



Chapter 6 Integration and the Project Review Process

6.1 Introduction

This chapter describes the system in place to ensure stakeholder, institutional, resource and project integration. It also describes the process employed to submit, review, select, and prioritize projects for IRWM Plan 2013. The integration section demonstrates that the IRWM Plan 2013 coordinates and integrates separate efforts to function in a unified fashion. The Project Review and Selection Process section demonstrates that the IRWM Plan 2013 will be implemented through specific actions, plans, and projects. A wide range of project types are found in the IRWM Plan 2013 including urban and agricultural water use efficiency, infrastructure, water supply, drinking water treatment, wastewater treatment, recycled water, water storage, habitat restoration, flood control and management, groundwater conjunctive use, groundwater quality, and energy efficiency. This chapter demonstrates that the projects selected are appropriate for funding through the DWR IRWM Grant program (PRC Section 75028 (a)) and other grant programs.

6.2 Integration

The development and implementation of the IRWM Plan 2013 by the Cooperating Partners demonstrates that the Region is integrating separate efforts that will function as one united regional water management planning effort. The regional IRWM planning process has intentionally organized separate functions to integrate processes, structures, and procedures. Integration can occur on many levels including integration of stakeholders, resources, and projects.

The Steering Committee formed the Subcommittee on Integration and Alternative Approaches in 2012 to consider not only the needs of specific agencies, but the interconnected needs of the Region. Members of the subcommittee were also members of the Objectives, Targets, and Projects Workgroup. The sub-committee is a permanent sub-committee of the Steering Committee that meets bi-annually to review opportunities for integration and regional projects submitted through the IRWM Database (OPTI system). The committee reports to the Steering Committee, integrates projects in the manners described below, and its findings are a regular topic at Steering Committee meetings.

6.2.1 Stakeholder and Institutional Integration

The Region utilizes a governance structure (see Chapter 2) and processes that enable diverse groups of stakeholders to participate on all levels of the IRWM planning effort. The Cooperating Partners' MOU (Appendix 2-A) enables stakeholders to participate in the process regardless of financial contribution. Participation on the Steering Committee does require either an annual financial contribution or an in-kind contribution. An in-kind contribution is the donation of goods or services rather than money.

The Steering Committee integrates numerous types of organizations including water and waste water districts, community service districts, city departments, county departments and a non-governmental organization. These organizations worked hand-in-hand on several workgroups to complete the IRWM Plan 2013. The Steering Committee as a whole had responsibility for IRWM Plan 2013 sections including finance and stakeholder outreach. The IRWM Plan 2013 workgroups included:

- Recycled Water Development Plan Workgroup
- Salt and Nutrient Planning Workgroup
- Data Management Workgroup

- Climate Change Workgroup
- Objectives, Targets, and Projects Workgroup

6.2.2 Resource Integration

Resource integration has multiple meanings which can include the following:

- Combining different agencies or project participants and
- Integrating data sharing, developing common protocols for data collection, or sharing technical expertise.

The Region utilized several processes to encourage the combining of information, expertise, knowledge, or personnel assistance to leverage resources of all regional stakeholders involved in the IRWM process. The governance structure that includes the Cooperating Partners (approximately 30 regional agencies and organizations), the Steering Committee (approximately 20 members representing the Cachuma Operation and Maintenance Board, Laguna County Sanitation District, Cachuma Resource Conservation District, Goleta Sanitary District, cities of Lompoc, Santa Maria, Goleta, Guadalupe, and Santa Barbara, Heal the Ocean, Vandenberg Village Community Services District, Goleta Water District, and the County Water Agency) brings together multiple cities, agencies, and organizations in regular meetings. The Region emphasized resource integration, including both human-made (e.g. distribution systems) and natural water resource (habitat) infrastructure, and how both assisted water management in the Region

6.2.3 Project Implementation Integration

In late 2012, the Steering Committee Subcommittee on Integration and Alternative Approaches examined the multiple approaches to project integration. The regional IRWM Data Management System (IRWM DMS) enabled the subcommittee to review objectives that could be addressed with a sub-regional or regional project. The subcommittee looked to gain economies-of-scale from utilizing and combining resources such as personnel, funding, and equipment from small projects in the same sub-region into a larger project for the sub-region. The committee reviewed project objectives and sought to develop new or expanded solutions or projects to meet local needs. They reviewed the project list and identified projects that would help implement IRWM Plan 2013. They made sure that the project contributed to a diversified water management portfolio.

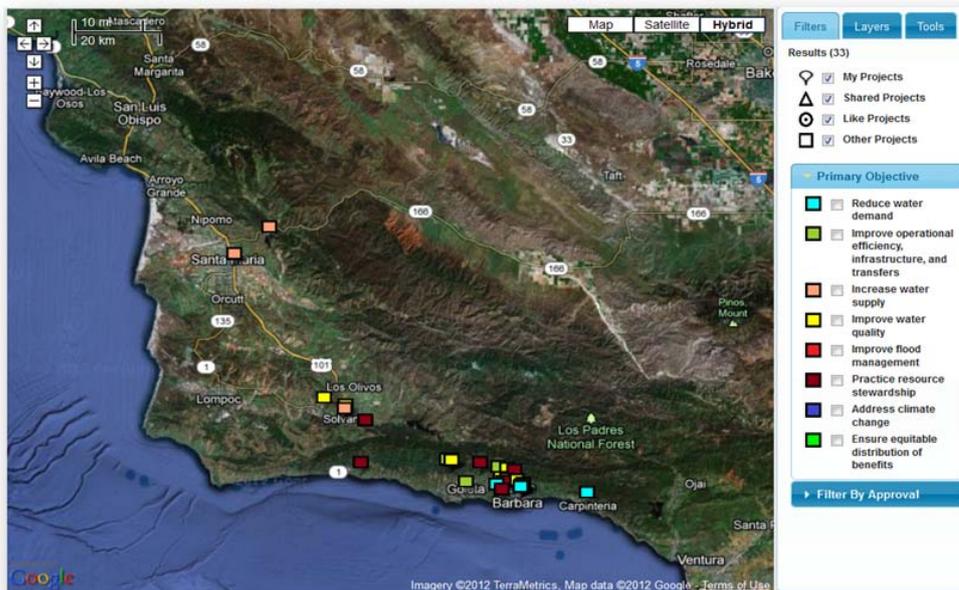
Regional objectives include:

