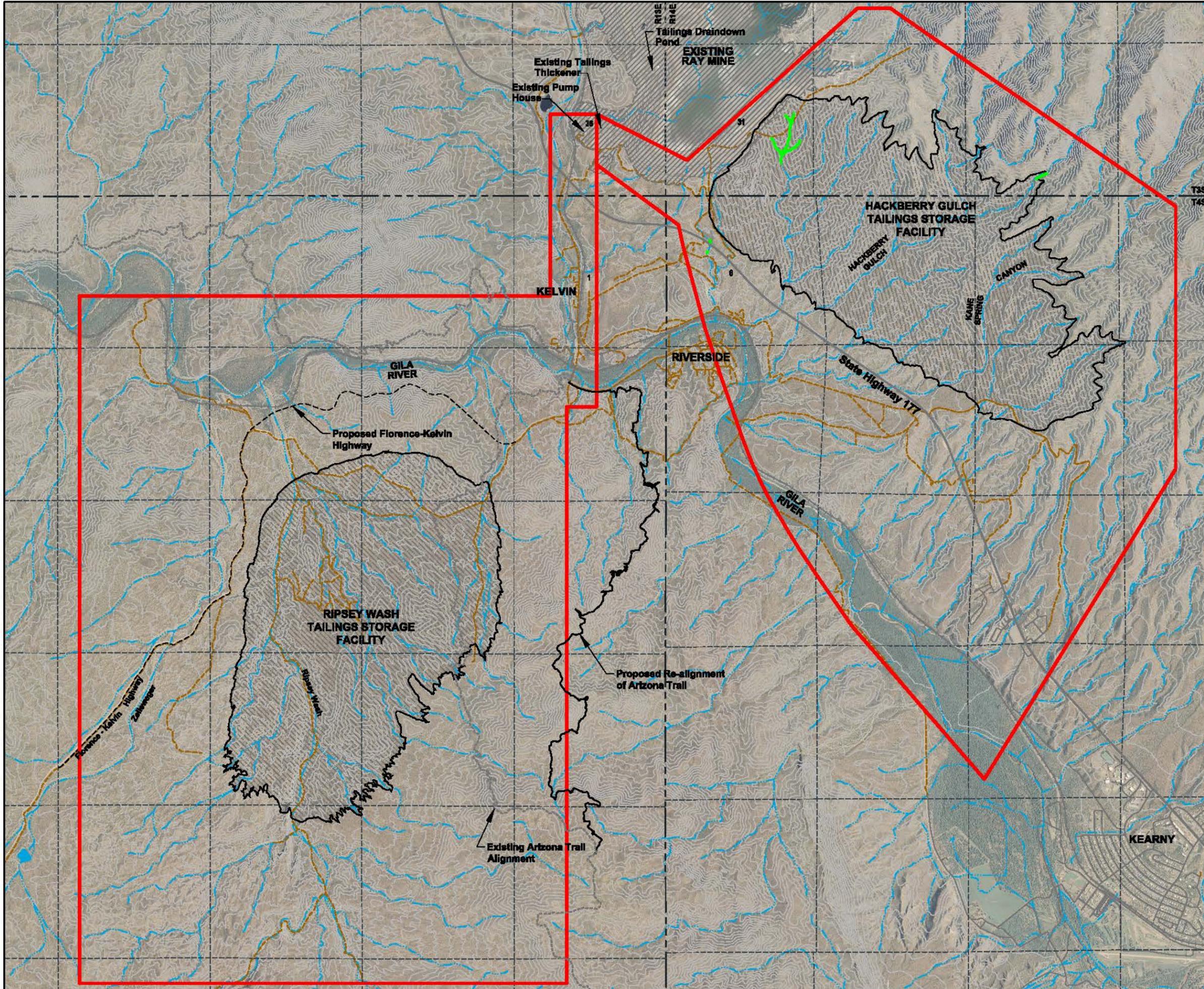
Todshikinguide.com: Popular Hiking Trails

