



# Update-Analysis of Replacement Project Alternatives for DWR Grant

JUNE 21, 2016 FLOOD CONTROL ZONE 9 ADVISORY BOARD

# Tonight's Meeting

- Review process and timeline to use Department of Water Resources (DWR) grant funds on a set of different projects (former Memorial Park Grant)



# DWR Grant Migration Replacement Alternatives

<b>Project Components</b>	Sleepy Hollow Creek Watershed Alternative	Fairfax Creek Watershed Alternative 1 – Including Former Sunnyside Nursery	Fairfax Creek Watershed Alternative 2 – Including Lefty Gomez Field	No Detention Basin Alternative
<b>Detention Basin Location(s)</b>	Brookside Elementary	Former Sunnyside Nursery Site	Lefty Gomez Field School Site	NA
<b>Creek Improvements</b>	Sleepy Hollow Creek improvements	San Anselmo Creek improvements	Sleepy Hollow Creek improvements	San Anselmo Creek improvements
<b>Bridge Replacements/Removals</b>	Morningside Drive Bridge Replacement	Modify Building Bridge 1 and Building Bridge 2	No Bridge improvements	Sir Francis Drake Boulevard Bridge (San Anselmo)



# DWR Considerations

Project meets DWR grant requirements

- Flood Risk Reduction
- Environmental Enhancement Opportunities
- Recreational Enhancement Opportunities

Ability to implement project by 2020

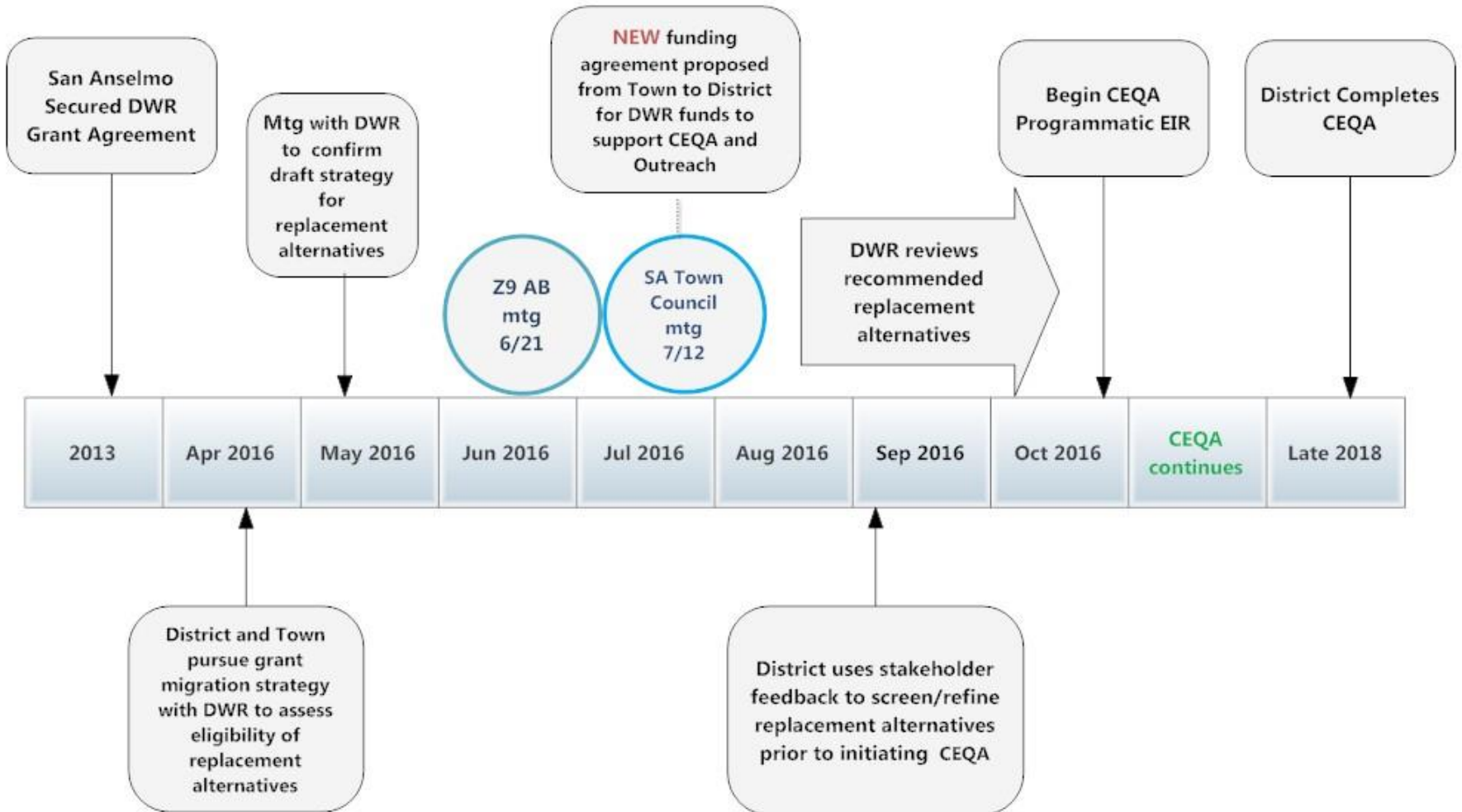
- Ability to gain public acceptance
- Project components are part of current Programmatic EIR (PEIR) process slated to begin this fall
- Obtain environmental permits
- Obtain necessary Division of Safety of Dam approvals if basin considered
- Acquire right of way/easements and other agreements necessary to construct project

