

North Bay Watershed Association



BAIRWMP Update/North Bay Sub-region

I Projects submitted for Plan Update

II Project Ranking Process

III Implementation Grant-Round 2- Process
& Prop 1-E

IV Benefit Cost Analysis- ECON Project

V North Bay projects Dialogue

2012 Projects submitted

www.bairwmp.org, -

click “IRWMP PROJECTS

AS OF 10/1/2012

- Bay Area Total- ~314 projects
- Regional ~ 28 projects
(2 or more sub-regions)
- East ~ 166
- South ~15
- West ~ 30
- North- 79

97 North Bay Projects -

<http://bairwmp.org/projects/queries/north-subregion-projects>

- Regional-18
- Multi County-5
- Marin-43
- Napa-14
- Solano-11
- Sonoma- 6

Regional-North Bay-18

350 Home and Garden Challenge Bay Area(Daily Acts~ \$.5m)

Bay Area Green Infrastructure (SFEI~ \$.5m)

Bay Area Regional Water Conservation and Education Program(Zone 7~\$17m)

Bay-Friendly Landscape Standards(Bay Friendly??)

Bay-Friendly Outreach Campaign for Home Gardeners and Nurseries (BF ?)

Bay-Friendly Qualified Landscape Professionals Training (BF?)

Beach Watch Program (N,S, W) (Farallones Marine Sanctuary Assoc.~\$.25m/yr)

Building Climate Change Resiliency Along the Bay...(N,E, S) (SFEP~\$5.2m)

Cleaning up trash in the Bay Area's stormwater (SFEP~\$5-10m)

Developing a Conservation Reserve Enhancement Program.. (Def.of Wldl ~\$.03m)

Improving Quantitative Precipitation Information for the S.F. B. Area (Z7~\$12m)

Regional Green Infrastructure Capacity Building Program (SFEP -tbd)

Regional Sea Level Rise Adaptation Strategy (JPC ~ \$20m)

Resilient Landscapes Climate Adaptation Strategy(SFEI~\$1.5-2.5m)

San Francisco Bay Livestock and Land Program (Ecol. Action~\$1.5m)

San Francisco Bay Tidal Marsh-Upland Transition Zone DSS (SFBBO~\$.5m)

The Bay Area Creek Mouth Assessment Tool (SFEP ~\$.15m)

The Students and Teachers Restoring A Watershed (N,E, W) (STRAW~\$1.2m/yr)

Multi County- 5

- Implementing "Slow It, Spread It, Sink It!" in Sonoma and Napa Counties (SSCRCD ~\$1-1.5m)
- Implementing LandSmart Plans to Improve Water Quality (Napa, Sonoma) (Napa RCD~\$ 2m)
- Implementing TMDLs in the Napa River, Sonoma and Suisun Creek watersheds with the Fish Friendly Farming/Fish Friendly Ranching programs (Napa, Sonoma, Solano) (CSLI~\$.4m)
- North Bay Water Reuse Program (Marin, Napa, Sonoma) (NBWRA~ \$100m)
- Water Conservation and Mobile Water Lab Program (Napa, Sonoma) (SSCRCD~\$.4-.6m)

Marin-43

- Bel Marin Keys Phase of the Hamilton Wetlands Restoration (SCC~ \$200m)
- Bolinas Avenue Stormwater Quality Improvements and Fernhill Creek Restoration (Town of Ross~ \$1.85m)
- Bolinas Lagoon Ecosystem Restoration Project (MCOSD ??)
- Conserving Our Watersheds (RCD~ \$.8m)
- Corte Madera Bayfront Flood Protection and Wetlands Restoration Project (Audubon~ \$5m)
- Corte Madera Creek Headwaters Restoration Plan (Co-Parks~\$.058m)
- Corte Madera Creek Tidal Marsh Restoration (FOCMC~ \$10m)

