WATER RECYCLING FUNDING PROGRAM GUIDELINES

Amended on June 16, 2015



WATER RECYCLING FUNDING PROGRAM

California State Water Resources Control Board Division of Financial Assistance

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Definitions

This section supplements the definitions located in the current Policy for implementing the Clean Water State Revolving Fund (CWSRF Policy). Please see the CWSRF Policy for additional definitions:

(http://www.waterboards.ca.gov/water_issues/programs/grants_loans/srf/finalpolicy0513.shtml).

- 1. <u>Construction Financing Plan</u>: An applicant's document that demonstrates the financial capability to design, construct, operate and maintain a project.
- 2. <u>Cost-Effectiveness Analysis</u>: An analysis to determine which project alternative will result in the lowest cost of resources (including opportunity costs) over time to meet the project objectives, including local, state and federal requirements.
- Economic Analysis: The procedure to determine the costs and benefits of all the resources committed to a project regardless of whom in society contributes them or whom in society receives the benefits.
- 4. <u>Eligible Water Recycling Project</u>: A water recycling project that is cost-effective based on the project objective when compared to the appropriate alternatives to achieve the objective. The project shall comply with applicable water quality standards, policies, and plans.
- 5. <u>Existing user</u>: An entity that is using fresh water prior to the project initiation-ofoperations date or an entity that would be expected to use fresh water if recycled water were not made available.
- 6. <u>Future user</u>: An entity that is not prepared or equipped to use recycled water at the time the project initiates operations.
- 7. <u>Local Public Agency</u>: Any city, county, city and county, district, joint powers authority entirely comprised of local municipalities, or any other local public body or other local or regional political subdivision of the state created by or pursuant to state law and involved with water or wastewater management. State agencies and departments are not included in this term.
- Planning Period: The period over which a water development project is evaluated for cost-effectiveness. This period is not necessarily the same as the useful lives of the facilities under consideration. The planning period begins with the system's initial operations and is defined to be 30 years for the Water Recycling Funding Program.
- 9. <u>Readiness to Proceed</u>: This is the term used to describe the state of a financial application package that is complete with no outstanding items. At this point the State Water Board is ready to execute a funding agreement with the applicant.
- 10. <u>Recycled Water</u>: Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur and is

therefore considered a valuable resource. This term is synonymous with "reclaimed water" (as defined in California Water Code, § 13050(n))

- 11. <u>Study Scope:</u> The Study Scope is defined in Appendix A section B.
- 12. <u>Water Recycling</u>: The process of treating wastewater to produce water for beneficial use, the storage and distribution of recycled water to the location of the point of use, or the actual use of recycled water.

SECTION I: INTRODUCTION

The State Water Resources Control Board (State Water Board) provides funding for the planning, design, and construction of water recycling projects that offset or augment state fresh water supplies. The Water Recycling Funding Program (WRFP) is administered by the Division of Financial Assistance (Division). These Guidelines establish the requirements to obtain WRFP funding.

The guidelines are divided into three sections:

- Section I is introductory and applies to all water recycling planning and construction projects applying for funding through the State Water Board;
- Section II describes the planning grant process;
- Section III describes construction funding process.

Projects seeking funding under the WRFP shall comply with the "*Policy for Implementing the Clean Water State Revolving Fund* (CWSRF Policy) in addition to the specific requirements of these Guidelines. These Guidelines and the CWSRF Policy are complementary and describe the complete funding requirements for water recycling projects.

The Deputy Director of the Division may update and amend the WRFP Guideline's Appendices and create new Appendices as necessary for administrative or procedural changes not in conflict with these Guidelines or state or federal law or regulation.

A. WRFP Funding Sources

Water recycling projects may be funded through grants or loans. Low interest loans may be state bond funded or CWSRF funded. Applicant and project eligibilities may vary based on the funding source. The primary sources of funding for water recycling projects are noted below.

- The Safe Drinking Water, Clean Water, Watershed Protection, and Flood Protection Act (2000 Bond Law, Proposition 13). Proposition 13 primarily provides for water recycling facilities planning grants. These planning grants are funded through a small revenue stream generated by repayments from previously financed projects. Periodically, construction grants and loans may be available, but are extremely limited.
- 2. The Water Quality, Supply, and Infrastructure Improvement Act of 2014; (2014 Bond Law, Proposition 1). Proposition 1 provides grant and low interest financing for water recycling projects. The State Water Board may dedicate up to two percent of the Proposition 1 funding allocated to recycled water, as well as two percent of repayments from Proposition 1 funded water recycling construction loans, to recycled water research and development as set forth in section 79144 of the Water Code.
- 3. The CWSRF program provides low interest (generally one half the State of California's most recent general obligation bond rate) financing for planning, design,

and construction activities.

B. Special Assistance

Division staff will provide additional application assistance to small disadvantaged communities upon request. Staff may travel to provide one-on-one application assistance.

SECTION II: PLANNING GRANT

This section discusses the application requirements for obtaining a planning grant. Detailed requirements are provided in Appendix A. The purpose of the planning grant is to assist agencies or regions¹ with completing planning studies for water recycling projects using treated municipal wastewater and/or treated groundwater from sources contaminated by human activities. The outcome of a planning study (Study) is a project report that fulfills the requirements of Appendix B. In addition to encouraging new recycling planning studies, these funds are intended to supplement local funds and enhance the quality of local planning efforts. Receipt of a planning grant does not constitute a commitment to providing subsequent project financing.