Ability to fund project

- Less than \$17.6 million (original cost for Memorial)



# Ross Valley Watershed Program-DRAFT DWR Grant Migration Timeline for Outreach and CEQA



6/21/16



**District conducts outreach to assess project feasibility**



# DWR Grant Migration Timeline

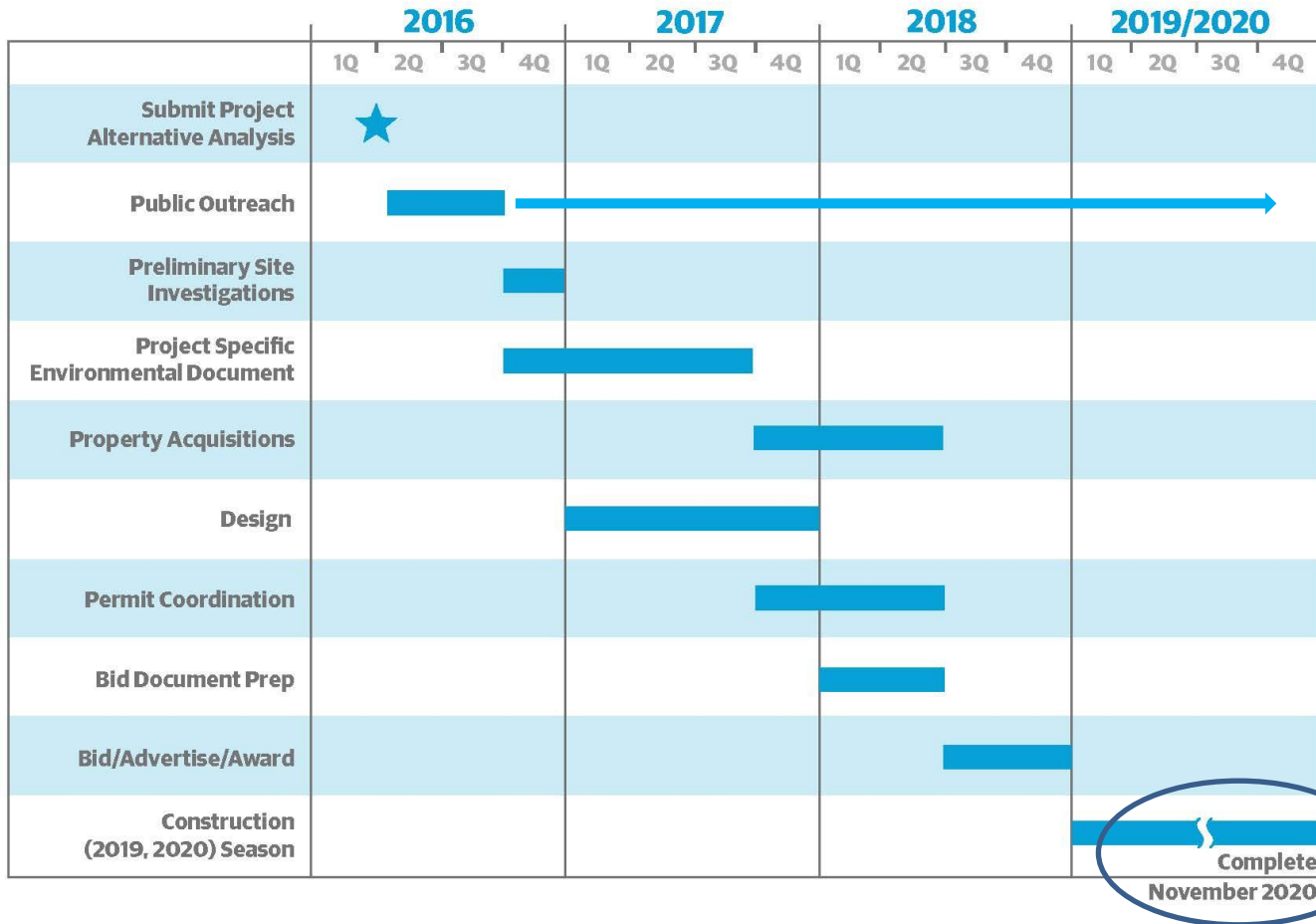


Figure 6  
**Sample Replacement Project  
 Implementation Schedule**  
*Analysis of Project Alternatives for DWR Grant*

# Upcoming Meetings

July 7, 2016 -7pm Isabel Cook Community Center, 1000 SFD Blvd

July 12, 2016-*(tentative)* 7pm San Anselmo Town Council meeting