Marin Cont'd

- Corte Madera Creek Watershed: FCWCD-10 ~\$44m
- Broadmoor Avenue Bridge Replacement and Creek Bank Restorations-\$2m
- Fairfax Creek Improvements~\$3.5m
- Lefty Gomez Field Detention Basin~\$7.5m
- Loma Alta Tributary Det. Basin~ \$2.25m
- Memorial Park Det. Basin ~\$6.5m
- Merwin Avenue Bridge Replacement and Creek Bank Restorations ~\$2.5m
- Nokomis-Madrone Neighborhood Flood Protection~\$2.5m
- San Anselmo Creek Improvements~\$10m
- Sleepy Hollow Creek Improvements~\$3m
- Sedimentation Management~\$4m

Marin Cont'd

- Corte Madera Creek Watershed Infiltration and Storage Assessment (FOCMC ~\$2m)
- Corte Madera Creek Watershed Sediment Control and Drinking Water Reliability Project (MMWD ~\$1.2m)
- Corte Madera Creek Watershed: Barriers to Fish Passage in Sleepy Hollow Creek (San Anselmo ~\$2m)
- Corte Madera Creek Watershed: Saunders Fish Barrier Removal(San Anselmo ~\$2m)
- Corte Madera Creek Watershed: Smolt Trapping (FOCMC~\$.1m/yr)
- Lagunitas Booster Station (MMWD ~\$.3m)
- Lagunitas Creek Watershed Sediment Reduction and Management Project MMWD ~\$.84m)
- Lagunitas Creek Winter Habitat Enhancement Implementation (MMWD ~\$.68m)
- LID and Stormwater Management - Lagunitas Watershed (Watershed Project~\$.32m)

Marin Cont'd

- Mapping Marin County's Flood Control Levees (Co. ~\$.4m)
- Marin County Flood Control Asset Management (Co.~ \$.2m)
- Marin County Sea Level Rise Land Use Adaptation (CO-CDA ~\$.325 m)
- McInnis Marsh Habitat Restoration Project
(Co.-Parks~ \$.075m)
- Miller Avenue Green Street Plan(City~\$1.8m)
- Montezuma Creek Rehabilitation and Fish Passage Project (Co.-Parks~\$.38m)
- NMWD Gallagher Well and Pipeline Project (NMWD ~\$1.6m)
- North Marin Water District Marin Country Club Recycled Water Expansion (NMWD ~\$4.4m)
- Peacock Gap Recycled Water Extension Project(MMWD~\$8.4m)

Marin Cont'd

- Redwood Creek Restoration at Muir Beach, Phase 5(GGNPC~\$1.4m)
- Richardson Bay Erosional Shoreline Adaptation to Sea Level Rise: Draft Conceptual Designs and Opportunity/Constraints Assessment (Co~\$2m)
- San Geronimo Landowner Assistance Program- Habitat Restoration Projects(Co.~\$.75m)
- Sediment Management Plan for the Gravel Creek Watershed (Vedanta Society~\$.2m)
- Soulajule Mercury Remediation (MMWD~\$1.75m)
- Stinson Beach flood protection and habitat enhancement project (Co.~\$.2m)
- Tomales Bay Watershed Water Quality Monitoring and Improvement Program (TBWC~\$.78m)
- Upland Transition Zone Mapping for Southern San Pablo Bay (West) (Gallinas WC~ \$.045m)

Napa-14

- Collaborative Aquatic Resource Protection in the Watershed Context: (SFEI~ \$.75m)
- Implementation of the Napa River Watershed Assessment Framework(RCD~ \$.6m)
- Milliken Creek Flood Reduction, Fish Passage Barrier Removal and Habitat Restoration (Co.~\$ 1m)
- Milliken Diversion Dam Flow Control (City of Napa-~ \$1m)
- Napa County Groundwater/Surface Water Monitoring Wells (Co-~ \$.3m)
- Napa River Arundo Removal Lodi Lane to Zinfandel Lane (Co-~\$.08m)
- Napa River Restoration, Bioassessment & Education Project (ICARE~\$.93M)

