# GREATER MONTEREY COUNTY INTEGRATED REGIONAL WATER MANAGEMENT PROGRAM

# **DRAFT** APPLICATION FORM FOR IMPLEMENTATION PROJECTS AND CONCEPT PROPOSALS

#### 2018

#### **GENERAL INSTRUCTIONS:**

Both implementation project proposals and concept proposals are being accepted at this time. Only implementation projects, however, will be eligible for IRWM Implementation Grant funds. If you would like to submit a concept proposal, you need only complete Section I of this application.

For implementation projects: There will be two rounds of Proposition 1 IRWM Implementation Grant solicitations (Round 1 in late 2018/early 2019, Round 2 in 2020). If you are interested in having your project considered for the Round 1 solicitation, you must complete all sections of this application. If you are not interested in having your project considered in Round 1, you need only complete Sections I and II.

APPLICATIONS ARE DUE PLACEHOLDER

#### **SECTION I. PROJECT SUMMARY AND IRWM OBJECTIVES**

1. Project Proponent (Name of Organization):
2. Type of Entity:
Public agency Nonprofit organization Public Utility Mutual Water Company
Federally Recognized or State Indian Tribe
3. Name and Title of Contact Person:
4. Phone:
5. Email:
6. Project Title:
<ul> <li>7. Type of Proposal: Is your project an implementation project (developed, with budget) or a concept proposal?</li> <li>Implementation project</li> <li>Concept proposal</li> </ul>

Please note: No project will be eligible to receive IRWM grant funds without documentation of landowner

**8. Project Summary:** Briefly describe your project (e.g., one to three paragraphs):

support for any and all properties on which project activities will occur.

**9. Project Cost Summary:** Please summarize project costs. If your project is a concept proposal you may skip this question. Note: IRWM Implementation Grant projects **require** a minimum non-State funding match of 50% of the total project costs. Projects that address a critical water resource need of a disadvantaged community or economically distressed area may be waived or may have a lower match requirement.

	\$ Amount
Requested IRWM Grant Funds	
Matching (non-State) Funds	
Other State Funds	
Total Project Cost	

**10. Project Location:** Projects must be located within the Greater Monterey County IRWM region,<sup>1</sup> or otherwise be of direct benefit to the Greater Monterey County IRWM region. Briefly, where is your project located?

#### 11. IRWM Criteria

To b	e eligible for inclusion in the IRWM Plan, projects must include one or more of the following elements.
Plea	se check all that apply:
	Water reuse and recycling for non-potable reuse and direct and indirect potable reuse
	Water-use efficiency and water conservation
	Local and regional surface and underground water storage, including groundwater aquifer cleanup or recharge projects
	Regional water conveyance facilities that improve integration of separate water systems
	Watershed protection, restoration, and management projects, including projects that reduce the risk of wildfire or improve water supply reliability
	Storm water resource management, including, but not limited to, the following:
	Projects to reduce, manage, treat, or capture rainwater or storm water
	• Projects that provide multiple benefits such as water quality, water supply, flood control, or open space
	• Decision support tools that evaluate the benefits and costs of multi-benefit storm water projects
	Projects to implement a storm water resource plan
	Conjunctive use of surface and groundwater storage facilities
	Water desalination projects
	Decision support tools to model regional water management strategies to account for climate change and other changes in regional demand and supply projections
	Improvement of water quality, including drinking water treatment and distribution, groundwater and aquifer remediation, matching water quality to water use, wastewater treatment, water pollution
	prevention, and management of urban and agricultural runoff
Ш	Regional projects or programs as defined by the IRWM Planning Act

<sup>&</sup>lt;sup>1</sup> The Greater Monterey County IRWM region includes most of Monterey County, with the exception of areas that are already included in other IRWMPs (specifically, the Pajaro River Watershed IRWM region and Monterey Peninsula, Carmel Bay, and South Monterey Bay IRWM region). These exceptions include: land areas within the San Jose Creek and Carmel River watersheds, land areas within the Pajaro River watershed, and most of the Monterey Peninsula (the Greater Monterey County region includes and runs north from Marina). For a map of the Greater Monterey County IRWM region, please go to: http://www.greatermontereyirwmp.org/about/background/.

