

Rosemont Copper Project EIS

Cooperating Agency Coordination Meeting 08/20/2009

Agenda

Location: Federal Building, 300 West Congress, Tucson, Arizona, Room 4B

Facilitator: Teresa Ann Ciapusci, Cooperating Agency Liaison

AGENDA

09:30 – 09:45	Welcome and Introductions	Ciapusci
09:45 – 10:15	Overview of IDT Conceptual Alternative Development Progress	Roth EIS Process Manager
10:15 – 10:30	BREAK	
10:30 – 11:30	Electrical Transmission Considerations	Weinstein & Wood EPG Consultants Beck Tucson Electric Power
11:30 – 12:30	LUNCH	
12:30 – 2:00	Optional Workshop Forest and EPG Consultants will host workstations to display materials and discuss the conceptual alternatives and electrical transmission routing	

INVITED COOPERATING AGENCIES

Tribes: Tohono O’odham Nation
Federal: Air Force, Army COE, BLM, Smithsonian Whipple Observatory
State of Arizona: ADEQ, AMMR, ADWR, AZGF, AZGS, AZSLD, AZSP
Local: Pima County, City of Tucson, Town of Sahuarita

INVITED GUESTS

Presenters: EPG Consultants: Lauren Weinstein, Jaime Wood
Tucson Electric Power Company: Ed Beck

Consultants: Cheniae & Associates: Gordon Cheniae

Rosemont Copper Project EIS

Cooperating Agency Coordination Meeting 08/20/2009

Meeting Notes

<p>Welcoming Remarks</p> <p>Discussion:</p>	<p>Teresa Ann Ciapusci</p>
<p>⇒ Agencies in attendance received a CD copy of Scoping Reports 1 and 2</p> <p>⇒ Described the “self-registration” feature added to the www.RosemontEIS.us website by the webmaster to facilitate use by cooperating agencies and the public</p>	
<p>Overview of IDT Conceptual Alternative Development Progress</p> <p>Discussion:</p>	<p>Mindee Roth</p>
<p>⇒ PowerPoint Presentation: Conceptual Alternatives</p> <p>⇒ Provided overview of the interdisciplinary teams’ work to date on developing alternatives to the proposed action, including development of mitigation and revisions to some potential alternative elements presented to the cooperating agencies at the July 2009 coordination meeting</p>	
<p>Action items:</p> <p>Teresa Ann and Mindee informed the cooperating agencies that the period for cooperating agencies to submit formal comments on the preliminary alternatives had been extended due to delays in posting needed materials to the RosemontEIS website. Informed cooperating agencies they would be receiving a letter requesting agency comments, in writing on agency letterhead, by August 28, 2009.</p>	
<p>Electrical Transmission Considerations</p> <p>Discussion:</p>	<p>EPG Consultants</p> <p>Lauren Weinstein and Jaime Wood</p>
<p>⇒ Presentation on potential electrical transmission routes and formats for receiving cooperating agency and public comments, including question and answer period</p> <p>⇒ Projected copies of 3 documents:</p> <ol style="list-style-type: none"> 1. Jurisdiction with Preliminary Transmission Line Links 2. Rosemont Jurisdiction <p>Rosemont Transmission Line Planning Process</p> <p>⇒ Handout: TEP/EPG Newsletter 2</p>	
<p>Workshop: Alternative Development Interdisciplinary Team and TEP/EPG</p> <p>Discussion:</p> <p>⇒ Map stations (one per preliminary alternative) hosted by interdisciplinary team members for informal discussion with cooperating agencies regarding elements of the preliminary alternatives</p> <p>⇒ Map station hosted by TEP and EPG representatives for informal discussion with cooperating agencies regarding potential electrical transmission links and routes</p>	

Attendance Record

Initial to Acknowledge Receipt of CD copy of Scoping Reports 1 & 2	Cooperating Agencies	Participant(s)
UB	Tohono O'odham Nation	Addison Smith Laura Bergion <i>Pete + Dees</i>
MA	Air Force, 162d Fighter Airwing	MARK HARTING
<i>JWS</i>	Army Corps of Engineers	JESSE LAURIE <i>J.W.S.</i>
Jst	USDI BLM	Linda Hughes
CF	Smithsonian Institution	EMILIO FALCO

**Rosemont Copper Project
Cooperating Agency Meeting
August 20, 2009**

Initial to Acknowledge Receipt of CD copy of Scoping Reports 1 & 2	Cooperating Agencies	Participant(s)
DLT	AZ Dept of Environmental Quality	DENNIS TURNER
	AZ Dept of Mines and Mineral Resources	CALLED IN ADVANCE - UNAVAILABLE
	AZ Department of Transportation	
Lef	AZ Dept of Water Resources	Lana Grigoriou
ju	AZ Game and Fish Department	Jan D. Wilcox DIANE TILTON

**Rosemont Copper Project
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Initial to Acknowledge Receipt of CD copy of Scoping Reports 1 & 2	Cooperating Agencies	Participant(s)
G.S	AZ Geological Survey	JUN SPENCER
DJ	AZ State Land Department	David Jal
BEF	AZ State Mine Inspector	Garrett Fleming
ARC	AZ State Parks	Robert Casanova
	City of Tucson	

