

APPENDIX C: SCOPING MEETING DISPLAY BOARDS AND MEETING HANDOUTS

- Public meeting question card
- Comment form
- Meeting handout
- Presentation slides
- BLM meeting display boards
- Proponent meeting display boards
- Group activity maps



**Proposed APS Sun Valley to Morgan
500/230kV Transmission Line Project & Proposed RMP Amendent
Scoping Meeting Question Card**

PLEASE PRINT CLEARLY

Name: _____

Address: _____

Question (one question per card): _____

Submission of this question card is completely voluntary, and any identifying information provided will become part of the public record, and as such must be released to any individual upon request. Request to withhold comments and associated personal identifying information from public review cannot be guaranteed.



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Proposed APS Sun Valley to Morgan 500/230kV Transmission Line Project and Proposed RMP Amendment

Proposed Route

**Comment
Deadline
May 27, 2011**



Do you have a suggested alternative?



We want to hear from you!

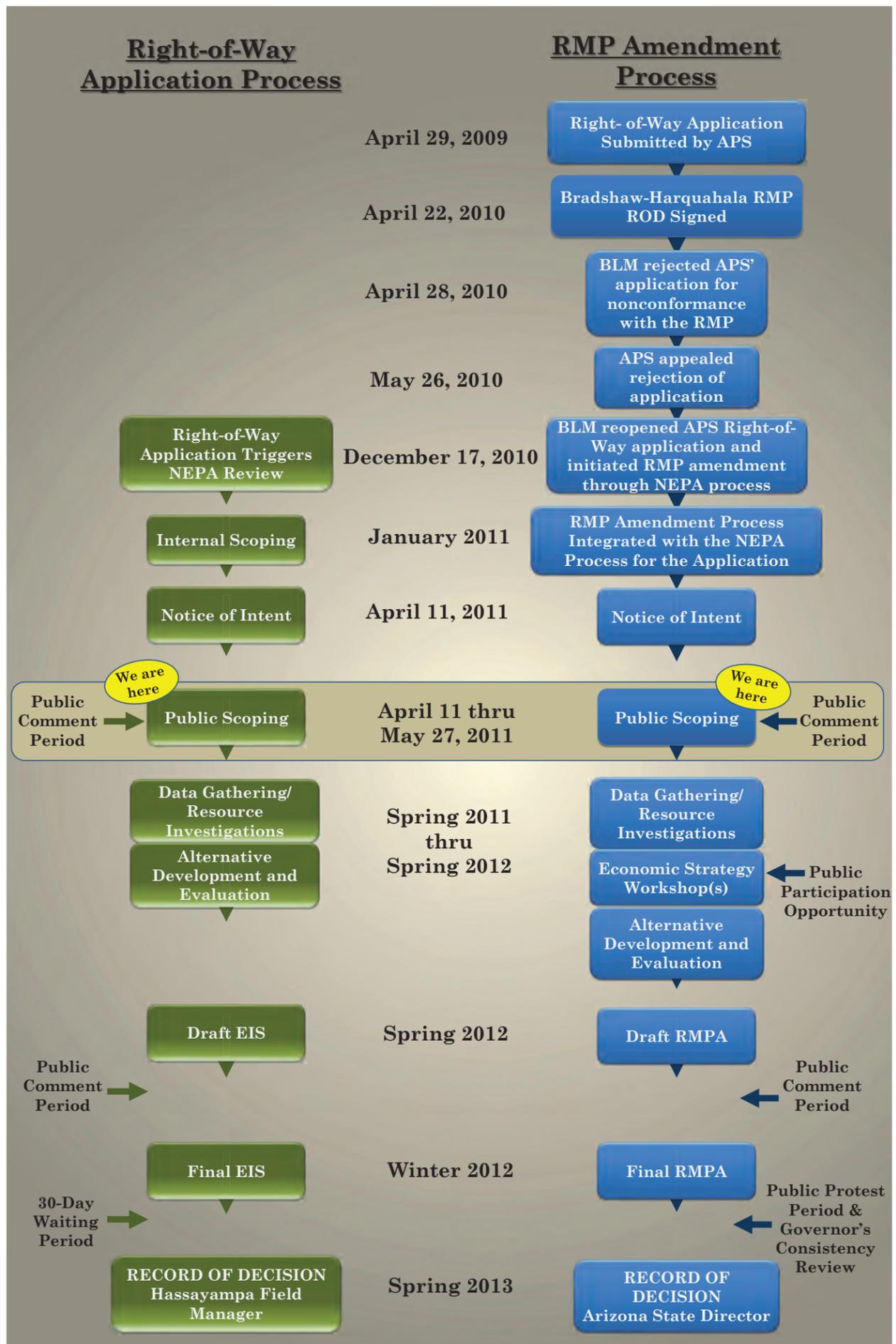
All comments MUST be postmarked by May 27, 2011

Proposed Sun Valley to Morgan 500/230kV Transmission Line Project and Proposed Resource Management Plan Amendment

The Arizona Public Service (APS) filed an application for a right-of-way grant on public lands north of Phoenix, Arizona, to construct an above-ground electric transmission system, consisting of a single series of tower structures holding two high-voltage circuits – a single-circuit 500-kilovolt (kV) transmission line and a single-circuit 230 kV line. The total Project spans 38 miles and seeks to connect APS' Sun Valley Substation near the Town of Buckeye with the Morgan Substation near the City of Peoria, crossing approximately 10.5 miles of federal public lands in two separate locations. Management decisions for these federal public lands are subject to a 2010 land use plan called the Bradshaw-Harquahala Resource Management Plan (RMP).

The APS proposal to use 7 miles of federal public lands near Peoria along State Route (SR) 74, where there is no utility corridor, is deemed to be inconsistent and not allowed under the recently completed RMP. Therefore, the BLM initiates a public process to make two separate decisions: (1) whether or not to amend its land use plan to create a utility corridor in the vicinity of SR 74; and, (2) whether or not to approve the APS application and any adjustments to the proposed transmission location or design. Under the National Environmental Policy Act (NEPA), these decisions are analyzed with public input in an Environmental Impact Statement (EIS), and must include the assessment of multiple route alternatives. Public participation and scoping is now underway.

The intent of the public scoping meetings is to inform the public about the proposed Project and to solicit feedback from the public to help the BLM identify issues, concerns, alternatives, and potential impacts that should be analyzed in an EIS.



For more information or if you have further questions contact:

Joe Incardine
801-524-3833
jincardi@blm.gov

For Project Updates

Information Hotline
1-800-578-4133

Project Website:

www.blm.gov/az/st/en.html

Ways to Submit Comments

Tonight

Submit comment form to BLM Staff

US Mail

Sun Valley to Morgan Project
Attn: Joe Incardine/Kathleen Depukat
BLM Phoenix District Office
Hassayampa Field Office
21605 North 7th Avenue
Phoenix, Arizona 85027-2929

Email

SunValley-Morgan@blm.gov

Fax

623-580-5580



Proposed Sun Valley to Morgan 500/230kV Transmission Line Project and Proposed Resource Management Plan Amendment

Land Ownership

- LEGEND**
- Proposed Project Route
 - Study Area

Resource Features

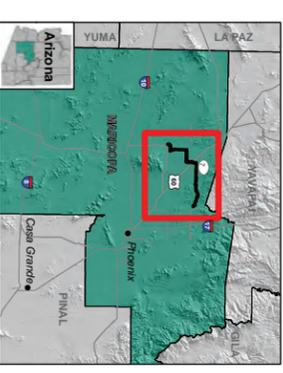
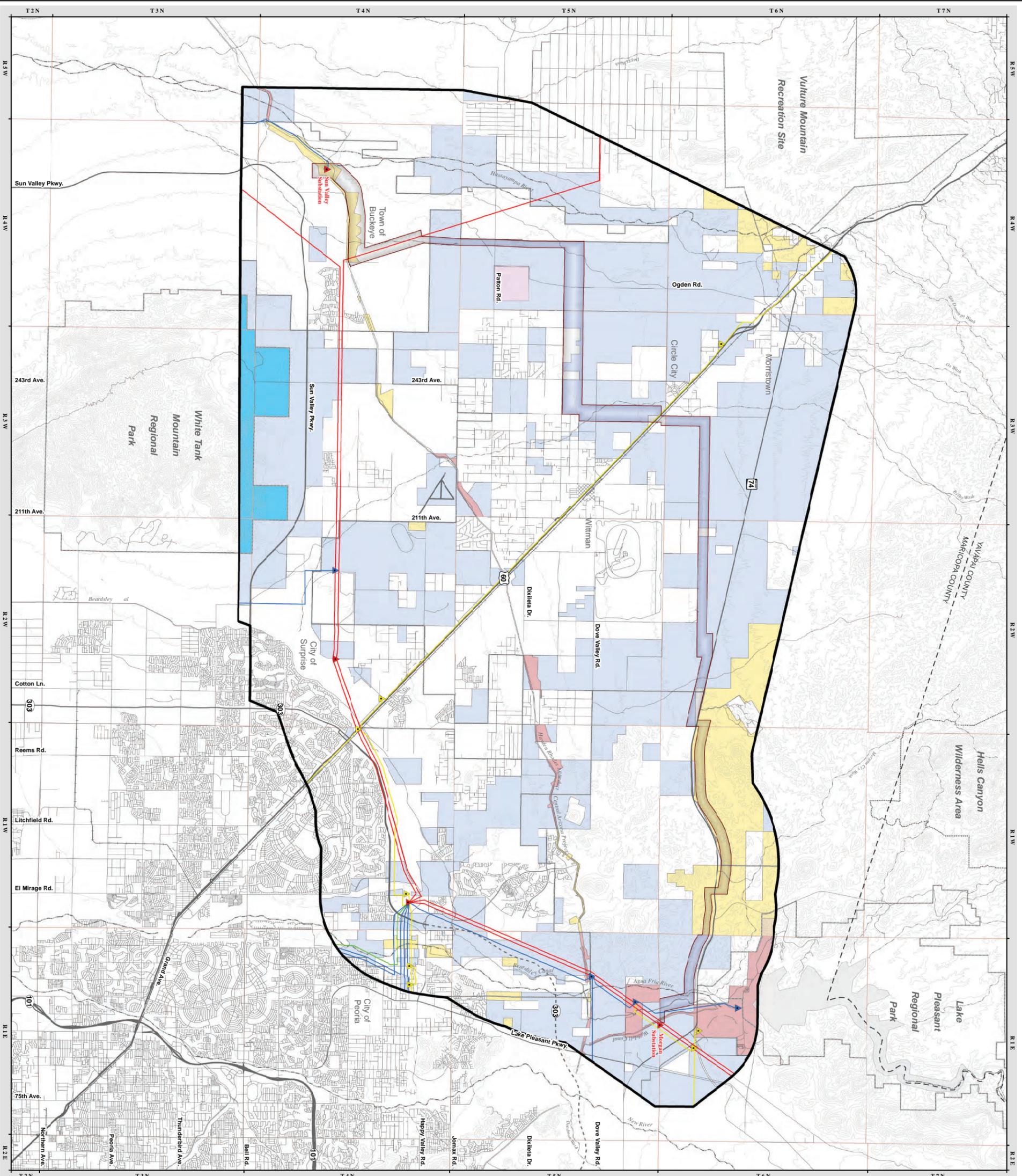
- Land Ownership**
- Bureau of Land Management
 - Bureau of Reclamation
 - Military
 - State Trust
 - County Land
 - State/Local Park
 - Private

Reference Features

- Arterial Street
- Major Road
- Under Construction (Loop 303)
- Township and Range
- Jurisdictional Boundary
- County Boundary
- Railroad
- River
- Wash/ Stream
- Lake Boundary
- Wilderness Area
- Recreation Area

Existing Transmission Features

- Transmission Line 69kV
 - Transmission Line 230kV
 - Transmission Line 345kV
 - Transmission Line 500kV
 - Substation 69kV
 - Substation 230kV
 - Substation 500kV
- Note: Transmission lines are offset for graphical purposes.



Sources: Bureau of Land Management 2010; Maricopa County 2011; ERG 2011; ESRI 2010; POWERmap, powermap.platts.com ©2007 Platts, A Division of The McGraw-Hill Companies

0 1.25 2.5 5
Miles

April 21, 2011

Contour Interval: 100 feet

Public Participation & Scoping for the Proposed Sun Valley to Morgan Transmission Line Project Arizona Public Service (APS)

Draft Environmental Impact Statement (EIS)
and Proposed Land Use Plan Amendment

Hassayampa Field Office

April 2011



Proposed Sun Valley to Morgan Transmission Line Project

Meeting Administration

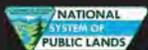
- Focus on functional, constructive controversy
- Speak for yourself...own your words
- Thirty second soapbox?
- Communicate effectively by actively listening
- Enjoy our time together



Proposed Sun Valley to Morgan Transmission Line Project

Meeting Administration

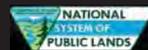
- Rest rooms? Meeting breaks?
- Pagers and cell phones
- You're not glued to your seat!!!
- Critique ideas, not people... show respect for the views of others
- Avoid side conversations
- Listen with an open mind many different perspectives



Proposed Sun Valley to Morgan Transmission Line Project

Meeting Objectives

- Provide information on the proposed project and the process
- Provide opportunities for participant comments or questions related to the proposed project
- Identify transmission line alternative routes for consideration
- Explain the next steps for the process and how to provide further comments



Proposed Sun Valley to Morgan Transmission Line Project

Tonight's Agenda

- Welcome and Introductions
- Resource Management Plan Amendment Request
- Proposed Project APS
- Next Steps for the Process BLM
- Participant Comments and Identification of Transmission Line Route Alternatives Participants
- Adjourn to Open House



Proposed Sun Valley to Morgan Transmission Line Project

The Bureau of Land Management (BLM) Mission

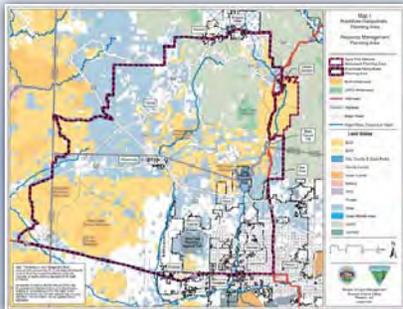


To sustain the health, diversity, and productivity of the public lands for the use and enjoyment of present and future generations



