



## SCHIFF ASSOCIATES

### As-Needed Corrosion Engineering Services, San Diego Co., California

**Client:** San Diego County Water Authority (SDCWA)

**Key Project Personnel:** Graham Bell, PhD, PE – Project and Principal Manager  
Brendan Sheehan – Sr. Corrosion Engineer  
Steven Fox, PE – Project Engineer  
Gary Barton – Senior Technician  
Robert Pannell – Senior Technician

#### Services Provided:

- Annual Cathodic Protection and Corrosion Monitoring Surveys
- Corrosion and Cathodic Protection Troubleshooting
- Stray Current Interference Testing
- Corrosion Database Development
- Pulsed Rectifier Interference Study
- Laboratory Tests of Soil and Mortar Samples and Analysis of Test Data
- Electromagnetic Conductivity Survey of First Aqueduct
- Consultation for Metallurgical/Materials and Coatings Questions

**Client Representative:** John J. Galleher, P.E. (760) 233-3206  
San Diego County Water Authority  
610 West Fifth Avenue  
Escondido, CA 92025

#### Situation:

In order to meet and maintain the expanding water needs of San Diego County, SDCWA initiated Capital Improvement and Aqueduct Protection Programs. Capital improvement included over 63 miles of new pipelines, ranging from 108 to 72 inches in diameter, new flow control facilities, pipeline relocations, and rehabilitation or replacement of existing pipelines. Aqueduct protection includes inspections, surveys, and development of long-term operation and maintenance of corrosion control and cathodic protection systems.

#### Schiff Associates Response:

Since 1997, Schiff Associates has been an Authority consultant for corrosion engineering services. In addition, Schiff has teamed with Civil Engineering firms for pipeline design and construction.