**Rosemont Copper Project
Cooperating Agency Meeting
August 20, 2009**

Initial to Acknowledge Receipt of CD copy of Scoping Reports 1 & 2	Cooperating Agencies	Participant(s)
ML	Pima County	Niche Flynn - Rosemont Linda MAYRO, Cult. Res.
J	Town of Sahuarita	Joe Marques

Resonance

Attendance Record

Guests	Affiliation
<i>G.L. Cheniae</i>	Cheniae & Associates (Contractor for Rosemont Copper Company)
<i>Lauren Weinstein Jaime Wood</i>	EPG Consultants (Contractor for Rosemont Copper Company and Tucson Electric Power Company)
<i>Ed Beck</i>	Tucson Electric Power Company

Tom Ferguson

SUCA

Julia Fonder

Augustine Toro

*Tohono O'odham Nation
Director Natural Resources*

**Rosemont Copper Project
Cooperating Agency Meeting
August 20, 2009**

Attendance Record

Cooperating Agencies	Participant(s)
Tohono O'odham Nation	Addison Smith Laura Berglan Peter Steere Augustine Toro
Air Force, 162d Fighter Airwing	Mark Harting
Army Corps of Engineers	Jesse Laurie J.W. (illegible)
USDI BLM	Linda Hughes
Smithsonian Institution	Emilio Falco
AZ Dept of Environmental Quality	Dennis Turner
AZ Dept of Mines and Mineral Resources	Advance notification - unavailable
AZ Department of Transportation	
AZ Dept of Water Resources	Laura Grignano
AZ Game and Fish Department	John Windes Diane Tilton
AZ Geological Survey	Jon Spencer
AZ State Land Department	David Jacobs
AZ State Mine Inspector	Garrett Fleming
AZ State Parks	Robert Casavant
City of Tucson	

**Rosemont Copper Project
Cooperating Agency Meeting
August 20, 2009**

Cooperating Agencies	Participant(s)
Pima County	Nicole Fyffe Loy Neff Linda Mayro Julia Fonseca
Town of Sahaurita	Joe Marques

Attendance Record

Guests	Affiliation
G.L. Cheniae	Cheniae & Associates (Contractor for Rosemont Copper Company)
Lauren Weinstein Jaime Wood	EPG Consultants (Contractor for Rosemont Copper Company and Tucson Electric Power Company)
Ed Beck	Tucson Electric Power Company
Tom Furgason	SWCA Environmental Consultants



Rosemont Copper Project

Conceptual Alternatives
Presented to Cooperating Agencies
August 20, 2009

Alternative Development Process



- **Purpose and Need**
- **Proposed Action**
- **Public Scoping**
- **Issues**
- **Alternatives**



Rosemont Copper Project
Conceptual Alternatives
Presented at Cooperating Agency Coordination Meeting
August 20, 2009



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Issues Driving Alternatives

- **Water**
- **Heritage Resources**
- **Visual**
- **Riparian**
- **Recreation**
- **Plants and Animals**

Rosemont Copper Project
Conceptual Alternatives
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Issues Focusing Analysis

- **Air**
- **Night Skies**
- **Noise and Vibration**
- **Transportation**
- **Reclamation Plan**
- **Soils**

Rosemont Copper Project
Conceptual Alternatives
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August 20, 2009



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Conceptual Alternatives



- **Proposed Action**
- **No Action**
- **Barrel/McCleary - Phased Tailings**
- **Scholefield/McCleary**
- **Sycamore/Upper McCleary/Upper Barrel**
- **Upper Barrel**

Post-Meeting Correction: For geographical accuracy, "Upper Barrel" name changed to "Barrel Only".



Rosemont Copper Project
Conceptual Alternatives
Presented at Cooperating Agency Coordination Meeting
August 20, 2009



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Barrel/McCleary – Phased Tailings



- **Similar Footprint to Proposed Action**
 - **Important Archaeological Sites**
 - **2 Drainages**
- ▶ **No Change to Riparian Acres**
 - **Phased Tailings, McCleary Remains Open for 12 Years**
- **Waste Rock Elevation 20 ft. Higher Than Proposed Action**
- **No Change in Haul Distance**



Rosemont Copper Project
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August 20, 2009



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Scholefield/McCleary



- **Tails to Scholefield, Waste to McCleary**
 - Avoids Important Archaeological Sites
- **Reduced Riparian Acres**
 - 2 Drainages
- **Waste Rock Elevation 700 ft. Higher Than Proposed Action**
 - Much Higher, Less Visual Contrast
- **Increased Haul Distance ~ 12.3%**



Rosemont Copper Project
 Conceptual Alternatives
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 August 20, 2009



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Sycamore/Upper McCleary/Upper Barrel



- **Tails to Sycamore, Waste to McCleary and Barrel**
 - Avoids Important Archaeological Sites
 - Area Experiences Less Recreation
- **Reduced Riparian Acres**
 - 3 Drainages
 - 2 Watersheds
- **Waste Rock Elevation 50 ft. Higher Than Proposed Action**
 - Affects View from West, Farther Away
- **Increased Haul Distance ~ 28.8%**



Rosemont Copper Project
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 August 20, 2009



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Upper Barrel

Post-Meeting Correction:
For geographical accuracy,
"Upper Barrel" name
changed to "Barrel Only".



- **All Waste in Upper Barrel Drainage**

- **Avoids Important Archaeological Sites**

Meeting Correction: This alternative does not avoid important archaeological sites.