Proposed Sun Valley to Morgan Transmission Line Project

The Bureau of Land Management (BLM) Arizona Hassayampa Field Office



Steven Cohn
Field Manager

971,490 surface acres

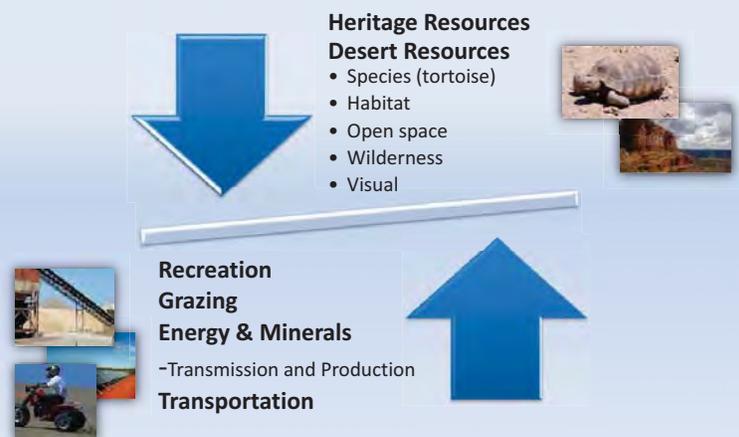
Management Decisions
Subject to April 2010 Land
Use Plan:

***"Bradshaw-Harquahala
Resource Management Plan
(RMP)"***



Proposed Sun Valley to Morgan Transmission Line Project

Hassayampa Field Office – Bradshaw-Harquahala Resource Management Plan (RMP)



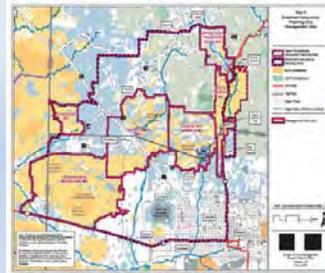
Bradshaw-Harquahala Resource Management Plan 11 Years - Public Participation

1999-2002	30 Presentations Partners, Cooperators, Citizens
2002-2006	10 Public Meetings 5000+ comments received
2006	Draft RMP Released 8 Public Meetings 3731 comments received
2010	Final RMP Released



Proposed Sun Valley to Morgan Transmission Line Project

Bradshaw-Harquahala Resource Management Plan Critical Decisions Made



- 6 Management Units
 - Community Vision Statements
- Recreation
- Wildlife (Tortoise)
- Visual Resource Management
- Transportation Corridors
- Utility Corridors



Proposed Sun Valley to Morgan Transmission Line Project

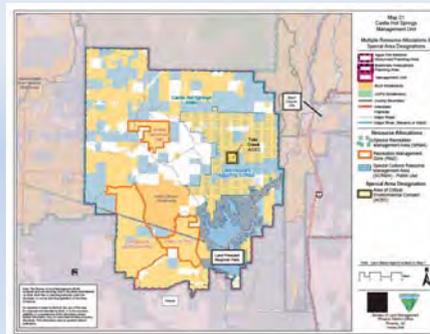
Bradshaw-Harquahala Resource Management Plan Who Participated

- Citizens and Organizations
- Arizona Public Service
- City of Peoria
- City of Phoenix
- Yavapai County
- Maricopa County
- Arizona Game and Fish Department
- Arizona Department of Transportation
- Arizona State Historic Preservation Office
- Indian tribes
- U. S. Bureau of Reclamation
- Prescott & Tonto National Forests
- Luke Air Force Base

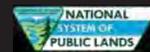


Proposed Sun Valley to Morgan Transmission Line Project

Bradshaw-Harquahala Resource Management Plan Critical Decisions Castle Hot Springs Management Unit (112,000 acres)



- ### Recreation
- Unit bounded by State Highway 74 on the south
 - Entire area designated as **Special Recreation Management Area**
 - Emphasize preserving open space to retain scenic & visual qualities
 - 3 Recreation Management Zones, Hells Canyon Wilderness, & Lake Pleasant Park



Proposed Sun Valley to Morgan Transmission Line Project

Bradshaw-Harquahala Resource Management Plan Critical Decisions – Wildlife Habitat (Tortoise)

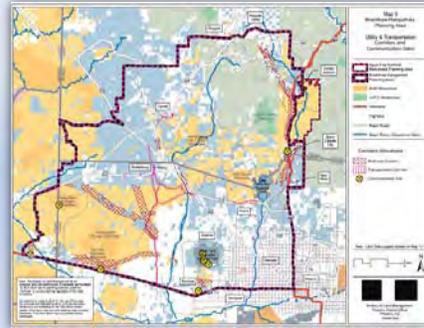


Category 2: Maintain stable, viable populations and halt further declines in tortoise habitat values
Category 3: Limit tortoise habitat and population declines to the extent possible through mitigation



Proposed Sun Valley to Morgan Transmission Line Project

Bradshaw-Harquahala Resource Management Plan Critical Decisions – Transportation & Utility Corridors



Transportation Corridors:

- Accommodate future highway needs
- Exclude non compatible uses

Utility Corridors:

- Multi Use Transportation + Utility
- Exclude non compatible uses
- **Required** for major utilities, including:
 - Transmission > 115kV
 - Pipelines > 10" diameter
 - Significant canals



Proposed Sun Valley to Morgan Transmission Line Project

Bradshaw-Harquahala Resource Management Plan Critical Decisions – Visual Resources



Class II:
Objective retain existing landscape character
Level of change low
Management actions seen, but not attract attention
Changes repeat basic elements of natural features

Class III:
Objective partially retain existing landscape character
Level of change moderate
Management actions may attract attention, but not dominate the view of the casual observer
Changes repeat basic elements of natural features

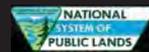


Proposed Sun Valley to Morgan Transmission Line Project

Bradshaw-Harquahala Resource Management Plan Critical Decisions – Castle Hot Springs Management Unit



- **No new utility corridors** are designated within this Management Unit (north of State Route 74)
 Closest utility corridor is located near the CAP canal
- **State Route 74** designated a **1-mile wide transportation corridor** (1/2 mile either side of highway centerline)
 Transportation Corridor designated Visual Resource Management Class III



Proposed Sun Valley to Morgan Transmission Line Project

Bradshaw-Harquahala Resource Management Plan

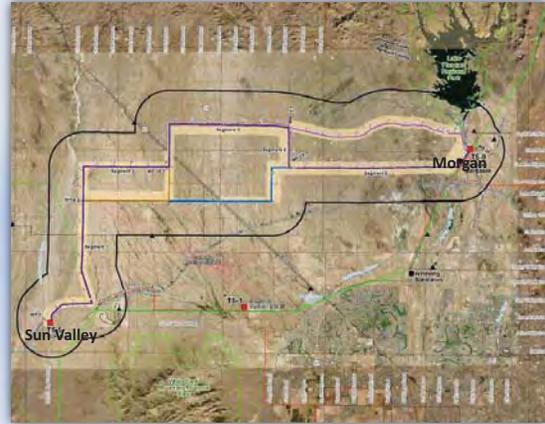
**Decisions Were Made –
So Why Are We Here Tonight?**

Arizona Public Service (APS) Application



Proposed Sun Valley to Morgan Transmission Line Project

ACC Alternative Routes

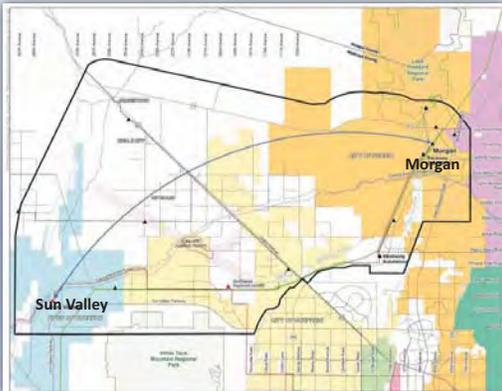


- Modified Application for 500kV & 230kV
- APS Identified a Preferred Route

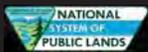


Proposed Sun Valley to Morgan Transmission Line Project

Arizona Public Service Application



- APS Applied for 500kV to Arizona Corporation Commission (ACC)
- Approximately 38 mile line from Sun Valley to Morgan



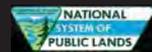
Proposed Sun Valley to Morgan Transmission Line Project

Arizona Public Service (APS) Application



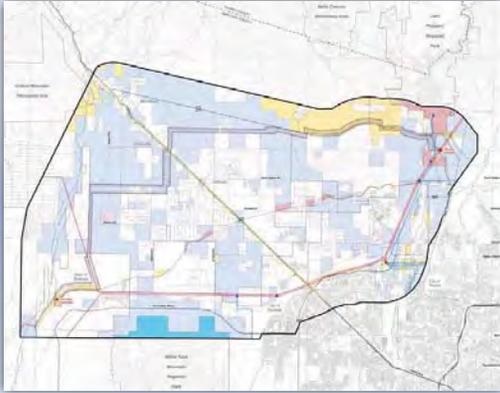
ACC Process

- Line Siting Committee & Public Hearings
- Line Siting Committee Recommends Public and State Land Line
- ACC Certificated Corridor on Public Lands Adjacent to SR 74



Proposed Sun Valley to Morgan Transmission Line Project

Arizona Public Service (APS) Files Application With BLM



1. APS Applied for Utility Right-of-Way
2. BLM Rejected Application – Non-Conformance



Proposed Sun Valley to Morgan Transmission Line Project

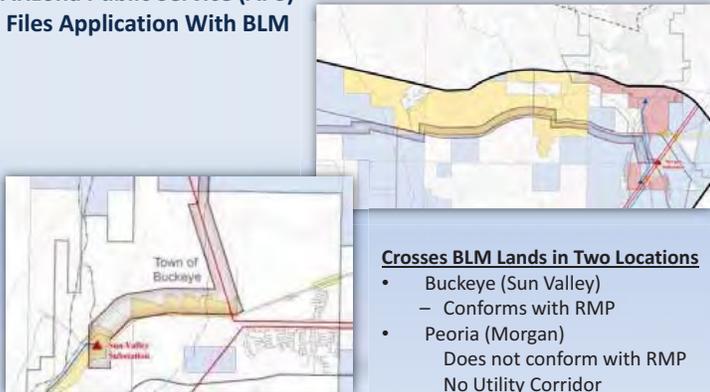
BLM Process for APS Application

APS requests that BLM amend land use plan (RMP) to consider adding Utility Corridor along SR 74



Proposed Sun Valley to Morgan Transmission Line Project

Arizona Public Service (APS) Files Application With BLM



Crosses BLM Lands in Two Locations

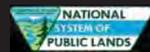
- Buckeye (Sun Valley)
 - Conforms with RMP
- Peoria (Morgan)
 - Does not conform with RMP
 - No Utility Corridor



Proposed Sun Valley to Morgan Transmission Line Project

Hassayampa Field Office - Bradshaw-Harquahala Resource Management Plan (RMP)

APS Presentation



Proposed Sun Valley to Morgan Transmission Line Project

Sun Valley to Morgan 500/230kV Transmission Line Project (Formerly Called TS-5 to TS-9)

Richard Stuhan
Senior Siting Consultant



Project Description

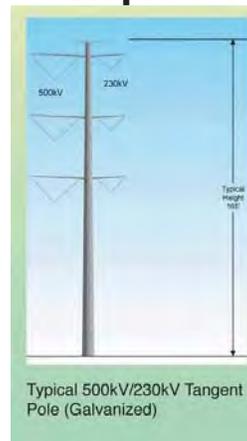
- Approximately 40 miles in length
- Single circuit 500kV and 230kV overhead transmission line
- Tubular steel mono-pole or steel lattice between 135 to 195 feet in height
- Typical span between structures of 800 to 1,400 feet
- Right-of-way of 200 feet wide



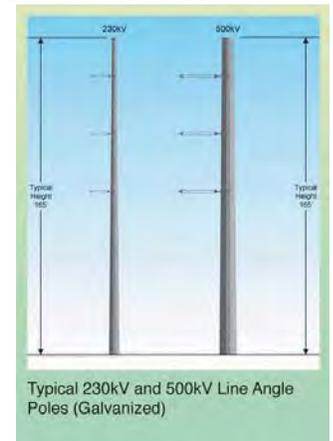
Rationale for the Project

- Increases reliability
- Helps relieve transmission congestion
- Increases ability to move electricity
- Included in the APS Renewable Transmission Action Plan
- Provides for future growth
- Co-location of the 230kV line with 500kV line on same structures provides a savings of approximately \$100 million
- Co-location reduces environmental impacts while eliminating future 230kV line siting efforts
- APS transmission system requires a mid-2016 in service date for the 500kV circuit

Representative Structures



Typical 500kV/230kV Tangent Pole (Galvanized)

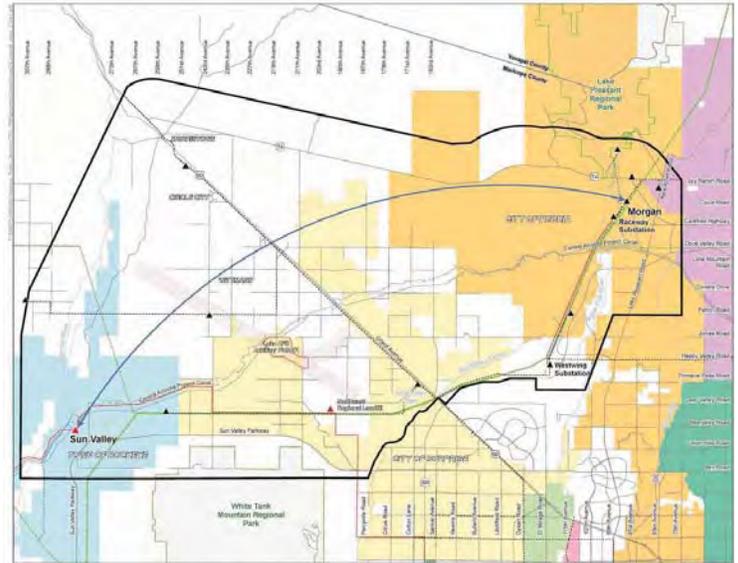


Typical 230kV and 500kV Line Angle Poles (Galvanized)



APS Project Milestones

- In 2003, the 500kV circuit was first identified in APS' Ten Year Plan. The 230kV circuit was identified in the 2008 plan.
- In 2007-2008, APS conducted studies and extensive public involvement.
- APS filed an application for a Certificate of Environmental Compatibility (CEC) in July 2008.
- The Arizona Corporation Commission (ACC) approved a corridor in March 2009 which traversed BLM lands.
- APS filed an application for a right-of-way with the Bureau of Land Management (BLM) on April 29, 2009.



