Five Mile Slough and Five Mile Creek Project Study Report
Agenda

• Review project scope
• Provide project schedule update
• Outline preliminary findings
• Identify focal points
Project Scope

Five Mile Dam  Pacific Avenue

• Research
• Document
• Identify
• Report
• Recommend next steps
Project Schedule Update

November 2017: Held first Public Meeting

January 2018: Submitted preliminary draft report

February 2018: Received City comments on preliminary draft report

Mar. – Apr. 2018: Submit revised draft report and hold agency stakeholder meetings

May – June 2018: Third Public Meeting

July – Aug. 2018: Finalize report
Preliminary Findings

I. History and function
II. Hydrology
III. Sediment and erosion
IV. Water quality and invasive plants
V. Maintenance and maintenance responsibility
VI. Regulatory compliance
Preliminary Findings: Part I. History and Function

- **Slough**: a swamp or shallow lake system, usually backwater to a larger body of water
- **Creek**: a natural stream that is usually smaller than and tributary to a river
1980s – Present

- Hammer Lane widening added discharge (2017)
- Breuner’s Home Furnishings closed, Five Mile Creek Ditch along Hammer Lane removed (2002)
- Swenson Park
Preliminary Findings: Part II. Hydrology – Flood Control Component
Preliminary Findings: Part II. Hydrology – Storage Component

![Bar chart showing Stormwater Volume (acre-feet) with Input and Capacity values.](image)
Preliminary Findings: Part II. Hydrology – Volume Component
Preliminary Findings: Part IV. Water Quality and Invasive Plants

- Active water quality monitoring by the City
- BMPs (Best Management Practices) in place
- Sources of impairment identified:
  1. Pesticides
  2. Pathogens
  3. Nutrients
  4. Low dissolved oxygen

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<th>Pump Stations</th>
<th>Water Quality Monitoring and Regulation</th>
<th>Water Level Maintenance</th>
<th>Flood Control</th>
<th>Aesthetics</th>
<th>Invasive Plant Abatement</th>
<th>Bank Erosion</th>
<th>Culvert Hydraulics</th>
<th>Maintenance (Debris Clean-up, Bank Vegetation)</th>
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Preliminary Findings: Part VI. Regulatory Compliance

- Continuous compliance program by the City
- No known violations
Focal Points

1. Need for a deeper understanding of relationship between storage / sediment / erosion / hydrology
2. Repair of the Alexandria Place culvert and banks
3. Investigation of a public / private partnership / assessment district