AZLRO.org: Popular Offroad Trails

Figure 46

VISIBILITY STUDY
HACKBERRY GULCH ALTERNATIVE

October 30, 2015



LEGEND:

-  EXISTING GROUND SURFACE CONTOUR EL, FEET
-  EXISTING DRAINAGES
-  EXISTING RAILROAD
-  EXISTING ROAD
-  EXISTING TRAIL/UNIMPROVED ROAD
-  SURFACE WETLAND AREAS
-  WILDLIFE ANALYSIS AREAS (Provided By Westland Resources Inc.)
-  LIFE OF PROJECT TAILINGS DISTURBED AREA

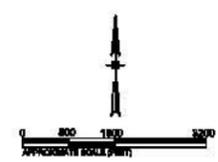
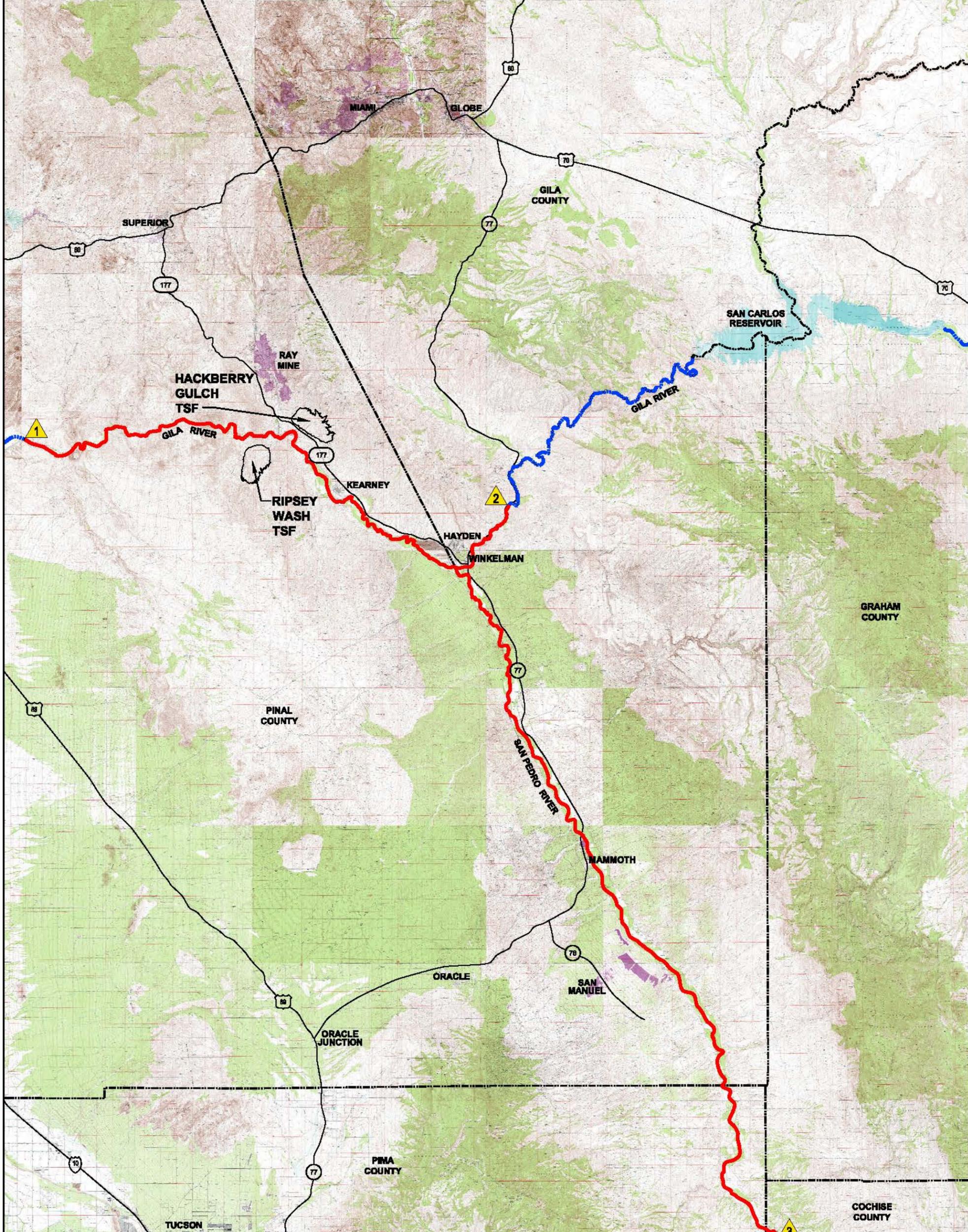