- **Reduced Riparian Acres**

- **Contained in one drainage**

- **Waste Rock Elevations 250 ft. Higher than Proposed Action**

- **Increased Haul Distance ~5.4 - 8.4%**



Rosemont Copper Project
Conceptual Alternatives
Presented at Cooperating Agency Coordination Meeting
August 20, 2009



Introduction

This newsletter is the second in a series concerning Tucson Electric Power's (TEP's) plan to build a new 138 kilovolt (kV) transmission line in Pima County. The new transmission line has been requested by Rosemont Copper Company (Rosemont) to serve its proposed mining operations southeast of Tucson. The proposed transmission line is expected to be in service in time to meet the needs of the proposed Rosemont operations.

Project Summary

After conducting detailed electrical system engineering studies, TEP has concluded that the line should connect to TEP's existing transmission system at a proposed switchyard located about 3.5 miles east of Interstate 19 and 3 miles south of Sahuarita Road (see the enclosed map). The project study area has been updated to more closely correspond with the vicinity of potential transmission line link alternatives originating at that location.

To satisfy Rosemont's initial need for power to construct its facilities, TEP plans to build a 138kV line to the proposed Rosemont Substation from its Greaterville Substation, which is tied to an existing 46kV line. Since that link could not provide enough power for Rosemont's long-term operations, those needs would be met by a 138kV transmission line that originates at the proposed switchyard and extends to the proposed Rosemont Substation either through the connection at the Greaterville Substation or via another route.

No existing TEP transmission lines are capable of providing the requested service in the vicinity of Rosemont's proposed operations.

Preliminary Routing Options

TEP has identified a number of preliminary transmission line segments, or links, that could be combined to form complete routes for the proposed transmission line. These alternative links are shown on the map included with this newsletter. *Please note that all links are preliminary and may be modified based on agency and public input.*

In identifying these alternative links, TEP and its consultant, EPG, reviewed public input and environmental data collected for the project area. Areas or resources identified as more sensitive (less desirable) for the project include but are not limited to:

- Existing and approved future residential areas, schools, and parks
- Scenic landscapes or corridors, including trails and designated scenic routes
- Sensitive cultural/archaeological sites, plants, and wildlife

Areas identified as opportunities (more desirable) for a transmission line route include:

- Industrial parks or commercial retail areas
- Existing and future transmission lines and pipelines (water)
- Existing or future highways, roads, and railroads
- Major property boundaries such as section lines

TEP will continue to complete environmental and engineering studies on each of the preliminary transmission line links. TEP also will consider comments received from the public before identifying preferred and alternative routes.

TEP requires approval from the Arizona Corporation Commission (ACC) to build and operate the two components (i.e., power for construction and operation) of its proposed transmission line. TEP will request that the ACC approve a 500-foot-wide corridor for the project that will allow TEP flexibility during design and negotiation with landowners. TEP will acquire rights to build the line along a 100-foot right-of-way within the boundaries of that corridor.

Public Comments Received

TEP has been meeting with various agencies, regional stakeholders and the general public to discuss the proposed transmission line, collect environmental data, and identify preliminary issues and concerns within the project study area. Information about the project also has been made available on TEP's Web site and in a newsletter mailed to area residents. The following answers address common questions raised in response to those outreach efforts.

Where will TEP build the proposed transmission line?

Please see the attached map to review the potential transmission line segments, or links, that could be incorporated in the final route approved by the ACC. TEP is currently undertaking a planning and public involvement process to identify potential routes.

Upon completion of this process, TEP expects to propose one or more potential routes for the ACC's review.

Is Rosemont paying for the transmission line siting study?

Yes. Like any customer requesting service at the transmission voltage level, Rosemont is paying for the transmission siting study. The transmission line is being designed to serve Rosemont's needs, and it will not be built if Rosemont does not proceed with its proposed plan of operations.

Will the existing utility rates increase because of this proposed project?

Because Rosemont would pay the costs associated with building this transmission line, the project would not contribute to an increase in TEP's base rates.

What effect will the proposed transmission line have on property values or taxes?

TEP cannot determine with any certainty whether construction of this proposed line will have any lasting effect on the value of nearby property. TEP has reviewed studies that have linked other transmission line projects to a temporary reduction in nearby property values. However, those studies also indicated that the effect diminished with time, and other studies have found no effect at all.

Is it possible to build the proposed transmission line underground?

It would not be practical to build this proposed transmission line underground. In addition to a significantly higher cost, an underground line would disturb more land and could create greater potential environmental impacts than an overhead line. It is more typical to locate lower-voltage distribution lines underground in populated areas.

Has Rosemont received final approval for its proposed mining operations?

No. The U.S. Forest Service is currently reviewing Rosemont's proposal and is

expected to issue a Draft Environmental Impact Statement on that project in the fourth quarter of 2009.

What is the source of the power that will serve the Rosemont operations?

Rosemont operations would be served from TEP's resource portfolio, which includes a mix of company-owned generation and power supply contracts. Rosemont needs will be met with a mix of energy from existing resources, new natural gas-fired plants, or renewable resources.

Is it possible to upgrade the existing Greaterville Substation and extend the new transmission line north to the proposed Rosemont Substation?

TEP is considering potential links that would involve the Greaterville Substation.