# Next Steps

- ✓ Conduct public outreach to solicit comments on all replacement alternatives
- ✓ Continue meetings with DWR staff to identify grant replacement alternatives
- ✓ With public support, begin environmental compliance, further modeling analysis, right of way acquisition, and design of the selected replacement alternative







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# Sleepy Hollow Watershed Creek Alternative

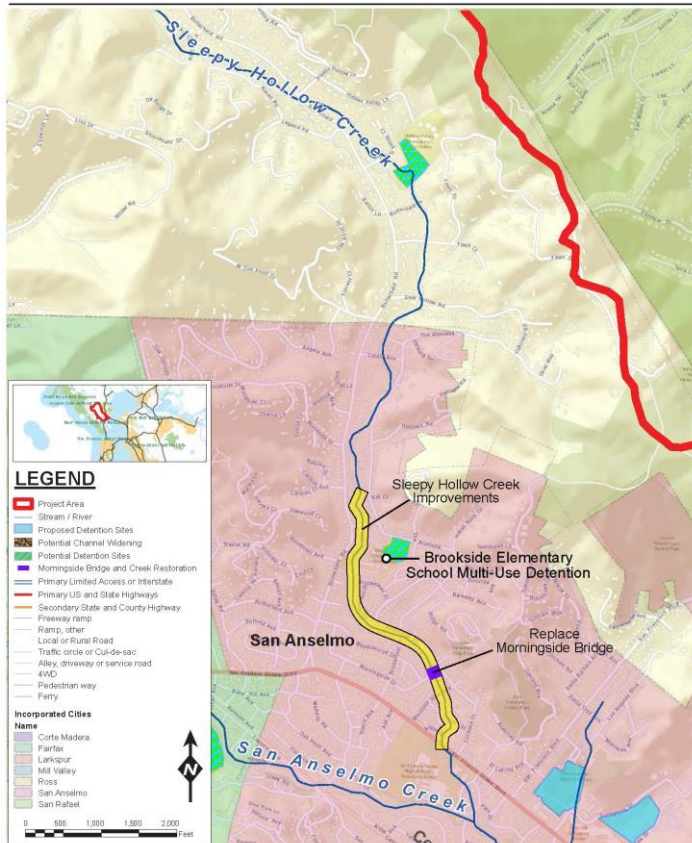


Figure 2  
Sleepy Hollow Creek Watershed Alternative  
Analysis of Project Alternatives for DWR Grant

