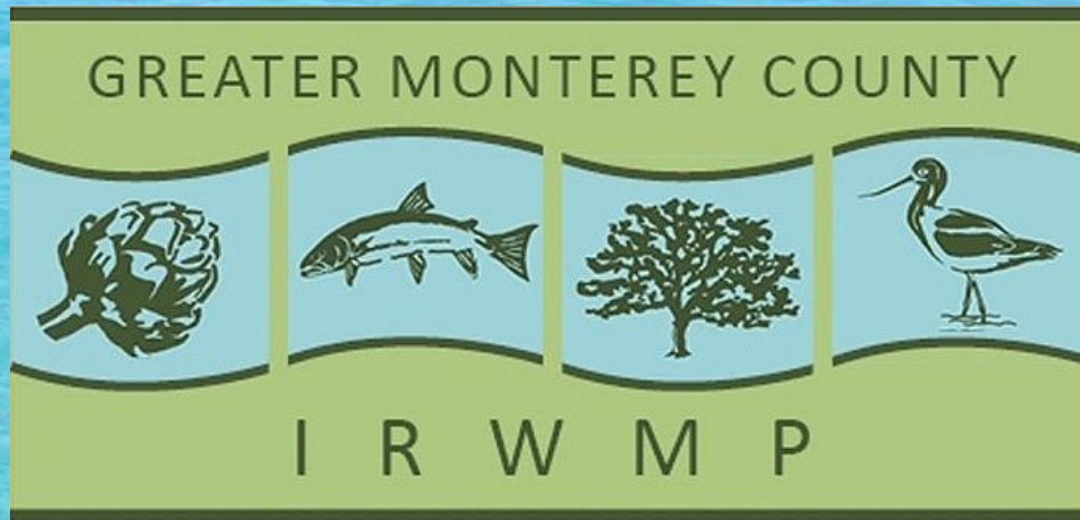


The Regional Water Management Group: Planning and Funding Water Projects in Monterey County



The 2019 Storm Water Resource Plan

What is IRWM?

Integrated Regional Water Management (IRWM)

encourages local water resource managers to take a proactive, leadership role in solving water management problems on a local level through collaborative regional planning.

Greater Monterey County IRWM Region



0 5 10 20 Miles

Projection: UTM Zone 10N
Datum: NAD 1927
May 21st, 2012



- | | |
|---|---|
|  Greater Monterey County IRWM region |  MCWRA |
|  County lines |  PVWMA |
|  City, Village, Town |  SBCWD |
|  Water bodies |  MPWMD |

Regional Water Management Group

- Big Sur Land Trust
- California State University Monterey Bay
- California Water Service
- Castroville Community Services District
- City of Salinas
- City of Soledad
- Elkhorn Slough National Estuarine Research Reserve
- Environmental Justice Coalition for Water
- Marina Coast Water District
- Monterey Bay National Marine Sanctuary
- Monterey County Agricultural Commissioner's Office
- Monterey County Resource Management Agency
- Monterey County Water Resources Agency
- Monterey One Water
- Moss Landing Marine Labs
- Resource Conservation District of Monterey County
- Rural Community Assistance Corporation
- San Jerardo Cooperative, Inc.

Greater Monterey County **Regional Water Stakeholders**

IRWM email list: 150 agencies and organizations, representing all major water management authorities:

- water supply
- wastewater
- flood control
- watershed management
- environmental
- water quality
- stormwater
- municipal
- agricultural
- regulatory interests

\$20 million in IRWM grant funds have been awarded to the region since 2007

**Prop 50 (2007): \$13,497,000
(awarded to Salinas Valley IRWM region)**

- Marina Coast Water District:
Eastern Distribution System
- City of Soledad:
Water Recycling/Reclamation Project
- Monterey County Water Resources Agency:
Salinas Valley Water Project
- Monterey County Water Resources Agency:
Fish Habitat and Monitoring

\$20 million in IRWM grant funds have been awarded to the region since 2007

Prop 84 (2010): \$4,894,264

- City of Soledad: Soledad Water Recycling/Reclamation Project
- Castroville Community Services District:
Castroville CSD Well 2B Treatment Project
- San Jerardo Cooperative, Inc.: San Jerardo Wastewater Project
- Elkhorn Slough Foundation:
Integrated Ecosystem Restoration in Elkhorn Slough
- Central Coast Wetlands Group: Water Quality Enhancement of the
Tembladero Slough and Coastal Access for the Community of Castroville
- Monterey Bay National Marine Sanctuary, Central Coast Wetlands Group,
and RCD of Monterey County:
Watershed Approach to Water Quality Solutions
- UC Davis Granite Canyon Marine Pollution Studies Laboratory:
Evaluation of Stormwater Toxicity Reduction by LID Treatment Systems

**\$20 million in IRWM grant funds
have been awarded to the region since 2007**

Prop 1 IRWM: \$1,433,757

Prop 1 IRWM

- **\$76,935 in Planning Grants**
- **\$887,517 for Disadvantaged Community Involvement
in Planning and Implementation Projects**