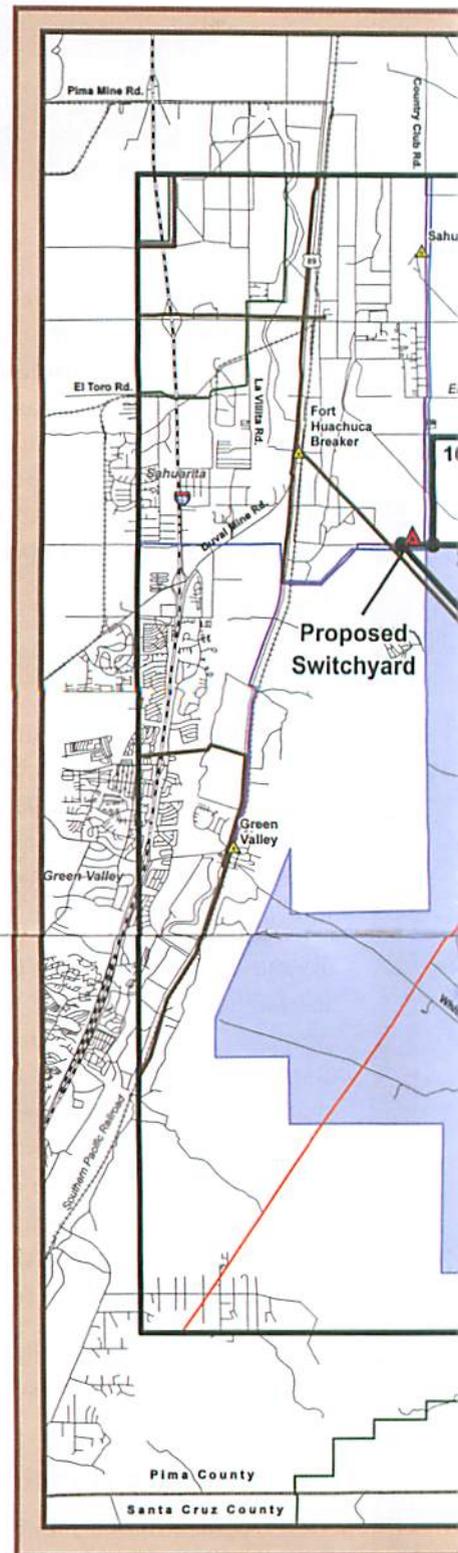
Public Participation

TEP is seeking public input on the preliminary transmission line links and other aspects of this project. Please take a few moments to share your thoughts using the enclosed comment form, which should be returned by September 18, 2009.

You also are invited to attend the second public information open house meeting on this project that will be held Thursday, August 27, from 5:30 to 7:30 p.m. at the Rancho Resort Clubhouse, 15900 South Rancho Resort Boulevard in Sahuarita. During this meeting, TEP will provide information and answer questions about the project. The meeting will be in an open house format with display boards and an opportunity for discussion.

Contact Information

To offer comments or request additional information about this project, please call the toll-free project telephone line at (866) 632-5944 or visit TEP's Web site at www.tep.com.



PLANNING PROCESS

TASK 1
Siting Criteria, Define Study Area, and Secondary Data Collection

PUBLIC PARTICIPATION ACTIVITIES

- Community leader and elected official briefings
- Project fact sheet

ESTIMATED TIMELINE

2008 - 1st Quarter 2009



Rosemont 138kV Transmission Line Project

Preliminary Transmission Line Link Alternatives

Legend

- Link Identification Number
- Link Node
- Preliminary Alternative Link
- Updated Project Study Area Boundary
- Santa Rita Experimental Range
- Coronado National Forest Boundary