APS Project Milestones

- In April 2010, the BLM rejected the APS right-of-way application based on nonconformance with the Bradshaw-Harquahala plan that was finalized in April 2010.
- In May 2010, APS appealed BLM's rejection of the right-of-way application.
- APS and other stakeholders participated in discussions with BLM between October and December 2010.
- In December 2010, BLM agreed to process the right-of-way application and associated plan amendment.
- Notice of Intent published on April 11, 2011.



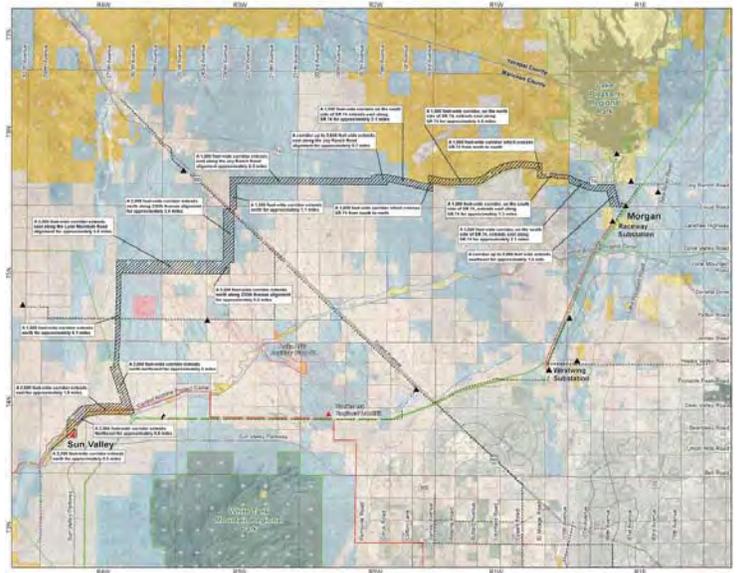
Siting Study

- Study area of approximately 400 square miles identified
- Study area includes four municipal jurisdictions along with unincorporated areas of Maricopa County
- Study area includes lands managed by several federal and state agencies, and private land owners
- Almost 300 miles of alternative connections were identified for evaluation
- One preferred route and three alternatives were selected and included in the CEC application



Public Involvement

- Four newsletters sent to approximately 37,000 residences or land owners
- Agency and stakeholder meetings
- Multi-Jurisdictional meetings
- Six public open house meetings (September 2007 and May 2008)
- Media relations program
- Two informational Project DVDs
- Project website



State Hearing Summary

- An application for a Certificate of Environmental Compatibility (CEC) was filed in July 2008.
- 16 days of public hearings were conducted before the Arizona Power Plant and Transmission Line Siting Committee.
- 17 interveners were present representing agencies, cities, developers, and homeowner associations.
- APS appeared before the Arizona Corporation Commission for 2 days of open meetings and public comment.
- The CEC was approved on March 4, 2009.



**11 Years - Public Participation
Now – We’re Back to Seek Input Again**

**Federal Law requires the BLM to consider the RMP
Amendment request subject to
The National Environmental Policy Act (NEPA).**



Proposed Sun Valley to Morgan Transmission Line Project

Bradshaw-Harquahala Proposed Resource Management Plan Amendment

BLM needs to determine if the RMP should be amended to add Utility Corridor along SR 74

NEPA requires an assessment of alternatives



Proposed Sun Valley to Morgan Transmission Line Project

Next Steps- Schedules

- Public Meetings
- Economic Workshop(s)
- Comments received through May 27, 2011
- Draft Environmental Impact Statement (EIS)
- Come back to public with Draft (EIS)



Proposed Sun Valley to Morgan Transmission Line Project



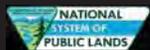
Group Mapping Activity

We would like your help:

- How do you use the public lands near SR 74?
- What are the values inherent in these lands?
- How do we balance these values with the need to provide electricity?
- What alternatives should BLM consider?

Alternatives

- Alternatives can consider different routes
- Alternatives can consider changes in size or design
- Alternatives can include separating the 500kV from the 230kV line. May expand routing options.



Proposed Sun Valley to Morgan Transmission Line Project

Hassayampa Field Office - Bradshaw-Harquahala Proposed Resource Management Plan Amendment

- Join the group session following the presentations to participate in the discussion!
- Provide substantive comments on the Comment Sheet tonight
- Mail, fax or email your comments
- Sign up for the mailing list to be included in future opportunities to participate
- All written comments need to be received by Friday, May 27, 2011

You may comment in several ways -

- Tonight with the comment form
- US Mail - Attention:
Joe Incardine/Kathleen Depukat
BLM Phoenix District Office
Hassayampa Field Office
21605 North 7th Avenue,
Phoenix, Arizona 85027
- Email - SunValley-Morgan@blm.gov
- Fax (623) 580-5500

Please include "APS" in the title and subject line of all correspondence.

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Proposed Sun Valley to Morgan Transmission Line Project

Welcome

Proposed Sun Valley to Morgan 500/230kV Transmission Line Project
and
Proposed Resource Management Plan Amendment

PUBLIC SCOPING MEETINGS

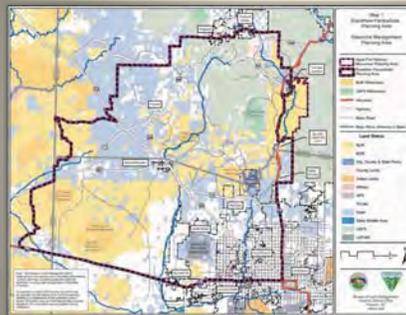
Bureau of Land Management (BLM) Mission

Working with its partners at the local, state, and national levels, the BLM will meet its mission of sustaining the health, diversity, and productivity of the public lands for the use and enjoyment of present and future generations



BLM Mission

The BLM Hassayampa Field Office prepared the Approved Bradshaw Harquahala Resource Management Plan (RMP) to provide comprehensive current and future management of the public lands administered by the Hassayampa Field Office. The RMP was approved on April 22, 2010.



The RMP represents years of ongoing, coordinated efforts on the part of the BLM Phoenix District and Hassayampa Field Office staff, BLM Arizona State Office staff, representatives of communities located within the planning area, cooperating and collaborating government agencies, special interest and user groups, and hundreds of concerned citizens.

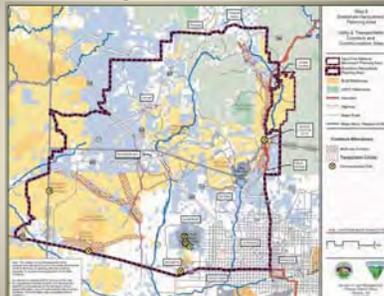
Bradshaw-Harquahala Resource Management Plan

APS' proposed transmission route would cross public lands managed under the Bradshaw Harquahala Resource Management Plan (2010)



- The RMP indicates that all major utilities will be routed through designated utility corridors (see LR 15, page 32 in the RMP)
- The RMP does not allow for a utility corridor on public lands along SR 74

Therefore, if the RMP amendment were to be approved, then the proposed right of way may be granted



Proposed RMP Amendment

- 38 miles of transmission line connecting the Sun Valley Substation to the Morgan Substation
- 200 foot wide right of way requested
- Single tubular pole structures or lattice structures will contain both 500kV and 230kV transmission lines
- Poles would be 135 to 195 feet tall and placed every 800 to 1,400 feet



APS' Proposed Route



APS Proposed Route

Proposed Sun Valley to Morgan Transmission Line Project

BLM's Purpose

- The BLM provides for uses of public land in the public interest in accordance with its multiple use mission and statutory mandates, including
 - Federal Land Policy and Management Act of 1976
 - Energy Policy Act of 2005
 - Executive Order 13212 (Actions to Expedite Energy Related Projects)
 - Secretary of the Interior Order No. 3285
 - Bradshaw Harquahala Resource Management Plan, signed April 22, 2010



BLM's Need

- Respond to the proponent's right of way application (Standard Form 299, Application for Transportation and Utility Systems and Facilities on Federal Lands) to construct and operate the proposed project, as well as for a possible amendment to the RMP

BLM's Purpose and Need

Proposed Sun Valley to Morgan Transmission Line Project

The Arizona Corporation Commission oversees the transmission line and power plant siting process for APS

Arizona Corporation Commission (ACC) Certificate of Environmental Compatibility Process



Arizona Corporation Commission Process

Proposed Sun Valley to Morgan Transmission Line Project

The National Environmental Policy Act (NEPA) of 1969

- Sets forth policy and goals as a means for carrying out its principles
- Ensures that federal agencies act in good faith during federal undertakings
- Provides the interested public and affected agencies the opportunity to input, identify issues, and offer solutions early in the NEPA process. This is accomplished through scoping and the formal public review of the draft NEPA document

What is Scoping?

- The scoping period occurs early in the process, before the Environmental Impact Statement (EIS) document is prepared
- Scoping is intended to ensure that relevant issues and concerns are identified early and properly studied as part of the EIS



What is an Environmental Impact Statement?

An EIS is a document prepared to comply with the requirements of NEPA. An EIS is prepared to analyze and disclose the effects of proposed activities on the environment.

What is NEPA?

Bureau of Land Management
Lead Agency responsible for managing the NEPA Process and drafting the Environmental Impact Statement

Cooperating Agencies
Responsible for participating in the NEPA process by attending meetings, providing information, reviewing documents, and providing input on decision to be made

BLM's Decisions To Be Made

- Determine whether or not to approve an amendment to the Bradshaw Harquahala RMP
- Determine whether or not to grant the right of way application for construction

Proposed Sun Valley to Morgan Transmission Line Project

What will be Analyzed?
The agency must analyze the full range of direct, indirect, and cumulative effects of the proposed project and any reasonable alternatives to resources such as ecological, aesthetic, historic, cultural, economic, social, or health

What is an Impact?
• An "impact" is a change or consequence that results from an activity
• Impacts can be positive or negative, or both
• An EIS describes impacts, as well as ways to "mitigate" impacts To "mitigate" means to lessen or remove negative impacts

Cultural Resources Any object or specific location of past human activity, occupation, or use, identifiable through historical documentation

Biological Resources Plant and animal species in the project area with special emphasis on sensitive or protected species

Recreation Designated recreational uses (campgrounds, picnic areas, off highway vehicle use) and nondesignated recreational uses (hunting, rock bounding)

Visual Resources and Noise Refers to the scenic or visual quality and character of the landscape

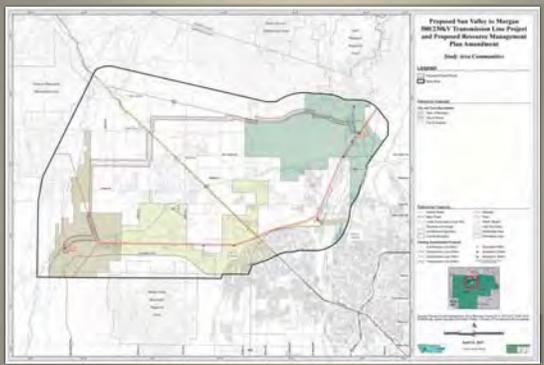
Land Use Compatibility of project with designated land uses on BLM land and surrounding lands

Socioeconomics Evaluation of economic and social impacts of project on the local communities or populations

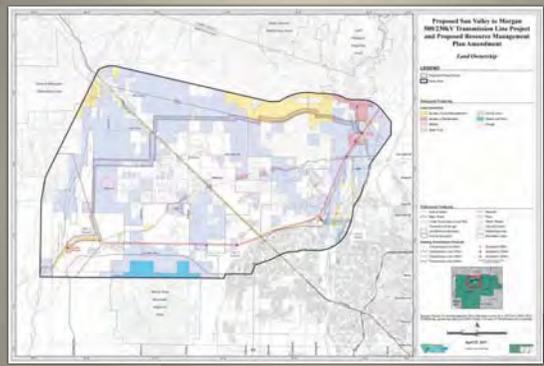
Health and Safety Involves analysis of potential hazards to surrounding communities from any health and safety dangers including chemical spills or fire hazard hazards

Water Resources Surface and groundwater resources in the project area or regional area

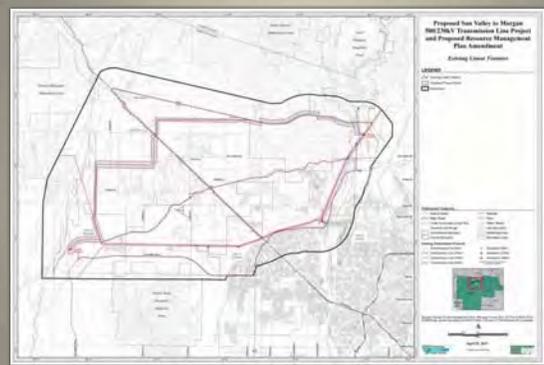
Preliminary Environmental Considerations



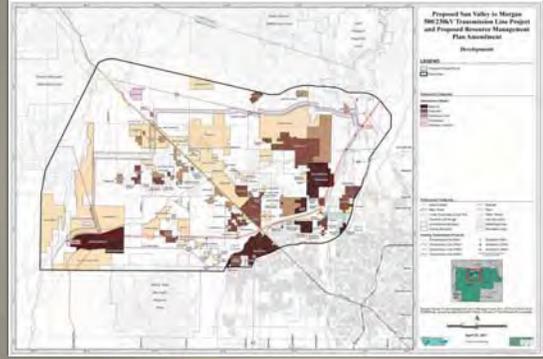
Study Area Communities



Land Ownership



Existing Features



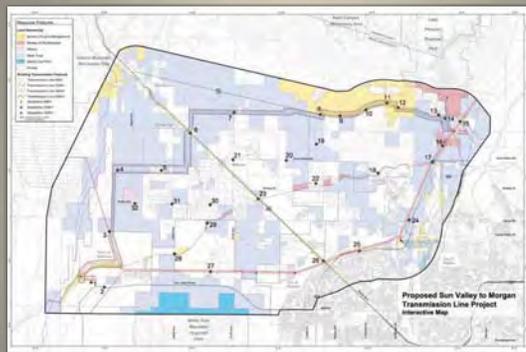
Planned Developments

Proposed Sun Valley to Morgan Transmission Line Project



SR 74 Virtual Tour Station

Proposed Sun Valley to Morgan Transmission Line Project



Interactive Photo Point Map Station

Proposed Sun Valley to Morgan Transmission Line Project



Google Earth Station

Proposed Sun Valley to Morgan Transmission Line Project

Ways to Submit Comments

Tonight
Submit comment form to BLM Staff

US Mail

Sun Valley to Morgan Project
Attn: Joe Incardine/
Kathleen Depukat
BLM Phoenix District Office
Hassayampa Field Office
21605 North 7th Avenue
Phoenix, Arizona 85027 2929

Email
SunValley.Morgan@blm.gov

Fax
623 580 5580

Submit Your Comments

Make a Difference

Your comments should...