Figure 47
Wildlife Analysis Area -
Ripsey Wash & Hackberry Gulch



Note: Southwestern Willow Flycatcher habitat located in the USFWS Middle Gila/San Pedro Management Unit.

LEGEND:

- CRITICAL HABITAT FOR SOUTHWESTERN WILLOW FLYCATCHER
- - - - - RIVERS
- COUNTY LINES
- HIGHWAYS

- ENDPOINTS OF CRITICAL HABITAT FOR SOUTHWESTERN WILLOW FLYCATCHER**
- ▲ 1 ASHURST-HAYDEN DAM ON GILA RIVER
 - ▲ 2 CONFLUENCE OF DRIPPING SPRINGS WASH AND GILA RIVER
 - ▲ 3 3.5 MILES SOUTH OF CONFLUENCE OF HOT SPRINGS CANYON AND SAN PEDRO RIVER

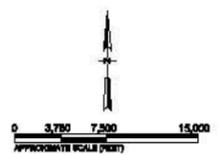


Figure 48
Southwestern Willow Flycatcher Designated
Critical Habitat Near the TSF Sites



Note: Figure Taken From USFWS 2014b.

LEGEND:

- CRITICAL HABITAT FOR YELLOW-BILLED CUCKOO
- - - - - RIVERS
- COUNTY LINES
- HIGHWAYS

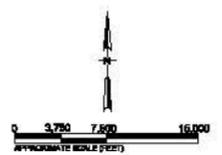
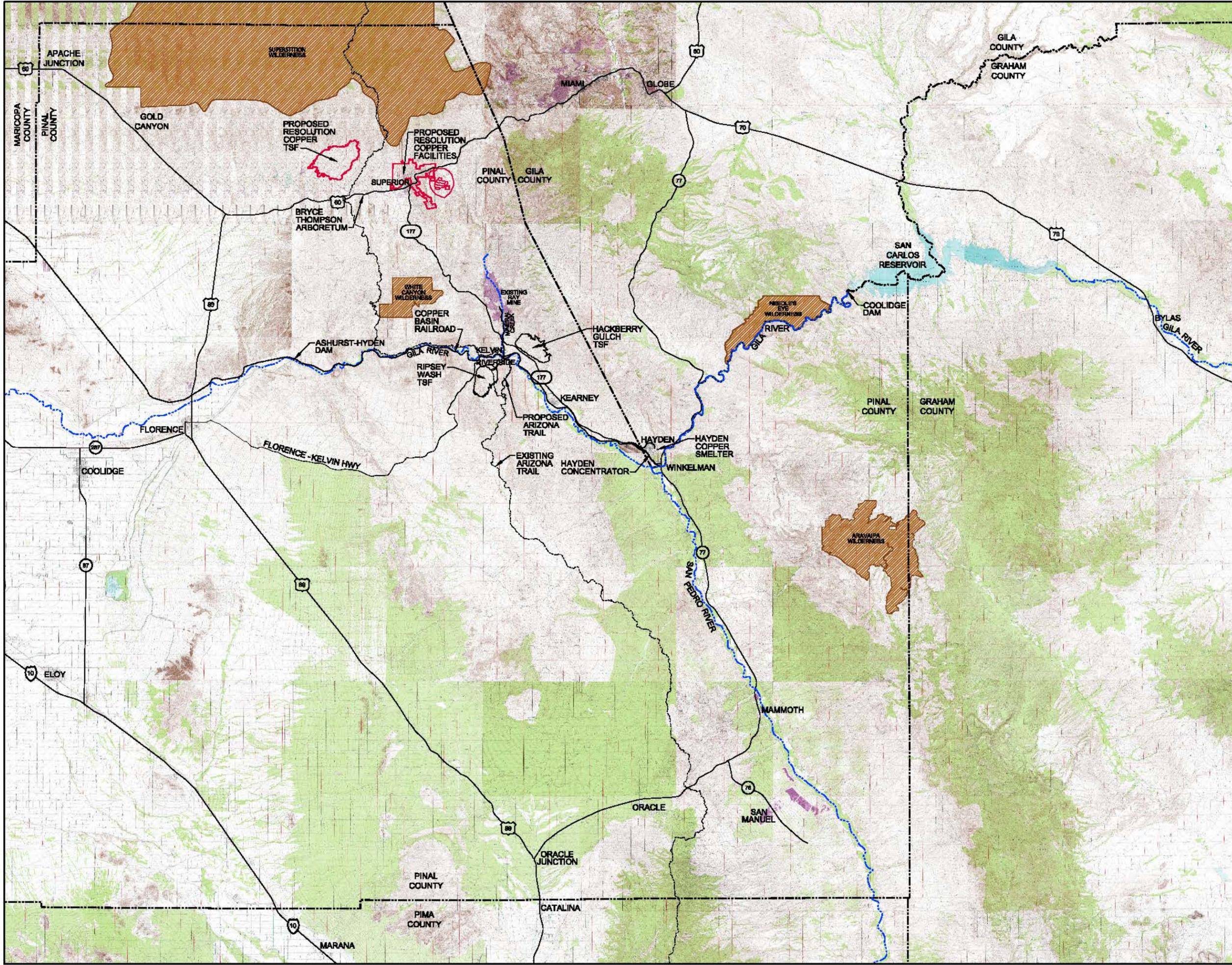


Figure 49
Yellow-Billed Cuckoo Proposed
Critical Habitat Near the TSF Sites



LEGEND:

