

BAKERSFIELD TO PALMDALE PROJECT SECTION ENVIRONMENTAL REVIEW



BAKERSFIELD TO PALMDALE SECTION

- **Key Objectives – Avoid and Minimize Impacts to:**
 - » Downtown areas
 - » Schools
 - » Disadvantaged communities
 - » Green energy generation facilities
 - » Ranches and natural lands
 - » Agricultural activities and businesses
 - » Mining activities



DEVELOPMENT OF BAKERSFIELD TO PALMDALE ALTERNATIVES

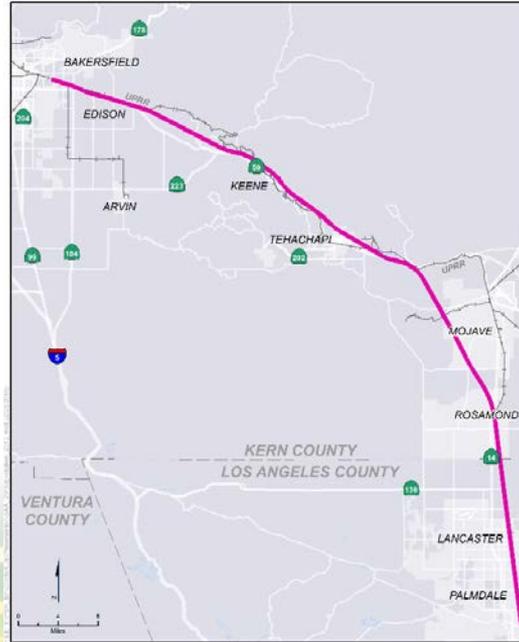
- **2005 Statewide High Speed Train Program EIR/EIS**
 - » Established route between Bakersfield and Palmdale
- **2010 Preliminary Alternatives Analysis (PAA)**
 - » Developed initial range of project alternatives
- **2012 Supplemental Alternatives Analysis (SAA)**
 - » Refined range of project alternatives
- **2015 Alternatives Screening Memo (ASM)**
 - » Consolidated subsection options into eight alternatives
- **2016 SAA**
 - » Recommends four alternatives for study in the Draft EIR/EIS



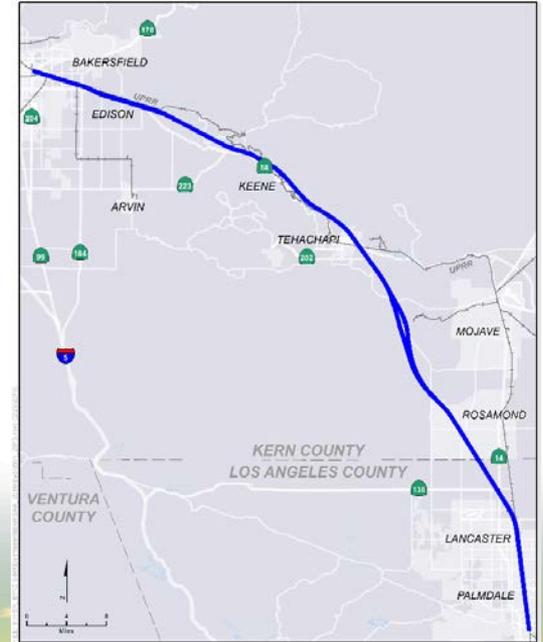
DEVELOPMENT OF BAKERSFIELD TO PALMDALE ALTERNATIVES



2010



2012



2016



SUMMARY OF REFINEMENTS

2012 TO 2016

Area	Refinements
Edison	<ul style="list-style-type: none">• Travel within Edison Highway rather than along private properties to the south of Edison Highway• Move further from Edison Middle School and agricultural features<ul style="list-style-type: none">• Preserve school and packing houses• Move away from existing fault zone paralleling SR 58
Tejon Conservancy	<ul style="list-style-type: none">• Alignments now follow the existing conservation easement boundary rather than bisecting its northeastern corner<ul style="list-style-type: none">• Shorten length of section• Flatten grade ascending the Tehachapi Mountains
Tehachapi	<ul style="list-style-type: none">• Refine design to minimize tunneling and reduce grade• Reduce impacts to new development areas around the City of Tehachapi
Kern County	<ul style="list-style-type: none">• Reduce impacts to green energy generation and aerospace facilities• Reduce length, cost and travel time• Reduce impacts in unincorporated and disadvantaged communities
Rosamond	<ul style="list-style-type: none">• Minimize residential relocations• Minimize disruption to businesses
Lancaster	<ul style="list-style-type: none">• Travel within Sierra Highway/Rail Corridor at grade• Maintain character of Lancaster Boulevard• Improve regional mobility and connectivity (freight, passenger rail, transit, active transportation)

HOW THE FOUR RECOMMENDED ALTERNATIVES MEET OBJECTIVES COMPARED TO 2012 SAA ALTERNATIVES

- **Downtown areas:** Reduces impacts to downtown areas of Tehachapi, Rosamond, and Lancaster
- **Schools:** Reduces impacts to Edison Middle School
- **Disadvantaged communities:** Reduces business disruptions and residential relocations
- **Green energy generation:** Reduces impacts to wind energy facilities



HOW THE FOUR RECOMMENDED ALTERNATIVES MEET OBJECTIVES COMPARED TO 2012 SAA ALTERNATIVES

- **Ranches and natural lands:** Reduces impacts to Tejon Ranch Conservation Lands and other nearby ranches
- **Agricultural activities and businesses:** Avoids impacts to packing plants and reduces impacts to farmlands
- **Mining activities:** Reduces impacts to major cement plant operations



ENVIRONMENTAL PROCESS & IDENTIFYING A PRELIMINARY PREFERRED ALTERNATIVE



ENVIRONMENTAL DOCUMENT CONTENT

Environmental Documents Analyze These Topics



- Aesthetics & Visual Quality
- Agricultural, Farm & Forest Land
- Air Quality & Global Climate Change
- Biological Resources & Wetlands
- Cultural Resources
- Cumulative Impacts
- Electromagnetic Interference/Fields (EMI/EMF)
- Environmental Justice
- Geology, Soils, Seismicity & Paleontology
- Hazardous Materials & Wastes
- Hydrology & Water Resources
- Station Planning, Land Use & Development
- Noise & Vibration
- Parks, Recreation & Open Space
- Public Utilities & Energy
- Regional Growth
- Safety & Security
- Section 4(f) & Section 6(f) Evaluations
- Socioeconomics & Communities
- Transportation



ANALYSIS METHODS

- Data Collection
- Literature Review
- Interviews
- Geographic Information Systems (GIS)
- Field Surveys
- Remote Sensing
- Modeling



BAKERSFIELD TO PALMDALE TIMELINE*



* Subject to Change