- focus on the potential environmental effects, reasonable alternatives, and measures to avoid or lessen environmental impacts
- be substantive and as specific as possible

COMMENTS ARE DUE BY MAY 27, 2011

For more information or if you have further questions contact:

Joe Incardine
801 524 3833
jincard@blm.gov

For Project Updates

Information Hotline
1 800 578 4133



Proposed Sun Valley to Morgan Transmission Line Project

Proposed APS Sun Valley to Morgan 500/230kV Transmission Line EIS Project Public Meeting/Open House - Agenda

- 5:30 Welcome & Sign In
- 5:45 Meeting Introduction
- 5:55 BLM & APS Presentations
- 6:30 Participant Comments & Thoughts
- 6:50 Group Activity Introduction & Discussion
- 7:30 Group Presentations
- 7:55 Wrap up/Next Steps
- 8:00 Adjourn



Proposed Sun Valley to Morgan Transmission Line Project

The BLM Arizona administers 12.2 million surface acres of public lands, and another 17.5 million subsurface acres within the state.

Bureau of Land Management Arizona Strategic Goals

BLM Arizona Strategies	Local	Regional	Statewide
Land Stewardship
Resource Management
Wildlife
Recreation
Community
Wilderness

- The BLM Arizona has 9 field offices throughout the state providing on the ground field management
- The BLM balances recreational, commercial, scientific and cultural interests
- The BLM strives for long term protection of renewable and nonrenewable resources, including range, timber, minerals, recreation, watershed, fish and wildlife, wilderness, wild horses and burros, and natural, scenic, scientific and cultural values

BLM in Arizona

Proposed Sun Valley to Morgan Transmission Line Project



The BLM Hassayampa Field Office manages nearly 1 million acres north of Interstate 10 and an additional 725,000 acres of subsurface estate (mineral interests), including the 70,900 acre Agua Fria National Monument

Public lands within this field office are near developed and expanding communities and are heavily used. The lands are managed for multiple use and provide diverse recreational opportunities, mining, wildlife habitat, grazing, and wilderness, all overlaying a rich cultural past.

The field office oversees five wilderness areas, one river segment suitable for Wild and Scenic River Designation, and one Area of Critical Environmental Concern. It is home to the Harquahala National Back Country Byway as well as one property listed on the National Register of Historic Places.



Hassayampa Field Office

Phoenix District Office
Angelita Ballester, District Manager
Hassayampa Field Office
Steve Cook, Field Manager
21605 North 7th Avenue
Phoenix, AZ 85027 2929
Phone 623 580 5580
Fax 623 580 5580

Proposed Sun Valley to Morgan Transmission Line Project

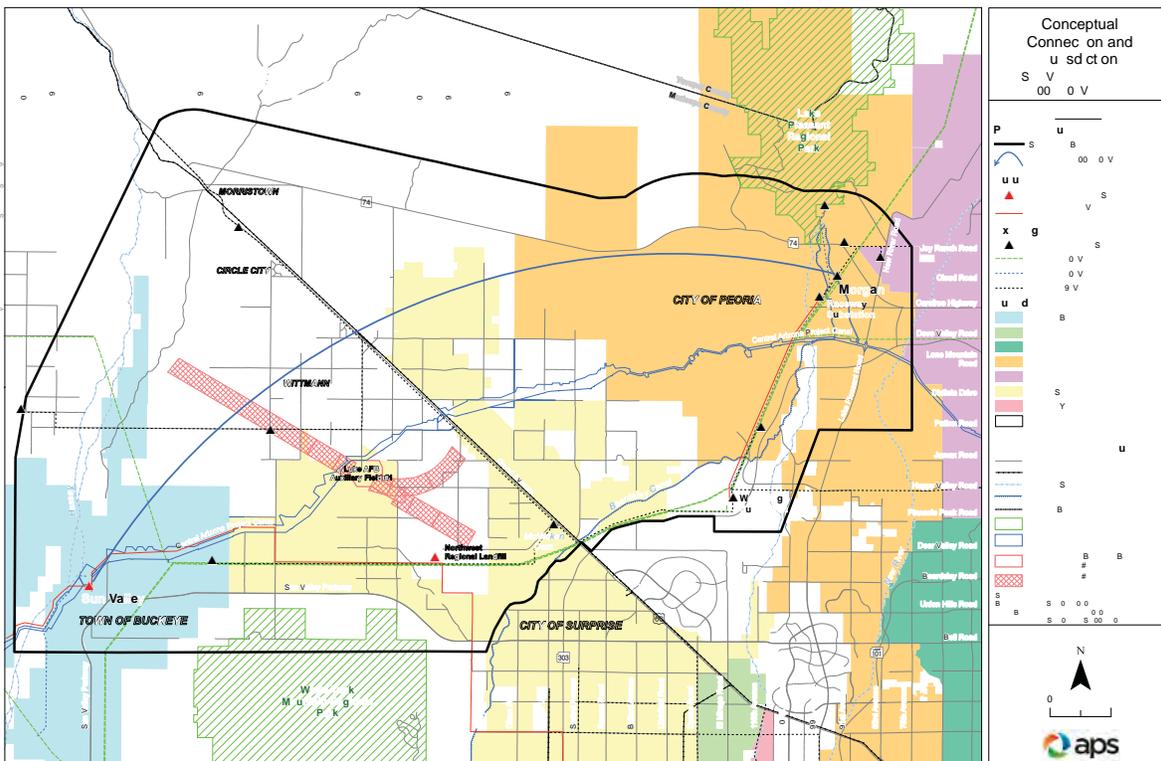
Rationale for the Project

- Completes a continuous 500kV source from Palo Verde to the northeast valley
- Increases capability to move electricity from Palo Verde to the Phoenix metropolitan area by 600MW (enough to supply power to 150,000 residences)
- The project has been identified in APS' Renewable Transmission Action Plan
- Provides added reliability to the region's 500kV system and helps relieve transmission congestion
- The APS transmission system requires a mid-2016 in-service date for the 500kV circuit
- 230kV component provides the transmission backbone for future load serving capability for the northwest valley
- Co-locates 230kV line with 500kV line on same structures, increasing cost savings and reducing environmental impacts while eliminating future 230kV line siting efforts
- Ties together existing and planned 230kV and 69kV systems in the northwest valley

Sun Valley to Morgan 500/230kV Transmission Line Project



Conceptual Connection and Jurisdiction



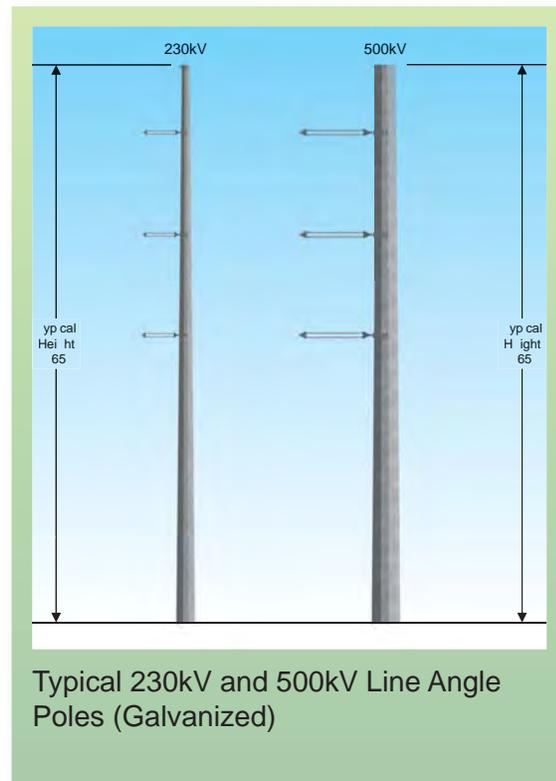
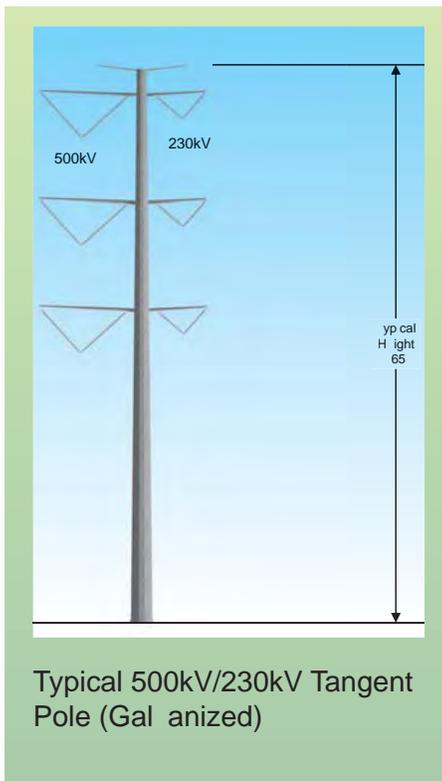
Sun Valley to Morgan 500/230kV Transmission Line Project



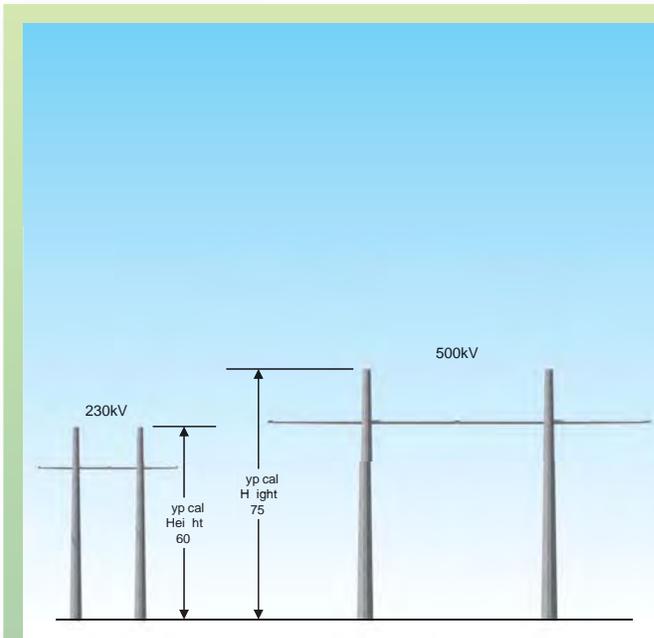
Project Description

■ Line Length	Approximately 40 miles
■ Project Type	Single circuit 500/230kV
■ Structure Type	Tubular pole or lattice
■ Structure Height	135 to 195 feet
■ Span Between Poles	800 to 1,400 feet
■ Right-of-Way Width	200 feet

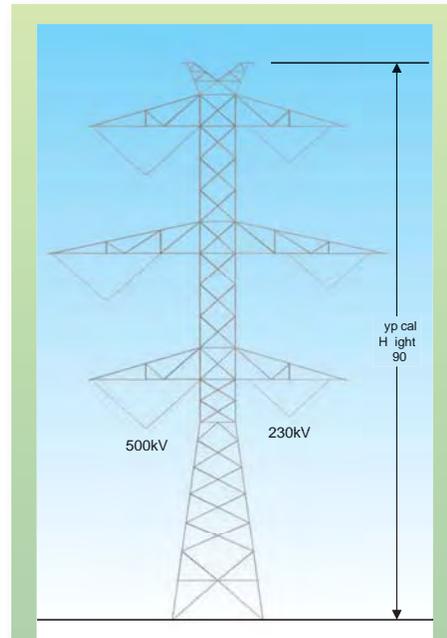
Representative Monopole Structures



Representative H-Frame and Lattice Tower Structures



Typical 230kV and 500kV H-Frame Structure (Galvanized)



Typical Double Circuit 500kV/230kV Tangent Lattice Tower

Sun Valley o Morgan 500/230kV Transmission Line Project



APS Opportunities and Constraints for Siting Transmission Lines

Opportunities

- Existing linear features (roads, canals, transmission line, and other utility corridors)
- Property boundaries or section lines



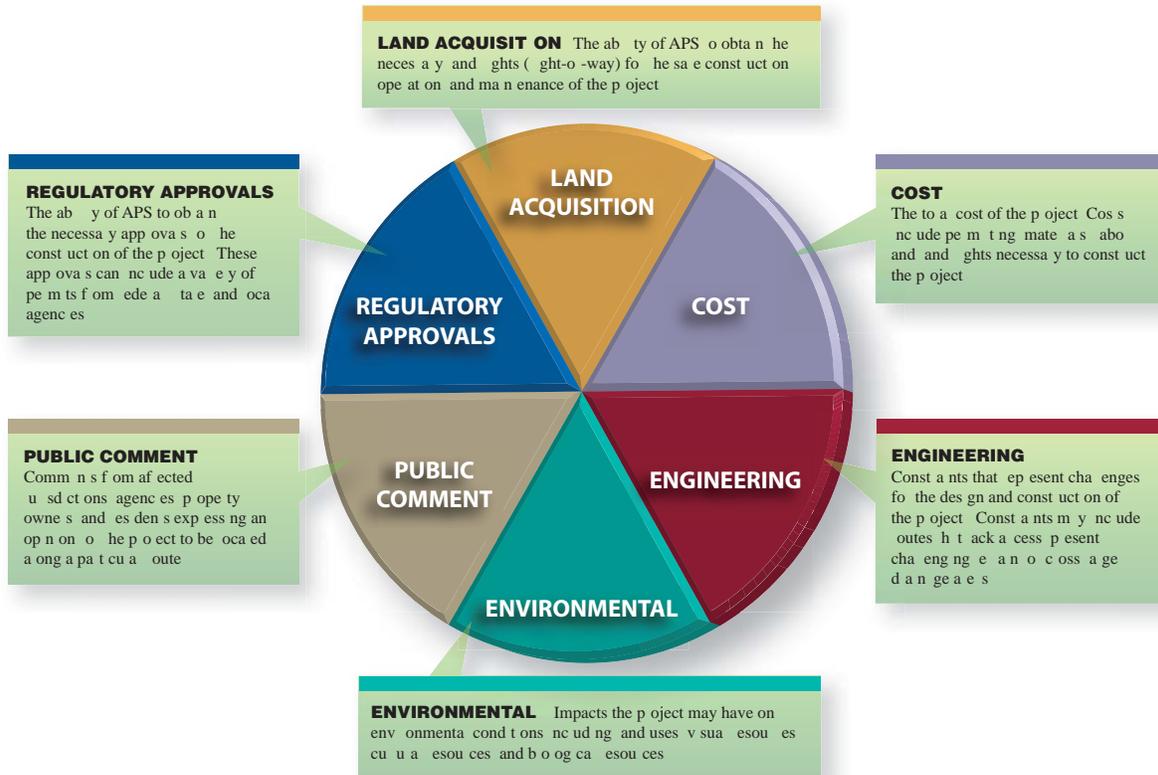
Constraints

- Land uses (schools, parks, airports, or existing residential development)
- Sensitive areas (for scenic, biological, or cultural resources)

Sun Valley o Morgan 500/230kV Transmission Line Project



APS Project Siting Considerations



Sun Valley o Morgan 500/230kV Transmission Line Project



APS Project History and Milestones

- In 2003, the 500kV circuit was first identified in APS' Ten-Year Plan. The 230kV circuit was identified in the 2008 plan.
- In 2007-2008, APS conducted technical, routing, and environmental studies with extensive public involvement.
- APS filed an application for a Certificate of Environmental Compatibility application in July 2008.
- The Arizona Corporation Commission approved a corridor in March 2009 that traversed BLM lands.
- APS filed an application for a right-of-way with the BLM on April 29, 2009.
- In April 2010, the BLM rejected the APS right-of-way application based on non-conformance with the Bradshaw-Harquahala Resource Management Plan (RMP) that was finalized in April 2010.
- In May 2010, APS appealed BLM's rejection of the right-of-way application.
- APS and other stakeholders participated in discussions with BLM between October and December 2010.
- In December 2010, BLM agreed to process the right-of-way application and associated RMP amendment which triggered this EIS process.
- EIS Notice of Intent published on April 11, 2011.

