

Critical GIS Integration Concepts for Sewer System Management Plans

by

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Abstract

The California State Water Resources Control Board recently adopted Order No. 2006-0003-DWQ, mandating that publicly owned sanitary sewer collection systems in California develop a Sewer System Management Plan (SSMP), in order to prevent Sanitary Sewer Overflows (SSO). As this order mandates that the SSMP be updated internally every two years and externally every five, the development of a successful SSMP must emphasize the creation and maintenance of easily revisable data and analysis.

For the Rancho California Water District (RCWD), a GIS database formed a highly effective framework to store, track and audit SSMP goals. RCWD operates over 75 miles of sewer collection pipes, three lift stations, and over three miles of force mains. By integrating critical components of the SSMP into their GIS database and workflow structure, RCWD not only satisfied the legislated requirements, they also created a reference to serve the District's needs for many years to come.



Bio's

➤ **Andrew Webster, P.E. – Acting District Engineer (RCWD)**

Mr. Webster oversees the Engineering Division for the Rancho California Water District and he has over 19 years of public utility engineering experience. A graduate of the California State University of Long Beach with a Bachelor's of Science Degree in Civil Engineering, Mr. Webster is also a registered Civil Engineer in the State of California.

➤ **Jeff Kirshberg, Ph.D., P.E. – Senior Project Engineer (IEC)**

Dr. Kirshberg has 11 years of hydraulic modeling and water/wastewater master planning experience, with a recent emphasis on integrating analytical results into the GIS environment. He holds a doctorate in fluid mechanical engineering with an emphasis in applied mathematics from the University of California, Berkeley.



Slide 3

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Change Department to Division for my bio.

Andrew Webster, 6/12/2008

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