Prop 1 SWRP via IRWM

- **\$469,305 Storm Water Planning Grant**

\$3,462,861 in Additional Applications for Prop 1 Implementation Projects

- Castroville Community Services District:
Emergency Deep Aquifer Supply and Tank Project
- Monterey One Water/Central Coast Wetlands Group/Salinas:
Improving Storm Water Management in Salinas: Increasing Capture, Improving Treatment, Reducing Energy Use
- Monterey County Water Resources Agency:
Reoperation of Reservoirs: Decision-support Tool to Increase Water Supply Reliability in Salinas Valley
- RCD of Monterey County:
Farm Nutrient Management and Water Quality Assistance Program
- Salinas River Management Assoc and RCD Monterey County:
Salinas River Multi-Benefit Stream Maintenance and Habitat Stewardship Program

Plans Produced by the Greater Monterey County IRWM Region

- IRWM Plan (2013 with updates through 2018)
- Integrated Plan to Address Drinking Water and Wastewater Needs of Disadvantaged Communities in the Salinas Valley and Greater Monterey County IRWM Region (2017)
- Storm Water Resource Plan (2019)

Website: [GMC IRWM / Documents](#)

The 2019 Storm Water Resource Plan for the Greater Monterey County IRWM Region

STORM WATER RESOURCE PLAN

FOR THE GREATER MONTEREY COUNTY
INTEGRATED REGIONAL WATER MANAGEMENT REGION

June 27, 2019



Prepared by:
Coastal Conservation and Research, Inc.
on behalf of the
Greater Monterey County Integrated Regional Water Management Region

With Funding Support from:
State Water Resources Control Board
Proposition 1 Storm Water Planning Grant
Grant Agreement No. D1612608



A Regionally Integrated Evaluation of Projects to Manage Storm Water for:

- **Water Quality**
- **Water Supply**
- **Flood Control**
- **Environmental and**
- **Community Benefits**



Projects and Opportunities

**Quantitatively evaluate
submitted projects**

**Use GIS and hydrologic
modeling to identify
opportunities for storm
water management**



Make regional projects eligible for Prop 1 storm water grant funding

**Grants funds requested
by Plan projects:
\$ 35,840,943**

**Anticipated matching funds
(from non-State sources):
\$ 37,485,943**



The 2019 Storm Water Resource Plan for the Greater Monterey County IRWM Region

STORM WATER RESOURCE PLAN

FOR THE GREATER MONTEREY COUNTY
INTEGRATED REGIONAL WATER MANAGEMENT REGION

June 27, 2019



Prepared by:
Coastal Conservation and Research, Inc.
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Introductory Chapters:

Legislative Background

Water Quality Compliance

Watershed Information

Coordination and Collaboration

Management Objectives

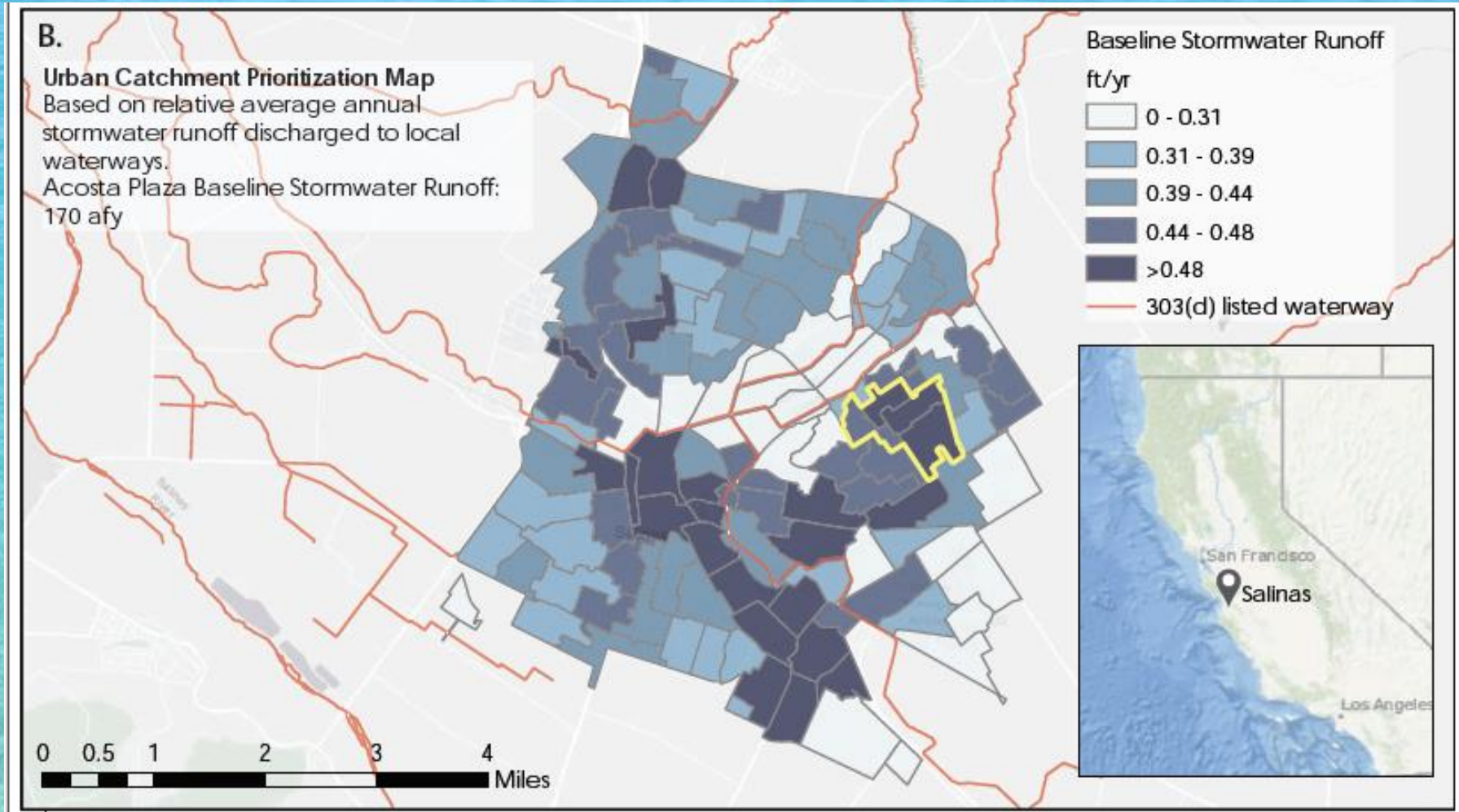
Quantitative Methods for Identification and Prioritization of Projects and Opportunities