Sun Valley o Morgan 500/230kV Transmission Line Project

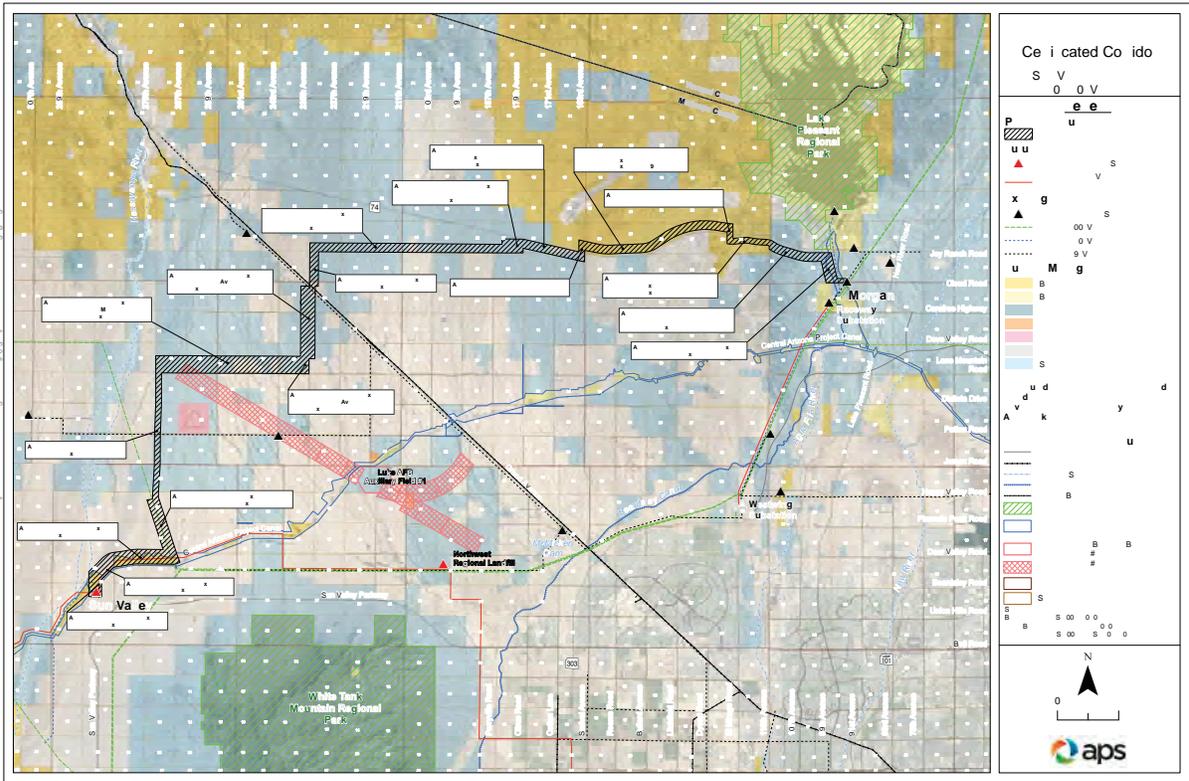


Certificate of Environmental Compatibility Process Summary

- An application for a Certificate of Environmental Compatibility (CEC) was filed in July 2008.
- 16 days of public hearings were conducted before the Arizona Power Plant and Transmission Line Siting Committee.
- 17 interveners were present representing agencies, cities, developers, and homeowner associations.
- APS appeared before the Arizona Corporation Commission (ACC) for 2 days for an open meeting and to hear public comments.
- The ACC approved the CEC in March 2009.



Certificated Corridor



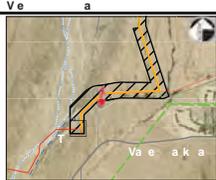
Near the Central Arizona Project Canal and 287th Avenue, Viewing North



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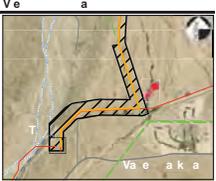
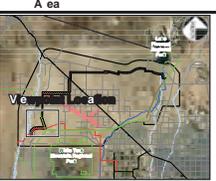
Near Existing Mead Phoenix Transmission Line (North of CAP), Viewing Southwest



E l i t n Con i o s



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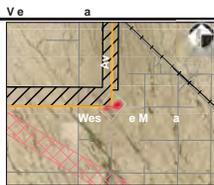
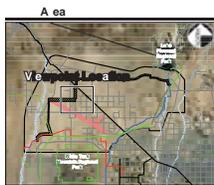
Lone Mountain Road and 235th Avenue, Viewing East



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Sun Val ey o Morgan 500/230kV Transm ss on L ne Project



U.S. 60 Near 235th Avenue, Viewing Northwest



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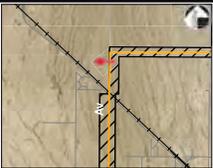
Thunder Ridge Airpark West of 235th Avenue, Viewing East



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4/27/11

Proposed Sun Valley to Morgan 500/230kV Transmission Line Project and Proposed Resource Management Plan Amendment

Break-Out Session Map

April 27, 2011
Wittmann

LEGEND

- Proposed Project Route
- Study Area

Resource Features

Land Ownership

- Bureau of Land Management
- Bureau of Reclamation
- Military
- State Trust
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Reference Features

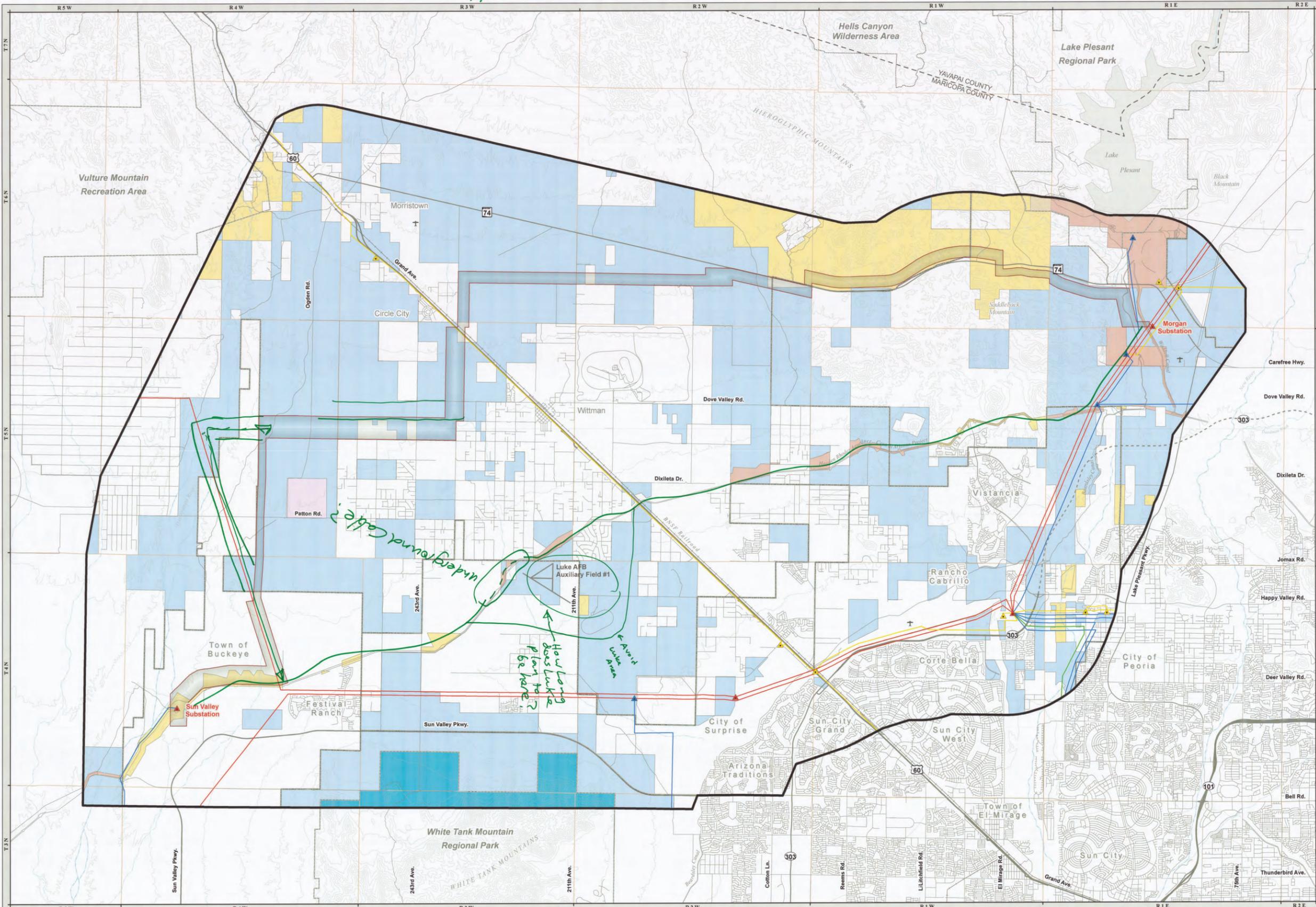
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Sources: Bureau of Land Management 2010; Maricopa County 2011; EPG 2011; ESRI 2010; POWERmap, powermap.platts.com ©2007 Platts, A Division of The McGraw-Hill Companies



April 22, 2011



*Wedge Round Cedar
How long
plans to
be here?*

*R. Avila
Lakes Area*

T7N
T6N
T5N
T4N
T3N
T2N

R5W R4W R3W R2W R1W R1E R2E

4/27/11

WITTMANN

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April 27, 2011
WITTMANN

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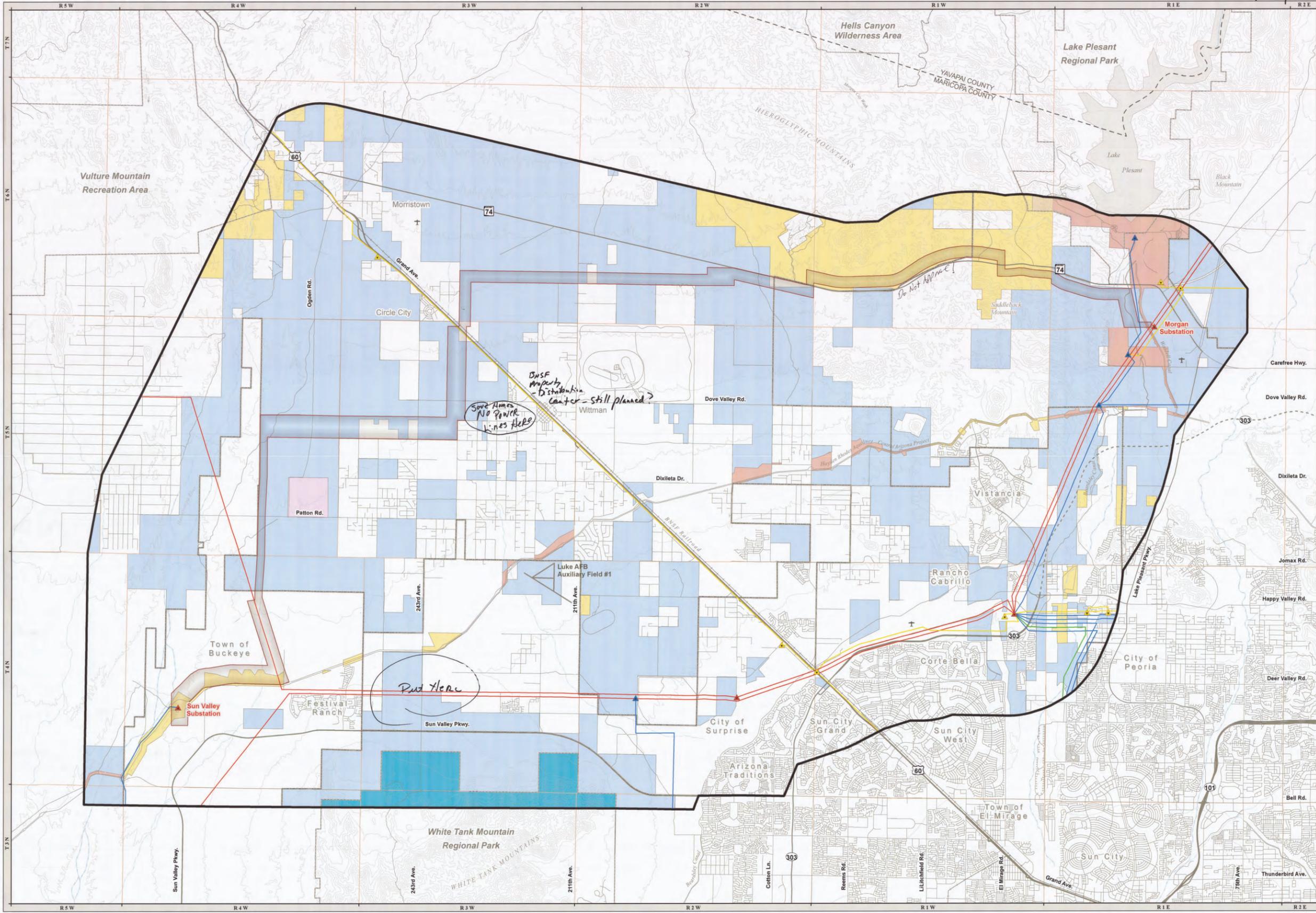
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April 22, 2011