A. Eligibility

- 1. Grants are provided for studies to determine the feasibility of using recycled water and selecting a recommended alternative to offset or augment the use of fresh/potable water from state and/or local supplies. Pollution control studies, in which water recycling is an alternative, are not eligible.
- 2. Only local public agencies are eligible to receive a planning grant.
- An agency may receive more than one planning grant from the State Water Board. However, each proposed study must be independent in Study Scope and study area from previously-funded studies. The applicant should confer with Division staff regarding its particular study in relation to previous studies prior to applying for additional planning grants.
- 4. Grants are provided for facilities planning studies to determine the feasibility of using recycled water to offset the use of fresh/potable water from state and/or local supplies. Pollution control studies, in which water recycling is an alternative to disposal, are not eligible. The grant will cover 50 percent of eligible costs up to \$75,000.
- 5. Planning costs incurred prior to the eligible start date of the agreement are ineligible. The eligible start date is when the planning Study Scope is approved by Division staff.

B. Planning Grant Funding

Planning grant funding is provided for studies that will result in project reports through Proposition 1 and Proposition 13.

1. Application

a. Applicants must submit a complete planning grant application (application) to

¹ Regions are groups of agencies related by a Joint Powers Agreement, memorandum of understanding, or other formal collaborative governance agreement.

receive a planning grant. Application information may be found in Appendix A. Division staff may request additional information from the applicant regarding the Study Scope and other application components. Applications for planning grants are accepted on a continuous basis.

- b. The Study Scope will describe the activities necessary to complete the study and develop the Project Report. The project report must include the appropriate sections listed in the Recommended Outline for Recycled Water Project Reports (Appendix B). The applicant should confer with Division staff regarding the sections that will be relevant to its project report.
- c. The Study Scope will be used to determine the expenses for grant funding.

2. Grant Agreement

- a. The Division will develop a grant agreement for signature by the Deputy Director of the Division and the applicant's Authorized Representative after the application satisfies the requirements of these Guidelines and is determined to be complete.
- b. The grant agreement will require the submittal of a draft project report and a final project report that fulfills the objectives identified in the Study Scope, and may include appropriate conditions and expiration dates to ensure that studies are completed expeditiously.
- c. The grant agreement will contain a time limit for the applicant to complete the study. The final project report must be submitted within two years of the execution of the grant agreement. For good cause, Division staff may approve an extension of up to 12 months from the date specified in the grant agreement.
- d. The final report for those studies whose objective is to consider either Indirect or Direct Potable Reuse (IPR or DPR) (if the State Water Board promulgates regulations governing DPR) should be submitted within three (3) years of the execution of the grant agreement. For good cause, Division staff may approve an extension of up to 12 months from the date specified in the grant agreement.

3. Draft Project Report

- a. The study will include the development of a draft project report. The draft project report should be submitted to the Division for review when the analysis of alternatives is complete, and no later than one year from execution of the grant agreement. For those studies focusing on IPR or DPR the draft report with an analysis of alternatives should be submitted no later than 18 months from the execution of the grant agreement.
- b. Appendix B provides an outline of the project report and the appropriate level of analysis and due diligence for a thorough planning study. As Appendix B is intended to be all encompassing with respect to all possible water recycling

planning studies, the applicant should consult with Division staff to agree upon the sections of Appendix B applicable to its particular project.

4. Midcourse Meeting

a. Planning Grant recipients shall conduct a mid-course meeting to review the progress of the study that will produce a project report. The meeting should include applicant staff, the principal consultants, Division staff, and any other interested or appropriate persons. The meeting should be scheduled after completion of the market assessment, the analysis of recycled water alternatives, and submittal of the draft project report to the Division. Division staff may provide comments on the draft report, and will not acknowledge review of the draft Report until after the mid-course meeting.

5. Final Project Report

- a. The recipient shall submit a final project report, stamped by an Engineer registered in the State of California, on or before the due date established in the grant agreement.
- b. The final project report must include an analysis of all of the essential components of potential project alternatives with the selection of a recommended project or a determination that a recycling project is not feasible.
 - i. The recommended project should clearly delineate its service area.
 - ii. Each alternative must include an economic analysis. The results of the economic analysis must be expressed in dollars per acre-foot of recycled water produced or delivered².
- iii. If the alternatives analysis determines that water recycling is infeasible, the applicant must document this determination in the final project report.
- iv. The uncertainty of future rate increases, political or social acceptance, or other unpredictable factors may not be the basis for determining that water recycling is infeasible.
- c. The final Project Report shall address the comments provided by Division staff during the review of the draft project report. The report will be consistent with the Study Scope.
- d. Division staff may request additional information regarding the final Project Report.

² The State Water Board website provides two economic analysis models that the applicant may use: http://www.waterboards.ca.gov/water_issues/programs/grants_loans/water_recycling/econ_analysis_tskfr ce.shtml

6. Disbursement of Funds

- a. Grant funds will be provided in two disbursements:
 - i. Reimbursement of approved costs of up to 50 percent of the total estimated grant may be disbursed after Division staff approves the draft project report.
 - ii. A final reimbursement of remaining approved costs up to the grant amount may be disbursed after Division staff approves the final project report.
- b. The grant amount will be adjusted to reflect the approved costs involved in the study, and any remainder of the original grant value will de-obligated and become available for other applicants.

SECTION III: CONSTRUCTION FUNDING

The Water Recycling Funding Program provides funding to eligible applicants for the construction of water recycling facilities. Construction projects may be funded with grants and loans from a state bond, CWSRF financing, or combinations of funding sources.