Napa Cont'd

- Napa River Restoration: Oakville to Oak Knoll Reach (Co.~ \$20m)
- Napa River Rutherford Reach Restoration Project (Co~ \$21m)
- Removing Fish Passage Barriers in the Napa River Watershed (RCD ~ \$3m)
- Salvador Creek Integrated Flood and Watershed Improvements (Co.~ \$1m)
- Upper Napa River Water Quality Improvement and Habitat Enhancement Project (CLSI~ \$1m)
- Upper York Creek Dam Removal -- St. Helena (City~ \$4.6m)
- Watershed Information Center & Conservancy of Napa County (Co\$\$1m)

Solano-11

- Goat Island Marsh Tidal Marsh Restoration & Interpretive Nature Trail (SLT~\$2 m)
- Lynch Canyon Watershed Improvements (SLT ~\$.13 m)
- Rindler Creek: Habitat Restoration and Erosion Control (RCD-?)
- Rush Ranch HQ Storm Water Management, Public Access & Rangeland Improvements (SLT~ \$.27m)
- Solano Project Terminal Reservoir Seismic Mitigation (SCWA~ \$50m)
- Southwestern Solano County Open Space Acquisition and Watershed Assessment (SLT-\$.65m)
- Spring Branch Creek Tidal Marsh & Seasonal Creek Restoration (SLT~ \$.5m)
- Suisun City Flood Management and Habitat Restoration Proj. (City~ \$.375 m)
- Suisun Valley Flood Management (SCWA~ \$20m)
- Water Supply and Instream Habitat Improvements in Suisun Creek (CLSI~ \$.3m)
- White Slough Flood Control and Improvement Project(VSDCD~ \$2.88m)

Sonoma-6

- Ash Creek Stormwater Management and Wildlife Enhancement Project (RCD~ \$.4 m)
- City Watersheds of Sonoma Valley (SCWA~ \$10m)
- Petaluma Flood Impact Reduction, Water & Habitat Quality, Recreation, Phase IV (RCD~ \$14.7m)
- Sears Point Restoration Project (SLT ~\$18m)
- Sonoma Valley Groundwater Banking Program (SCWA ~\$ 2.6m)
- Sonoma Valley Integrated Water Management Program (SCWA~ \$ 50m)

II Project Ranking Process

- <http://bairwmp.org/content/submitting-a-project-to-the-bay-area-irwmp>
- Click on- **Project Scoring and Ranking Methodology**

Projects were screened first by sub-regions-not on “active list” if

- do not meet the IRWM goals or objectives
- are not located in, or they do not benefit, the IRWM Region
- do not comply with DWR guidelines, particularly technical feasibility

Projects will be scored and ranked by consultant-KJ and then reviewed by
Project Screening Committee-Review at October 22 Coordinating
Committee meeting

Projects will likely be placed in Tiers

Scoring Criteria -735 max

- Addresses Multiple Goals (200)
- Integrates Multiple Resource Management Strategies (120)
- Strategic Considerations for IRWM Plan implementation (100)
 - Regional, Partners, Integration with land use
- Project Status (10)
- Technical Feasibility (75)
- Benefits to Native American Tribal Community Water Issues (15)
- Environmental Justice Considerations (15)
- Project Costs and Financing (cost estimates, match) (50)
- Economic Feasibility (50)
- Climate Change Adaptation (50)
- Reducing GHG Emissions (50)
 - Yes/ No

Benefits to DAC Water Issues

Reducing dependence on the Delta

III Implementation Grant-Round 2

Prop 84 &1-E

Prop 84-tentative schedule- Application due Mid March 2013

- Lead Applicant identified- San Francisco Estuary Partnership (SFEP)
- Oct-Nov.-Request additional information from project proponents interested in being considered for grant proposal
- Nov.-Develop recommendations on approach to next grant proposal.
- Nov-Jan.-Carry out prioritization process for projects to include in proposal. Formulate recommendations for CC.
- January-Decide composition of grant proposal after PSC review – (regional, sub-regional, functional area emphasis, etc.)
- In parallel
 - Procure consultant
 - Develop Cost Sharing Agreement