4/27/11

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Break-Out Session Map

*April 27, 2011
Wittman*

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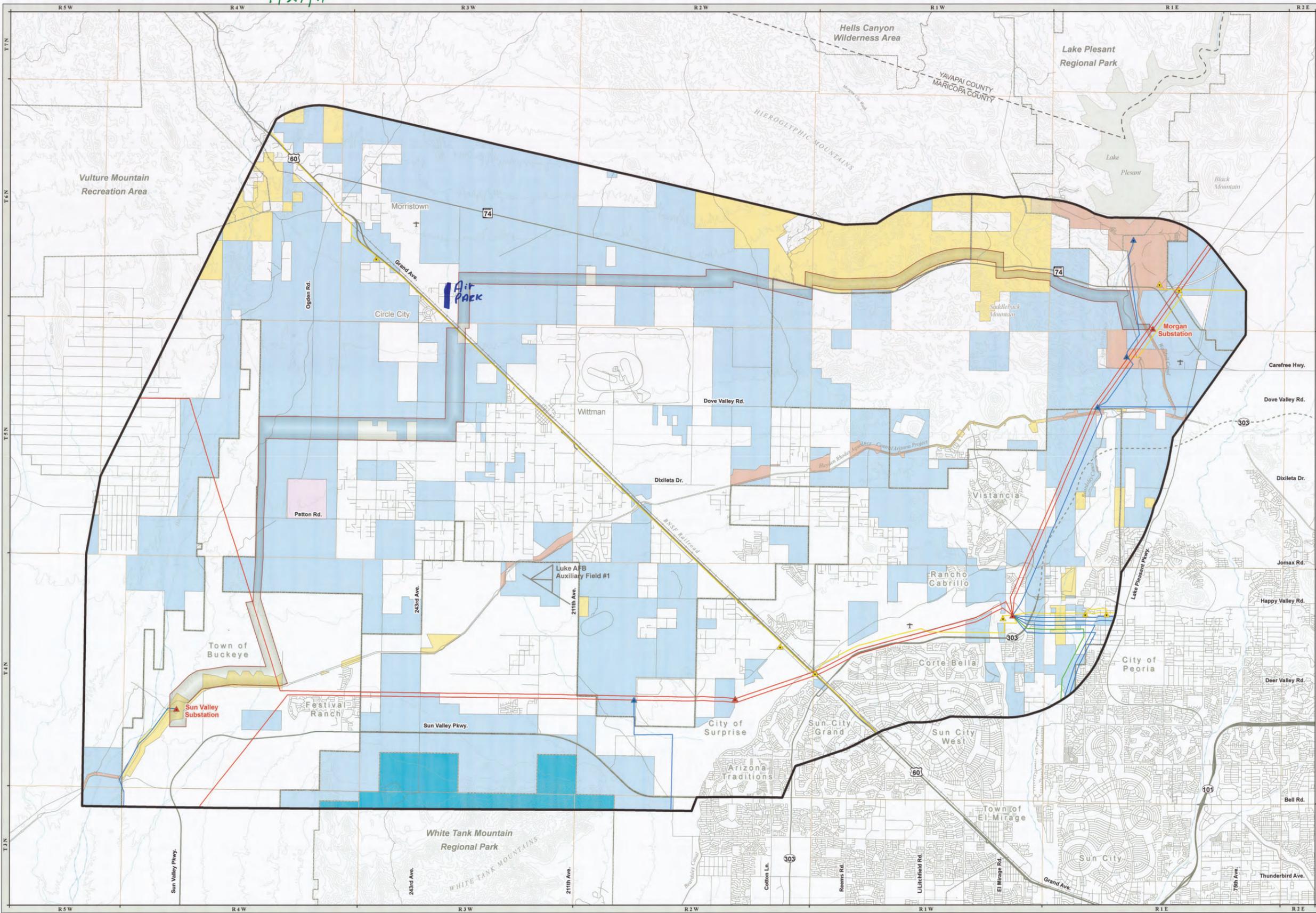
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April 22, 2011



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Break-Out Session Map

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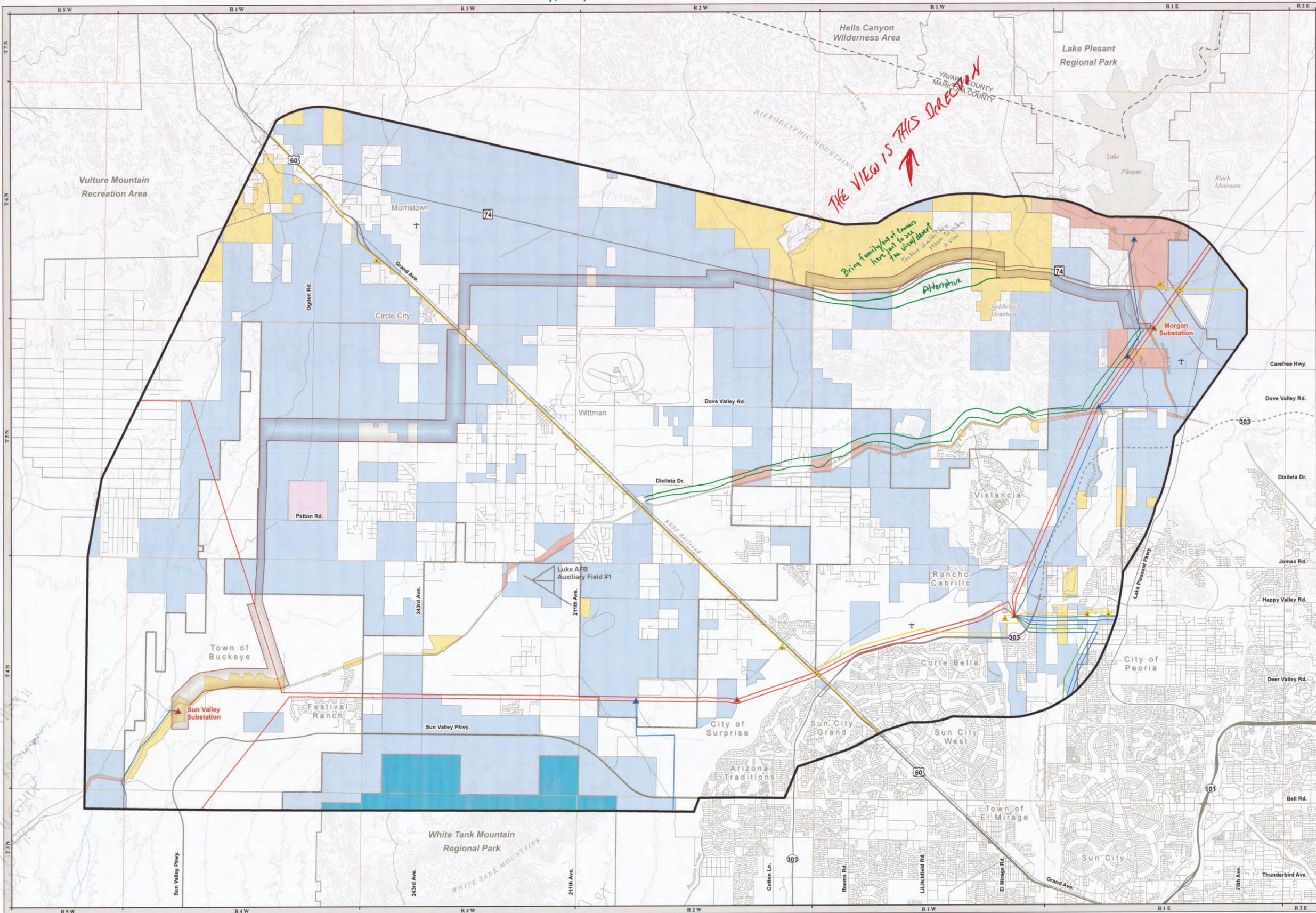
April 22, 2011



The view is this direction

Bring family/out of towners here to just to see the view about 1/2 hour drive to the top of a steep

Alternative



Proposed Sun Valley to Morgan 500/230kV Transmission Line Project and Proposed Resource Management Plan Amendment

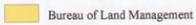
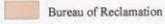
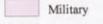
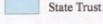
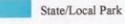
Break-Out Session Map

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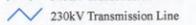
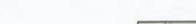
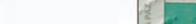
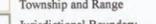
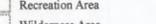
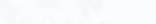
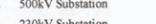
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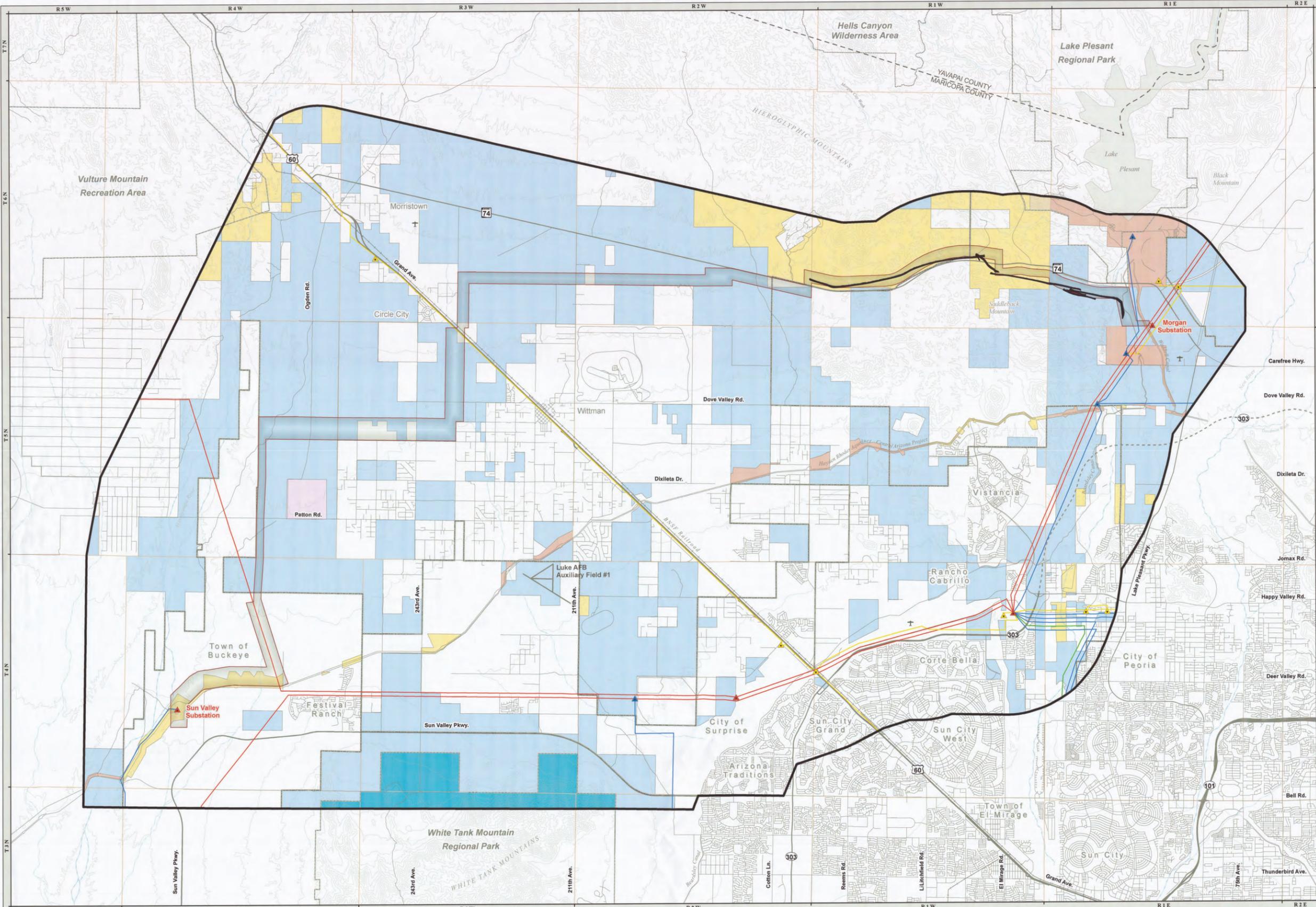
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April 22, 2011



4-28-11
Peoria



Proposed Sun Valley to Morgan 500/230kV Transmission Line Project and Proposed Resource Management Plan Amendment