1. Low Impact Development (Source Control) Projects



Quantitative Methods for Identification and Prioritization of Projects and Opportunities

1. Low Impact Development (Source Control) Projects



Quantitative Methods for Identification and Prioritization of Projects and Opportunities

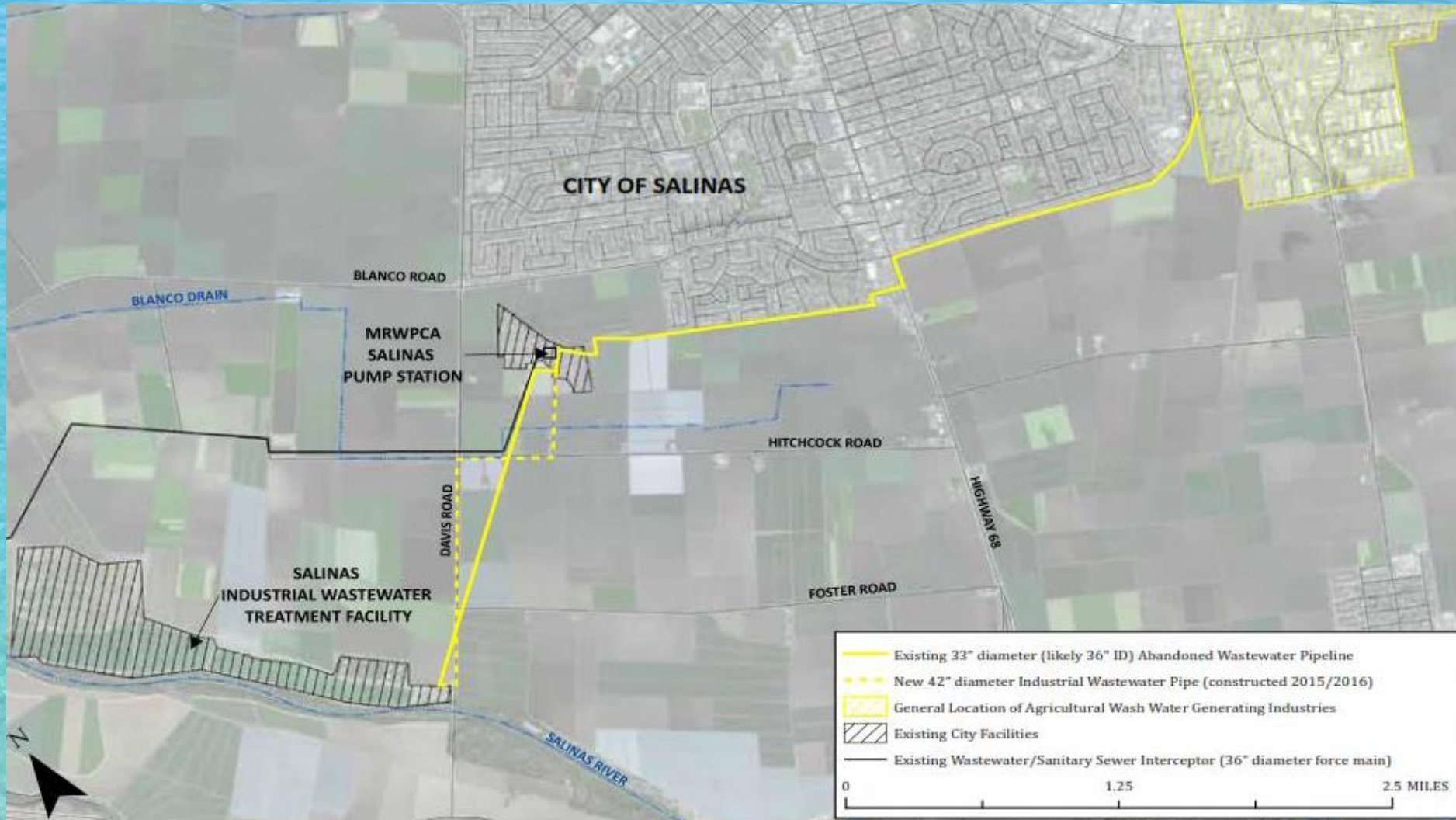
2. Engineered Infrastructure Projects

- Soledad Regional Recharge
- Salinas and Monterey One Water
Salinas Area Flood Enhancements and Reuse