# 12. IRWM Plan Objectives

The following objectives have been identified for the Greater Monterey County IRWM Plan. Please select all of the objectives that the project will address, and write a very brief justification (unless it is *entirely obvious*) of how your project will address each objective. (For concept proposals, you need not provide the justification.)

	Objective	Justification
Wat	er Supply Goal	
	Increase groundwater recharge and protect groundwater recharge areas.	
	Optimize the use of groundwater storage with infrastructure enhancements and improved operational techniques.	
	Increase and optimize water storage and conveyance capacity through construction, repair, replacement, and augmentation of	
	Diversify water supply sources, including but not limited to the	
$\vdash$	use of recycled water.	
	Maximize water conservation programs.	
H	Capture and manage storm water runoff.	
Ш	Optimize conjunctive use where appropriate.	
	Support research and monitoring to better understand water supply needs.	
	Support the creation of water supply certainties for local production of agricultural products.	
	Promote public education about water supply issues and needs.	
	Promote planning efforts to provide emergency drinking water to communities in the region in the event of a disaster.	
Wat	er Quality Goal	
	Promote practices necessary to meet, or where practicable,	
П	exceed all applicable water quality regulatory standards (for	
	drinking water, surface and groundwater quality).	
$\Box$	Promote projects to prevent seawater intrusion.	
	Incorporate or promote principles of low impact development	
	where feasible, appropriate, and cost effective.	
П	Protect surface waters and groundwater basins from	
	contamination and the threat of contamination.	
	Support research and pilot projects for the co-management of food safety and water quality protection.	
	Improve septic systems, sewer system infrastructure, wastewater treatment systems, and manure management programs to	
	prevent water quality contamination.	
$\Box$	Support research and other efforts on salinity management.	
	Support monitoring to better understand major sources of	
	erosion, and implement a comprehensive erosion control	
	program.	
	Promote programs and projects to reduce the quantity and	
	improve the quality of urban and agricultural runoff and/or	
	mitigate their effects in surface waters, groundwater, and the	
	marine environment.	
	Promote regional monitoring and analysis to better understand	
	water quality conditions.	

	Support research and utilization of emerging technologies	
	(enzymes, etc.) to develop effective water pollution prevention	
	and mitigation measures, and source tracking.	
	Promote public education about water quality issues and needs.	
Floo	d Protection & Floodplain Management Goal	
	Promote projects and practices to protect infrastructure and	
ш	property from flood damage.	
	Improve flood management infrastructure and operational techniques/strategies.	
	Implement flood management projects that provide multiple	
	benefits such as public safety, habitat protection, recreation,	
	agriculture, and economic development.	
	Develop and implement projects to protect, restore, and enhance	
	the natural ecological and hydrological functions of rivers, creeks,	
	streams, and their floodplains.	
	Support research and monitoring efforts to understand the	
	effects of flooding on transport and persistence of pathogens in	
	food crop production areas.	
	Support management of flood waters so that they do not	
ш	contaminate fresh produce in the field.	
	Promote public education about local flood management issues	
	and needs.	
Envi	ronment Goal	
	Support science-based projects to protect, improve, enhance,	
	and/or restore the region's ecological resources, while providing	
	opportunities for public access and recreation where appropriate.	
	Protect and enhance state and federally listed species and their	
ш	habitats.	
	Minimize adverse environmental impacts of water resource	
ш	management projects.	
	Support applied research and monitoring to better understand	
	environmental conditions, environmental water needs, and the	
	impacts of water-related projects on environmental resources.	
	Implement fish-friendly stream and river corridor restoration	
Ш	projects.	
Ιп	Reduce adverse impacts of sedimentation into streams,	
Ш	particularly from roads and non-point sources.	
Ιп	Promote efforts to prevent, control, reduce, and/or eradicate	
	high priority invasive species.	
$ \Box$	Promote native drought-tolerant plantings in municipal and	
Ш	residential landscaping.	
	Consider opportunities to purchase fee title or conservation	
	easements on lands from willing sellers that provide integrated	
Ш	water resource management benefits. Ensure adequate funding	
	and infrastructure to manage properties and/or monitor	
	easements.	
$ \Box$	Support research and monitoring efforts to understand the	
	effects of wildfire events on water resources.	
Regi	onal Communication and Cooperation Goal	
	Facilitate dialogue and reduce inconsistencies in water	
ГШ	management strategies/regulations between local, regional,	
	state, and federal entities.	
	Promote dialogue between federal and state regulators and small	
$  \sqcup  $	water system managers to facilitate water quality regulation	
ĺ	compliance.	