Break-Out Session Map

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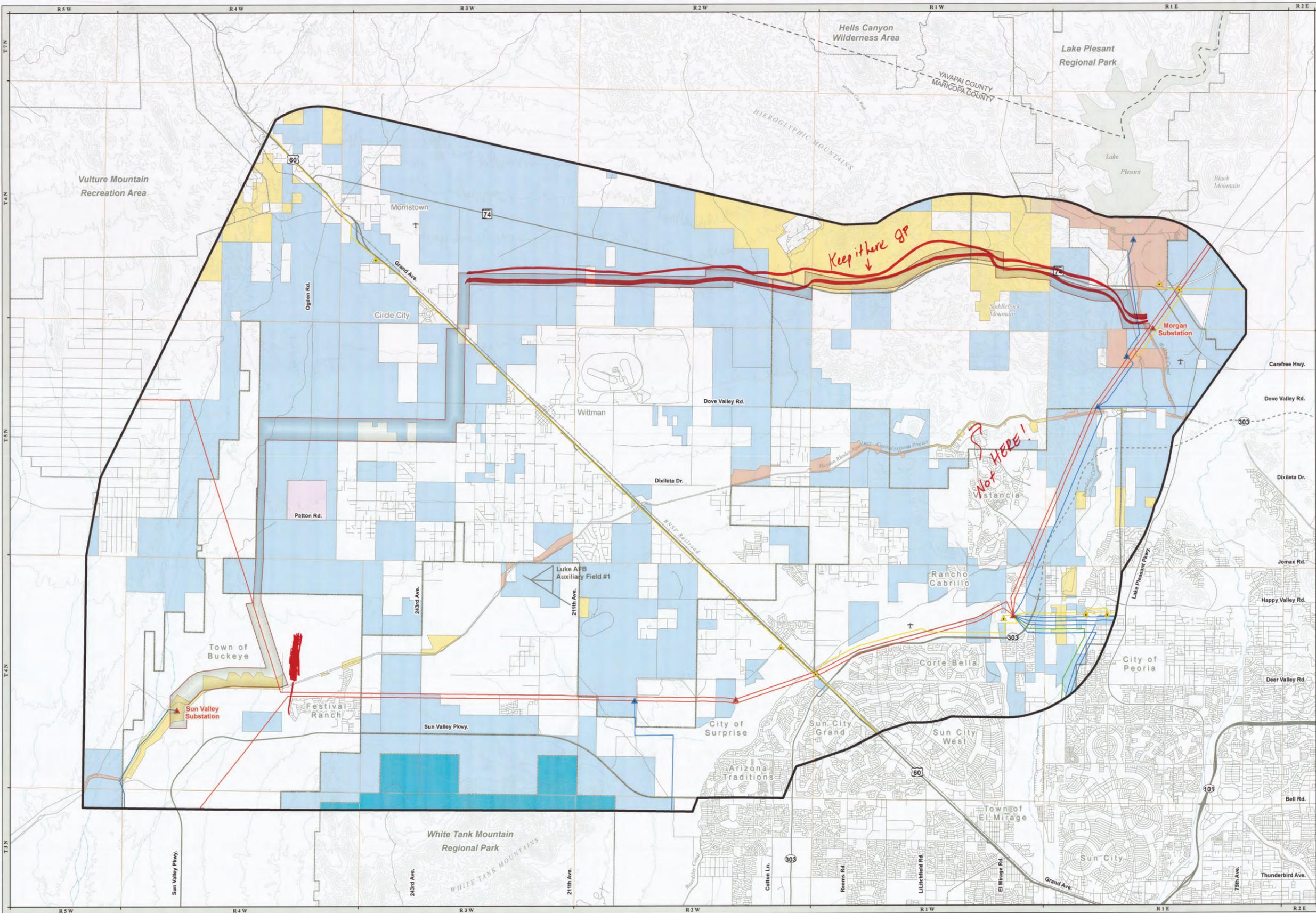
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1/18/17

Peoria

Keep it here GP

NOX HERE!



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April 22, 2011



4/28/2011

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Peoria
4-28-11

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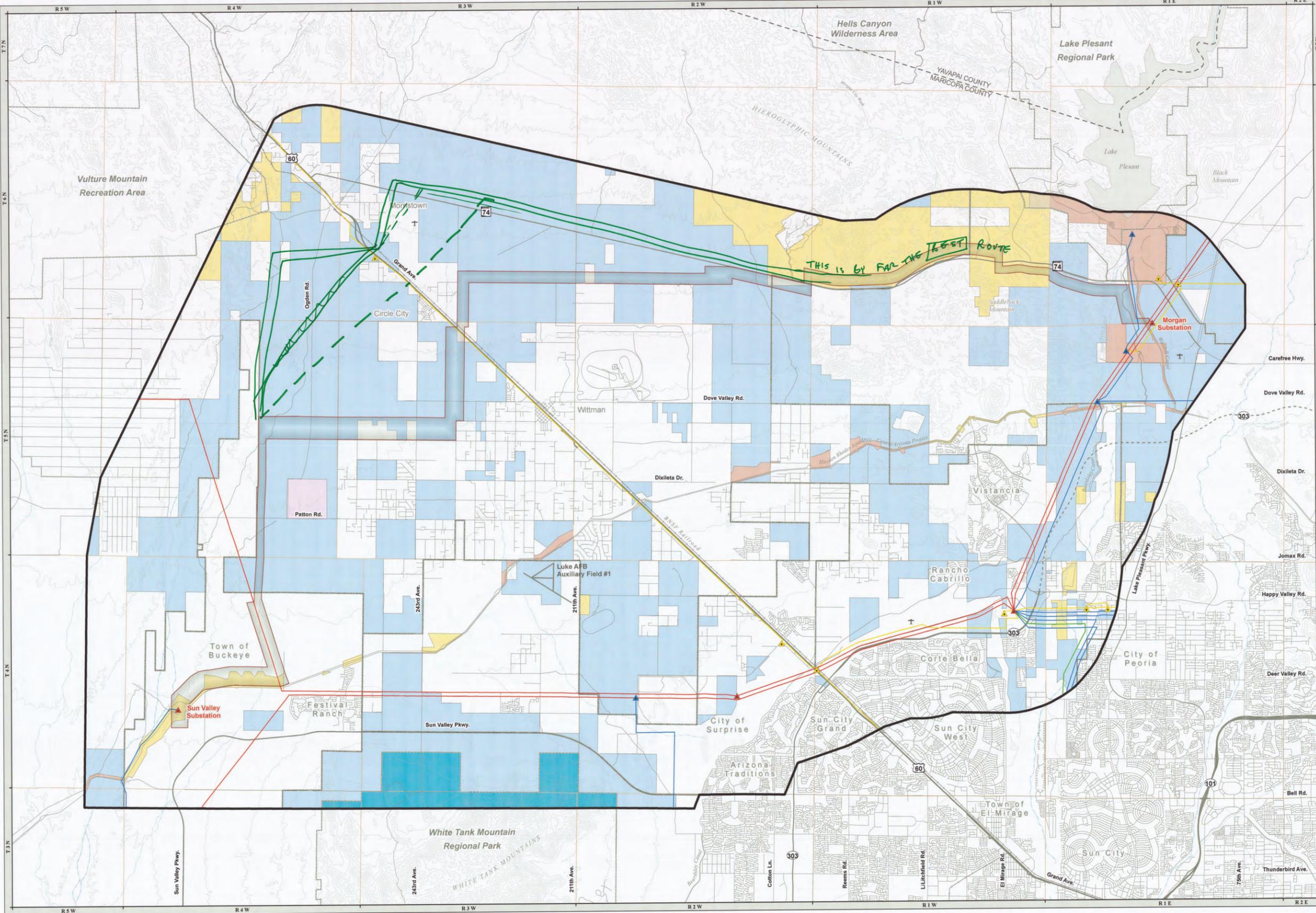
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- Lake Boundary



Sources: Bureau of Land Management 2010; Maricopa County 2011; EPG 2011; ESRI 2010; POWERmap, powermap.platts.com ©2007 Platts, A Division of The McGraw-Hill Companies



April 22, 2011



THIS IS BY FAR THE BEST ROUTE

Proposed Sun Valley to Morgan 500/230kV Transmission Line Project and Proposed Resource Management Plan Amendment

Break-Out Session Map

LEGEND

- Proposed Project Route
- Study Area

Resource Features

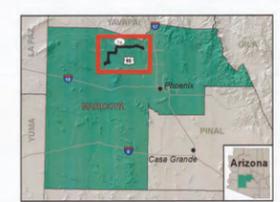
Land Ownership

- Bureau of Land Management
- Bureau of Reclamation
- Military
- State Trust
- County Land
- State/Local Park
- Private

Reference Features

- Airfield/Landing Strip
 - Arterial Street
 - Major Road
 - Under Construction (Loop 303)
 - Railroad
 - River
 - Wash/Stream
 - Contour - Interval 100 feet
 - Township and Range
 - Jurisdictional Boundary
 - County Boundary
 - Recreation Area
 - Wilderness Area
 - Lake Boundary
- Existing Transmission Features
- 500kV Transmission Line
 - 345kV Transmission Line
 - 230kV Transmission Line
 - 69kV Transmission Line
 - 500kV Substation
 - 230kV Substation
 - 69kV Substation
- Note: Transmission lines are offset for graphical purposes.

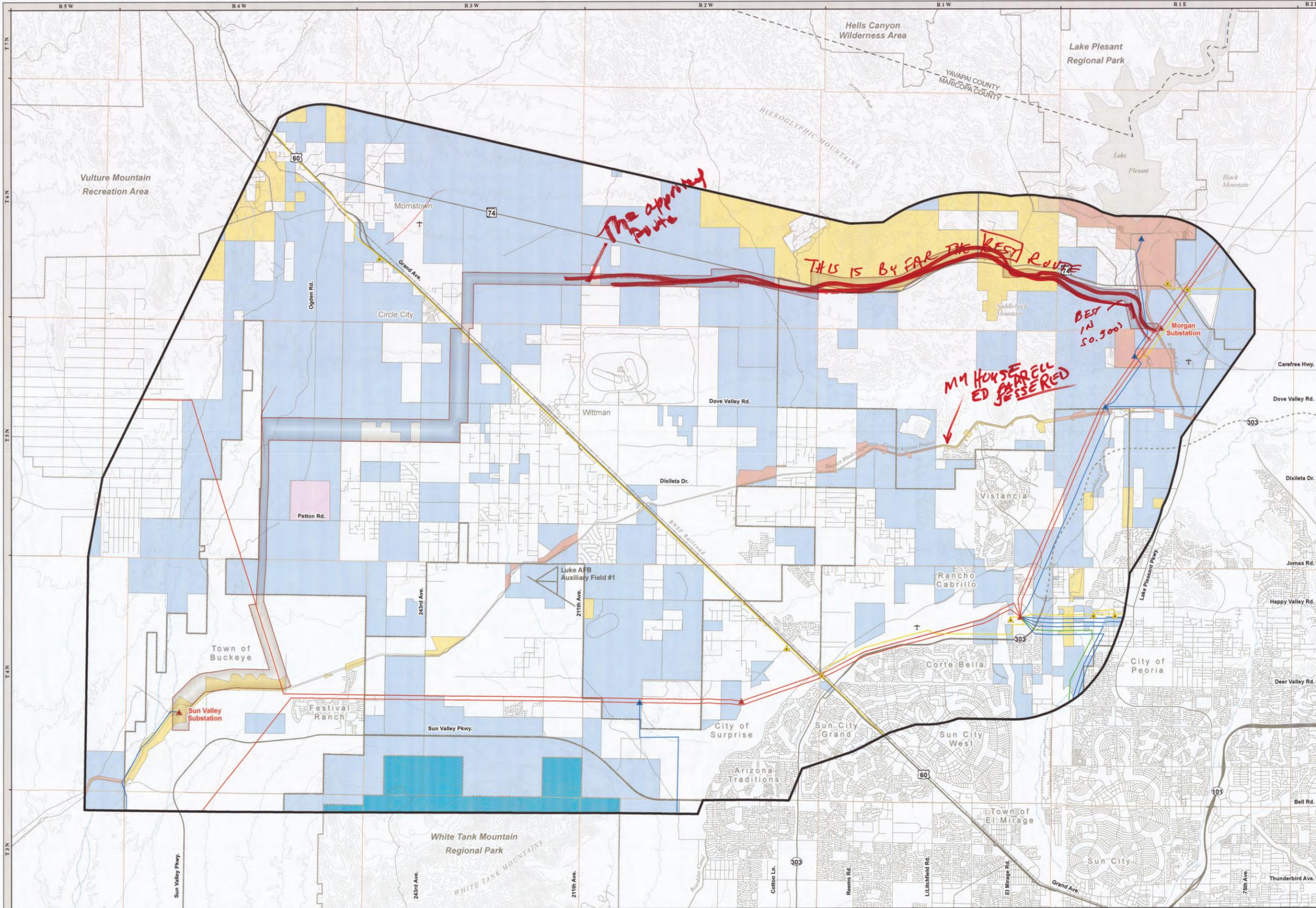
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4-28-11



Sources: Bureau of Land Management 2010; Maricopa County 2011; EPG 2011; ESRI 2010; POWERmap, powermap plats.com ©2007 Platts, A Division of The McGraw-Hill Companies



April 22, 2011



Proposed Sun Valley to Morgan 500/230kV Transmission Line Project and Proposed Resource Management Plan Amendment

Break-Out Session Map

LEGEND

- Proposed Project Route
- Study Area

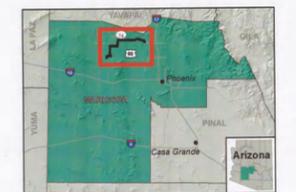
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Land Ownership

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- Military
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Reference Features

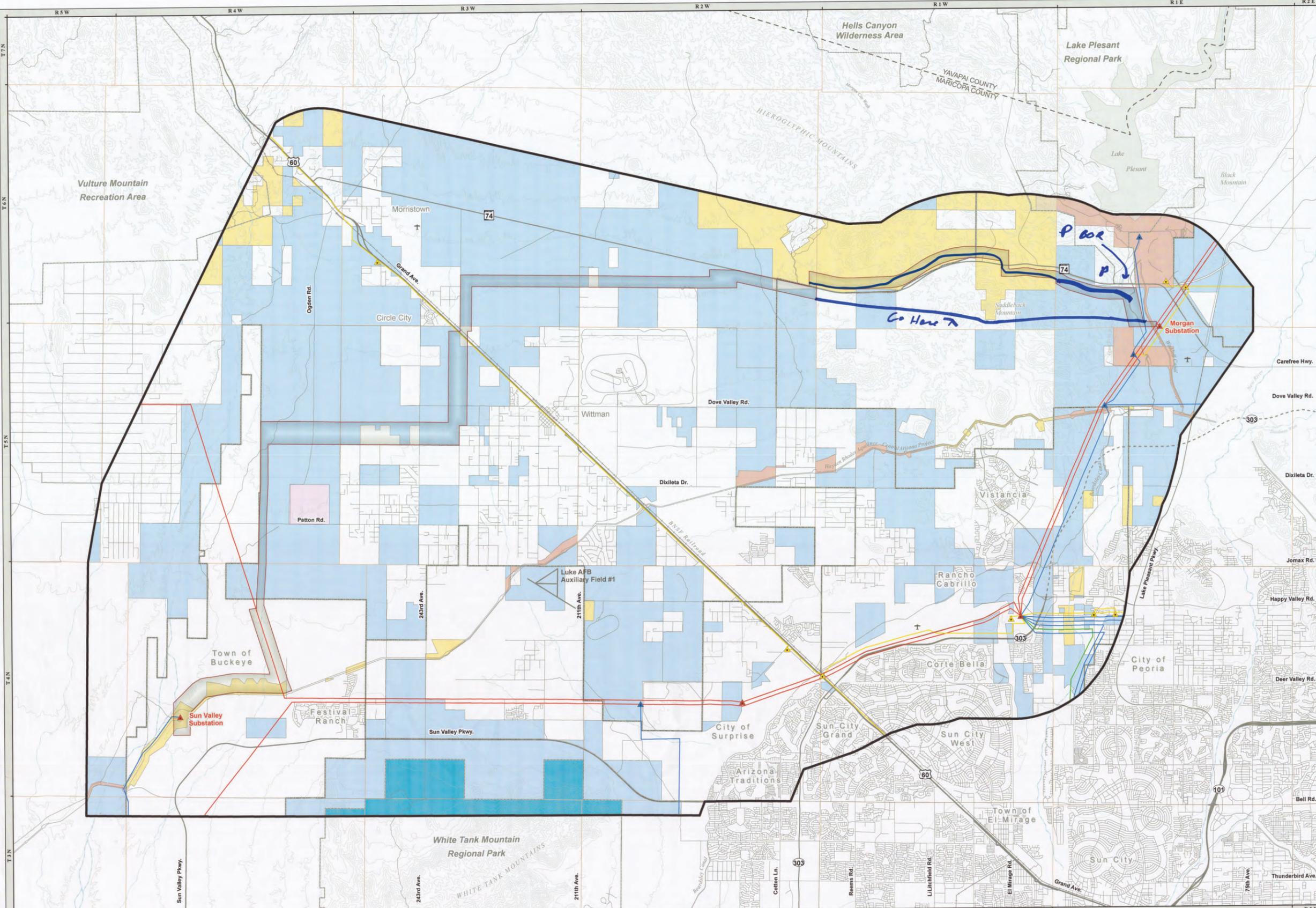
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4-28