Prop 84 cont'd

■ Round 2

Likely Maximum for Bay Area- ~ \$20.086 million

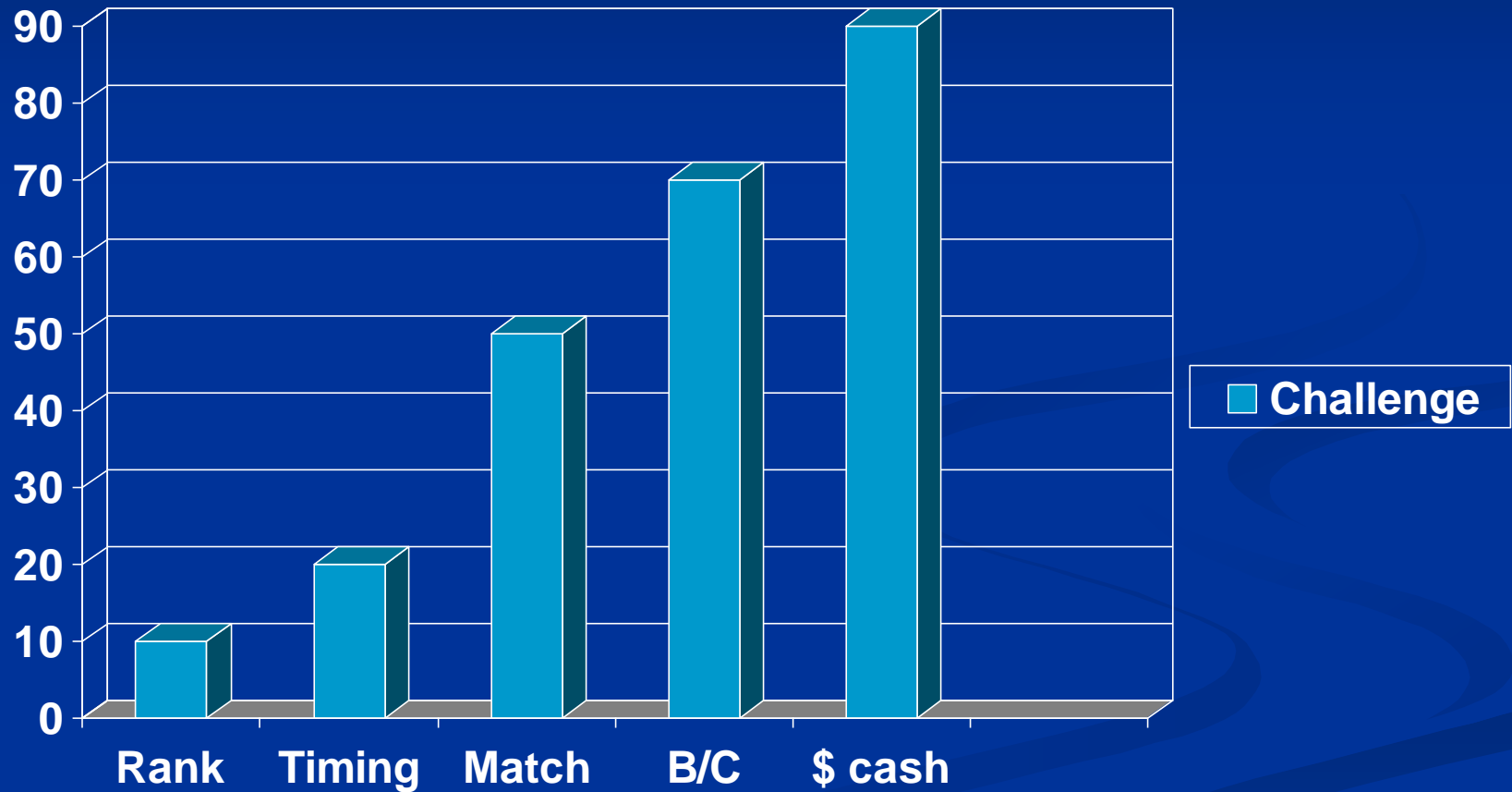
Round 3 ?? Remainder ~ \$74 million

2014 –New Bond funding?