	Foster collaboration between regional entities to minimize and	
	resolve potential conflicts and to obtain support for responsible	
	water supply solutions and improved water quality.	
_	Build relationships with federal, state, and local regulatory	
Ш	agencies and other water agencies to facilitate the permitting,	
	planning, and implementation of water-related projects.	
	Increase stakeholder input and public education about the need,	
	complexity, and cost of strategies, programs, plans, and projects	
	to improve water supply, water quality, flood management,	
Diag	coastal conservation, and environmental protection.	
Disa	dvantaged Communities Goal	
	Seek funding opportunities to ensure all communities have a water system with adequate, safe, high-quality drinking water.	
	Seek funding opportunities to ensure all communities have	
	adequate wastewater treatment.	
	Ensure that disadvantaged communities are adequately	
	protected from flooding and the impacts of poor surface and	
ш	groundwater quality.	
	Provide support for the participation of disadvantaged	
	communities in the development, implementation, monitoring,	
Ш	and long-term maintenance of water resource management	
	projects.	
	Promote public education in disadvantaged communities about	
	water resource protection, pollution prevention, conservation,	
	water quality, and watershed health.	
Clim	ate Change Goal	
	Plan for potential impacts of future climate change.	
	Support increased monitoring and research to obtain greater	
Ш	understanding of long-term impacts of climate change in the	
	Greater Monterey County region.	
	Support efforts to research alternative energy and to diversify	
П	energy sources appropriate for the region, and consider options	
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#### SECTION II. RESOURCE MANAGEMENT STRATEGIES AND CLIMATE CHANGE

This section is required for all implementation projects. If your project is a concept proposal, there is no need to complete this section.

Note, all implementation projects in the IRWM Plan are ranked based on how well the projects address: IRWM Plan objectives (in Section I above), Resource Management Strategies, climate change adaptation, and reduction of greenhouse gas emissions. (Concept proposals are not included in the project prioritization.) How well a project scores on the Ranked Project List is one of several factors that the Regional Water Management Group will take into consideration when selecting which projects to put forward in the Round 1 and Round 2 IRWM Implementation Grant solicitations. For implementation projects, please show how your project addresses the following criteria, as applicable.

### 1. Resource Management Strategies

One of the goals of integrated regional water management planning is to encourage diversification of water management approaches. Please select the strategies that your project will use (check all that apply):

Reduce Water Demand	Practice Resources Stewardship
Agricultural Water Use Efficiency	Agricultural Lands Stewardship
☐ Urban Water Use Efficiency	☐ Ecosystem Restoration
	Forest Management
Improve Operational Efficiency and Transfers	☐ Land Use Planning and Management
Conveyance	Recharge Area Protection
System Reoperation	Sediment Management
Water Transfers	☐ Watershed Management
☐ Infrastructure Reliability	Environmental and Habitat Protection and
Increase Water Supply	Improvement
Conjunctive Management & Groundwater Storage	Wetlands Enhancement and Creation
Desalination	Improve Flood Management
Precipitation Enhancement	Flood Management
Degualed Municipal Water	
Recycled Municipal Water	
Surface Storage	People and Water
	People and Water  Economic Incentives (Loans, Grants, and Water Pricing)
Surface Storage	Economic Incentives (Loans, Grants, and Water
Surface Storage  Storm Water Capture and Management	Economic Incentives (Loans, Grants, and Water Pricing)
Surface Storage Storm Water Capture and Management  Improve Water Quality	Economic Incentives (Loans, Grants, and Water Pricing)  Outreach, Engagement, and Education
Surface Storage Storm Water Capture and Management  Improve Water Quality Drinking Water Treatment and Distribution	Economic Incentives (Loans, Grants, and Water Pricing)  Outreach, Engagement, and Education  Water and Culture
Surface Storage Storm Water Capture and Management  Improve Water Quality Drinking Water Treatment and Distribution Groundwater/Aquifer Remediation	Economic Incentives (Loans, Grants, and Water Pricing)  Outreach, Engagement, and Education  Water and Culture  Water-Dependent Recreation
Surface Storage Storm Water Capture and Management  Improve Water Quality Drinking Water Treatment and Distribution Groundwater/Aquifer Remediation Matching Water Quality to Use	Economic Incentives (Loans, Grants, and Water Pricing) Outreach, Engagement, and Education Water and Culture Water-Dependent Recreation Regional Cooperation Recreation and Public Access
Surface Storage Storm Water Capture and Management  Improve Water Quality Drinking Water Treatment and Distribution Groundwater/Aquifer Remediation Matching Water Quality to Use Pollution Prevention	Economic Incentives (Loans, Grants, and Water Pricing)  Outreach, Engagement, and Education  Water and Culture  Water-Dependent Recreation  Regional Cooperation  Recreation and Public Access  Other Resource Management Strategies
Surface Storage Storm Water Capture and Management  Improve Water Quality Drinking Water Treatment and Distribution Groundwater/Aquifer Remediation Matching Water Quality to Use Pollution Prevention Salt and Salinity Management	Economic Incentives (Loans, Grants, and Water Pricing) Outreach, Engagement, and Education Water and Culture Water-Dependent Recreation Regional Cooperation Recreation and Public Access
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# 2. Climate Change Adaptation