- RIVERS
- COUNTY LINES
- HIGHWAYS

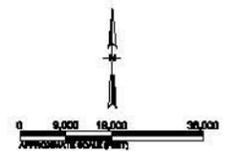
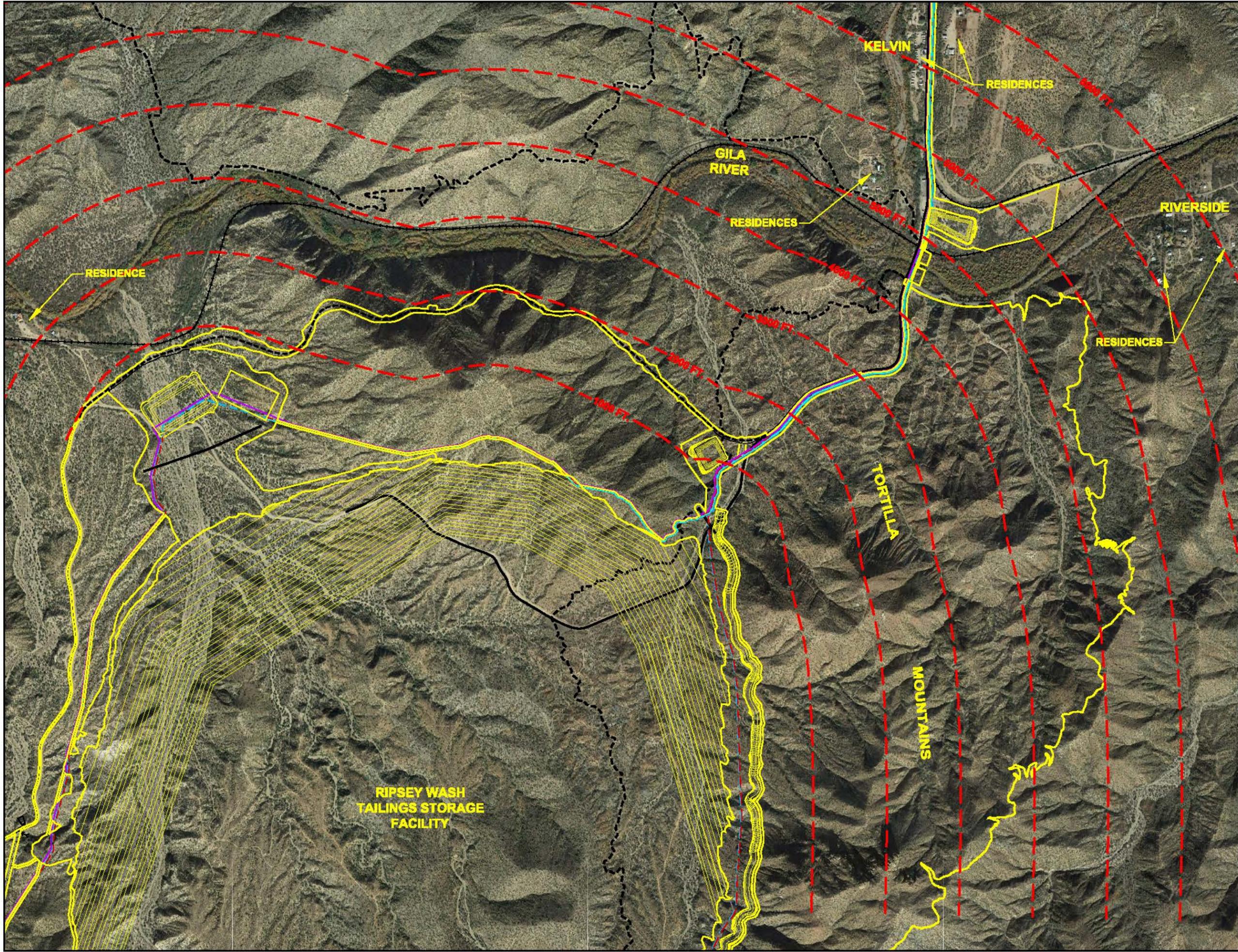


Figure 50
Regional Activities/Actions
Locations Map



- LEGEND:**
-  EXISTING RAILROAD
 -  PROPOSED LIMITS OF SURFACE DISTURBANCE
 -  PROPOSED TAILINGS DELIVERY PIPELINE
 -  PROPOSED RECLAIM PIPELINE
 -  PROPOSED ELECTRICAL LINE
 -  PROPOSED ACCESS ROADS