- Protect, conserve, and augment water supplies
- Protect, increase, and manage groundwater supplies
- Practice balanced natural resource stewardship
- Protect and improve water quality
- Improve flood management
- Improve emergency preparedness
- Maintain and enhance water and wastewater infrastructure efficiency and reliability
- Address climate change through adaptation and mitigation
- Ensure equitable distribution of benefits

The regional IRWM DMS provides the Cooperating Partners with an important integration tool to geo-code potential project locations and then identify objectives and potential opportunities to integrate regional needs and projects. Figure 6.1 below illustrates a view of project locations and primary objectives associated with the projects. Other layers that contain agency service areas can assist in identifying and integrating potential project partners. The capacity to update and further develop the geo-coding feature in the IRWM DMS will serve the Region when pursuing future integrated projects. For example, groundwater quality data could be added to the IRWM DMS which would help project proponents link projects into regional projects.

The Subcommittee on Integration and Alternative Approaches reviewed all 114 regional projects (submitted into the DMS OPTI system by September 2012) and the project attributes in an effort to integrate projects (see Appendix 5-A for project list and example of attributes). The committee used a regional perspective to attempt to

Figure 6.1: Top Tier Project Locations



leverage any efficiency that could be gained from combining or modifying local projects in to regional projects. Project proponents were encouraged to consider alternate approaches and to combine efforts with other like projects. The subcommittee review looked to integrate projects in the following manners:

- Combine projects with similar objectives;
- Utilize resources such as personnel, funding capacity, and equipment; and
- Consider different, expanded, or new solutions to meet multiple regional needs

6.3 Project Review and Selection Process

The Cooperating Partners (the regional water management group) through the Cooperating Partners’ Steering Committee (Steering Committee) set up the web-based GIS-enabled Santa Barbara County IRWM Project Database (IRWM DMS), also known as the OPTI system, to collect, store, and disseminate data to provide relevant project information to IRWM participants, stakeholders, the public, and the State. The IRWM DMS can be accessed at <http://irwm.rmcwater.com/sb/login.php>.

The project submittal process is on-going throughout the year. However, there are occasions when a deadline for project submittal will be set in order to solicit projects for inclusion in a grant application or other purpose. A “Call for Projects” was issued in June 2012 with a mid-September 2012 deadline. 114 projects were submitted prior to September 2012 deadline and were included in the IRWM Plan 2013 prioritization process. Projects submitted after the September 2012 deadline and before August 1, 2013 are included in the IRWM Plan 2013 – 136 projects in total - but only the 114 projects were prioritized. As a regular policy, the Region will include newly submitted projects in each IRWM Plan Biennial Report and make them available for review on the IRWM DMS.

6.3.1 Procedures for Submitting a Project

The process for submitting projects to the IRWM DMS or OPTI system and project submittal training opportunities were publicized throughout the Region. Two group training sessions were conducted in 2012 using a web conferencing system. Several individual training sessions were conducted and individual assistance is

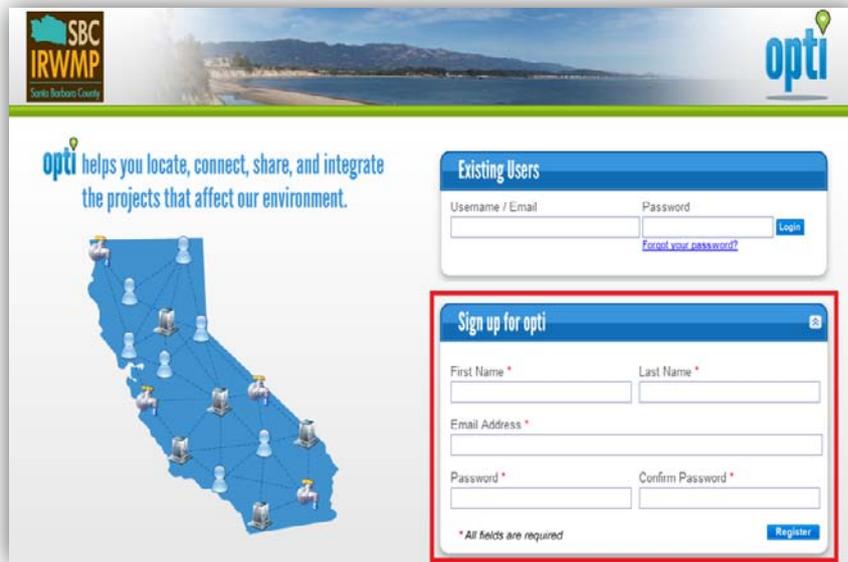
available upon request throughout the year. The training and one-on-one assistance assured that all interested stakeholders could submit and have access to database information.

How to Submit and Update a Project into the OPTI Project Database

The OPTI database is open to anyone interested in joining the Santa Barbara County IRWM Planning Community. Interested parties may sign-up and create a username and password. Anyone can sign-up to become an OPTI public stakeholder. Public stakeholders can view projects and IRWM plan information; however, participants who wish to input or share project data on OPTI must request to become a Community Member. Community Members have the ability to submit projects, share projects with other community members, and post announcements and events. There are no restrictions on who can become a community member.