Agencies applying for construction funding must provide a project report meeting the requirements of Appendix B of these Guidelines.

A. Eligibility

1. General

a. Depending upon the funding source, eligible applicants are local public agencies, 501(c)(3) nonprofit organizations qualified to do business in California, public utilities, federally recognized Indian tribes, state Indian tribes listed on the Native American Heritage Commission's California Tribal Consultation List, and mutual water companies.

A project proposed by a mutual water company, a JPA with municipal water company member(s)), or a utility serving the public and regulated by the California Public Utilities Commission (CPUC),shall have a clear and definite public purpose and shall benefit the customers of the water system and not the investors. A private, for-profit public water system applicant must be actively regulated by the CPUC in order to be eligible.

- b. Water recycling projects shall offset or augment state fresh water supplies. Grants and/or financing for recycled water projects can be used for recycled water components and beneficial reuse.
- c. Projects focused on system process efficiencies such as, but not limited to, O&M operations and process improvements not regulated by a waste discharge permit, are ineligible to receive water recycling funding.
- d. The State Water Board intends to leverage multiple funding sources for eligible projects. Projects may receive a grant or loan or combination of grant and low interest construction financing. The applicant is required to submit one application per project to be considered for grant or low interest construction financing. Construction grant funding will be made available on an individual project basis and will depend upon the availability of grant funds and the applicant's readiness to proceed.
- e. At least 50 percent local cost share match must be provided. Local cost share may be provided by CWSRF financing. The applicant may also satisfy the local match requirement through other sources, including its own revenues, for example, where it has incurred and paid costs for studies and other directly associated planning and design incurred prior to the grant award date. Local cost share match may be reduced for communities that meet the Small Disadvantaged Community criteria established in the CWSRF Policy and the

CWSRF Intended Use Plan.

- f. Consideration for water recycling construction funding is determined by submitting an application using the State Water Board Financial Assistance Application Submittal Tool (FAAST). All applications shall comply with the latest amendment of the *Policy for Implementing the Clean Water State Revolving Fund* (CWSRF Policy).
- g. Pilot projects for new potable reuse are eligible to receive pilot project grant funding. The applicant must demonstrate that the pilot project will develop new information that does not currently exist and increase the body of knowledge regarding technologies that help the understanding of how potable reuse can be effectively be achieved through the innovative application of current and new technologies. Eligible pilot projects may receive grant funds in the amount of up to 35% of actual eligible pilot study construction costs incurred up to a maximum of \$1 million.

2. Construction Grants

- a. <u>Limits</u>: Water recycling projects may receive grant funds in the amount of up to 35% of actual eligible construction costs incurred up to a maximum of \$15 million, including construction allowances. In future years the maximum grant amount per project may be reduced when Proposition 1 repayment revenues decrease to the point where the maximum grant benefit can no longer be awarded.
- b. <u>Drought State of Emergency Response Replacement Grant</u>: Applicants with Proposition 13 or CWSRF water-recycling construction agreements executed by the State Water Board between January 17, 2013 and July 1, 2015, and who are in good standing with respect to such agreements, may be eligible to receive one (1) Proposition 1 construction grant per recipient (i.e., not per agreement) to replace all or a portion of a low-interest financing award amount (such grant hereinafter referred to as the "replacement grant"). The following conditions apply to each replacement grant:
 - i. The aggregate value of any and all water recycling grant and principal forgiveness funds administered by the State Water Board and committed to a water recycling project, including the replacement grant, may not exceed 35% of the eligible construction costs or \$15 million, whichever is less; and
 - ii. The replacement grant shall only be used to reimburse a recipient for construction costs incurred on or after July 1, 2015.
- c. Based on an assessment of economic need, small disadvantage communities (SDAC) may receive grant funds in the amount of up to 40% of the actual eligible construction costs up to a maximum of \$20 million. An SDAC may receive either a construction grant or principal forgiveness. In future years the maximum grant amount per project may be reduced when Proposition 1

repayment revenues decrease to the point where the maximum grant benefit can no longer be awarded.

- d. <u>Geographic Distribution</u>: Construction grants will be awarded according to the geographic location of the project. Funds will be geographically allocated to the following counties:
 - i. A minimum of 40 percent of the funds to projects within, Los Angeles County, Orange County, Riverside County, San Bernardino County, San Diego County and Ventura County.
 - ii. A minimum of 40 percent of the funds distributed to projects within the remaining counties.
 - iii. The remaining 20 percent will be distributed to water recycling projects located in any California county.
- e. <u>Allowances</u>: Eligible construction costs to support the grant award may include construction allowances. Allowances may include engineering during construction, construction management, and contingencies limited to 15% of the construction grant value. Division staff may approve project cost changes up to the final grant amount. Project cost increases incurred after the funding agreement date establishing actual contract construction cost will not be considered.

3. Construction Funding

- a. Financing may provide up to 100 percent of the eligible construction funding. Financing for construction of water recycling projects is primarily provided from Proposition 1 and the CWSRF program. These Guidelines provide direction for projects financed using Proposition 1 funds. Water recycling projects financed through the CWSRF program should adhere to the latest amendment of the *Policy for Implementing the Clean Water State Revolving Fund* (CWSRF Policy).
- b. Generally, the interest rate for Proposition 1 loans is one-half the most recent general obligation bond rate obtained by the State Treasurer's Office as of the date that the Division initiates preparation of the financing document for routing and signoff or the State Water Board approves the financing, whichever is first, rounded up to the nearest 0.1 percent.
- c. The repayment period for any Proposition 1 loan is up to 30 years.