General Reference Features

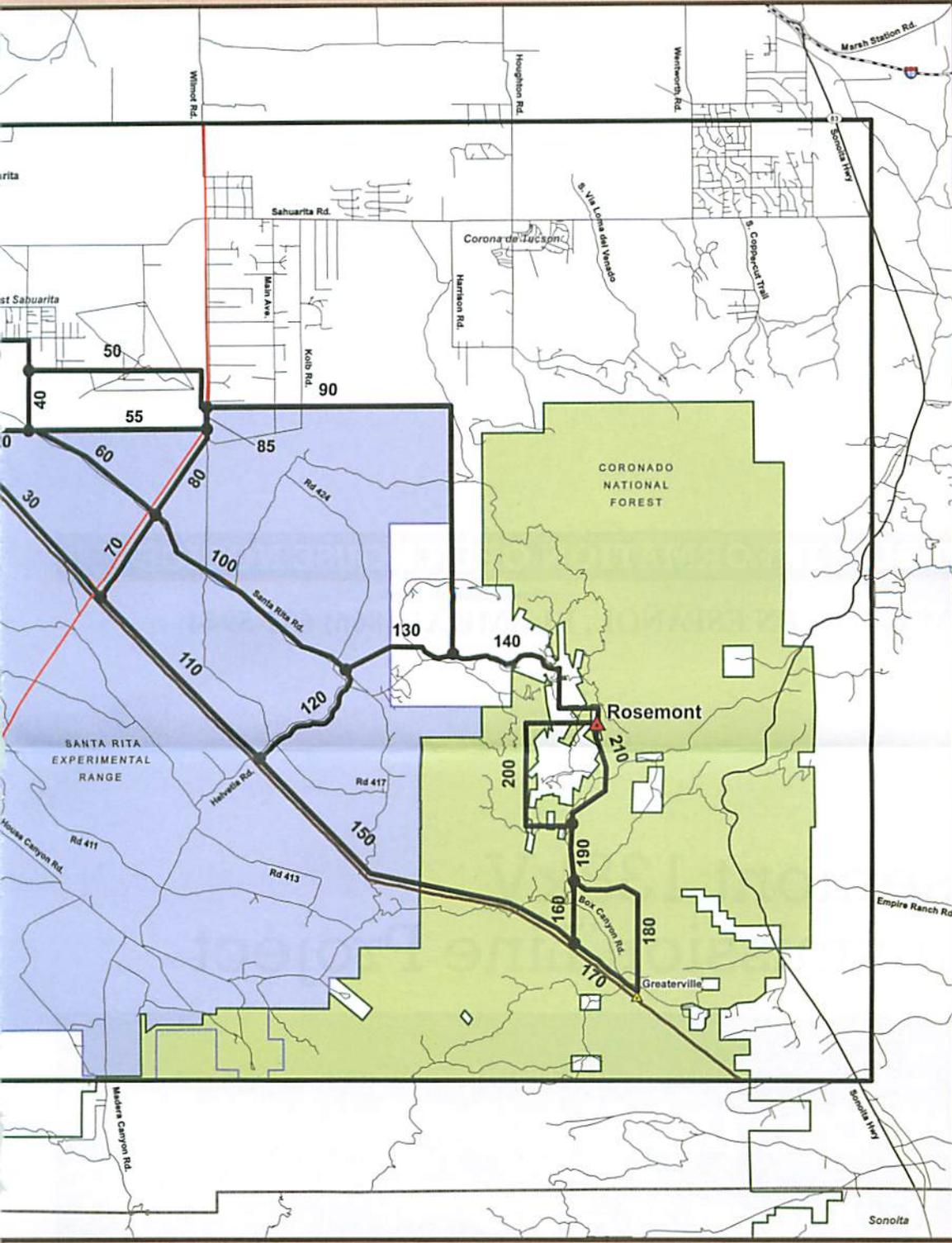
- Existing Substation
- Proposed Switchyard/Substation
- Existing 345kV Transmission Line
- Existing 230kV Transmission Line
- Existing 138kV Transmission Line
- Existing 115kV Transmission Line
- Existing 46kV Transmission Line
- County Boundary
- Interstate
- Highway
- Secondary Road
- Railroad

Notes: Not all of the preliminary alternative links shown on the map will be constructed. Project study area boundary has been updated as of July 2009.

All links are preliminary and may be modified based on agency and public input.



Sources
StreetMap USA 2008; TEP 2008; EPG 2008; Pima County 2008



TASK 2
Opportunities/Constraints Analysis and Link Alternatives Identification

- Newsletters #1 and #2
- Public open house meetings #1 and #2

TASK 3
Detailed Inventory and Link Alternatives Assessment

- Ongoing activities

TASK 4
Route Alternatives Selection and Resource Surveys

- Newsletter #3
- Public open house meeting #3

TASK 5
Preparation and Filing of CEC Application

- Ongoing activities

TASK 6
CEC Hearings

- Public hearings before the Arizona Power Plant and Transmission Line Siting Committee and ACC

1st - 3rd Quarter 2009

3rd - 4th Quarter 2009

4th Quarter 2009

1st - 2nd Quarter 2010

2nd Quarter 2010

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EPG
4141 NORTH 32ND STREET, SUITE 102
PHOENIX, AZ 85018

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Coronado National Forest

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Teresa Ann Ciapuci
Coronado National Forest
300 W Congress St 6th Fl
Tucson AZ 85701-1371

|||||

IMPORTANT PUBLIC INFORMATION OPEN HOUSE NOTICE

PARA INFORMACIÓN EN ESPAÑOL, LLAME AL (866) 632-5944



Rosemont 138kV Transmission Line Project

Please attend the upcoming

PUBLIC INFORMATION OPEN HOUSE

August 27, 2009

5:30-7:30PM

**Rancho Resort Clubhouse
15900 South Rancho Resort Boulevard
Sahuarita, Arizona 85629**



Rosemont 138kV Transmission Line Project

Comment Form #2

August 2009

We welcome your comments on the Rosemont 138kV Transmission Line Project. While public comments will be incorporated throughout the planning process, please take a few minutes to answer the following questions and return this form by September 18, 2009 to ensure that your comments will be incorporated during this phase. Comments will be accepted by mail, fax at (602) 956-4374, or through the project Web site at www.tep.com.

1. Please provide your name and address:

Name _____

Address _____

City, State _____

Zip Code _____

2. Please check the appropriate box below:

- I'm already on the mailing list
- Please add me to the mailing list
- Please remove me from the mailing list

3. How did you learn about the project?

- Project Web site Word of Mouth
- Newsletter Mailing Other
- Media

4. Are you a resident in the project study area?

- Yes No

5. If not, please indicate any affiliation that has led your interest in this project.

- Agency Landowner
- City or Town Other
- Developer

6. Which preliminary alternative link(s) do you prefer? (Please refer to link number(s) on the map.)

7. What factors from the list below influence your preference for these preliminary alternative link(s)?

- Land Use Property Values
- Scenic/Visual/Landscape Cultural/Historic
- Recreation Other
- Biological

Explanation _____

8. Which preliminary alternative link(s) do you NOT prefer? (Please refer to link number(s) on the map.)

9. What factors from the list below influence your opposition to these preliminary alternative link(s)?

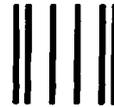
- Land Use Property Values
- Scenic/Visual/Landscape Cultural/Historic
- Recreation Other
- Biological

Explanation _____

10. Please provide any additional comments about the preliminary alternative links:

11. Please provide any additional comments regarding the overall project:

* Please attach additional pages, if necessary. You also may send additional comments or questions to the address or Web site listed on this form.