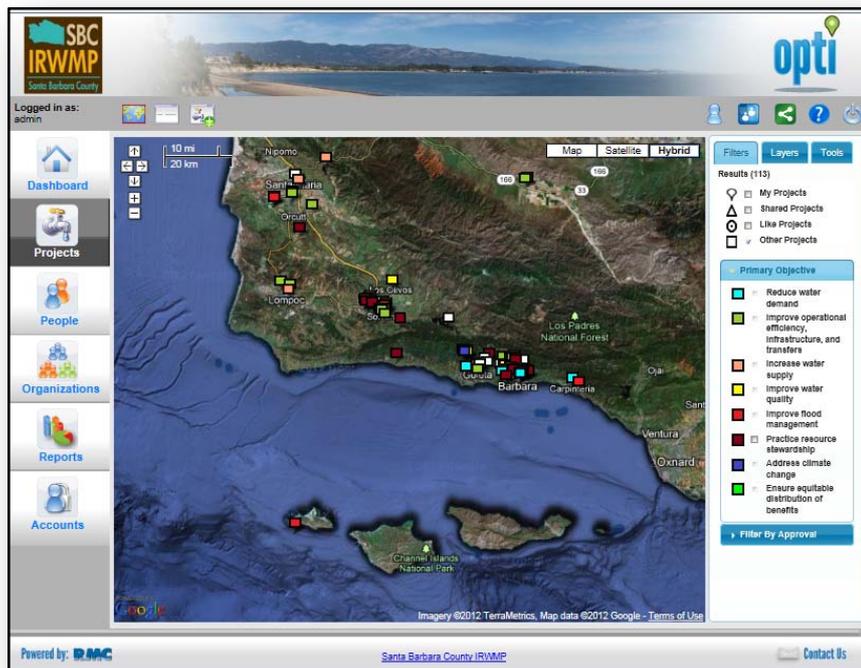
Technical issues and questions regarding OPTI can be submitted via the comment form located on the Santa Barbara IRWM DMS OPTI site. Once the project is submitted, it is reviewed by a project administrator to make sure that it satisfies the two basic criteria, which are: 1) the project is a water-related project and 2) the project will achieve one or more regional IRWM objectives. The Water Agency assisted some project proponents, including disadvantaged communities, who did not have the resources to access or enter information on the web-based project submittal system.

Figure 6.2: Data Management System OPTI Sign-in Page



To denote a project location, project proponents are able to select the location on the map, enter the project address, upload an area map of the project area, or draw the project area on the map interface. Geo-referencing each project allows stakeholders and project reviewers to visually see the regional distribution and types of projects within the whole Region or within their local area. Figure 6.3 shows the location and type of project for the top tier regional projects.

Figure 6.3: OPTI Map View



The Map View and List View can display projects in both tabular and map views with simple search and sorting tools that provide users the ability to quickly locate project information. In the Map View, a project summary can be accessed by clicking on the project location on the map.

Types of Projects

The Cooperating Partners encourages the submittal of a wide range of projects - from conceptual to fully developed implementation projects. All projects entered into the IRWM DMS indicate the primary objective of the project. The different types of projects include urban and agricultural water use efficiency, infrastructure updates, water storage, wastewater treatment, flood control and management, habitat restoration, energy efficiency, drinking water treatment, recycled water, groundwater conjunctive use, and groundwater quality.

The Region encourages projects that take actions that accomplish the Santa Barbara County IRWM regional objectives, as listed in Section 6.2.3:

Project Information Requested

Project submittal through the OPTI DMS seeks standardized information that includes:

- General information (project name, contact information for project sponsor)
- Project location (latitude/longitude, locate on OPTI map, and draw in project boundary)
- Project description (watershed, project description, need for project)
- Project cost and funding (including total project cost, capital costs, annual O & M costs, lifetime replacement costs, amount of grant funding requested, project status, identification of funding sources, and completed feasibility studies)
- Regional objectives met by the project (including primary objective met)
- Performance measures used

- Monitoring and assessment system used
- How project incorporates adaptation and mitigation to potential effects of climate change
- Project benefits
- Project qualifications:
 - Project Status (when ready for implementation)
 - Project included in approved plan
 - Current status of CEQA
 - Current status of design
 - Current status of permitting
 - Matching funds (what percent from agency, are matching funds committed)
 - Benefits
 - Reduction in water demand (acre-feet/year)
 - Reduces demand for Delta supplies
 - Increase water supplies for beneficial use (acre-feet/year)(local supplies)
 - Improve water supply reliability (diversifies supply)
 - Water quality
 - Resource stewardship
 - Improve flood management (number of people affected by improvement multiplied by the return period)
 - Benefits to DACs or Tribal communities
 - Integration between multiple organizations (number of organizations)
 - Climate change (reduce GHG emissions)
 - Beneficial impacts to other regions

6.3.2 Procedures for Review of Projects

The goal of the project review process was to identify projects that address regional water related issues and conflicts, help achieve regional objectives, and assist in implementing the IRWM Plan 2013. The Steering Committee reviewed the 114 projects submitted into the database by September 2012. Projects will continue to be approved for inclusion into the database on a monthly basis.

Project Review Factors

In 2012, each submitted project underwent preliminary screening in order to be included into the IRWM Plan 2013. A submitted project was required to be included in an approved plan, to meet one or more regional objective, and the project sponsor had to have adopted the 2007 IRWM Plan. Once a project had passed the initial screening, the factors listed below were used to further prioritize projects that met important criteria including meeting multiple objectives. The review factors did not contain any specific grant-related requirements.

- Does not disproportionately affect disadvantaged populations or impede environmental justice
- Meets multiple regional objectives (see Section 6.2.3)
- Achieves multiple benefits
- Utilizes regional resource management strategies

- Identifies project costs (supported by conceptual plan or feasibility study) and funding sources (how the project will be funded, percent matching funds anticipated, matching funds are committed and identified)
- Addresses economic feasibility
- Lists project status (design status)
- Supports technical feasibility (supporting documentation was requested e.g. feasibility studies, modeling results, survey results)
- Provide specific benefits to Disadvantaged Communities or Native American tribal community
- Provide integration between multiple organizations (e.g., agencies, NGOs)
- Reduces dependence on the Delta water
- Addresses adaptation and mitigation to the potential effects of climate change
- Combats climate change by reducing GHG emissions

Projects that Reduce Dependence on Delta Water

Project proponents provided information on how their project would meet the objective “protect, conserve, and augment water supplies.” Many project sponsors with projects that augmented supply or reduced demand were agencies that receive some amount of SWP water which comes from the Delta. The Region gave a higher score to projects that increased local supplies. Increased local supplies increases local supply reliability and therefore reduces reliance on Delta water. The Region also gave higher scores to projects that reduced demand and therefore dependence on water from the Delta. The projects that increased supply or reduced demand often met several criteria including the following: 1) met multiple objectives; met multiple benefits; and utilizes multiple water management strategies.