4. Application

 Applicants for water recycling construction financing should submit an application using the State Water Board Financial Assistance Application Tool (FAAST). Applications are accepted continuously. Submittal of an application is not a commitment to provide financing. The State Water Board website provides detailed application guidance.

5. Project List

- a. Water recycling projects submitted for financial assistance will be placed on the Project List. Water recycling projects are categorized according to how the project proposes to use recycled water. The project list identifies applicants applying for water recycling for assistance from CWSRF and bond funding. Projects prioritization and funding source will be displayed on the approved list. The Division will post the Project List on the CWSRF web page. Project list updates are in accordance with the CWSRF Policy. Placement of a project on the Project List does not constitute a commitment to provide financing.
- b. A project is not required to be on the project list to receive a planning grant (see Section II)
- c. For routine, noncontroversial projects on the Project List, the Executive Director, Deputy Director of the Division or designee is authorized to approve financing. Non-routine or controversial projects will be presented to the Board for approval of funding.

6. California Environmental Quality Act (CEQA)

a. The applicant must provide adequate and complete environmental documentation to allow the State Water Board to fulfill its responsibilities under the California Environmental Quality Act (CEQA). The application includes the environmental package which follows the CWSRF Policy Appendix I. As part of the application review, division staff will determine if the project must also follow the requirements relating to federal cross-cutters.

7. Recycled Water Market Assurances and User Connection Schedule

- Recycled Water Market Assurances are documentation of the commitment of user participation in the project. Initial Recycled Water Market Assurances are as follows:
 - For Existing Users, either an adopted mandatory use ordinance or letters of commitment to execute a user contract. Detailed descriptions of mandatory use ordinances and user contracts are contained in Appendix F.
 - ii. For Future Users, a description of each user, the expected recycled water demand and the schedule for connection.
- b. Submittal of letters of commitment or notifications of users may be waived by the Division staff for users with sites already plumbed and metered for use of recycled water, but temporarily using fresh water.
- c. The applicant must submit a user connection schedule for water recycling projects. No more than 50% of the volume of recycled water can be allocated to future users (see minimum use requirements below). For indirect and direct potable reuse (IPR/DPR) projects, the minimum use

requirements may be satisfied through submittal of a mandatory use ordinance or a resolution dedicating net revenues received through the sale of the recycled water.

8. Project Elements Eligible for Funding

The following items are eligible for funding:

- a. Construction cost of recycled water treatment, storage, pump stations, and distribution pipeline systems, provided that: facilities are located as appropriate to serve best the function of the funded recycled water system, including on a use site.
- b. Recycled water distribution pipeline systems, from the source of supply to the reuse sites. Eligibility of a pipeline system on the user's property is limited to: recycled water service line up to and including the water meter if the meter is located in the proximity of the property line. The recycled water service line to the main storage facilities serving the user on the reuse site that is publicly maintained and owned.
- c. Recycled water distribution pipeline with a terminal point serving a user that is committed by mandatory use ordinance or by user contract to take recycled water. If only a portion of a pipeline serves users secured by a firm commitment, then eligibility extends to the most downstream user secured by a commitment.
- d. The capacity of a project used within ten years of completion of construction. Pump station wet wells and pipelines capacity documented by a market assessment showing the 20-year service area, and corresponding uses, and flows.
- e. Reasonable costs to provide an emergency backup water supply for the recycled water system.
- f. Eligible capacities are measured in terms of annual recycled water deliveries determined by recycled water market assurances. At least 50 percent of the eligible project capacity must serve users that will be Existing Users by the time of Initiation of Operations. Eligible sizes of facilities components are based on reasonable design criteria to serve these annual deliveries. Eligible costs for partially eligible capacity will be determined on an incremental cost rather than pro-rata cost basis. Applicants constructing pipelines or treatment facility capacity, in excess of that which can be utilized within five years of completion of construction, must demonstrate that adequate recycled water supply and demand will be available to support that future capacity.
- g. Funding Prioritization: Division staff will prioritize funding encumbrance using the following considerations. All proposed water recycling projects will be evaluated for cost effectiveness, taking into consideration all project costs and benefits; for energy efficiency; and potential for greenhouse gas

emissions. In future years the maximum grant amount per project may be reduced when Proposition 1 repayment revenues decrease to the point where the maximum grant benefit can no longer be awarded.

9. Project Selection Criteria

Available funding will be distributed to projects that meet the requirements of these Guidelines and are ready to proceed with the execution of a funding agreement, and in accordance with the following selection criteria:

- a. Projects that provide benefit to and/or are submitted by an SDAC, and/or support the human right to water in California.
- b. Direct Potable Reuse (if such projects are authorized by the State Water Board): DPR projects satisfy water supply reliability improvements by directly providing an additional drinking water resource. A DPR project that offsets state or imported water supplies, thereby reducing reliance on the Delta or in-stream flows, may qualify for construction funding.
- c. Indirect Potable Reuse (IPR): IPR projects satisfy water supply reliability improvements by indirectly supplementing drinking water supplies either through surface water augmentation or groundwater recharge. An IPR project that offsets state or imported water supplies, thereby reducing reliance on the Delta or in-stream flows, may qualify for construction funding.
- d. Recycled Water Distribution Systems (especially regional distribution systems) that provide multiple benefits. Distribution systems include pumping, storage and pipeline systems and other associated appurtenances.
- e. Groundwater Recharge Facilities (when associated with protection of groundwater quality) that demonstrate multiple benefits by using recycled water to improve groundwater quality and supply, and/or provide public health benefits from improved water quality and supply.
- f. Recycled Water Treatment Facilities.