NO POSTAGE
NECESSARY
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UNITED STATES

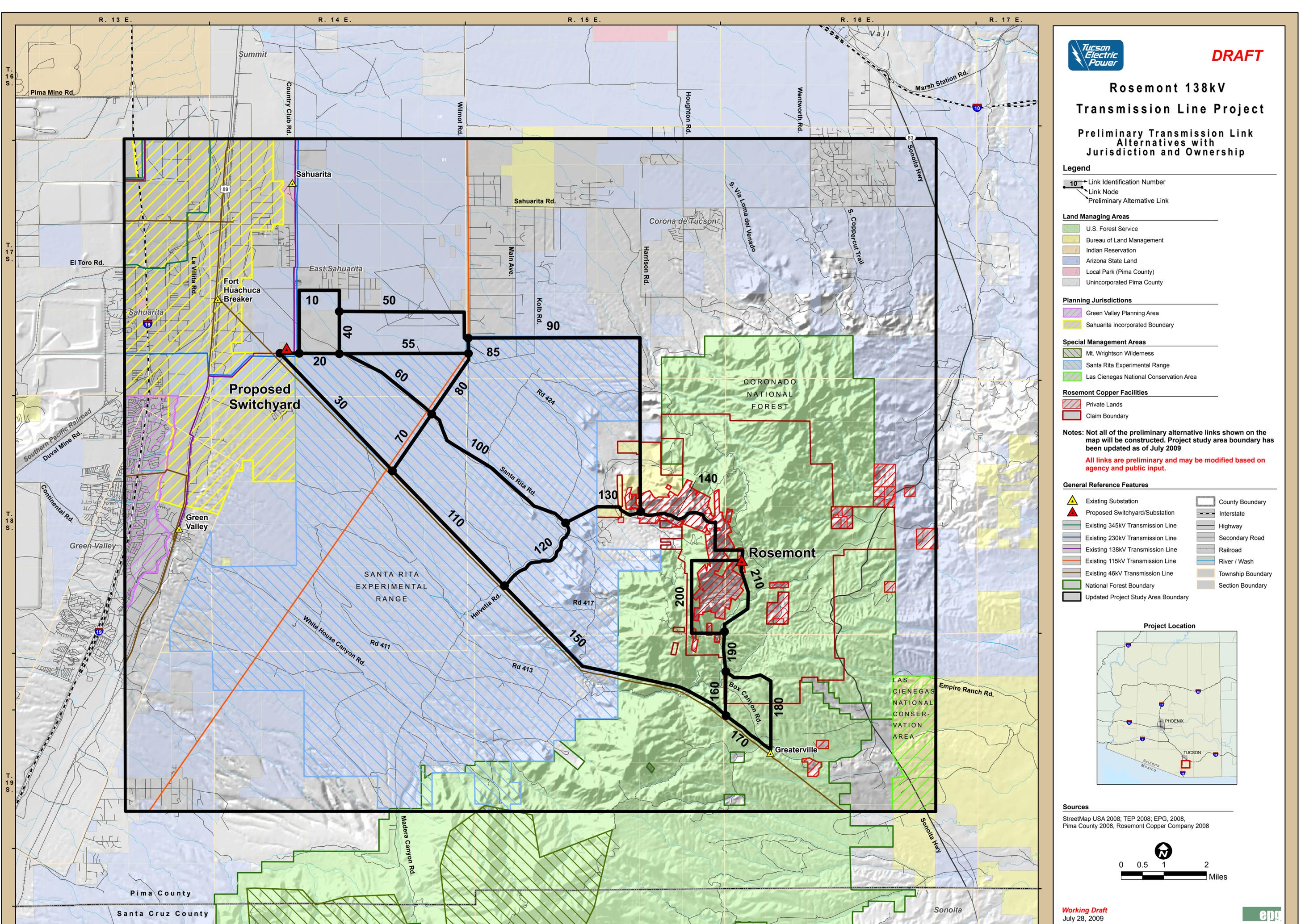


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FIRST-CLASS MAIL PERMIT NO. 400 PHOENIX, AZ

POSTAGE WILL BE PAID BY ADDRESSEE

**EPG INC
4141 N 32ND ST STE 102
PHOENIX AZ 85018-9960**





DRAFT

Rosemont 138kV Transmission Line Project

Preliminary Transmission Link Alternatives with Jurisdiction and Ownership

Legend

- Link Identification Number
- Link Node
- Preliminary Alternative Link

Land Managing Areas

- U.S. Forest Service
- Bureau of Land Management
- Indian Reservation
- Arizona State Land
- Local Park (Pima County)
- Unincorporated Pima County

Planning Jurisdictions

- Green Valley Planning Area
- Sahuarita Incorporated Boundary

Special Management Areas

- Mt. Wrightson Wilderness
- Santa Rita Experimental Range
- Las Ciencas National Conservation Area

Rosemont Copper Facilities

- Private Lands
- Claim Boundary

Notes: Not all of the preliminary alternative links shown on the map will be constructed. Project study area boundary has been updated as of July 2009

All links are preliminary and may be modified based on agency and public input.