How the Projects were Scored

Table 6.1 Project Performance Measurement lists review criteria, the performance measurement utilized, and a description of scores associated with the worst-likely outcome and the best-likely outcome for each criteria. This approach guided the scoring of each eligible project.

Table 6.1: Project Performance Measurement

	Criteria	Performance Measure	Worst Likely Outcome	Best Likely Outcome
1	Project is in an approved plan and project proponent has adopted IRWMP 2007	Yes (1) or No (0)	No	Yes
2	Multiple objectives*	1 -5 scale	Meets one objective	Meets five objectives
3	Multiple benefits	1-5 scale	Meets one benefit	Meets five or more benefits
4	Utilizes resource management strategies	1-5 scale	Utilizes one strategy	Utilizes five or more strategies
5	Funding information provided	1-4 scale***	One out of four costs provided	Four out of four costs provided

	Criteria	Performance Measure	Worst Likely Outcome	Best Likely Outcome
6	Status of design	1-5 scale	Conceptual	Final design and contract documents are complete
7	Percent matching funds from your agency is anticipated	10-20%=1 point; 30-40%=2 points; 50-60%=3 points; 70-80%=4 points; 90-100%=5 points	0%	100%
8	Matching funds are committed	1-5 scale	Matching funds cannot be committed at this point	Funds for project are in Capital Improvement Program
9	Matching fund sources identified	Yes (1) or No (0)		
10	Provide specific benefits to Disadvantaged Communities or Native American tribal community	1-5 scale	No benefit	Substantial direct benefit
11	Provide integration between multiple organizations (e.g., agencies, NGOs)	1-5 scale	No other organizations involved in project	Five or more organizations involved in project ****
12	Reduces dependence on Delta water	Yes (1) or No (0)	Does not reduce dependence on Delta	Reduces dependence on the Delta
13	Project incorporates adaptation to potential effects of climate change	Yes (1) or No (0)	No	Yes
14	Combat climate change by minimizing GHG emissions	1-5 scale	Likely to result in a 20% or greater increase in agency's CO2 equivalent emissions	Likely to result in a 20% or greater decrease in agency's CO2 equivalent emissions

Project Review Steps

Step 1: Call-for-Projects. The Call-for-Projects was issued by the Steering Committee and the Objectives, Targets, and Projects Workgroup (Workgroup) in early June 2012. To facilitate entry of project data into the OPTI system by stakeholders, the Region held two IRWM DMS training sessions. The training sessions were conducted in mid-June, 2012 using a live on-line meeting with phone conferencing. The sessions were open to all regional stakeholders.

All projects were required to be submitted by September 18, 2012 in order to be considered eligible for prioritization in the IRWM Plan 2013. Projects submitted after that date but prior to July 31, 2013 were included in the IRWM Plan 2013 but not prioritized.

Step 2: Strategic Integration Workshop. This workshop was held on September 12, 2012. The Steering Committee and Workgroup organized and attended the workshop where stakeholder integration, resource integration, and project implementation integration was reviewed.

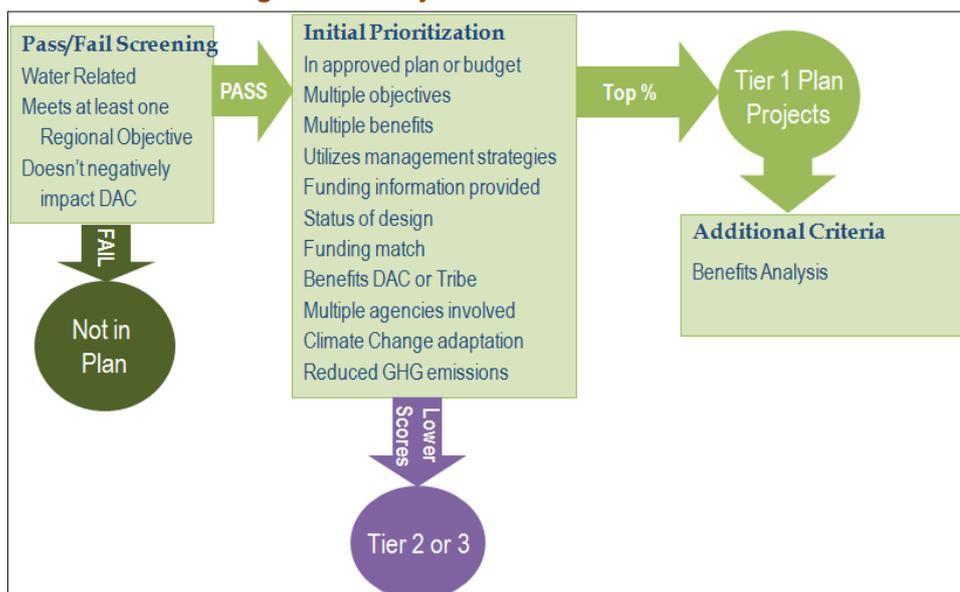
Step 3: Project Ranking and Review. Projects were initially reviewed and scored using criteria listed in Table 6.1 by project consultants. Project scoring was then reviewed, adjusted, and approved by the Workgroup and Steering Committee.