B. Other Requirements

1. Minimum Use Requirements

- a. Projects are expected to reach the following minimum use requirements:
- b. The total eligible project capacity, in accordance with the user connection schedule provided in the application, shall be delivered within 5 calendar years of operation from the date of Initiation of Operations.
- c. In all cases the applicant must deliver no less than 25% of the eligible project capacity within the first calendar year of operation from the date of Initiation of Operations.

2. Annual Reporting

a. The recipient shall submit annual reports on recycled water use data, with the first report due on February 28th following one full year of operations. Annual reporting will continue for up to 5 years at the discretion of Division Staff. For guidance on preparing the annual report see Appendix G.

APPENDIXES

- A. Water Recycling Facilities Planning Grant
- B. Recommended Outline for Recycled Water Project Reports
- C. Guidelines on Force Account Eligible Costs
- D. Market Assurances
- E. Annual Report Requirements

Appendix A. Water Recycling Facilities Planning Grant Application

The Water Recycling Funding Program provides grants to local public agencies for planning studies. Applications for the Facility Planning Grant may be made through the State Water Board Financial Assistance Application Submittal Tool (FAAST). All supporting documents may be uploaded electronically into FAAST. Once the application has been filed, a financial assistance project manager (PM) will be assigned to the project.

The purpose of the planning grant is to assist agencies in performing planning studies for water recycling using treated municipal wastewater. In addition to encouraging new recycling planning studies, these funds are intended to supplement local funds and enhance the quality of local planning efforts.

A. Funding Criteria

1. Eligible Projects:

Grants are provided for facilities planning studies to determine the feasibility of using recycled water to offset the use of fresh/potable water from state and/or local supplies. Pollution control studies, in which water recycling is an alternative to disposal, are not eligible. The grant will cover 50 percent of eligible costs up to \$75,000.

2. Eligible Applicants:

Only local public agencies are eligible to receive a facilities planning grant. An agency may receive more than one facilities planning grant from the SWRCB. However, each proposed study must be independent in scope of work from previously-funded studies.

B. Facilities Planning Grant Financing Process

Figure 1 provides graphical guideline for the project report grant financing process. This graphic may also be found at the State Water Board website where there are embedded links to the application and sample documents

(http://www.waterboards.ca.gov/water_issues/programs/grants_loans/applications/funding_process.s html).

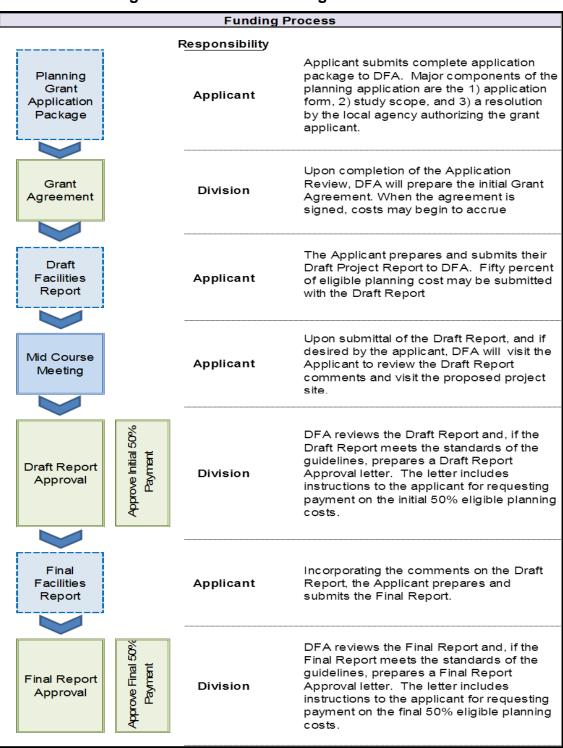


Figure 1	- Facilities Planni	ing Grant Process
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Appendix A – Water Recycling Facilities Planning Grant Application

California State Water Resources Control Board Division of Financial Assistance Office of Water Recycling

Water Recycling Facilities Planning Grant Application

A. Applicant Information								
Agency Name:								
Street Address:								
Mailing Address:								
Authorized Representative (Nan	ne/Title/Phone):							
Contact Person (Name/Title/Pho	ne)							
B. Facilities Planning Study Inf	formation							
1. Study Title:								
2. Regional Water Quality Control	bl Board:							
3. Estimated Project Schedule:								
 b. Submittal of draft fa c. Submittal of final fa 	 a. Study starting date: b. Submittal of draft facilities plan: c. Submittal of final facilities plan: 							
 Plan of Study: Please submit a Recycling Funding Guidelines, Pa 		pared according to the directions in the Water						
C. Facilities Planning Study In		sus radomicit 2./						
1. Total Study Cost:								
2. Requested Grant Amount:								
The maximum grant is 50 percent \$75,000.	t of the total eligible	e study cost up to a maximum grant of						
	eipt of grant disbu	ed to have funds available to handle cash flow for rements. Does the Agency have local funds on es □ No						
	cribe any other loa	ns, grants, or other financial assistance being						
D. Authorization								
acceptance of a grant from the W is provided for your reference. (L	ater Recycling Fac abel this as Attach							
E. Certification and Signature	of Authorized Re	presentative						
		ding all attachments, is true and correct to the best and information will be required to be submitted						
Signature:		Printed Name:						
Date: Agency's Federal I.D. No.:								

Applicants who want to receive funding should submit a complete planning grant application (application). The application consists of:

- Water Recycling Facilities Planning Grant Application
- Study Scope (see section B below for suggested format)
 <u>http://www.waterboards.ca.gov/water_issues/programs/grants_loans/water_recycling/docs/tbl1.pdf</u>
- Authorizing Resolution/ Ordinance (see Appendix E for example resolution language)
- Compliance with the Division (CWSRF Policy Appendix H) Water Conservation Plan
- Proof of Submittal of an Urban Water Management Plan to DWR
- Proof of Compliance with Demand Management Measures and Best Management Practices <u>http://www.water.ca.gov/wateruseefficiency/docs/compliance-ab1420.pdf</u>
- Certification for Compliance with Water Metering
- Relevant Service, Management, Operating or Joint Powers Agreements (if applicable)
- Other supporting documents

As part of the review, division staff may request additional information from the applicant regarding the Study Plan and other application components. The Division will issue a grant agreement once the application review has been completed in accordance with these WRFP requirements. The applicant will be given a timeframe of approximately 3-years to complete the study and prepare the final facilities project report.

C. Study Scope

The Study Scope must address the following 15 components.

- 1. A description of the recycled water service area that will be studied.
- 2. The potential sources of recycled water and a brief summary of the unit processes currently in use at existing treatment facilities.
- 3. A description of the current disposal/reuse of the wastewater that is proposed to be recycled.
- 4. A map of the study area showing the sources of recycled water and potential service area(s). The map should clearly show the study area boundary and boundaries of other associated agencies, such as community or sewer services districts, municipalities and water supply agencies.
- 5. General description of current sources of fresh water, including quantity and potential future demand.

- 6. Identification of the water and wastewater agencies having jurisdictions over the sources of recycled water and/or the potential service area.
- 7. A general description of water recycling and fresh/potable water supply alternatives that may be evaluated.
- 8. A description of the opportunities for stakeholder participation, for example, public meeting with the local community members, potential recycled water users, and other agencies that have a stake in the study.
- 9. A schedule with the start and completion dates of major tasks associated with the project report study.
- 10. A list of potential problems that may cause delay in the progress of the study and description of the proposed actions to reduce the impact of these potential problems.
- 11. Identification of the entities that will be conducting the study and description of their roles. This may include a description of proposed subcontracts with consultants or interagency agreements with other agencies, and any force account work.
- 12. Proposed budget for the study, including estimated costs of specific tasks including the recycled water market assessment, alternatives development and analysis, recommended project, facilities project report, quality control and the total study cost.
- 13. Sources of financing, and sources of funds for cash flow until grant reimbursement.
- 14. Proposed study outline. The applicant should consult guideline appendix B for a suggested outline and list of required study subject areas³.
- 15. Proposed project timeline or schedule.

³ The list of study areas is comprehensive and intended to be applicable to the full range of possible water recycling facilities reports that could be developed in California. The applicant should review the list of study areas and develop their own report outline based on this list and include other subject areas relevant and appropriate to their study.

Appendix B. Recommended Outline for Recycled Water Project Reports

This facilities project report outline emphasizes the information relevant to water recycling and its application for water supply purposes. The outline is inclusive and not all items may be applicable to every project. The applicant should discuss its planned study with Division staff to identify the outline components that should be addressed by the study.

Project Report

- A. Maps and Diagrams
- 1. Vicinity Map.
- 2. Detailed map and GIS shape file of study area boundaries.
- 3. Topographic map.
- 4. City boundaries.
- 5. Wholesale and retail water supply entity boundaries within study area and adjacent to study area.
- 6. Wastewater agency boundaries within and adjacent to study area.
- 7. Existing recycled water distribution pipelines, storage, and customers.
- 8. Ground water basin boundaries, major streams, streams receiving waste discharges.
- 9. Present and projected land use.
- 10. Each recycled water facilities alternative (including recommended project), showing locations of potential customers and approximate pipeline routes.
- 11. Wastewater treatment schematic--existing and proposed.

B. Study Area Characteristics

- 1. Hydrologic features.
- 2. Ground water basins, including quantities extracted by all users, natural and artificial recharge, losses by evapotranspiration, inflow and outflow of basins, and safe yield or overdraft.
- 3. Water quality ground water and surface water.

- 4. Land use and land use trends.
- 5. Population projections of study area.
- 6. Beneficial uses of receiving waters and degree of use, portion of flow that is effluent.

C. <u>Water Supply Characteristics and Facilities</u>

- 1. Description of all wholesale and retail entities.
- 2. All sources of water for study area and major facilities, their costs, (costs should be broken down into fixed and variable), subsidies, and customer prices.
- 3. Capacities of present facilities, existing flows, estimated years when capacities to be reached for major components (water treatment plants, major transmission and storage facilities).
- 4. Ground water management and recharge, overdraft problems.
- 5. Water use trends and future demands, prices and costs.
- 6. Quality of water supplies.
- 7. Sources for additional water and plans for new facilities (for both the local entity and the wholesalers).
- D. <u>Wastewater Characteristics and Facilities</u>
- 1. Description of entities.
- 2. Description of major facilities, including capacities, present flows, plans for new facilities, description of treatment processes, design criteria.
- 3. Water quality of effluent and any seasonal variation.
- 4. Additional facilities needed to comply with waste discharge requirements.
- 5. Sources of industrial or other problem constituents and control measures.
- 6. Existing recycling, including users, quantities, contractual and pricing arrangements.
- 7. Existing rights to use of treated effluent after discharge.
- 8. Wastewater flow variations hourly and seasonal.
- E. <u>Treatment Requirements for Discharge and Reuse</u>
- 1. Required water qualities for potential uses.