- Salinas, M1W and Central Coast Wetlands Group
Salinas Water Quality and Agricultural Reuse
- M1W Ocean Outfall Beach Structure

Soledad Regional Recharge



Salinas Area Flood Enhancements and Reuse



Salinas Water Quality and Agricultural Reuse



M1W Ocean Outfall Beach Structure



Quantitative Methods for Identification and Prioritization of Projects and Opportunities

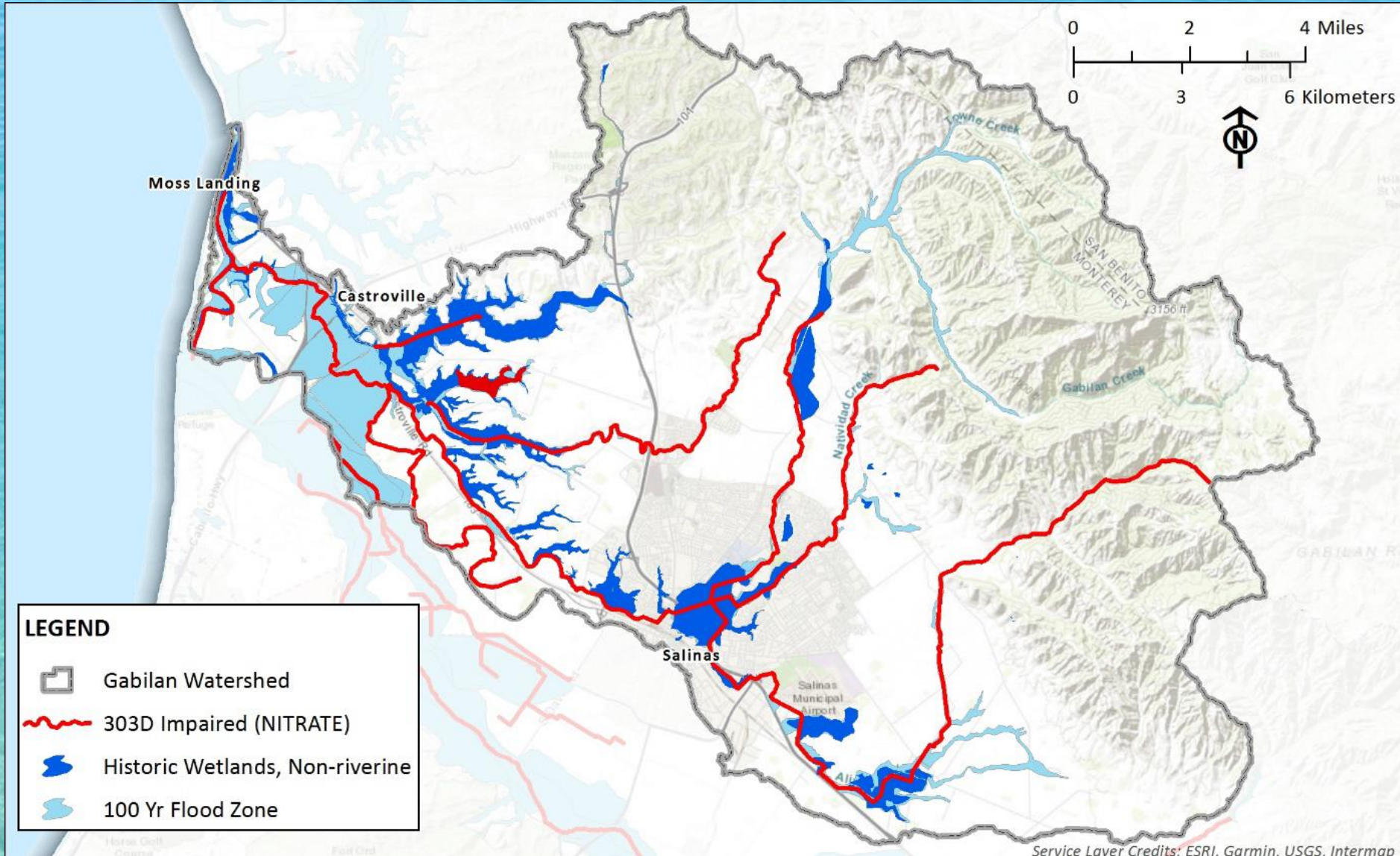
3. Landscape-Based Watershed Function Projects