Step 4: Project List and Scoring Reviewed by Cooperating Partners. The project list and scoring was distributed by the Steering Committee to the Cooperating Partners as a whole via email and received feedback for a two week period of time. Comments from the Cooperating Partners were incorporated into the final project scoring process. A complete list of projects with scores can be found in Appendix 5-B.

Prioritizing Projects

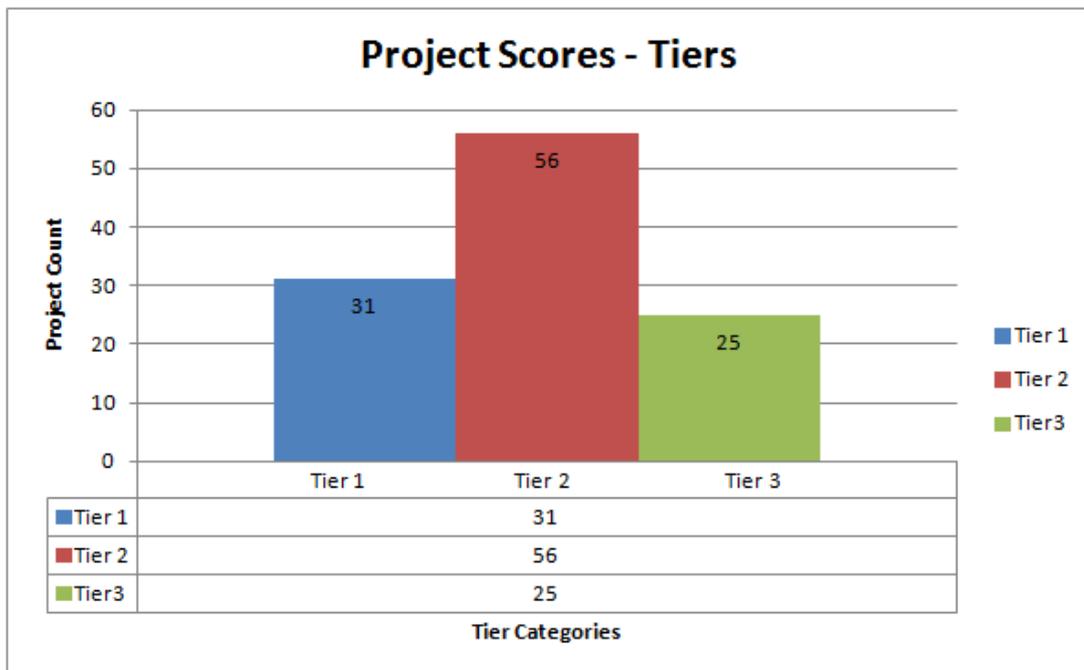
While all 114 projects submitted were considered important to the achievement of regional objectives and targets and the strategic implementation of the plan, a prioritization process was employed to determine which projects best met regional needs and were positioned for near-term implementation. The top tier projects were prioritized by the Workgroup over a three month period of time with twice monthly meetings. The result of this process was the creation of a top tier projects list consisting of 31 projects from all watersheds in the Region (see Appendix 5-C). The process used to prioritize projects was consistent with State Guidelines. This process is illustrated in Figure 6.4 below and described step-by-step in text that follows.

Figure 6.4: Project Prioritization Process



Step 1: Projects Arranged into Tiers According to Score. Each project was first scored by the project consultant and then reviewed and rescored, if necessary, by the Workgroup. Projects were then arranged into three scoring tiers by the range of the scores. Tier 1 projects scored 31- 44 points, Tier 2 projects scored 21 – 30 points, and Tier 3 projects scored 7 – 20 points. The initial results of this scoring are illustrated in Figure 6.4 below.

Figure 6.5: Projects Scoring Tiers



Step 2: Additional information. For those projects in Tier 1, additional information on project readiness, technical feasibility, and cost-benefits (to determine economic feasibility) was gathered from project proponents in order to include most complete and up-to-date information in the IRWM Plan 2013.

Step 3: Appeal of scoring. Project proponents were allowed to request a rescoring of projects. Based on feedback from proponents, the plan consultant adjusted project scores where it was justified based on more accurate information. The scores of the rescored projects were reviewed and approved or not approved by the Workgroup and Steering Committee.

Step 4: Review of top projects for integration and accuracy. This review was conducted by the Steering Committee Subcommittee on Integration and Alternative Approaches. Projects were reviewed by committee members that had experience with the specific type of project. Each member of the subcommittee was assigned several projects to review using experience with similar projects. A Rescoring Comment Matrix was completed on each project to guide the consideration of all project selection criteria.

Step 5: Economic feasibility evaluation. The Workgroup conducted an evaluation of each top tier project’s economic feasibility (benefits and costs) with the assistance of economic consultant David Mitchell, M.Cubed. A benefit-cost score was determined based on the total number of objectives achieved divided by the cost score. Appendix 5-E, Top Tier Projects Economic Benefit Analysis Approach, contains the worksheet and evaluation results for the top tier projects.

Benefit Score - The benefit score was based on the number of objectives achieved with 5-4 objectives achieved receiving a “high” score, 3-2 objectives achieved receiving a “medium” score, and 1 objective achieved receiving a “low” score. The number of objectives achieved was counted with a maximum score of five benefits. While the magnitude of the benefit from the objectives was not calculated, a

general idea of the level of benefit was gained. The approach was consistent with DWR Guidelines and had the advantage of being applicable to multiple types of project.

