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I-710 Corridor Project EIR/EIS

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# Air Quality / Health Risk Assessment Protocol Status Report

## I-710 TAC and CAC Meetings January 21, 2009



# Air Quality/Health Risk Assessment Protocol

- **Protocol Objectives:**
  - To ensure transparency and allow communication on technical issues between stakeholders
  - To facilitate consensus on the technical approach
- **Key Topics:**
  - Study area and zone of impact
  - Emissions
  - Dispersion modeling – model choice and scope
  - Health risk assessment scope
  - Other analyses
- **Agency / Stakeholder Outreach and Comments**



# Project Operations (Traffic)

- **Air Quality Analysis of Criteria Pollutants**
  - Emissions quantification
  - Conformity analyses for particulate matter and carbon monoxide
    - Qualitative for particulate matter, pending new guidance
    - Local “hotspot” dispersion modeling for carbon monoxide
  - Air dispersion modeling
    - Full dispersion modeling for ambient air quality impacts
- **Discussion Points**
  - SR-47 analysis
  - EPA has offered beta version of AERMOD that may better simulate dispersion from roadways
    - Final model choices to be discussed with air and other agencies

# Project Operations (Traffic)

- **Health Risk Assessment**
  - Emissions quantification: mobile source air toxics and possibly other toxic air contaminants
  - Use of full dispersion modeling
  - Results: acute and chronic (non-cancer) hazard indices, cancer risk, cancer burden
- **Discussion Points**
  - 6 priority mobile source air toxics or full list
  - Localized areas may need further analysis
  - Agency comments expected later this week

# Other Analyses

- **Project Construction Impacts**
  - Criteria pollutant emissions quantification
- **Greenhouse Gases**
  - Emission quantification for traffic
    - Environmental SWG member asked to what extent will indirect “life-cycle” emissions (e.g. cement/concrete production) be quantified
- **Cumulative Impacts**
  - In addition to qualitative discussion, I-710 and I-5 Project cumulative impacts will be quantified
- ❖ **PM Mortality Qualitative Analysis**
- ❖ **Ultrafine Particulates (particles less than 0.1 microns)**
  - Environmental SWG members raised the issue
    - Qualitative analysis can be done

# Protocol Outreach and Next Steps

- **Agency Air Technical Working Group**
  - Met November 4<sup>th</sup> to discuss Protocol
  - Members reviewing draft-in-progress Protocol
  - Meeting January 22<sup>nd</sup> to discuss technical comments and finalize draft Protocol for wider distribution
- **Environmental Subject Working Group**
  - Met January 14<sup>th</sup> to discuss AQ/HRA elements
  - Upcoming meeting will discuss draft Protocol
- **Corridor Advisory Committee**
  - Met October 15<sup>th</sup> and will receive this status report this evening
- **Draft Protocol**
  - Will be presented to the TAC, SWG, CAC for comments when agency commenting is complete