## Project Benefits

- Detention basins on school site provides an opportunity to upgrade field and recreational facilities
- Removal/replacement of Morningside Drive Bridge eliminates obstruction and reduces flood risk
- Implementing creek restoration measures along Sleepy Hollow Creek provides opportunities for environmental enhancement

# Fairfax Creek Watershed Alternative # 1 including former Sunnyside Nursery site

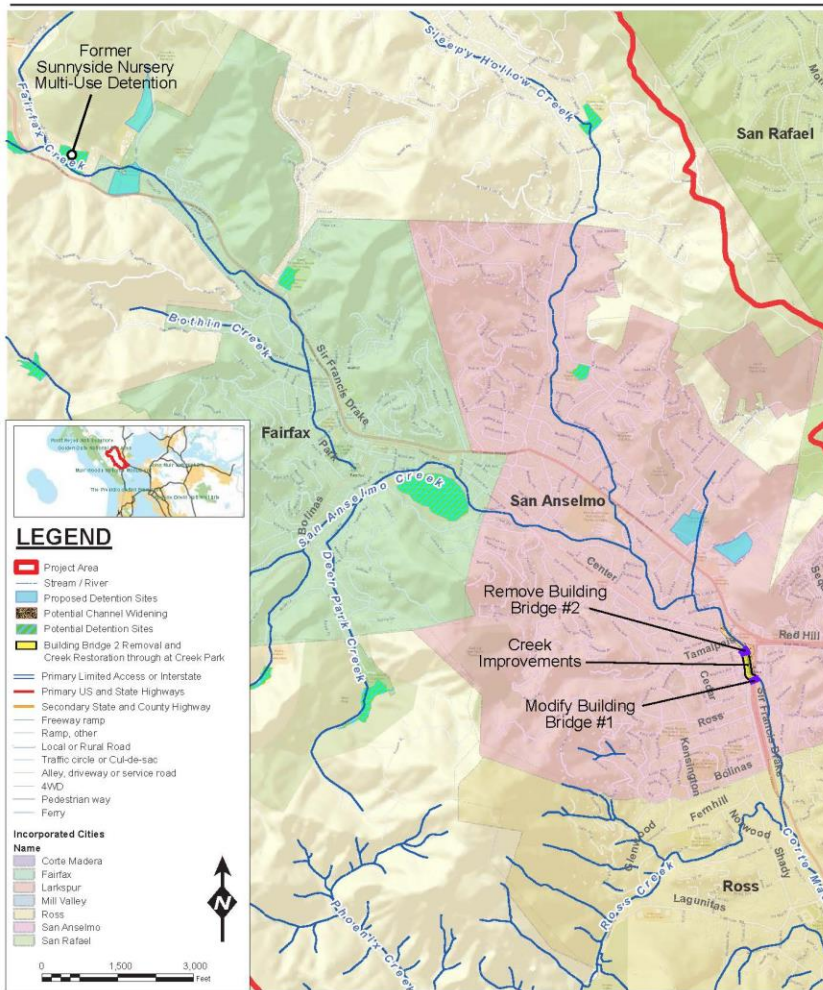
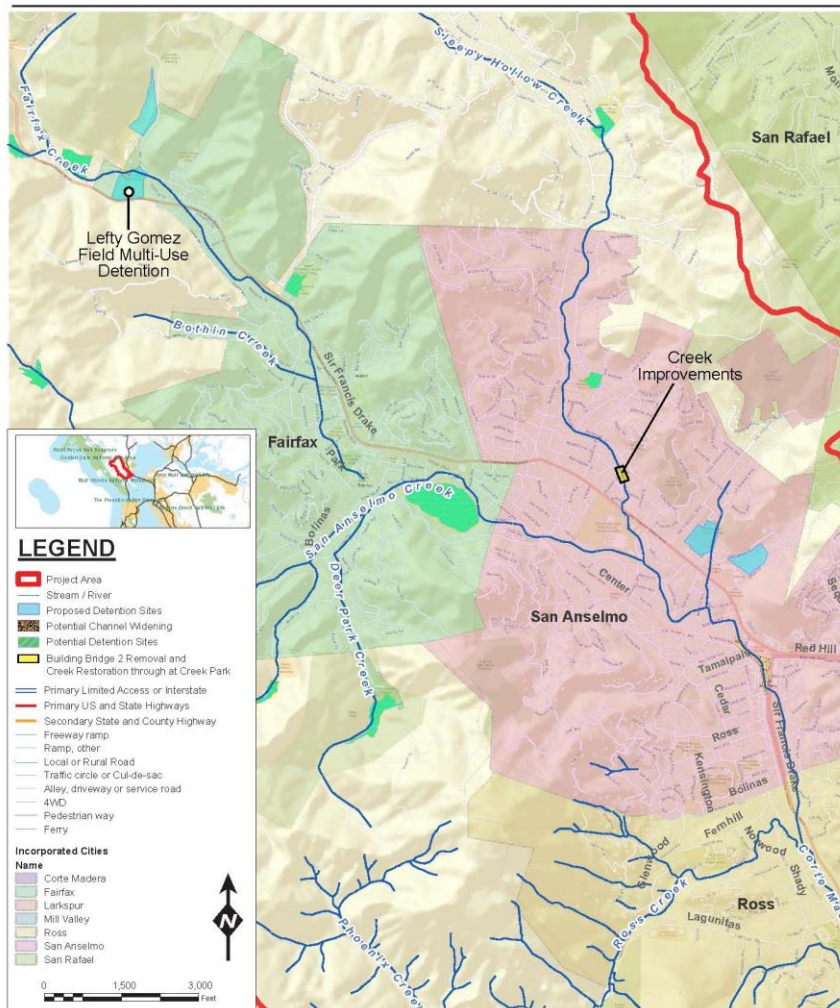