Use geographic information systems and hydrologic modeling to identify locations and timing for multi-benefit projects:

- Water Quality
- Water Supply
- Flood Control
- Environmental and
- Community Benefits

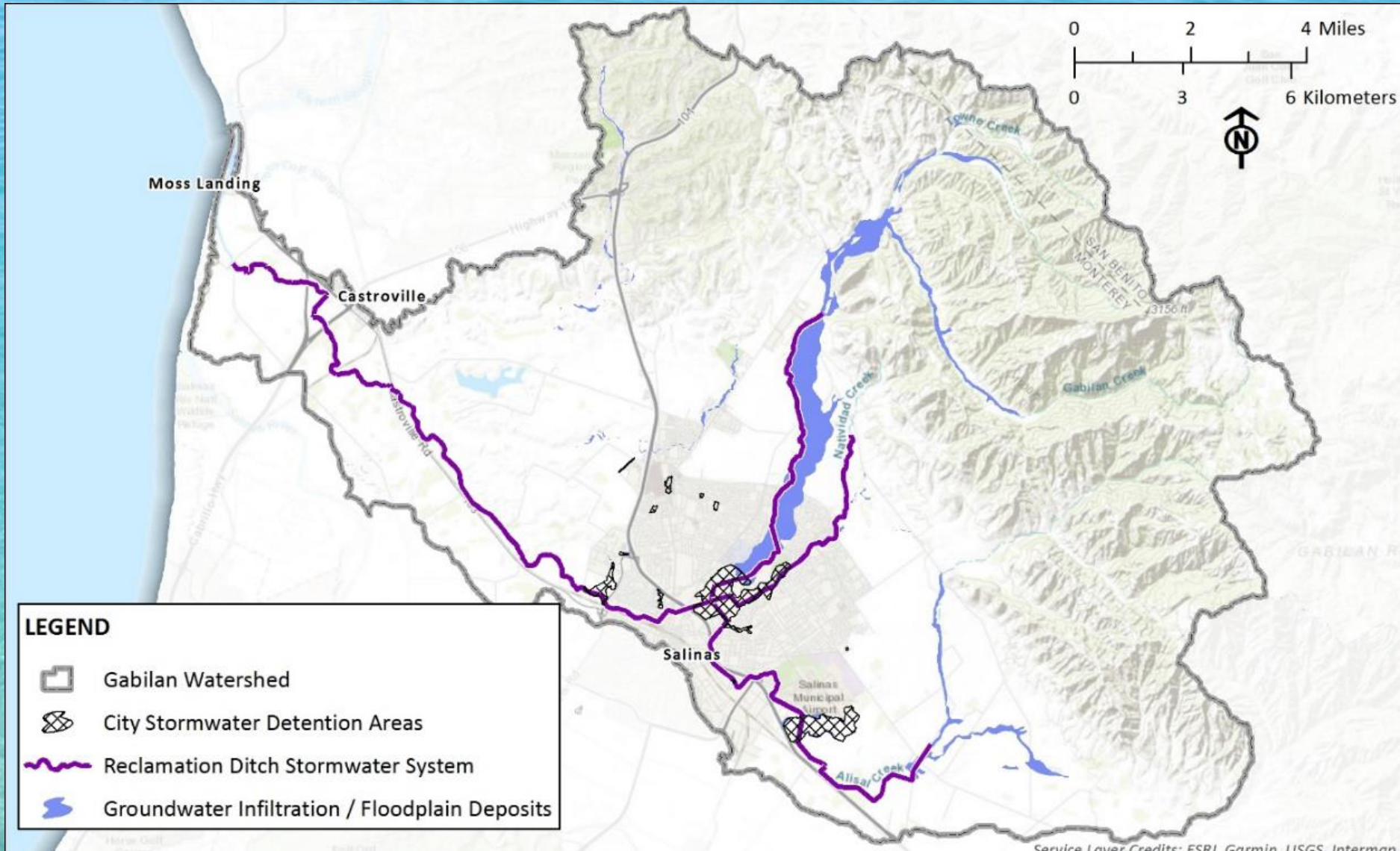
Landscape-Based Watershed Function Projects