General Reference Features

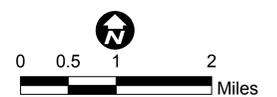
- | | |
|-------------------------------------|-------------------|
| Existing Substation | County Boundary |
| Proposed Switchyard/Substation | Interstate |
| Existing 345kV Transmission Line | Highway |
| Existing 230kV Transmission Line | Secondary Road |
| Existing 138kV Transmission Line | Railroad |
| Existing 115kV Transmission Line | River / Wash |
| Existing 46kV Transmission Line | Township Boundary |
| National Forest Boundary | Section Boundary |
| Updated Project Study Area Boundary | |

Project Location



Sources

StreetMap USA 2008; TEP 2008; EPG, 2008; Pima County 2008, Rosemont Copper Company 2008



Working Draft
July 28, 2009



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Rosemont 138-kV Transmission Line Project Jurisdiction and Ownership

Legend

Land Managing Areas

- U.S. Forest Service
- Bureau of Land Management
- National Park Service
- Indian Reservation
- Arizona State Land
- Local Park (Pima County)
- Unincorporated Pima County

Planning Jurisdictions

- Green Valley Planning Area
- Sahuarita Incorporated Boundary
- Tucson Incorporated Boundary

Special Management Areas

- Mt. Wrightson Wilderness
- Santa Rita Experimental Range
- Las Cienegas National Conservation Area
- Cienega Creek Natural Preserve

Rosemont Copper Facilities

- Private Lands
- Claim Boundary

General Reference Features

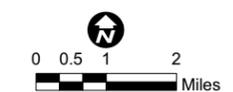
- Existing Substation
- Proposed Rosemont Substation
- Existing 345-kV Transmission Line
- Existing 230-kV Transmission Line
- Existing 138-kV Transmission Line
- Existing 115-kV Transmission Line
- Existing 46-kV Transmission Line
- Gas Pipeline (12" or greater)
- Gas Pipeline (Less than 12")
- National Forest Boundary
- Project Area Boundary
- County Boundary
- Interstate
- Highway
- Secondary Road
- Railroad
- Lake
- River / Wash
- Township Boundary
- Section Boundary

Project Location



Sources

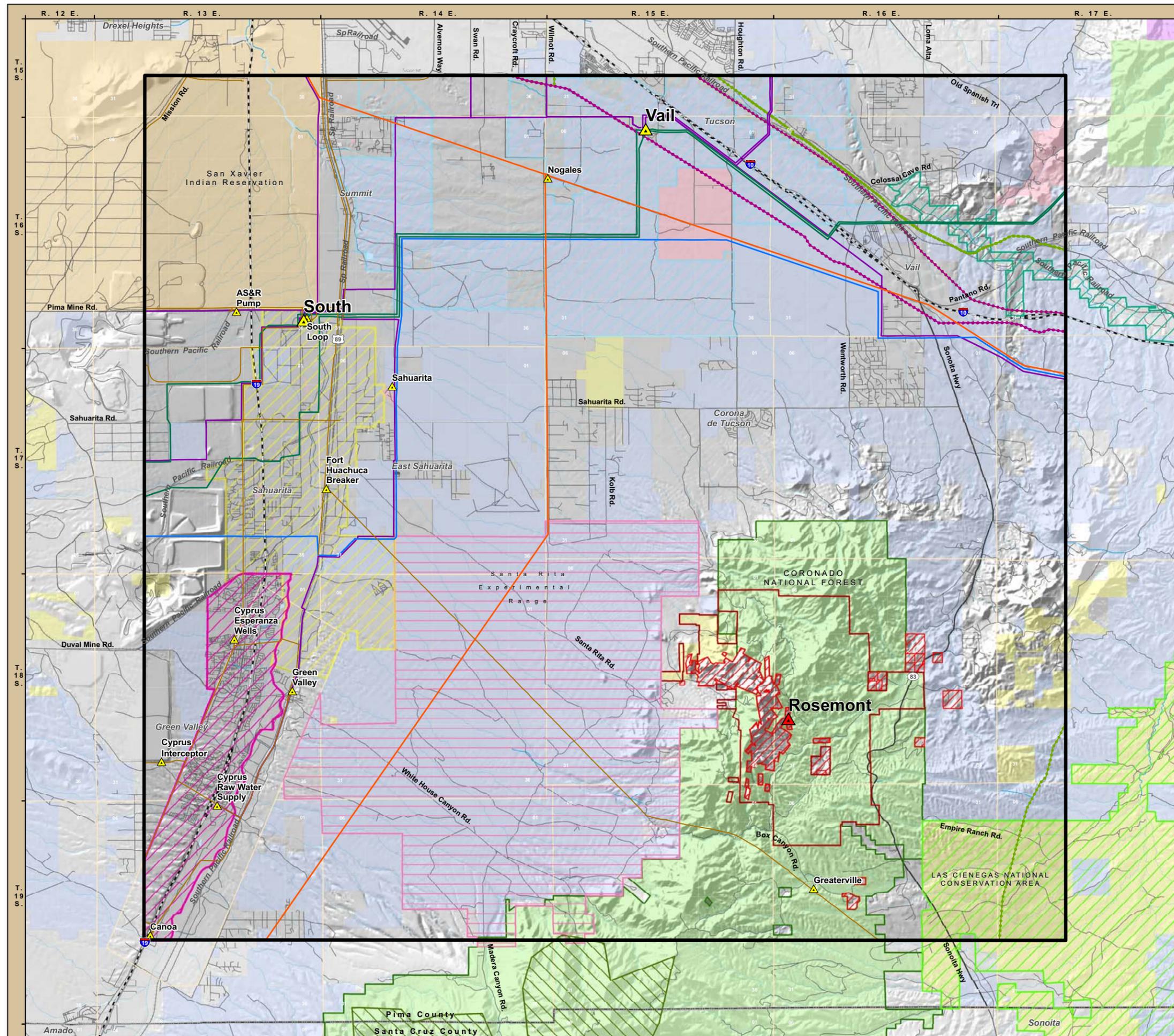
StreetMap USA 2008; TEP 2008; EPG, 2008, Pima County 2008, Rosemont Copper Company 2008