Figure 3  
Fairfax Creek Watershed Alternative 1 –  
Including Former Sunnyside Nursery  
Analysis of Project Alternatives for DWR Grant

## Benefits

- Potential to store of a moderately large volume of storm water runoff to reduce flooding risk downstream in San Anselmo
- Redeveloping the Former Sunnyside Nursery site and developing it into an open space provides both recreational and environmental enhancement opportunities
- Providing an off-stream mitigation site will facilitate the acquisition of future environmental permits for other in-stream projects
- Removal/replacement of Building Bridge #1 and #2 eliminates obstruction and reduces flood risk in San Anselmo
- Implementing creek restoration measures along San Anselmo Creek provides opportunities for environmental enhancement
- Potential to reduce future potable water usage and energy needs at the site

# Fairfax Creek Watershed Alternative 2 including Lefty Gomez Field

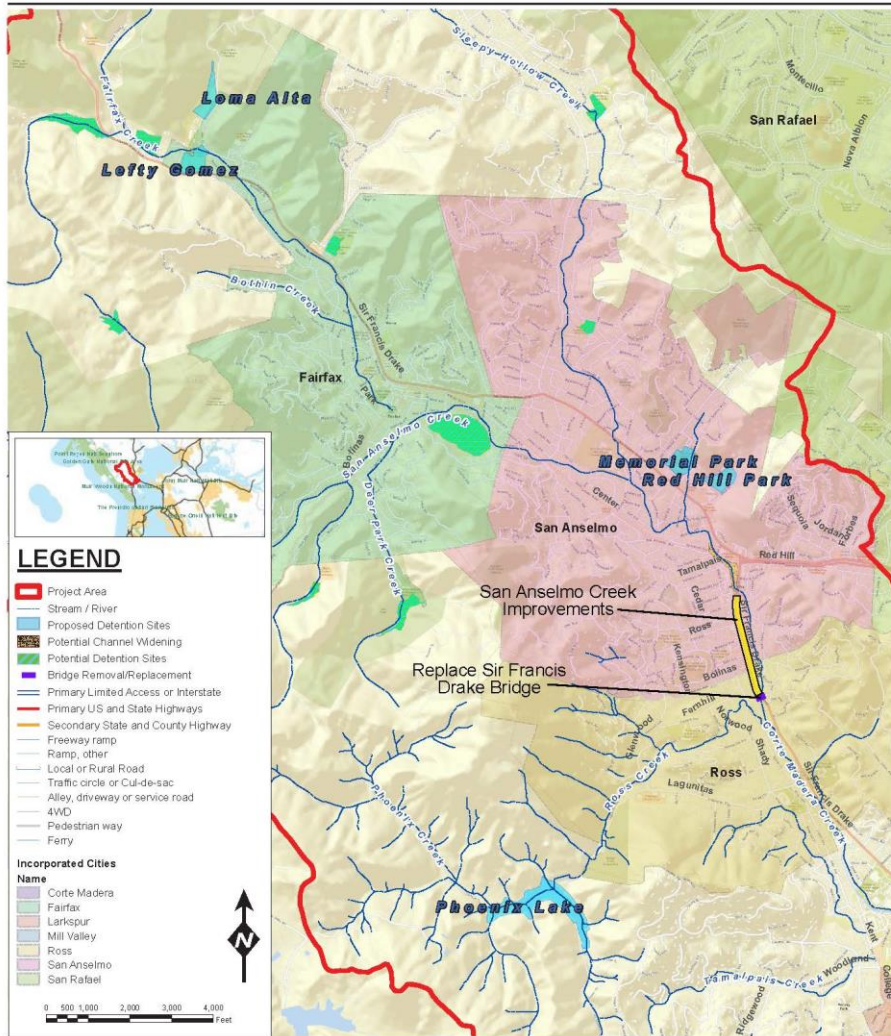


## Benefits

- Potential to store a large volume of storm water runoff to reduce flooding risk downstream in San Anselmo
- Detention basin on school site provides an opportunity to upgrade field and sports facilities
- Implementing creek restoration measures along Sleepy Hollow Creek provides opportunities for environmental enhancement
- Does not require acquisition of right of way from private property owner

**Figure 4**  
**Fairfax Creek Watershed Alternative 2 –**  
**Including Lefty Gomez Field**  
*Analysis of Project Alternatives for DWR Grant*

# No Detention Basins



## Ross Valley Flood Protection and Watershed Program Alternative Flood Reduction Elements

- A Building Bridge 2 removal and creek restoration through at Creek Park