a) Does your project contribute to climate change adaptation? If so, what climate change vulnerabilities in the region does your project respond to, specifically? (See Chapter R of the IRWM Plan for a description of vulnerabilities in the region.) Please describe how, and to what extent.
b) Does your project consider the effects of sea level rise on water supply conditions and identify suitable adaptation measures?
c) Does the project take into consideration changes in the amount, intensity, timing, quality and variability of runoff and recharge?
3. Reduction of Greenhouse Gas Emissions (GHGs)
a) Please describe the extent to which your project will help reduce GHGs, compared to project alternatives. To assist you in estimating GHG emissions, please use the California Emissions Estimator Tool (CalEEMod) on the Greater Monterey County IRWM website: http://www.greatermontereyirwmp.org/performance/.
b) If appropriate, describe the extent to which the project will help the region reduce GHGs over the next 20 years.
c) To what extent will the project help reduce energy consumption, especially the energy embedded in water use, and ultimately reduce GHG emissions?

# **SECTION III. ROUND 1 APPLICATION QUESTIONS**

The following questions are what we expect to be included in the Department of Water Resources (DWR) Round 1 Implementation Grant application. Complete this section only if you would like your project to be considered for Round 1. Please answer the following questions briefly, but completely. Note that if your project is selected for the Round 1 application, you will need to be present for a Pre-application Workshop (time and location TBD) during which time DWR staff will review your project and ask questions.

#### 1. Map

Please provide a project map.

### 2. How the Project Addresses the Critical Need(s) of the Region

Based on the objectives you selected in Section I Question 10 above, please describe how your project addresses the critical needs of the region.

#### 3. Stakeholder Coordination

Please describe the nature of stakeholder coordination for planning, developing, and implementing the project.

### 4. Operations and Maintenance

Please describe how operations and maintenance of the project will be supported.

#### 5. Narrative Description of Physical Benefits

Briefly describe the physical benefits of the project, background conditions, and methods used to determine the benefits.

# 6. Quantification of Physical Benefits

Please complete the tables below, quantifying physical benefits (if available). Use a separate table for each type of physical benefit. Please use <u>only</u> the metrics specified below:

For water supply produced, saved, or recycled, enter acre-feet per year (AFY)

For water quality, enter constituent concentration reduced in mg/L

For flood damage reduction, enter inundated acres reduced in acres

For habitat improved, restored or protected, enter habitat restored in acres

For fishery benefits, enter increased fishery flow rate in cubic feet per second (cfs)

For species protection, enter number of species benefited

Annual Project Physical Benefits				
Project Name:				
Type of Benefit Claimed:				
Units of the Benefit Claimed*:				
Anticipated Use	eful Life of Project (y	ears):		
(a)	(b)	(c)	(d)	
			Physical Benefits	
Year	Without Project	With Project	Change Resulting from Project	
2019				
2020				
Etc. through last year of project life				
Comments:				
Annual Project Physical Repofits				

Aillidal Floject Filysical Belletits				
Project Name:				
Type of Benefit Claimed:				
Units of the Benefit Claimed*:				
Anticipated Use	eful Life of Project (y	ears):		
(a) (b) (c) (d)				
			Physical Benefits	
Year	Without Project	With Project	Change Resulting from Project	
2019				
2020				
Etc. through last year of project life				
Comments:				

### 7. Work Plan

Briefly describe your work plan, organized according to the following categories:

- a) Direct Project Administration Costs
- b) Land Purchase/Easement
- c) Planning/Design/Engineering/Environmental Documentation (including feasibility studies CEQA documentation, permitting, etc.)
- d) Construction/Implementation

Explain why the project implementation methodology was chosen, and why is this the preferred alternative.

