

EXHIBIT 7-3

Stormwater Management Report Example Format

- I. **Table of Contents** with page numbers
- II. **Stormwater Management Summary**
- III. **Project Narrative**
- IV. **Pre-Development Hydrograph Calculations**
 - A. Weighted CN Calculations
 - B. Tc Calculations
 - C. Hydrographs – 2, 10, 25, 50 and 100 Year Frequencies
- V. **Post-Development Hydrograph Calculations** (for each Drainage Area)
 - A. Design Point 1 (Drainage Area 1)
 - 1. Weighted CN Calculations
 - 2. Tc Calculations
 - 3. Hydrographs – 1, 2, 10, 25, 50 and 100 Year Frequencies
 - B. Design Point 2 (Drainage Area 2)
 - 1. Weighted CN Calculations
 - 2. Tc Calculations
 - 4. Hydrographs – 1, 2, 10, 25, 50 and 100 Year Frequencies
- VI. **Post-Development Hydrograph Combinations – Drainage Area 1 and 2**
- VII. **Detention Basin Calculations**
 - A. Basin Characteristics
 - 1. Basin Stage Storage – Elevation Data
 - 2. Outlet Structure Configuration
 - a. Schematic Details: Orifice, Elevation, Cross-Section, Trash Rack, Anti-Seep Collar, Clay Core
 - 3. Basin Routing Table
 - B. Outflow Hydrographs – 1, 2, 10, 25, 50 and 100 year Frequencies
 - C. Outfall Protection/Level Spreader Design Calculations
 - D. Emergency Spillway Calculations
 - 1. Orifice Blocked Outflow Hydrograph – 100 Year Frequency
 - 2. Spillway Sizing – Weir Equation
 - E. Anti-Seep Collar Calculations

VIII. Extended Detention of 1 Year Frequency Hydrograph Calculations

IX. Basin Empty Time Analysis – 100 Year Storm

X. Best Management Practices (BMP) Calculations and Details

- A. Water Quality
 - 1. Volume Calculations
 - 2. BMP Design and Application
- B. Groundwater Recharge
 - 1. Geologic Analysis
 - 2. Volume Calculations – 2-Year 24 Hour rainfall
 - 3. BMP Design and Application

XI. Conveyance Calculations

- A. Pipe Design Calculations
 - 1. Weighted CN Calculations
 - 2. Tc Calculations
 - 3. Peak Flow or Hydrographs, 10, 25 and 100 Year Frequencies
 - 4. Hydraulic Grade Line Calculations, using 10, 25 and 100 Year Frequency Peak Flows
 - 5. Pipe Outlet Lining Calculations – rip-rap or matting
- B. Culvert Design Calculations
- C. Swale Design Calculations
 - 1. Weighted CN Calculations
 - 2. Tc Calculations
 - 3. Peak Flow or Hydrographs, using 10, 25 and 100 Year Frequencies
 - 4. Capacity Calculations – permanent/lined condition
 - 5. Stability Calculations – temporary and permanent conditions

Appendix A: Pre-Development Drainage Area Map, including Tc information

Appendix B: Post-Development Drainage Area Map, including Tc information

Appendix C: Off Site Drainage Area Map, including Tc information

Appendix D: Inlet Drainage Area Map

Appendix E: SCS Runoff Curve Numbers

Appendix F: Regional Rainfall Curve Chart

Appendix G: C Values for Rational Method

Appendix H: Hydrologic Soil Group Listing

Assumptions:

1. If off-site runoff drains to design point, include calculations under Pre-Development Hydrograph Calculations.
2. If an existing detention facility discharges to the site, the hydrograph analysis to document discharge rate will be added to Pre-Development Hydrograph Calculations using the same format as Post-Development.
3. Hydraulic Grade Line Calculations use a program that considers inlet efficiency and bypass, and ponding over inlets (depth at curb line).