Geomorphic Depressions and Historical Wetlands Adjacent to Impaired Waterways



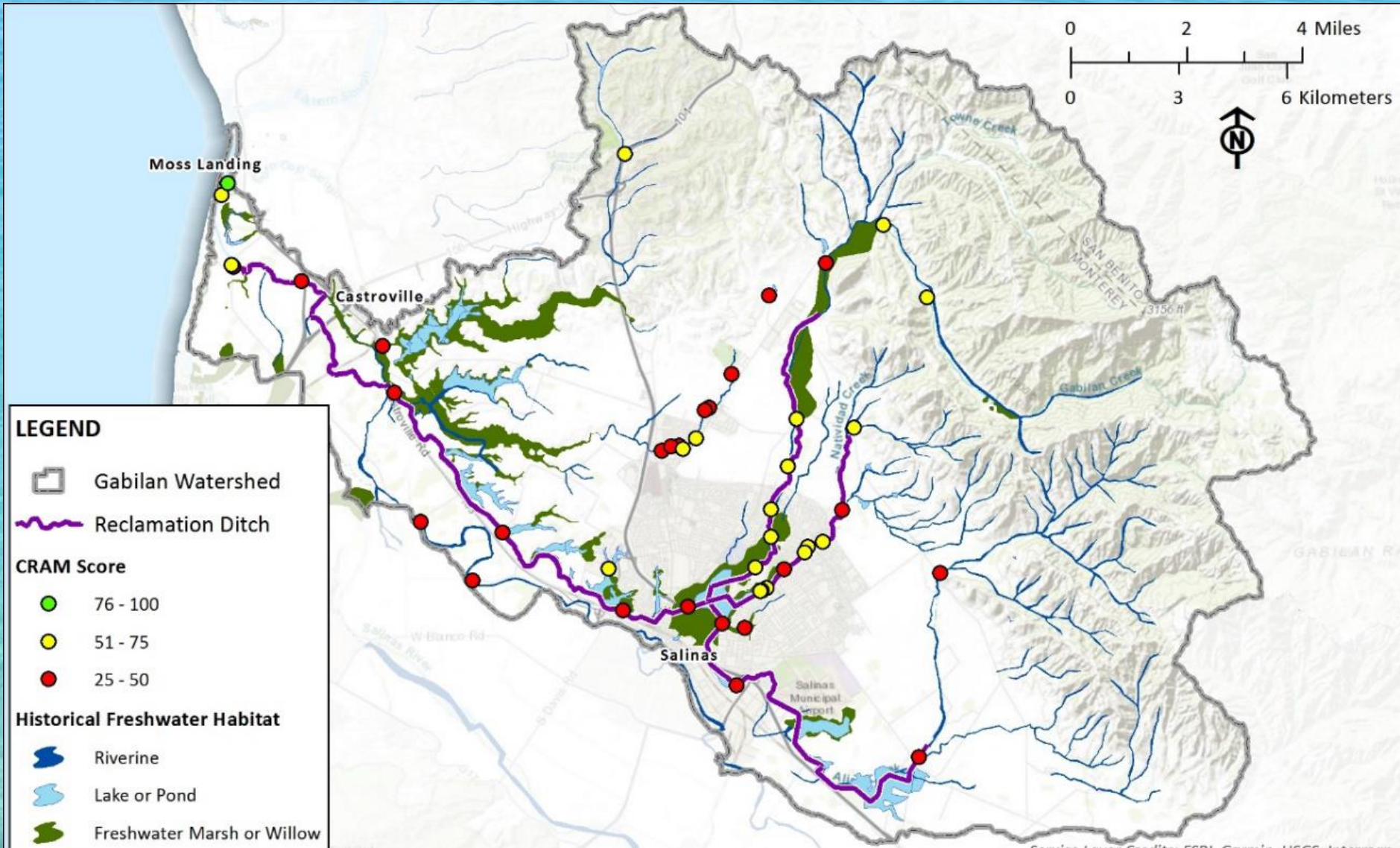
Landscape-Based Watershed Function Projects

