

ELEMENT 8 - SYSTEM EVALUATION AND CAPACITY ASSURANCE PLAN

The City of Pacific Grove has hired Wallace Group to develop a Sewer Collection System Master Plan (SCSMP), which evaluates the collection system's capacity and maintains a Capital Improvement Plan (CIP) and implementation schedule in order to respond to deficient areas identified in these evaluations. The SCSMP is scheduled to be completed by the end of 2013, and SSMP Element 8 – System Evaluation and Capacity Assurance Plan will be revised to incorporate the SCSMP as currently described this SSMP Element.

8.1 Regulatory Requirements

WDR Order No. 2006-0003-DWQ Section D.13(viii) states:

The Enrollee shall prepare and implement a capital improvement plan (CIP) that will provide hydraulic capacity of key sanitary sewer elements for dry weather peak flow conditions, as well as the appropriate design storm or wet weather event. At a minimum, the plan must include:

- (a). **Evaluation:** Actions needed to evaluate those portions of the sanitary sewer system that are experiencing or contributing to an SSO discharge caused by hydraulic deficiency. The evaluation must provide estimates of peak flows (including flows from SSOs that escape the system) associated with conditions similar to those causing overflow events, estimates of key system components, hydraulic deficiencies (including components of the system with limiting capacity) and the major sources that contribute to the peak flows associated with overflow events;
- (b). **Design Criteria:** Where design criteria do not exist or are deficient, undertake the evaluation identified in (a) above to establish appropriate design criteria; and
- (c). **Capacity Enhancement Measures:** The steps needed to establish a short- and long-term CIP to address identified hydraulic deficiencies, including prioritization, alternatives analysis, and schedules. The CIP may include increases in pipe size, I/I reduction programs, increases and redundancy in pumping capacity, and storage facilities. The CIP may include an implementation schedule and may identify sources of funding.
- (d). **Schedule:** The Enrollee shall develop a schedule of completion dates for all portions of the capital improvement program developed in (a)-(c) above. This schedule may be reviewed and updated consistent with the SSMP requirements as described in [WDR Order 2006-0003-DWQ] Section D.14.

8.2 Evaluation

The City of Pacific Grove has hired Wallace Group to evaluate the current collection system and provide recommendations to improve the collection system to meet the existing and future conditions. The evaluation and recommendations will be included in the City's SCSMP, which Wallace Group is scheduled to complete by the end of 2013. The City will revise this SSMP Element to include this evaluation upon the completion of the SCSMP, and the City's Community Development/Public Works Director will review this evaluation every five years after

its inclusion in the SSMP in order to assess whether the factors affecting the City's sanitary sewer system's hydraulic capacity have changed.

8.3 Design Criteria

The City currently does not have a complete set of design standards and specifications, as described in Element 5 – Design and Performance Provisions. Neill Engineers Corp., which is contracted by the City to perform engineering design services, creates design standards and specifications specific to the projects the City undertakes, such as the individual standards and specifications created and utilized for the City's CIPs Phases 1 through 6.

The City must formalize and standardize or incorporate by a reference a complete set of design standards and specifications. Upon the completion of the SCSMP reference above in Section 8.2: Evaluation, the City will have a set of recommendations from Wallace Group regarding needed design criteria. The City plans to utilize these recommendations to develop a set of design standards and specifications by the end of 2013 and review and update these standards and specifications on an annual basis. The City's Community Development/Public Works Director will also revise this SSMP Element to include these design standards and specifications once they are developed and adopted.

8.4 Capacity Enhancement Measures

The City's SCSMP is scheduled to be completed by the end of 2013 and will include a list of recommended short- and long-term CIPs, which will address identified hydraulic deficiencies, including prioritization, alternatives analysis, and schedules. Upon the completion of the SCSMP, the City will revise this SSMP Element to include these CIPs. This list of CIPs will also be reviewed and revised by the Community Development/Public Works Director on an annual basis.

8.5 Schedule

The City will utilize the list of CIPs, which are incorporated into this SSMP Element through Section 8.4: Capacity Enhancement Measure, and evaluate the sources of funding identified and described in SSMP Element 4 – Operation and Maintenance Program to develop a schedule of completion dates for all portions of the capital improvement program identified in this SSMP Element. This schedule will be developed and included in this SSMP Element through a revision upon the completion of the SCSMP. This schedule will also be reviewed and revised by the Community Development/Public Works Director on an annual basis.