Factors to consider for Implementation Grant

- Ranking of project
- Timing of project- next 3 years
- Match available- 25 % or greater
- Cost of project compared to available funds
- Ability to complete Benefit Cost Analysis
- Ability to contribute to consultant costs
(Estimate-\$75 k total)

Implementation Grant Challenges for small projects



North Bay \$5 million EXAMPLE

	Allocation	Amount
Marin	.2870	\$1.435 m
Napa	.2350	\$1.175 m
Solano	.2710	\$1.355 m
Sonoma	.207	\$1.035 m

Allocation based on Bay Area
formula -

.5 number of entities
.25 population
.25 land area

\$5 million probably high estimate for Round 2

IV Benefit Cost Analysis

- ECONorthwest project- Approved by NBWA Board on Sep. 7
- **Handbook for Benefit-Cost Analysis**
Consistent with DWR Guidance

Background

- Round 1 Prop 84
 - Cost/Benefit analysis was 45 out of 85 points
 - More challenging for watershed, habitat, storm water projects
 - Influenced project selection for Bay Area Round 1 submittal
 - Expensive portion of application

Round 2

- \$ 20,086,000 for Bay Area
- Table 1 – IRWM Plan Standards Questionnaire
- Modified Economic Analysis-(Cost/Benefit)
-> Benefit /Cost
- http://www.water.ca.gov/irwm/docs/ImplementationGrants/ImpPSP_Round2_2012_DRAFT.pdf

Cost/ Benefit changes

- Deleted from 2010

*Prior to submission of a suite of projects for grant funding, all proposed projects must have had a complete benefit-cost or cost-effectiveness analysis. Analysis period shall be 50 years and discount rate shall be 6 percent. Project ranking shall be adjusted based on the results of the benefit-cost or cost-effectiveness analyses.

- ***New PSP-BENEFITS AND COST ANALYSIS***

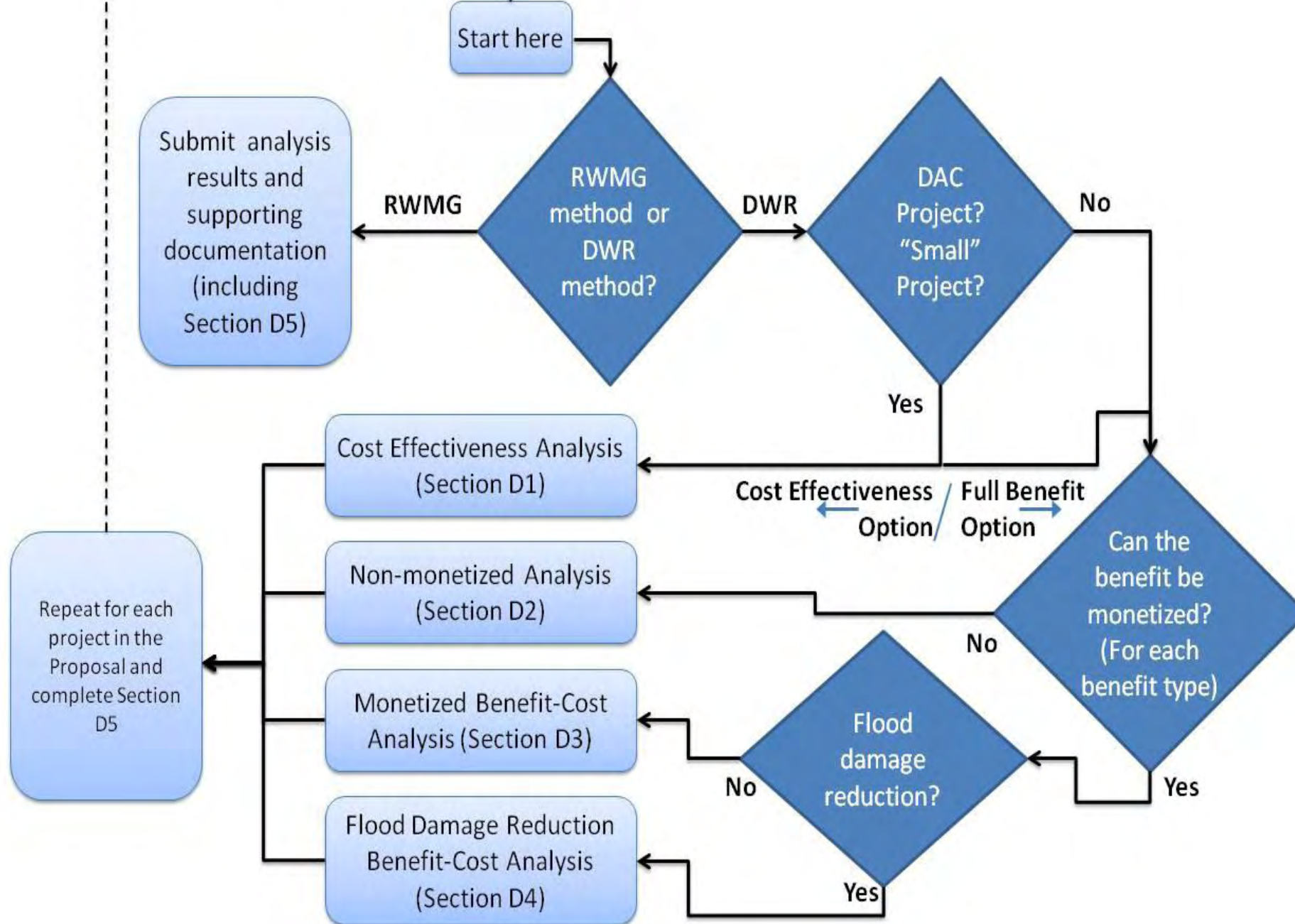
Consistent with the IRWM Program 2012 Guidelines, all projects must yield multiple benefits to be eligible for grant funding. Describe and quantify the benefits and costs of each project in the proposal. The content provided in this attachment will be evaluated in a cumulative manner to see how all project benefits (combined) compare against the costs of all projects in the proposal. Individual project benefit analysis requirements vary as they depend on the type of project or benefit type.

