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TECHNICAL MEMORANDUM 130668-002

November 30, 2006

TO: ART O'BRIEN, CITY OF ROSEVILLE

FROM: PATRICK HASSEY, BROWN AND CALDWELL
CHRIS PETERS, BROWN AND CALDWELL

SUBJECT: SEWER SYSTEM MANAGEMENT PLAN (SSMP) PREPAREDNESS AUDIT – OPERATIONS AND MAINTENANCE PROGRAM – REHABILITATION AND REPLACEMENT PLAN (ELEMENT IV(C))

The California State Water Resources Control Board Order No. 2006-0003 outlines the requirements for the Statewide General Waste Discharge Requirement (WDR) for Wastewater Collection Agencies. Item IV(c) of the WDR states that the Enrollee (City of Roseville) shall "develop a rehabilitation and replacement plan to identify and prioritize system deficiencies and implement short-term and long-term rehabilitation actions to address each deficiency." The program must included regular inspections and a capital improvement plan that addresses schedule and funding issues.

This Technical Memorandum summarizes the results of an evaluation to determine if elements of the City's current sewer system management program are in compliance with Element IV(c) of the Statewide WDR.

Data Collection and Review

Brown and Caldwell (BC) reviewed the following document provided by the City to determine if they meet the requirements of Element IV(c) of the WDR.

- Roseville "Wastewater Collection System Condition Assessment Capital Improvement Plan", Date 2006 and Roseville's comprehensive inspection schedule and tracking program.

Evaluation

The documents provided by the City were reviewed to determine if the City is in compliance with the WDR. Program enhancements are identified if shortfalls were identified in the evaluation.

The City's Wastewater Collection System Condition Assessment Capital Improvement Plan divides the City's collection system manholes and pipes into 24 "groups" that will be inspected over a period of time. In 2006, the first group of pipes and manholes was inspected and included in the Rehabilitation and Replacement plan. The plan includes identification of defects utilizing standardized manhole and pipe inspection logs. The

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NASSCO rating system is utilized for rating of defects. Once each pipe/manhole is inspected, it is assigned a rating score that includes factors for the probability of failure and the criticality of the asset (risk assessment). Pipes/manholes with high scores are included in the rehabilitation/replacement plan which evaluates the appropriate action needed, the anticipated cost and a schedule for implementation.

The City's efforts to identify capacity enhancement measures meet the intent of Part (c) of Element IV.