Proposed Sun Valley to Morgan 500/230kV Transmission Line Project and Proposed Resource Management Plan Amendment

Break-Out Session Map

LEGEND

- Proposed Project Route
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Resource Features

Land Ownership

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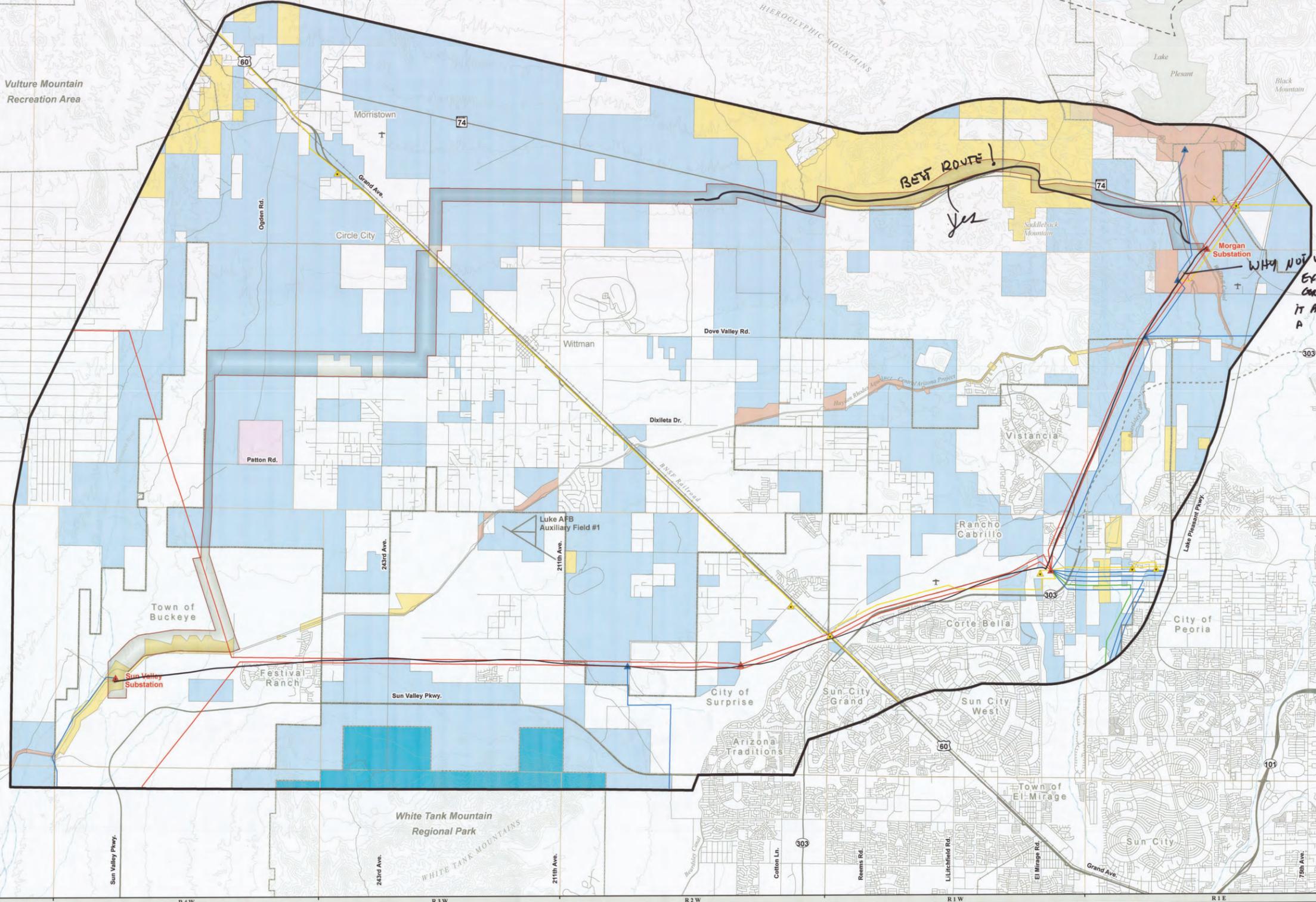
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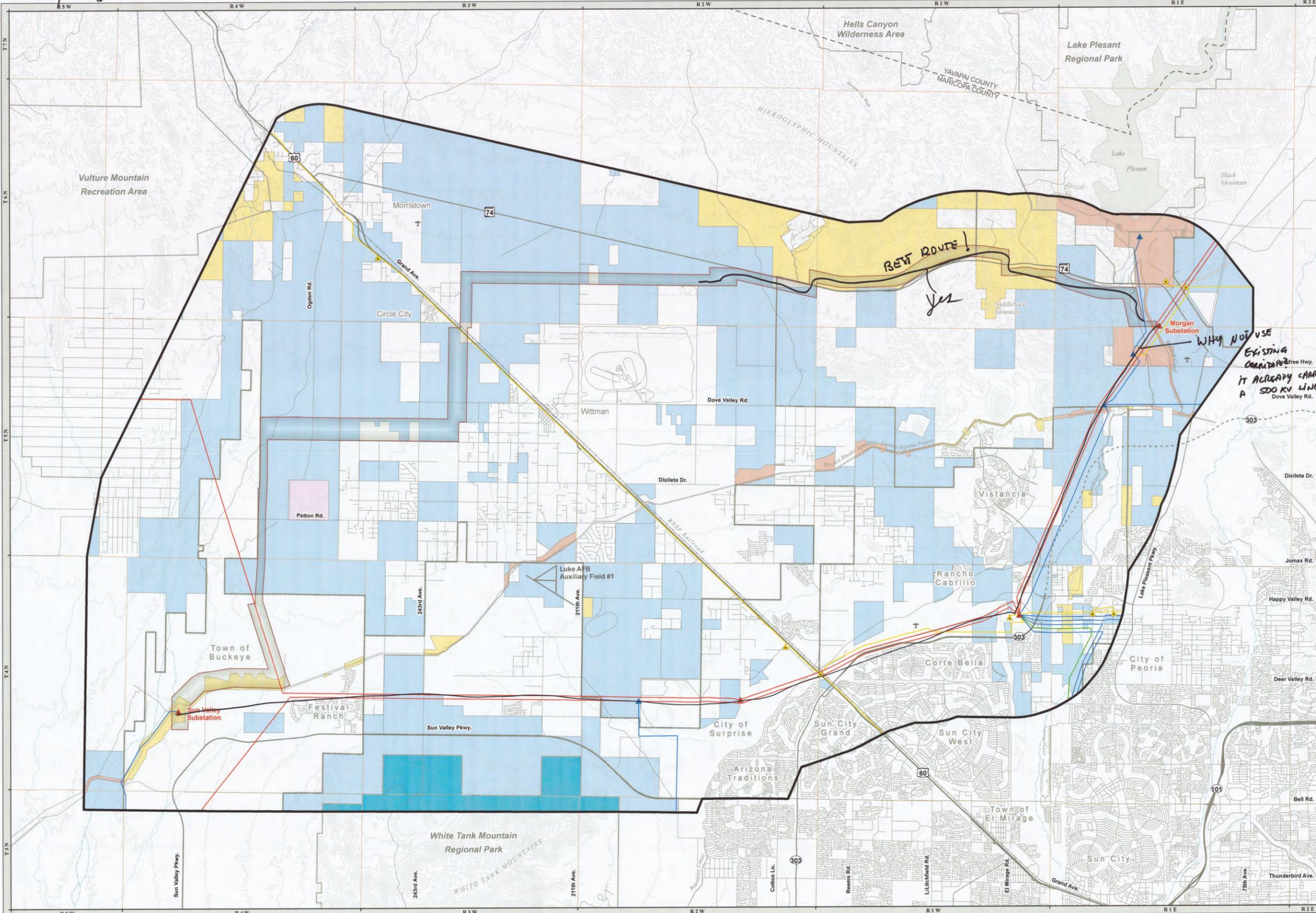
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BEV ROUTE!
yes

WHY NOT USE EXISTING CANDIDATE FREE HWY. IT ALREADY CARRIES A 500 KV LINE. Dove Valley Rd.

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Proposed Sun Valley to Morgan 500/230kV Transmission Line Project and Proposed Resource Management Plan Amendment Break-Out Session Map

LEGEND

- Proposed Project Route
 - Study Area
- MEANS PINK PRIO. PROPOSER'S REPORTS ARE WRONG "Box" - reclamation*

Resource Features

- #### Land Ownership
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 - Bureau of Reclamation
 - Military
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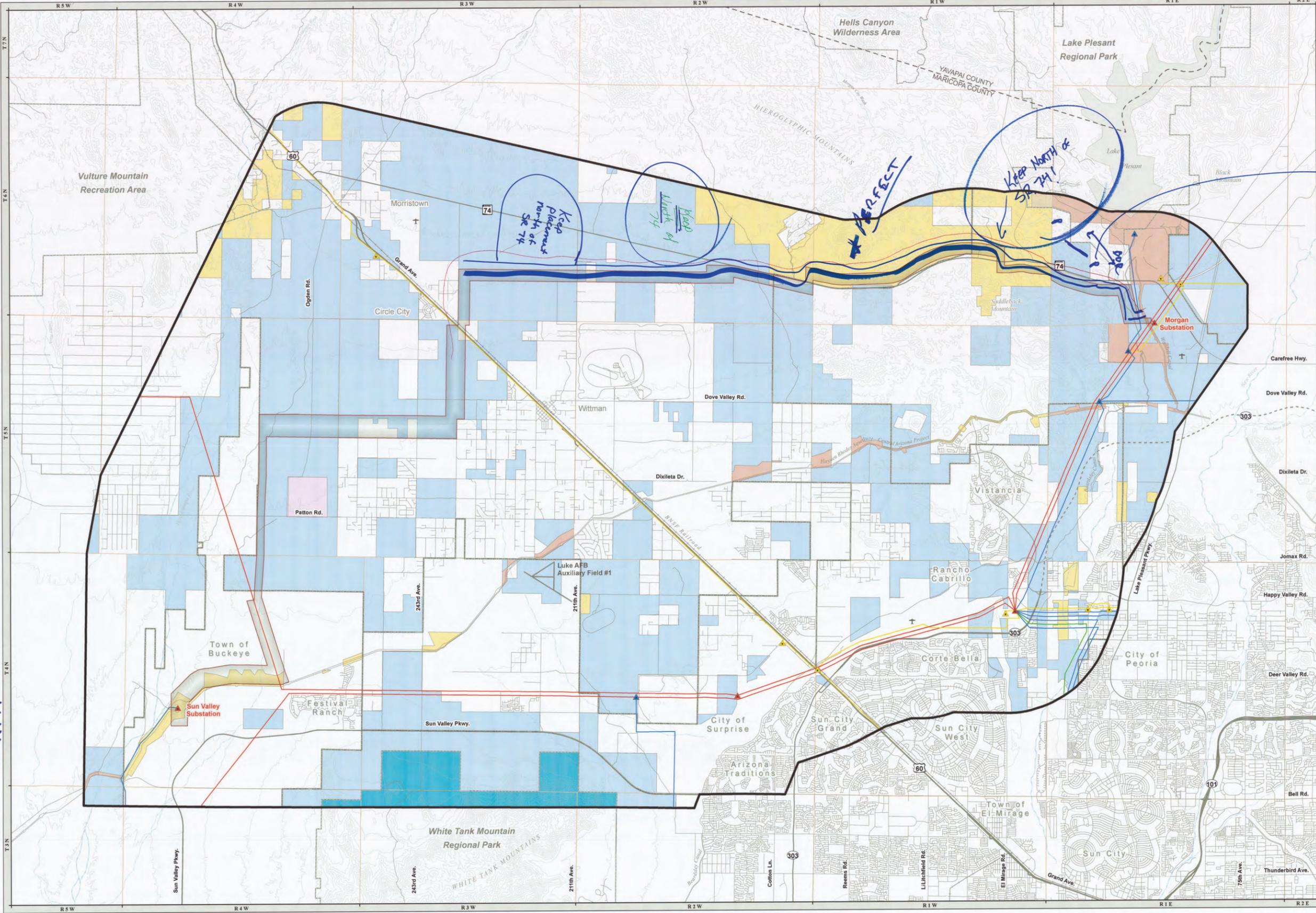


Writing

ALT: why not go all way out (west) on SR 74 taking Morrison Hwy then to town

4/25/11

Q: what is dist. (miles) from Vistancia to APS original pref. route v. New preferred v. South of SR 74 - would they see it in all 3



Keep Placement north of SR 74

loop north of SR 74

PERFECT

Keep north of SR 74

94

Proposed Sun Valley to Morgan 500/230kV Transmission Line Project and Proposed Resource Management Plan Amendment *Break-Out Session Map*

LEGEND

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*UNDERGROUND
LINES ON
BLM LAND
EITHER N. OR S
OF HIGHWAY*