- L Camp Bothin
- M Nursery near Baywood Canyon Drive and Sir Francis Drake Boulevard
- O Hidden Valley Elementary School
- P Brookside Elementary School
- R Deer Park

**Figure 5**  
"No Detention Basin" Alternative  
Analysis of Project Alternatives for DWR Grant



## Benefits

- Potential to improve localized flooding along San Anselmo Creek upstream of Corps Unit 4 Project
- Replacement of Sir Francis Drake Blvd. Bridge (downstream) eliminates obstruction and reduces flood risk
- Implementing creek restoration measures along San Anselmo Creek provides opportunities for environmental enhancement

# Grant Requirement Checklist

	DWR Grant	Sleepy Hollow Creek	Fairfax Creek Alternative 1	Fairfax Creek Alternative 2	No Detention Basin
	Memorial Park Project	Hidden Valley and Brookside School	Former Sunnyside Nursery Site	Lefty Gomez Field	
<b>Ranking Criteria*</b>					
<b>A. Community/Social Benefits</b>	Yes	Yes	Yes	Yes	Yes
<b>B. Environmental Stewardship Benefits</b>	Yes	Yes	Yes	Yes	Yes
<b>C. Sustainability Benefits</b>	Yes	Yes	Yes	Yes	Yes
<b>D. Acres of Habitat Created/Restored</b>	0.2	0.2	2.0	minimal	0.2
<b>E. Project Cost ( 2018 dollars)*</b>	\$17.6 M (2011 dollars)	\$15.6M	\$17.2M	\$16.90M	\$17.4M

\*Costs are preliminary based on readily available information and are subject to change and refinement based upon further study. Components of each project can be modified to reduce overall project costs.

**Notes:**

1. Detailed Grant Requirement Checklists for each alternative can be provided upon request.
2. Flood risk reduction is included in Community/Social Grant Requirements (Questions 3 and 4).