Appendix B – Recommended Outline for Recycled Water Project Reports

- 2. Required health-related water qualities or treatment requirements for potential uses, operational and on-site requirements (such as backflow prevention, buffer zones).
- 3. Wastewater discharge requirements, anticipated changes in requirements.
- 4. Water quality-related requirements of the RWQCB to protect surface or ground water from problems resulting from recycled water use.

F. <u>Recycled Water Market</u>

- 1. Description of market assessment procedures.
- 2. Descriptions of all users or categories of potential users, including type of use, expected annual recycled water use, peak use, estimated internal capital investment required (on-site conversion costs), needed water cost savings, desire to use recycled water, date of possible initial use of recycled water, present and future source of water and quantity of use, quality and reliability needs, and wastewater disposal methods.
- 3. Summary tables of potential users and related data.
- 4. Definition of logical service area based on results of market assessment.
- G. Project Alternative Analysis
- 1. Planning and design assumptions:
 - a. Delivery and system pressure criteria.
 - b. Peak delivery criteria.
 - c. Storage criteria.
 - d. Cost basis: cost index, discount rate, useful lives, etc.
 - e. Planning period.
- 2. Water Recycling Alternatives to be Evaluated
 - a. Treatment alternatives:
 - i. Alternative levels of treatment.
 - ii. Alternative unit processes to achieve a given level of treatment.
 - b. Pipeline route alternatives.
 - c. Alternative markets:
 - i. Based on different levels of treatment.

- ii. Geographical areas.
- d. Alternative storage locations.
- e. Sub alternatives of selected alternative:
 - i. Marginal analysis for selected alternative for certain categories of users or certain geographic areas.
 - ii. Varying storage, pump rates, and pipeline diameters.
 - iii. Use of water blending during peak irrigation months.
- 2. Non-recycled water alternatives.
 - a. Discussion of other potentially viable new sources of water.
 - b. Provide economic costs.
- 3. Water conservation/reduction analysis.
 - a. Analysis.
 - b. Impact on recycling, if any.
 - c. Recommendation.
 - d. Implementation.
- 4. Pollution control alternatives (if applicable) needed to comply with waste discharge requirements, and possible allocation of costs between recycling and pollution control.
- 5. No project alternative.
- 6. Information supplied for each alternative to include, but not be limited to:
 - a. Cost tables for each alternative with breakdown of costs by total capital (without grants), O&M, unit processes, and with equivalent annual cost and per acre-foot cost.
 - b. Lists of potential users assumed for each alternative.
 - c. Economic analysis. The State Water Board provides two economic analysis models and model guidance on our website at:

http://www.waterboards.ca.gov/water_issues/programs/grants_loans/water_recycling/ec on_analysis_tskfrce.shtml

- d. Energy analysis for each alternative, including direct and construction energy.
- e. Water quality impacts:
 - i. Effect on receiving water by removing or reducing discharge of effluent, including effect on beneficial uses resulting from reduced flow.

- ii. Ground water impacts.
- 7. Comparison of above alternatives and recommendation of specific alternative.
- H. <u>Recommended Project</u>
- 1. Description of all proposed facilities and basis for selection.
- 2. Preliminary design criteria and refined pipeline routes.
- 3. Cost estimate based on time of construction.
- 4. List of all potential users, quantity of recycled water use, peak demand, and commitments obtained.
- 5. Reliability of facilities as compared to user requirements.
- 6. Implementation plan:
 - a. Coordination with water suppliers, determination of recycled water supplier and needed agreements or ordinances.
 - b. Ability and timing of users to join system and make on-site investments.
 - c. Tentative water recycling requirements of RWQCB.
 - d. Commitments from potential users.
 - e. Water rights impact.
 - f. Permits, right-of-way, design, construction.
 - g. Detailed schedule.
- 7. Operational plan responsible people, equipment, monitoring, irrigation scheduling, etc.
- I. Construction Financing Plan and Revenue Program
- 1. Sources and timing of funds for design and construction.
- 2. Pricing policy for recycled water.
- 3. Costs that can be allocated to water pollution control.
- 4. Annual projection of:
 - a. Water prices for each user or category of users.
 - b. Recycled water used by each user.
 - c. Annual costs (required revenue) of recycling project.
 - d. Allocation of costs to users.

- e. Unit costs to serve each user or category of users.
- f. Unit price of recycled water for each user or category of users.
- g. Sensitivity analysis assuming portion of potential users fail to use recycled water.
- 5. Sunk costs and indebtedness.
- J. Appendices
- 1. Tables of all abbreviations.
- 2. Copies of letters of interest or intent from recycled water users, or other documentation of support from potential users.
- 3. Draft of recycled water mandatory use ordinance or model user contract.
- 4. Drafts of necessary agreements, such as wholesale-retail agreement, joint powers agreement
- 5. Hydraulic calculations

Appendix C. Guidelines on Force Account Eligible Costs

A. Force Account

"Force Account" means the use of the recipient's own employees for the planning, design, construction, or construction-related activities on a Study or Project and the direct purchase by the recipient of materials or equipment for the Project. Costs for directly identifiable Study or Project activities are eligible for reimbursement. However, the WRFP will not reimburse a recipient for costs that it would have incurred regardless of the WRFP-funded study or project. Indirect costs of the recipient are not an eligible cost.

Any Study or Project cost that is otherwise eligible for WRFP funding reimbursement shall also be reviewed by the Division Study or Project Manager to ensure that the costs were incurred, were reasonable in amount, and were necessary for completion of the work.

