Introduction

• Welcome
• City Officials
• Speakers and Team Members
Agenda

- Storm Water Runoff & System
- T&SW’s Storm Water Management Strategy
- Proposed Waterways Maintenance Plan
- Public Input, Dialogue, & Results
System Overview

• Storm Water Runoff

• System contains
  • ~50 miles of streams and channels
  • ~20 miles of brow ditches and box culverts
  • ~770 miles of storm drains
  • ~47,000 structures, including 5,000+ outlets
Holistic Storm Water Management Strategy
Waterways Maintenance Plan – Objectives

- Flood Risk Reduction
- Infrastructure Sustainability
- Resource Protection & Restoration
  - Water Quality
  - Habitat and Species
Regulatory Overview

• Numerous City, State and Federal Regulations Potentially Apply
  • City Development Services Department: Land Development Code
  • California Department of Fish and Wildlife: State Fish and Game Code
  • California Coastal Commission: Coastal Act
  • US Army Corps of Engineers/ San Diego Regional Water Quality Control Board: Federal Clean Water Act
  • US Fish and Wildlife Service: Federal Endangered Species Act
Regulatory Overview

- Programmatic City-wide approach is preferred by Regulatory Agencies
  - Accepted approach throughout California
  - Streamlined permit processing
  - Consistent permit conditions
  - Transparent and predictable
Existing – Master Storm Water System Maintenance Program

- 5-year Site Development Permit
  - 113 channel segments
  - 32 miles
- Substantial Conformance Review
- Annual Prioritization Process
- Since 2013
  - Completed planned maintenance at 5 channels (14 segments total)
  - Additional segments addressed under emergency procedures
  - 60 acres of mitigation completed, underway, or purchased
Proposed – Waterways Maintenance Plan

• Multi-year Plan
  • Currently evaluating all drainage facilities
  • Will identify areas that require maintenance
  • Will conduct a comprehensive technical evaluation

• Potential to Allow for Regular Renewal Cycles

• Goals
  • Integrated with overall holistic storm water management strategy
  • Standard mitigation measures
  • Streamlined maintenance approvals
Proposed – Waterways Maintenance Plan

• Approximate Timeline
  • Plan Development – Summer/Fall 2016
  • CEQA & Regulatory Permit Applications– Fall 2016
  • Public Notices – Winter 2016
  • Technical Analyses – Fall/Winter 2016
  • Public Review– Summer 2017
  • Certification/Permit Issuance – Winter 2017

• Next Steps
  • Focused Public Workshops (Fall 2016, etc.)
  • CEQA Public Notices/Meetings (Present – Winter 2017)
Community Input

Focus Areas of Interest:

• Holistic Storm Water Management Strategy
  1. Watershed Water Quality Improvements
  2. Consider System-Wide Improvements
     A. Stream Protection & Restoration
     B. Infrastructure Improvements
  3. Plan System Maintenance
Watershed Water Quality Improvements

• Goal – Reduce Sediment Sources And Improve Storm Water Runoff Quality
  • Optimize pollution prevention efforts
  • Reduce waterway maintenance needs
  • Integrate green infrastructure

• Examples
  • Pollution prevention activities (street sweeping, drain cleaning, & water quality basins)
  • Green infrastructure (grass swales, curb cuts/planters, & constructed wetlands)
Stream Protection and Restoration

• **Goal** - Improve Habitat Conditions
  - Standardized approach
  - Community partnerships
  - Master planning for multiple benefits

• **Examples**
  - Modified maintenance methods
  - Channel expansion
  - Concrete removal/daylighting
  - Bank stabilization
  - Invasive species control
  - Property purchase
Infrastructure Improvements

- **Goal** - Improve the Transition from Engineered to Natural Systems
  - Master planning for multiple benefits
  - System reliability
  - Reduced maintenance

- **Examples**
  - Storm drain pipe replacement
  - Bank stabilization
  - Headwall/Dissipator construction
Flood Risk Maintenance

• **Goal** – Minimize Property and Life Safety Risk from Flooding
  - Prioritize locations based on consequence
  - Provide equal benefits & protection throughout the City
  - Streamline review/approval of individual flood reduction activities

• **Examples**
  - Channel/outlet maintenance & repair
  - Flood barriers (levees, berms, & sandbags)
  - Community outreach/education
Community Input

• Focus Areas of Interest
  • Watershed Water Quality Improvements
    • Genene Lehotsky, Bryn Evans
  • Stream Protection and Restoration
    • Christine Rothman
  • Infrastructure Improvements
    • Chris Gascon
  • Flood Risk Maintenance
    • Roger Wammack, Stephanie Bracci

• Comment Card

• Website: www.sandiego.gov/stormwater/services/wmp
Next Steps

• Additional Comments?
• Submit Comment Cards
• Website: www.sandiego.gov/stormwater/services/wmp
• Email list
• Next public workshops (Fall 2016, etc.)