Cost Score - The cost score was based on the present value cost of the project. Present value calculations utilized capital cost and project life in years (see Appendix 5-D for Project Life – Infrastructure Life Expectancy Spreadsheet). To determine project life in years, the Workgroup used the following sources:

- USEPA, Sustainable Infrastructure for Water and Wastewater, <http://www.epa.gov/waterinfrastructure/basicinformation.html#five>
- USEPA, Clean Water and Drinking Water Infrastructure Gap Analysis Report, September 2002
- Experience; Roscoe Moss Case Study Increased Well Efficiency, Extended Lifetime and Reduced Maintenance through Selection of Stainless Steel Casing and Well Screen
- Roscoe Moss Case Study Increased Well Efficiency, Extended Lifetime and Reduced Maintenance through Selection of Stainless Steel Casing and Well Screen

The present value costs were grouped according to the range of costs (<\$2 m = High; \$2-20 m = Medium; >\$20 m = Low). The costs evaluation utilized the capital costs and project life in years to determine present value. A final score for economic feasibility was received by each project based on the benefit-cost ratio with > 2 receiving a “high” score, 1 – 2 receiving a “medium” score, and 0-1 receiving a “low” score. Then a “high” score received 5 points, a “medium” score received 3 points, and a “low” score received one point. 1 – 5 scoring was used for all other criteria. This score was factored into scores for other criteria.

Step 6: Final Scoring. Final scores were determined for each top tier project and then the project list and ranking was posted on the IRWM website. A public meeting was then held by the Steering Committee to review public comments and to receive presentations by the project proponents. Scoring was again adjusted, if necessary. Public stakeholders had multiple opportunities to track and participate in the project prioritization process including Steering Committee meetings, technical workgroup meetings, and public meetings held on October 17, 2012, October 29, 2012, November 14, 2012, June 10, 2013, and July 30, 2013.

6.3.3 Procedures for Communicating the List of Selected Projects

The project list is continually being updated so that the projects reflect current issues and challenges in the Region. Stakeholders were notified that the regional project list had been updated following the submittal deadline of September 2012. Stakeholders were notified in three manners, one via announcements/events/meeting information posted on the OPTI dashboard site (<http://irwm.rmcwater.com/sb/login.php>), another through email blasts sent out to the Cooperating Partners and stakeholders, and on the IRWM Program website sponsored by the County of Santa Barbara Water Resources Division (<http://www.countyofsb.org/irwmp/irwmp.aspx?id=39044>). The projects can be viewed on the OPTI site by linking to the website, registering as a User, signing in, and then clicking on the Projects icon (<http://irwm.rmcwater.com/sb/login.php>).

6.3.4 Project Proponents Adoption of IRWM Plan 2013

The Region will require that a project sponsor must have adopted the most recent IRWM Plan in order for their project to be considered for inclusion in a future IRWM project selection process and grant application. The Region’s IRWM Plan 2013 is expected to be submitted for review to DWR in February 2014. After a 60 day review period, the all Cooperating Partners will be asked to have their governing bodies approve the plan. The Region will commence a project selection process around June of 2014 and will not review projects from agencies that have not approved IRWM Plan 2013 by that time. Cooperating Partners that do not adopt the IRWM Plan 2013 are not eligible to have projects considered for future IRWM grant opportunities.

6.4 Regional Projects

In order to make progress toward accomplishing regional objectives and achieving regional targets associated with each objective, regional agencies and organizations have proposed a set of 136 projects that address a wide

range of regional issues and conflicts. The projects listed below were entered into the IRWM DMS (<http://irwm.rmcwater.com/sb/login.php>) through July 2013 which was the deadline for entering projects to be included in the IRWM Plan 2013. The 136 projects are listed below in Table 6.2 by watershed. Additional information on each project can be found in Chapter 7, Benefits and Impacts.

Table 6.2: Santa Barbara County IRWM Region Approved Projects

Santa Barbara County IRWM Approved Projects		
Watershed	Project Title	Project Proponent
Regional	Irrigation System Improvements and BMPs on Orchards in Santa Barbara County	Cachuma Resource Conservation District
Regional	Livestock & Land	Cachuma Resource Conservation District
Regional	Low Income Residential Water Audit and Improvement Program	Santa Barbara County Water Agency
Regional	Regional Habitat Conservation Bank for Endangered Species	Laguna County Sanitation District
Regional	Clean Streets Program	Santa Barbara County Project Clean Water
Regional	Commercial and Industrial Water Conservation Program	Santa Barbara County Water Agency
Regional	Extreme Landscape Makeover for Schools and Parks	Santa Barbara County Water Agency
Regional	Santa Barbara County Water Loss Control Program	Santa Barbara County Water Agency
Santa Maria	Water Tower Repair Project	Cuyama Community Services District
Santa Maria	Agricultural Tailwater Treatment	City of Santa Maria
Santa Maria	Backup Generator System	Laguna County Sanitation District
Santa Maria	Central Irrigation Control System	City of Santa Maria
Santa Maria	East Side Wastewater Treatment Plant	Laguna County Sanitation District
Santa Maria	Groundwater Treatment	City of Santa Maria
Santa Maria	Recycled Water Pipeline Extension to Waller County Park Area	Laguna County Sanitation District
Santa Maria	Recycled Water Facilities Upgrade	City of Guadalupe
Santa Maria	Recycled Water Pipeline Extension/Retrofit at Rancho Maria Golf Course	Laguna County Sanitation District
Santa Maria	Salt & Nutrient Management Plan Mitigation Measures	City of Santa Maria
Santa Maria	Santa Maria Valley Groundwater Banking Feasibility Study	City of Santa Maria

