

## VIRGINIA SALTWATER RECREATIONAL FISHING DEVELOPMENT FUND SUMMARY PROJECT APPLICATION\*

<p><b>NAME AND ADDRESS OF APPLICANT:</b></p> <p>Mike Meier Joe Grist VMRC Fisheries Management Division</p>	<p><b>PROJECT LEADER (name, phone, e-mail)</b> Co project leaders:</p> <p>Mike Meier, Artificial Reef Program Joe Grist, Plans and Statistics Department</p>						
<p><b>PRIORITY AREA OF CONCERN:</b> Virginia's Chesapeake Bay and Atlantic coastal waters.</p>	<p><b>PROJECT LOCATION:</b> VMRC permitted artificial reef sites.</p>						
<p><b>DESCRIPTIVE TITLE OF PROJECT:</b> Reef Monitoring Equipment Support for VMRC's Fisheries Management Division.</p>							
<p><b>PROJECT SUMMARY (Updated 8/23/2007):</b></p> <p>\$42,964 was originally requested to cover the cost of purchasing fish traps and related accessories, fishing equipment, storage equipment and supplies, and an underwater video system. These supplies and equipment would be used in a joint effort between the Artificial Reef Program and the Plans and Statistics Dept. to develop a pilot in-house monitoring program.</p> <p>The fishing gear and traps would be used to systematically sample reef fish populations on the reefs and the video system to attempt to visually assess fish populations and monitor the condition of reef materials. Our initial goal would be to conduct sampling activities using two agency vessels at frequency of 16 - 32 days per year on two reef sites. Our sampling protocol would be developed prior to starting work in March or April of '08, continuing through October.</p> <p>Further research of available video monitoring systems, and accessories, have been conducted by VMRC staff. Staff recognized that any system must meet the goals of the proposed monitoring project, as well as be able to operate within the different and variable water conditions at each of VMRC's twenty-two artificial reefs. Staff has determined that a dual system, utilizing both live video and imaging sonar on a remote-operated vehicle, with the capability to operate in currents up to 4 knots, would allow for a more thorough visual assessment of our reef complexes by staff. However, this would double the proposed costs for a video-monitoring system, from the proposed \$30,000 one-time cost, to a \$60,000 one-time cost.</p>							
<p><b>EXPECTED BENEFITS:</b></p> <p>The Artificial Reef Program has conducted no consistent monitoring activity during the course of its 32-year history. Monitoring in this context refers to assessing fish populations and investigating development of fouling organisms on reef structure. The UW/ video and sonar imaging system would augment in-house grid-based sonar equipment (provided by earlier RFAB funding) by providing visual records in addition to sonar imaging. Currently, VMRC is dependent on outside contractors to conduct visual inspections of reef sites, inspections which are, at times, not timely nor cost effective to the program's needs.</p> <p>Information generated would provide a better picture than we now have as to the role the reefs are playing in terms of providing habitat for finfish and benthic communities in general. The primary goal of this project would be the development of an on-going, reasonably comprehensive monitoring program. The direct sampling portion of the project could be continued either with VMRC staff, or turned over to outside expertise, such as research universities, once workable protocols were established. The video and imaging work for each reef complex, once completed, would be made available to the public.</p>							
<p><b>COSTS:</b> Please see the attached sheet of "Project Items".</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;"><b>VMRC Funding:</b></td> <td style="text-align: right;"><b>\$72,964.00</b></td> </tr> <tr> <td><b>Recipient Funding:</b></td> <td></td> </tr> <tr> <td><b>Total Costs:</b></td> <td style="text-align: right;"><b>\$72,964.00</b></td> </tr> </table> <p><b>Detailed budget must be included with proposal.</b></p>		<b>VMRC Funding:</b>	<b>\$72,964.00</b>	<b>Recipient Funding:</b>		<b>Total Costs:</b>	<b>\$72,964.00</b>
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Updated 6/1/05

\*This form alone does not constitute a complete application, see application instructions or contact Sonya Davis at 757-247-8155 or [sonya.davis@mrc.virginia.gov](mailto:sonya.davis@mrc.virginia.gov) : Due dates are June 15 (Jul. - Nov. Cycle) and December 15 (Jan. - May Cycle)

**REEF MONITORING EQUIPMENT SUPPORT FOR THE VMRC FISHERIES MANAGEMENT DIVISION**

<b>PROJECT ITEMS</b>	<b>AMOUNT</b>	<b>QUANTITY</b>	<b>UNIT</b>	<b>TOTAL AMOUNT</b>
<b>Fish Sampling</b>				
Boat (12 hours per day, 6 gallons per hour)	\$ 252.00	32	Fuel/Day	\$ 8,064.00
Fish Traps and Trap Accessories	\$ 250.00	6	Traps	\$ 1,500.00
Fishing Rods	\$ 100.00	12	Rods	\$ 1,200.00
Fishing Rigs and Bait per Rod	\$ 100.00	12	Gear/Bait	\$ 1,200.00
Fish Storage Equipment and Supplies	\$ 1,000.00			\$ 1,000.00
<b>Video Monitoring</b>				
Underwater video and imaging sonar system for visual reef monitoring and production (one-time cost).	\$ 60,000.00			\$ 60,000.00
			<b>TOTAL</b>	<b>\$ 72,964.00</b>

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Fish Storage Equipment and Supplies	\$ 1,000.00			\$ 1,000.00
<b>Video Monitoring</b>				
Underwater Video System for fish production estimation	\$ 30,000.00			\$ 30,000.00
			<b>TOTAL</b>	<b>\$ 42,964.00</b>