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I-710 Corridor Project EIR/EIS

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Water Quality Assessment Overview

presented to the

Project Committee

January 28, 2010



The Water Quality Assessment Process

- Define the Existing Project
 - Existing watershed conditions
- Determine Potential Discharge Points
- Analyze Existing Basin Plan, Local MS4 Permitting Requirements
- Evaluate Discharges using Caltrans/Water Board Water Quality Assessment Criteria
- Delineate probably pollutants using Caltrans Statewide Highway Stormwater Runoff Characterization Studies Data
- Prepare Mitigation/Enhancement Measures

Identify Existing Water Quality Criteria

- Describe project influences in terms of flow and pollutants
- Determine cumulative effects
- Determine locations of potential discharge points

LA Basin Watershed Criteria

- LA Basin Plan
 - *3 sub-watersheds mapped within project drainage limits*
- Focused pollutants are defined by the Water Board and on-going Total Maximum Daily Loads (TMDLs) revisions
 - *On-going revisions to TMDLs will need to be considered.*
- Determine discharge points
 - *Delta in pre- and post- construction flows are determined. The delta in flows (2 yr, 10 yr events) are used in analysis*

Key Water Quality Criteria

Current water quality listed pollutants within the affected Los Angeles River Basin area (Adopted 2006 TMDL denoted by “*”)

Ammonia*

Bioaccumulation Toxic

Biochemical Oxygen Demand (BOD)

Chemical Constituents

Chlorine

Copper (Dissolved)

Floating Material

Dissolved Oxygen

MBAS

Nutrients (Algae)

PCBs*

Sediment Toxicity

Settleable Material

Temperature

Trash*

Turbidity

Bacteria*

Biostimulatory Substances

Cadmium

Chlordane*

Color

Exotic Vegetation

DDT (Sediment)

Diazon*

Nitrogen

Oil and Grease *

Pesticides

Suspended Solids

Tastes and Odors

Toxicity

Zinc*

Next Steps

- Complete Draft Water Quality Assessment Report - January 2010
- Review preliminary findings and develop avoidance, minimization, mitigation, and enhancement measures - Early 2010
- Complete Final Water Quality Assessment - Spring 2010
- Integrate Water Quality Assessment findings and recommendations into the Draft EIR/EIS - Summer 2010