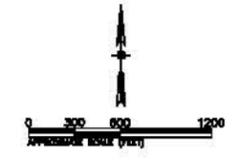
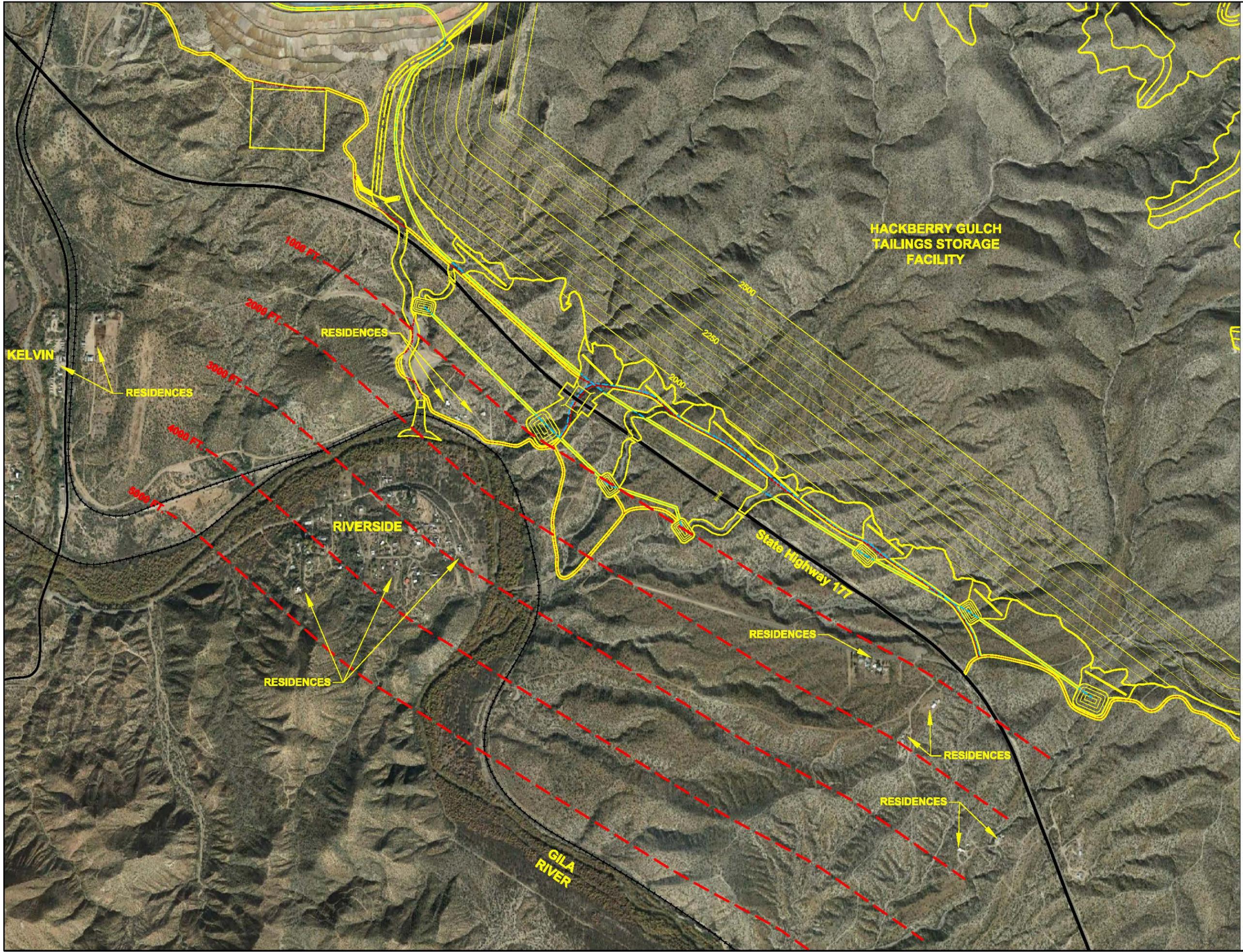


Figure 51
Nearby Residents -
Ripsey Wash TSF



- LEGEND:**
- EXISTING RAILROAD
 - PROPOSED LIMITS OF SURFACE DISTURBANCE
 - PROPOSED TAILINGS DELIVERY PIPELINE
 - PROPOSED RECLAIM PIPELINE
 - PROPOSED ELECTRICAL LINE
 - PROPOSED ACCESS ROADS

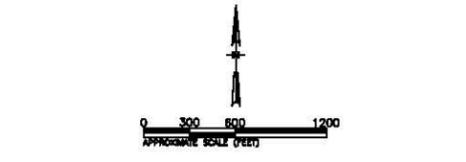
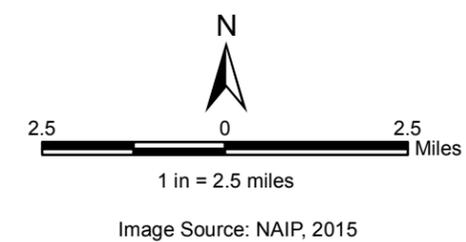


Figure 52
Nearby Residents -
Hackberry Gulch TSF



Legend
 Ripsey Wash Area of Potential Effect

Figure 53
 RIPSEY WASH AREA OF POTENTIAL EFFECT
 December 22, 2015