Suitable Areas for Storm Water Infiltration



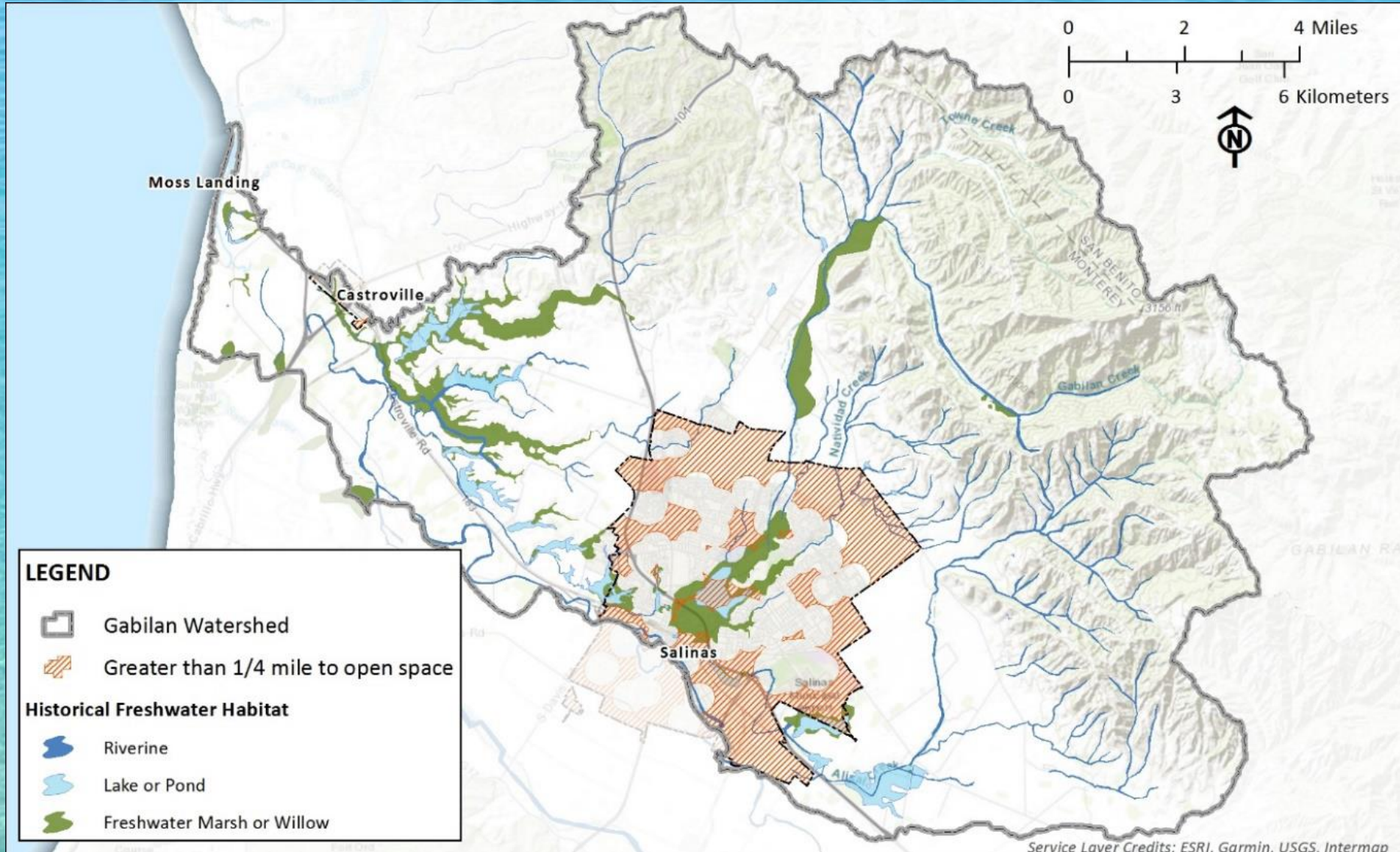
Landscape-Based Watershed Function Projects

Suitable Areas for Habitat and Treatment Wetlands



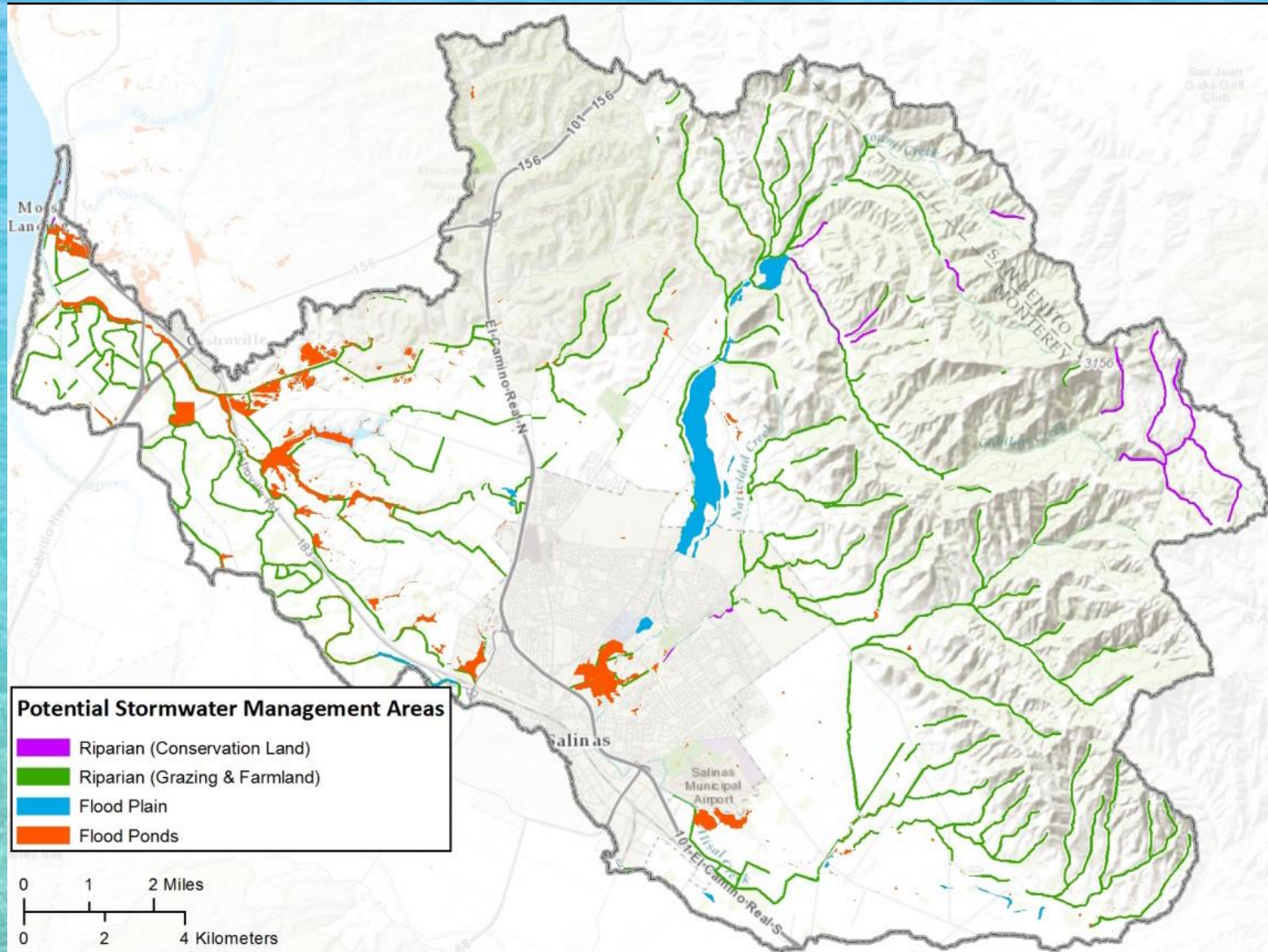
Landscape-Based Watershed Function Projects