Briefly describe the project's technical feasibility. In particular, does the project make use of or provide for new and innovative technologies?

# 8. Budget

Please complete the budget table below.

	Project Budget				
Proj	Project serves a need of a DAC?:				
Will	you be requesting a funding match waiver?:				
		(a)	(b)	(c)	(d)
Category		Requested Grant Amount	Cost Share: Non-State Fund Source (Match)	Cost Share: Other State Fund Source	Total Cost
(a)	Direct Project Administration				
(b)	Land Purchase/Easement				
(c)	Planning/Design/Engineering/ Environmental Documentation				
	(list tasks)				
(d)	Construction/Implementation				
	(list tasks)				
(e)	Grand Total				

Briefly describe how costs were derived.

Specify cost share sources. Discuss other funding sources considered. Note: Unless your project directly benefits a disadvantaged community, you must provide a minimum 50% non-State match. (If you can provide even more than that, your project will receive more points.)

#### 9. Cost Effectiveness

Please complete the table below to demonstrate if the project is the least cost alternative.

Cost Effectiveness Analysis		
Question 1	Types of benefits provided (as shown in the Physical Benefits table above):	
O	Have alternative methods been considered to achieve the same types and amounts of physical benefits as the proposed project been identified?	
Question 2	If no, why?	
	If yes, list the methods (including the proposed project) and estimated costs.	
Question 3	If the proposed project is not the least cost alternative, why is it the preferred alternative? Provide an explanation of any accomplishments of the proposed project that are different from the alternative project or methods.	
Comments:		

#### 10. Schedule

Provide a project schedule, using the exact same categories used for the work plan and budget.

Briefly describe how the schedule is realistic, reasonable, and accomplishable based on the state of project development (such as design phase, status of permitting, and environmental documentation).

If applicable describe:

- a. How CEQA will be completed within 6 months of funding award<sup>2</sup>
- b. Status of acquisition of all necessary permits
- c. How all permits required to begin construction will be acquired within 6 months of funding award

### 11. Regional Water Self-Reliance

Does your project help improve regional water self-reliance? Does your project include one of the following: water use efficiency, water recycling, advanced water technologies, local and regional water supply project, or improved regional coordination of local and regional water supply efforts?

<sup>&</sup>lt;sup>2</sup> Projects must have all CEQA documentation complete and any permits necessary to begin construction acquired within six months of the final funding award. This requirement will not apply to projects requesting funding for pre-implementation activities benefiting DACs.

12. Statewide Priorities  Projects must be consistent with Statewide Priorities. Please check all that apply (see pp. 9-10 of the Prop 1 2016 IRWM Grant Program Guidelines Volume 1 for a full description of these priorities):
Make conservation a California way of life (building on current water conservation efforts and promoting the innovation of new systems for increased water conservation)
☐ Increase regional self-reliance and integrated water management across all levels of government
Achieve the co-equal goals for the Delta (providing a more reliable water supply for California and to protect, restore and enhance the Delta ecosystem)
Protect and restore important ecosystems
Manage and prepare for dry periods
Expand water storage capacity and improve groundwater management
Provide safe water for all communities (the right to safe, clean, affordable and accessible water adequate for human consumption, cooking, and sanitary purposes)
☐ Increase flood protection
☐ Increase operational and regulatory efficiency
13. Provide a lifecycle benefit for 15 years  Each construction project must have a lifecycle of at least 15 years. Describe the lifecycle of the project.
<b>14. Nitrate, Arsenic, Hexavalent Chromium, and/or Perchlorate Contamination (AB 1249)</b> Will the project address contamination by nitrate, arsenic, hexavalent chromium, or perchlorate?
<b>15. Benefits to Disadvantaged Communities or Native American Tribes</b> Will the project provide direct benefits to a disadvantaged community <sup>3</sup> or economically distressed area, or address environmental justice issues? Will the project address critical water issues for Native American Tribal communities? If so, please explain.
16. Human Right to Water  Does the project assist the IRWM region to address the Human Right to Water, as stated in SB 685 ("every human being has the right to safe, clean, affordable, and accessible water adequate for human consumption, cooking, and sanitary purposes")? If so, how?