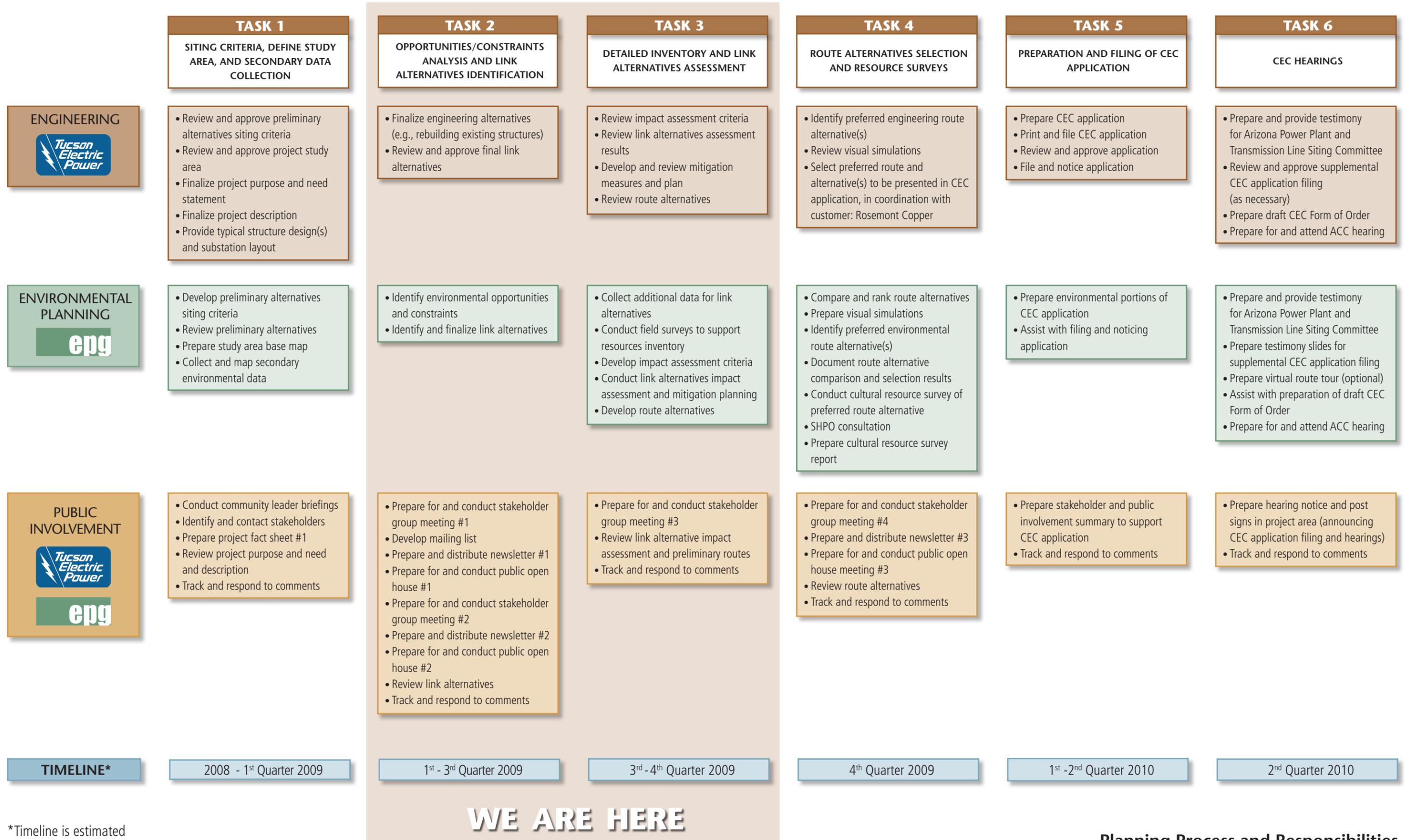


Working Draft
March 20, 2009



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WE ARE HERE

*Timeline is estimated

July 2009

Planning Process and Responsibilities
 Rosemont 138kV Transmission Line Project