Santa Barbara County IRWM Approved Projects		
Watershed	Project Title	Project Proponent
Santa Maria	Sludge Drying Beds Improvements	Laguna County Sanitation District
Santa Maria	State Water Supply Augmentation	City of Santa Maria
Santa Maria	Storm Water Litter Control	City of Santa Maria
Santa Maria	Stowell Road Drainage Improvements	City of Santa Maria
Santa Maria	Twitchell Reservoir Sedimentation Removal	City of Santa Maria
Santa Maria	Untreated Water Landscape Irrigation Extension	City of Santa Maria
Santa Maria	UV Disinfection System Optimization Project	Laguna County Sanitation District
Santa Maria	Waller/Stubbs Lift Station	Laguna County Sanitation District
Santa Maria	Water Infiltration Basin Improvements	City of Santa Maria
Santa Maria	Water Quality Treatment - LID	City of Santa Maria
Santa Maria	WWTP Effluent Disposal Facility Improvements	City of Guadalupe
Santa Maria	WWTP Grit System and Influent Pump Improvements	City of Guadalupe
Santa Maria	Plant Facility Flood Protection	Laguna County Sanitation District
Santa Maria	Twitchell Reservoir Sedimentation Management and Removal	City of Santa Maria
Santa Maria	Irrigation System for WWTP Discharge	Cuyama Community Services District
Santa Ynez	Biological Nutrient Removals (BNR) Improvements	City of Buellton
Santa Ynez	Blending Station Project	City of Buellton
Santa Ynez	Booster Pump Station Improvements	City of Buellton
Santa Ynez	Buellton River Trail	City of Buellton
Santa Ynez	City of Lompoc Treatment Basin Upgrades	City of Lompoc
Santa Ynez	Construction of Well #10-Augment Water Supply during a Drought	City of Lompoc
Santa Ynez	Covered Solids Handling Area Structure at WWTP	City of Solvang
Santa Ynez	Demonstration Gardens and Landscape Conservation Program	City of Buellton
Santa Ynez	Electrical Upgrade at WWTP	City of Buellton
Santa Ynez	Fish Passage Improvement on Crossing 3, Quiota Creek	Cachuma Operation and Maintenance Board

Santa Barbara County IRWM Approved Projects		
Watershed	Project Title	Project Proponent
Santa Ynez	Improve Grit Removal System at the Lompoc Regional Wastewater Reclamation Plant (LRWRP)	City of Lompoc
Santa Ynez	Los Olivos Wastewater Collection and Treatment Facility	County of Santa Barbara Public Health Department
Santa Ynez	McMurray WTP Building Expansion	City of Buellton
Santa Ynez	New Reservoir 4 to Replace Cisterns	City of Solvang
Santa Ynez	New River Wells & Water Treatment Plant Project	City of Solvang
Santa Ynez	Radio Read Meter Replacement Project	City of Solvang
Santa Ynez	RAS/WAS Pump Replacements	City of Buellton
Santa Ynez	Reservoir 1 Roof Replacement	City of Solvang
Santa Ynez	Reservoir 2 Recoating Project	City of Solvang
Santa Ynez	SCADA System Upgrade	City of Buellton
Santa Ynez	Second Street Drainage Improvement Project	City of Solvang
Santa Ynez	Self-Regenerating Water Softener (SRWS) Rebate/Replacement Program	City of Solvang
Santa Ynez	Sewer Line Replacement	City of Lompoc
Santa Ynez	Sewer line Rehabilitation Project	City of Solvang
Santa Ynez	Storm Drain Inlet Retrofits	City of Buellton
Santa Ynez	SWMP Program Implementation	City of Buellton
Santa Ynez	SWMP/SSMP Implementation	City of Buellton
Santa Ynez	Wastewater Treatment Plant Security Improvements	City of Buellton
Santa Ynez	Water Meter Upgrades	City of Buellton
Santa Ynez	Water Treatment Plant Facilities Expansion	City of Buellton
Santa Ynez	Water Treatment Plant Upgrades and Safety Improvements	City of Buellton
Santa Ynez	Waterline from Alisal Road to WWTP	City of Solvang
Santa Ynez	WTP/WWTP Back-Up Power Generation	City of Buellton
Santa Ynez	WWTP Access Road Improvement Project	City of Solvang
Santa Ynez	WWTP Building and Site Improvements	City of Buellton
Santa Ynez	Lower Reach Lining and Creek Stabilization	Cachuma Operation and Maintenance Board
Santa Ynez	Santa Ynez River Tamarisk and Arundo Project	County of Santa Barbara Agricultural Commissioner's Office
Santa Ynez	Tamarisk and Arundo Removal along the Santa Ynez River	Santa Barbara County Agricultural Commissioner
South Coast	Recycled Water Enhancement Project	City of Santa Barbara
South Coast	AMI Pilot Project	City of Santa Barbara

Santa Barbara County IRWM Approved Projects		
Watershed	Project Title	Project Proponent
South Coast	Andree Clark Bird Refuge Water Quality and Habitat Enhancement Project	City of Santa Barbara
South Coast	Beach Area Drainage Improvements	City of Carpinteria
South Coast	Braemar Area Sewer Extension Project	City of Santa Barbara
South Coast	City parking LID Project	City of Carpinteria
South Coast	Corona Del Mar Water Treatment Plant Backwash Basin Improvement Project	Goleta Water District
South Coast	Corona Del Mar Water Treatment Plant Filter Media Replacement Project	Goleta Water District
South Coast	Corona Del Mar Water Treatment Plant Sludge Drying Beds Project	Goleta Water District
South Coast	East Via Real Storm Water Treatment Project	City of Carpinteria
South Coast	El Estero advanced secondary treatment improvement project	City of Santa Barbara
South Coast	El Estero Swale Restoration Project	City of Santa Barbara
South Coast	Ellwood Hydroelectric Project	Goleta Water District
South Coast	Glen Anne Dam and Reservoir for Emergencies, Accountability, and Management, Seismic Project	Cachuma Operation and Maintenance Board
South Coast	Goleta Water District - City of Santa Barbara Interconnect Project	Goleta Water District
South Coast	Highway 192 at Mission Creek Fish Passage and South Coast Conduit Relocation Project	Cachuma Operation and Maintenance Board
South Coast	Las Positas Valley Restoration	City of Santa Barbara
South Coast	Las Vegas - San Pedro Creeks Capacity Improvement Project - Phase 1	Santa Barbara County Flood Control & Water Conservation District
South Coast	Las Vegas - San Pedro Creeks Capacity Improvement Project - Phase 2	Santa Barbara County Flood Control & Water Conservation District
South Coast	Las Vegas - San Pedro Creeks Capacity Improvement Project - Phase 3	Santa Barbara County Flood Control & Water Conservation District
South Coast	Lower Arroyo Burro Restoration Project	City of Santa Barbara
South Coast	Lower Mission Creek Flood Control & Restoration Project - Reach 1A, Phase 2	Santa Barbara County Flood Control & Water Conservation District
South Coast	Lower Mission Creek Flood Control & Restoration Project - Reach 1B	Santa Barbara County Flood Control & Water Conservation District

