



SCHIFF ASSOCIATES

As-Needed Corrosion Engineering Services, Riverside Co., California

Client: Eastern Municipal Water District (EMWD)

Key Project Personnel: Graham E. C. Bell, PhD, PE – Project & Principal Manager
Steven Fox, PE – Project Manager
Eric Frechette, EIT – Project Engineer
Dr. Dan Townley – Project Cathodic Protection Specialist
Gary Barton – Cathodic Protection Specialist
Robert Pannell – Senior Technician
James Keegan – Field Technician

Services Provided:

- Soil Corrosivity Evaluations and Corrosion Control Recommendations for Candidate Pipe Materials.
- Corrosion Control and Cathodic Protection Designs for New Construction
- Tested Corrosion Control Facilities for Conformance and Effective Operation
- Performed Corrosion Investigations of Existing Waterlines
- Designed Cathodic Protection for Existing Waterlines

Client Representative: Mr. Sia Azimie (951) 928-3777
Eastern Municipal Water District
P. O. Box 8300
San Jacinto, CA 92572-8300

Situation:

In order to meet the expanding water needs of Riverside County, EMWD has constructed numerous domestic and reclaimed water pipelines. The District required corrosion evaluation, recommendations, and construction-phase corrosion engineering services for new construction. Now in a maintenance mode, with the majority of new construction complete, corrosion evaluations are required on the older backbone of EMWD's system

Schiff Associates Response:

At initial project stages, Schiff Associates works with civil and geotechnical engineers to evaluate route corrosivity and provide corrosion control for candidate pipe materials. During construction, we perform testing to ensure corrosion control facilities are installed as specified. For existing pipelines, Schiff provides corrosion evaluation as requested which includes physical inspection, metal thickness testing, tests of mortar for chloride, laboratory tests of soil samples, pipe-to-soil measurements, continuity and current requirement testing, and recommendations and design for cathodic protection.