Neighborhoods and Distance from Community Open Space



Landscape-Based Watershed Function Projects

Priority Areas for Multi-benefit Storm Water Projects



Landscape-Based Watershed Function Projects

Aquatic vegetation and wood chips
at a storm water treatment wetland



Landscape-Based Watershed Function Projects

Water storage and treatment
in a restored wetland



Landscape-Based Watershed Function Projects

Water storage and treatment
in a restored wetland



Carr Lake Project

Storm water management and multi-benefit green space



Cumulative Benefits

Table 6.6 Benefits of the One Funded and Seventeen Proposed Implementation Projects

Project Applicant	Project Title	Water Quality	Water Supply	Flood Benefits	Environmental Benefits	Community Benefits
		NO3-N Load Reduction (kg/year)	Storm Water Captured for Reuse (af/y)	Decrease in Inundated Area (acres)	Wetland Habitat Created (acres)	New Park and Open Space (acres)
Greater Salinas SWRP Project Funded in Round 1						
Monterey One Water	Storm Water Diversion Implementation and Water Supply	18,400	1,400	ND	ND	ND
Concept Proposals, This SWRP						
Big Sur Land Trust	Carr Lake Project	ND	419	88	73	73
Central Coast Wetlands Group	Gabilan Floodplain Enhancement Project	ND	ND	ND	84	ND
Central Coast Wetlands Group	Salinas to the Sea Storm Water Management, Community Development, and Habitat Enhancement Project	10,562	ND	ND	500	100
City of Salinas	Acosta Plaza Urban Drainage Restoration	ND	ND	ND	ND	ND
City of Salinas	Lincoln Green/Complete Street	ND	ND	ND	ND	ND
Monterey One Water	Ocean Outfall Beach Junction Structure Managed Retreat Project	ND	ND	ND	ND	ND
Moss Landing Harbor District	South Moss Landing Harbor Water Quality Project	ND	ND	ND	14	ND
Resource Conservation Districts	Storm Water Management, Collection, and Infiltration on Private and Public Lands	ND	195	ND	ND	ND

Cumulative Benefits

Project Applicant	Project Title	Water Quality	Water Supply	Flood Benefits	Environmental Benefits	Community Benefits
		NO3-N Load Reduction (kg/year)	Storm Water Captured for Reuse (af/y)	Decrease in Inundated Area (acres)	Wetland Habitat Created (acres)	New Park and Open Space (acres)
Design Proposals, This SWRP						
Central Coast Wetlands Group	Blanco Drain Treatment Wetland	ND	ND	ND	11	ND
Central Coast Wetlands Group	Castroville and Moss Landing Storm Water Enhancement Project	ND	66	67	7	1
Central Coast Wetlands Group	Espinosa Lake Flood Retention Project	7,552	12	29	185	185
Central Coast Wetlands Group	Old Salinas River Treatment Wetland	ND	ND	ND	5	ND
City of Salinas and Monterey One Water	Salinas Area Flood Enhancements and Reuse Project	ND	300	ND	ND	ND
City of Soledad	Soledad Regional Recharge Project	ND	272	7	ND	4
County of Monterey	Bioswales for Davis Road Bridge Replacement and Road Widening Project	ND	1	ND	ND	ND
Elkhorn Slough Foundation	Ridgeline to Tideline	ND	180	ND	150	ND
Monterey One Water/ Central Coast Wetlands Group/City of Salinas	Salinas Water Quality and Agricultural Reuse Efficiency Project	ND	300	ND	35	ND
Total		36,514	3,145	191	1,064	363



Thank you