B. Direct Costs.

Direct costs incurred by the recipient are generally eligible and are defined as those costs that can be identified specifically with the eligible Study or Project or that can be directly assigned to the Study or Project with a high degree of accuracy. Typical direct costs are: compensation of employees for performance of work under the funding agreement, the costs of materials consumed or expended in the performance of such work, costs of project equipment and other approved capital expenditures, and other items of expense incurred for the Study or Project, including extraordinary utility consumption.

All personnel services costs will be treated as a direct labor salary cost. Included in this cost are payroll taxes, workers compensation, holidays, vacation, sick leave, and other fringe benefits applicable to direct labor. Similarly, incidental costs related to rental or pool equipment, such as automobiles, will be considered a direct cost.

C. Indirect Costs.

Indirect costs are those incurred for a common or joint purpose benefiting more than one cost objective and are not readily identifiable to the cost objectives of the specific Study or Project. These costs include telephone, rent, consumable supplies, indirect salaries, interest, repairs, insurance, taxes, depreciation, etc.

D. Management Costs.

Management costs will be considered as part of the ordinary operating expenses of the recipient and/or an indirect cost and, therefore, will not normally be an eligible Study or Project cost. However, management employees may be required to expend their time incidentally but directly related to the study or project to resolve difficult problems that cannot be handled by non-management recipient staff. Such costs may be considered eligible costs. The State Board Study or Project Manager will determine eligibility for

each specific request.

Appendix D. Market Assurances

Mandatory Use Ordinances

A mandatory use ordinance is a local law adopted by a retail water purveyor requiring the use of recycled water in place of another source of water. For the ordinance to be acceptable to the Division as a market assurance, it should contain the following:

- Specification of the types of use of water for which recycled water must be used;
- Specification of the conditions under which recycled water must be used or new development must be plumbed for future recycled water use;
- Procedures for determining the water users required to either convert to recycled water service or be plumbed to accept recycled water upon new water service;
- Procedure to provide notice to potential users that they are subject to the ordinance and specification that the notice include information about the project, the responsibilities of the users under the ordinance, the price of the recycled water, and description of the on-site retrofit facilities requirements.
- Procedures for request by the users for a waiver.
- A penalty for noncompliance with the ordinance. Acceptable penalties are discontinuance of fresh/potable water service, a fresh/potable water rate surcharge of at least 50 percent of the freshwater rate, or an equally effective penalty.

If the applicant implementing the recycled water project does not have the legal authority to enforce a mandatory use ordinance (for example, a sewerage agency), the mandatory use ordinance may be implemented by the retail water purveyor.

User Contracts

A user contract is a binding agreement between recycled water purveyors and users, signed by both parties. An acceptable contract must contain the following provisions:

- A commitment to use the recycled water for a minimum period of 10 years or for the duration of the financing agreement contract, if applicable;
- The annual amount of recycled water the user agrees to use;
- The sites and the types of recycled water uses;
- Specification of the conditions and water quality of recycled water use;
- The price of the recycled water;
- Description of the regulatory and water purveyor requirements for on-site retrofit facilities needed to convert from freshwater to recycled water.
- Date when recycled water use will commence.

User contracts are required from sufficient users such that in aggregate they represent most of the recycled water deliveries for water users that will exist by the time of

completion of construction. A special assessment district formed for the purpose of using recycled water may be considered as a user assurance. Division staff will make the determination regarding the eligibility of a special assessment district to be accepted as a user assurance.

Appendix E. Annual Report Requirements

The recipient must submit annual reports on recycled water use data collected for up to five (5) consecutive calendar years following the project's Initiation of Operation date established in the funding agreement.

- (a) Reports must be submitted in hard copy and/or electronically and should be limited to 8 $\frac{1}{2}$ x 11 inch paper.
- (b) The <u>first</u> annual report is due on February 28th following the first full calendar year of operation and shall cover the period from the completion of construction through the end of the first full calendar year of operation. Subsequent annual reports are due by February 28th following the calendar year covered. The annual reports shall be prepared in accordance with these Water Recycling Funding Program Guidelines.
- (c) The annual report shall include the following:
 - 1. The total planned recycled water use volume (provided by the recipient in the funding application-user connection schedule).
 - 2. Provide a breakdown of the total annual recycled water deliveries by month and the respective type of use categories. Present this data in a table (provided by the Division) showing type of use vs. month. If the recycled water deliveries are supplemented with potable or fresh water by the recipient, provide the monthly and total amounts.
 - 3. Provide operation and maintenance costs of the project for the year.
 - 4. Compare the cost or rate (to the end user) of recycled water vs potable/fresh water during the year.
 - 5. Review the funding agreement and address any outstanding special conditions for the project.
 - 6. If the project is not meeting its planned recycled water use, provide a brief discussion on the progress being made towards achieving the remaining system capacity.
- (d) Once the recycled water deliveries for the project have reached the total planned recycled water use volume, no further annual reports will be required by the Division.

Use Type ²	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Total:													

Annual Recycled Water Deliveries¹ (in acre-feet)

1= Project deliveries, not agency-wide deliveries

2= Use Types:

Golf Course Irrigation

Landscape Irrigation

Agricultural Irrigation

Commercial

Industrial

Geothermal Energy Production

Seawater Intrusion Barrier

Groundwater Recharge

Recreational Impoundment

Natural System Restoration, wetlands and wildlife habitat

Surface Water Augmentation

Indirect Potable Reuse

Direct Potable Reuse

Other