Santa Barbara County IRWM Approved Projects		
Watershed	Project Title	Project Proponent
South Coast	Lower Mission Creek Flood Control & Restoration Project - Reach 2A	Santa Barbara County Flood Control & Water Conservation District
South Coast	Lower Mission Creek Flood Control & Restoration Project - Reach 2B, Phase 2	Santa Barbara County Flood Control & Water Conservation District
South Coast	Lower Reach Air Vac Valve/Blowoff Valve Replacement Project	Cachuma Operation and Maintenance Board
South Coast	Mid-Arroyo Burro Restoration Project	City of Santa Barbara
South Coast	Mission Creek Restoration and Steelhead Passage Project	City of Santa Barbara
South Coast	North Portal Security Upgrade	Cachuma Operation and Maintenance Board
South Coast	Northview Road Sewer Extension	City of Santa Barbara
South Coast	Palomino Road Sewer Main Extension	County of Santa Barbara Public Works Department
South Coast	Phase 3 Recycled Water System Expansion	City of Santa Barbara
South Coast	Recycled Water Pump Arc Flash Improvements	Goleta Water District
South Coast	Sheffield Tunnel Pipeline Replacement	Cachuma Operation and Maintenance Board
South Coast	South Coast Steelhead Recovery	South Coast Habitat Restoration
South Coast	Storm Water Treatment Retrofit Project	City of Santa Barbara
South Coast	Sycamore Creek Restoration Project	City of Santa Barbara
South Coast	Tajiguas Creek Steelhead Recovery	South Coast Habitat Restoration
South Coast	Tunnel Road Sewer main Extension	County of Santa Barbara Public Works Department
South Coast	Upper Reach Pipeline lining and Creek Stabilization	Cachuma Operation and Maintenance Board
South Coast	Upper Reach Second Barrel from Glen Anne Turnout to Corona Del Mar Water Treatment Plant	Cachuma Operation and Maintenance Board
South Coast	Watershed Invasive Plant Removal Program	City of Santa Barbara
South Coast	Agricultural Water Use Efficiency Project	Goleta Water District
South Coast	Cogeneration Unit	Goleta Sanitary District
South Coast	Corona del Mar Water Treatment Plant Infrastructure and Process Improvements	Goleta Water District
South Coast	Emergency Power Generation for Wells	Goleta Water District
South Coast	Fire Protection Enhancement Project	Goleta Water District

Santa Barbara County IRWM Approved Projects		
Watershed	Project Title	Project Proponent
South Coast	Groundwater Management Enhancement and Expansion	Goleta Water District
South Coast	Matorral Way Creek Arial Crossing Sewer Replacement Project	Goleta Sanitary District
South Coast	Mission Creek Lagoon/Laguna Creek Restoration and Management Project	City of Santa Barbara
South Coast	Modoc Road New Sewer Line Installation Project	Goleta Sanitary District
South Coast	Recycled Water Distribution System Extension and Looping	Goleta Water District
South Coast	Recycled Water Distribution System Improvements for Reliability & Expanded Use	Goleta Water District
South Coast	Recycled Water Pump Upgrades Project	Goleta Water District
South Coast	Recycled Water Storage Facility for Expanded Use	Goleta Water District
South Coast	Recycled Water Treatment Upgrades for Expanded Use	Goleta Water District
South Coast	Recycled Waterline Relocation at Goleta Beach	Goleta Water District
South Coast	Renewable Energy Installations and Coordinated Energy Management	Goleta Water District
South Coast	Salt and Nutrient Management Plan	Goleta Water District
South Coast	System Loss Reduction and Submetering Project	Goleta Water District
South Coast	Water Conservation Program Implementation	Goleta Water District
South Coast	Water Distribution System Corrosion Protection	Goleta Water District
South Coast	Water Distribution System Improvement and Reliability in a Disadvantaged Community	Goleta Water District
South Coast	Water Storage Expansion Project	Goleta Water District
South Coast	Waterline Upsizing Project	Goleta Water District

In Table 6.3, the number of projects per watershed is shown according to the primary objective achieved. The projects were submitted through the end of July 2013 and the primary objective achieved was identified by the project proponent. The table indicates that most objectives have numerous projects that will help achieve the projects' primary objectives. The objectives of Improve Emergency Preparedness and Ensure Equitable Distribution of Benefits are secondary objectives of numerous projects.

Table 6.3: Number of Santa Barbara County IRWM Regional Projects by Objective and Watershed

	Objective	Total Projects	Santa Maria (including San Antonio Watershed)	Santa Ynez Watershed	South Coast Watershed	Regional
	Protect, conserve, and augment water supplies	10	1	0	6	3
	Protect, manage, and increase groundwater supplies	12	6	3	2	1
	Practice balanced natural resource stewardship	17	0	5	12	0
	Protect and improve water quality	23	6	6	9	2
	Improve Flood Management	15	3	3	9	0
	Improve Emergency Preparedness	0	0	0	0	0
	Maintain and Enhance Water and Wastewater Infrastructure Efficiency and Reliability	56	10	21	24	1
	Effectively address Climate Change through Adaptation and Mitigation	3	0	0	3	0
	Ensure Equitable Distribution of Benefits	0	0	0	0	0
Total		136	26	38	65	7

6.5 Location of Projects

The location of each regional project can be found in Figure 6.6 below. Project location symbols vary according to the primary objective of the project. No projects addressed the primary objective of “Ensure equitable distribution of benefits” or “Improve Emergency Preparedness although those objectives were a secondary benefit in many projects. The primary objective “Protect, Manage, and Increase Groundwater Supplies” is included in the “Increase Water Supply” objective.

Figure 6.6 – IRWM Project Locations