Scoring

1

2

Workplan	15	15
Budget	5	5
Schedule	5	5
Mon. & Ass.& Perf. Meas.	5	5
Technical-Physical benefits	////////	10
WS-Econ. Anal.-Cost/benefit	15	////////
W Q & Other benefits	15	////////
Flood Damage-C/B	15	////////
Benefits and Cost Analysis	////////	30
Program Preferences	10	10
Total	85	80



Benefit/ Cost

- **Section D5 – Project Benefits and Cost Summary.**
Table 20 must be completed for each proposal that includes every project's benefit and cost information, even if no economic benefits are monetized.
- **Table 20 – Proposal Benefits and Costs Summary (Was -Proposal Project Costs and Benefits Summary)**
Last Column- From Section D2 – Briefly describe the main Non-monetized benefits
(Was-B/C Ratio)

Benefits and Cost Analysis

-Scoring Notes

- Points may be reduced if DWR determines that the benefits described in the Non-Monetized Benefit Analysis (Section D2) could readily be quantified in dollar terms. This judgment may involve the type of benefit, the size of the project, and the availability of information.
- If DWR determines that FDR project benefits can be monetized, but the applicant did not present the benefits, the applicant risks losing points.

ECONorthwest

Handbook for Benefit-Cost Analysis Consistent with DWR Guidance

- **Task 1. Review the New Guidelines and Interview Key Stakeholders**
- **Task 2. Describe Economic Framework for Analysis**
- **Task 3. Develop Illustrative Economic Values for Bay-Area Projects**
- **Task 4. Describe Unquantifiable Economic Values**
- **Task 5. Conduct a Web-based Presentation and Q&A**

Schedule

- Draft deliverable completed November 16.
- Feedback from NBWA and partners December 7.
- Final deliverable completed December 21.
- Final presentation in January 2013.

I-E Funding

Stormwater Flood Management

- PSP draft-July 2012
- http://www.water.ca.gov/irwm/integregio_stormwaterflood.cfm
- Projects must be:
 - Designed to manage stormwater runoff to reduce flood damages
 - multi-benefit
 - in IRWMP
- Amount- \$92 million in statewide competition
 - Max grant amount -\$30 m
 - Match-50%
- Timing-Applications due- Mid January 2013?

V Project Dialogue

- Are there opportunities for collaboration?