 $<sup>^3</sup>$  "Disadvantaged communities" are defined as communities with annual median household incomes (MHI) that are less than 80% of the statewide MHI.

#### **SECTION IV. COMPLIANCE**

To be eligible for IRWM Implementation Grant funds, project proponents must comply with the following.

L. Adoption of IRWM Plan
Proposition 1 IRWM Program Guidelines require that each project proponent named in an IRWM Grant
application adopt the IRWM Plan. Please check if your agency/organization:
Has already adopted the IRWM Plan
Hereby commits to adopting the IRWM Plan, if the project is selected for submission in an IRWM Grant application
2. Multiple Benefits
Projects must provide multiple benefits (i.e., water quality, water supply, flood protection, environmental, o community benefits). Does your project provide multiple benefits?
No
Yes (please list):

## 3. Urban Water Management Compliance

If the project proponent meets the definition of an urban water supplier ("supplier, either publicly or privately owned, that provides water for municipal purposes, either directly or indirectly, to more than 3,000 customers or supplying more than 3,000 acre-feet of water annually"), the project proponent must meet certain requirements, including:

- DWR-approved 2015 Urban Water Management Plan
- Compliance with water use efficiency requirements (AB 1420)
- Compliance with the water metering requirements (CWC section 525)

Is your agency an urban water supplier, and if so, does it meet these requirements?

#### 4. Agricultural Water Management Compliance

If your agency/organization meets the definition of an agricultural water supplier (a water supplier, either publicly or privately owned, that provides water to 10,000 or more irrigated acres, excluding the acreage that receives recycled water; also includes a supplier or contractor for water, regardless of the basis of right, that distributes or sells water for ultimate resale to customers), you must have a DWR-approved 2015 Agricultural Water Management Plan. Is your agency/organization an agricultural water supplier, and if so, does it meet these requirements?

#### 5. Surface Water Diverter Compliance

If the project proponent is a surface water diverter, the project proponent must state whether they have submitted to the State Water Resources Control Board surface water diversion reports in compliance with requirements outlined in Part 5.1 (commencing with §5100) of Division 2 of the CWC. Is your agency/organization a surface water diverter, and if so, does it meet these requirements?

## **SECTION V. DWR'S EVALUATION QUESTIONS**

The evaluation criteria below will be used by DWR to score applications for Round 1 of the Prop 1 Implementation Grant Program. Please "self-score" your project, using the table below.

Evaluation Criteria	Score (1 - 5 points)
Does the project assist the IRWM region to address the Human Right to Water (SB 685)?	
Does the project provide two or more benefits (e.g., water supply, groundwater recharge, water quality improvement, ecosystem enhancement, etc.)?	
Does the project provide benefits to more than one IRWM region and/or Funding Area?	
Does budget indicate leveraging of other funding sources (in addition to any required cost share)?	
Does narrative provide reasonable determination on least cost alternative?	
Does the project make use of or provide for new and innovative technologies?	
Are the work plan, schedule and budget consistent with each other and appropriate to the project?	

Comments, if needed:

### **HOW TO SUBMIT YOUR APPLICATION:**

All project applications are due by **PLACEHOLDER**.

Please email your completed application to Susan Robinson at <a href="mailto:srobinsongs@frontier.com">srobinsongs@frontier.com</a>.

If you do not have email access, please mail or hand-deliver one copy of your application to:

Bridget Hoover

Monterey Bay National Marine Sanctuary 99 Pacific Street, Building 455 Monterey, CA 93940

## FOR QUESTIONS ABOUT THIS APPLICATION FORM OR THE IRWM PLANNING PROCESS:

Please visit our website or contact:

Susan Robinson
Program Director
Greater Monterey County IRWM Program
srobinsongs@frontier.com
(802) 279-4615
www.greatermontereyirwmp.org