

**Environment and Natural Resources Trust Fund (ENRTF)  
2010 Work Program**

**Date of Report:** June 7, 2010  
**Date of Next Progress Report:**  
**Date of Work Program Approval:**  
**Project Completion Date:** June 30, 2012

**I. PROJECT TITLE:** State Park Improvements

**Project Manager:** Larry Peterson  
**Affiliation:** Department of Natural Resources, Division of Parks and Trails  
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**Location:**

<b>Total ENRTF Project Budget:</b>	<b>ENRTF Appropriation</b>	<b>\$ 814,000</b>
	<b>Minus Amount Spent:</b>	<b>\$ -0-</b>
	<b>Equal Balance:</b>	<b>\$814,000</b>

**Legal Citation:** ML 2010, Chap. 362, Sec. 2, Subd. 4c.

**Appropriation Language:**

\$567,000 is from the trust fund to the commissioner of natural resources for state park capital improvements and natural resource restoration. Of this amount, \$250,000 is for solar energy installations in state parks and the remaining amount shall be used for park and campground restoration and improvements. Priority shall be for projects that address existing threats to public water resources. On July 1, 2010, the unobligated balance, estimated to be \$200,000, of the appropriation for clean energy resource teams and community wind energy rebates in Laws 2005, First Special Session chapter 1, article 2, section 11, subdivision 10, paragraph (a), as amended by Laws 2006, chapter 243, section 15, and extended by Laws 2009, chapter 143, section 2, subdivision 16, is transferred and added to this appropriation. On July 1, 2010, the \$47,000 appropriated in Laws 2009, chapter 143, section 2, subdivision 6, paragraph (f), for native plant biodiversity, invasive plant species, and invertebrates is transferred and added to this appropriation.

**II. PROJECT SUMMARY AND RESULTS:**

This project will focus on energy efficiency improvements, water quality enhancement, and attracting new users at Minnesota state parks and recreation areas. The project includes installation of photovoltaic solar generation facilities, solar-powered water supplies, and small rustic camper cabins at a number of state parks and state recreation areas. It also includes a major rehabilitation of the stormwater management system at St. Croix State Park Visitor Center and repair of an eroding river bank area.

**III. PROGRESS SUMMARY AS OF:**

**IV. OUTLINE OF PROJECT RESULTS:**

**RESULT/ACTIVITY 1:** Install PV solar power generation equipment at Soudan Underground Mine, Split Rock Lighthouse, and Tettegouche state parks.

**Description:** This budget will allow for the installation of approximately 25KW of pole-mounted photovoltaic generating equipment. These installations will be completed along with larger building construction projects at these sites funded by bonding appropriations.

<b>Summary Budget Information for Result 1:</b>	<b>ENRTF Budget:</b>	<b>\$200,000</b>
	<b>Amount Spent:</b>	<b>\$ -0-</b>
	<b>Balance:</b>	<b>\$200,000</b>

<b>Deliverable/Outcome</b>	<b>Completion Date</b>	<b>Budget</b>
<b>1. Design installations</b>	June 1, 2011	\$25,000
<b>2. Award bids for construction</b>	August 1, 2011	\$175,000
<b>3. Complete installation</b>	June 30, 2012	

**Result Completion Date:** June 30, 2012

**Result Status as of December 30, 2010:**

**Result Status as of June 30, 2011:**

**Result Status as of December 30, 2011:**

**Final Report Summary June 30, 2012:**

**RESULT/ACTIVITY 2:** Installation of solar wells at four state park and recreation area locations

**Description:** A number of remote sites in state parks and state recreation areas will benefit from having a pressurized water source available using a solar-powered pump and battery system. These would be used in rustic camping areas and day use areas for personal water supply, not for building water supplies. In some cases this will

convert an existing hand pump system, allowing for easier use by disabled and older users. Location priorities are currently being evaluated, and will be prioritized based on proximity of existing power and distance from other water sources.

**Summary Budget Information for Result 2:** ENRTF Budget: **\$100,000**  
 Amount Spent: **\$ -0-**  
 Balance: **\$100,000**

<b>Deliverable/Outcome</b>	<b>Completion Date</b>	<b>Budget</b>
<b>1. Design water supply installations</b>	May 1, 2011	\$5,000
<b>2. Design solar arrays for wells</b>	May 1, 2011	\$5,000
<b>3. Award bids- well construction</b>	June 30, 2011	\$45,000
<b>4. Award bids – solar arrays</b>	June 30, 2011	\$45,000
<b>3. Complete Installations</b>	June 30, 2012	

**Result Completion Date:** June 30, 2012

**Result Status as of December 30, 2010:**

**Result Status as of June 30, 2011:**

**Result Status as of December 30, 2011:**

**Final Report Summary June 30, 2012:**

**RESULT/ACTIVITY 3:** Rehabilitate stormwater collection and storage systems at St. Croix Lodge Visitor Center, St. Croix State Park, and repair and stabilize bank erosion.

**Description:** This allocation will be used to rehabilitate the stormwater management systems at the historic St. Croix Lodge, constructed by the CCC in the 1930's. Stormwater treatment and storage facilities will be added, and a major bank erosion will be stabilized and revegetated. Installation of stormwater facilities will involve regrading and repaving a twenty car parking area and restoring historic features such as granite curbing. Natural treatment systems such as rain gardens and grassy swales will be utilized where feasible.

**Summary Budget Information for Result 3:** ENRTF Budget: **\$264,000**  
 Amount Spent: **\$ -0-**  
 Balance: **\$264,000**

<b>Deliverable/Outcome</b>	<b>Completion Date</b>	<b>Budget</b>
<b>1. Complete topography survey and design</b>	May 1, 2011	\$34,000
<b>2. Award bid for construction</b>	June 30, 2011	\$230,000
<b>3. Complete construction</b>	June 30, 2012	

**Result Completion Date:** June 30, 2012

**Result Status as of December 30, 2010:**

**Result Status as of June 30, 2011:**

**Result Status as of December 30, 2011:**

**Final Report Summary June 30, 2012:**

**RESULT/ACTIVITY 4:** Construct 4 camper cabins at two state park locations

**Description:** This allocation would fund the on-site construction of 4 camper cabins at 2 state park locations (2 cabins each location). Priority locations being evaluated are: Lake Bemidji, Forestville, Sakatah Lake, Savannah Portage, Itasca, Split Rock Lighthouse, and Tettegouche state parks. Final selection will depend on resource and archaeological reviews. Cabins will be open year-round and will be well-insulated to exceed the energy code by 30% and will exceed Minnesota Sustainable Design Guidelines (B3). Photovoltaic generating panels will be installed where the site conditions allow. FRC sustainably grown lumber will be used. Budgets include installation of water supply, parking, and vault toilets.

**Summary Budget Information for Result 4:**

<b>ENRTF Budget:</b>	<b>\$250,000</b>
<b>Amount Spent:</b>	<b>\$ -0-</b>
<b>Balance:</b>	<b>\$250,000</b>

<b>Deliverable/Outcome</b>	<b>Completion Date</b>	<b>Budget</b>
<b>1. Design installations</b>	May 1, 2011	\$20,000
<b>2. Award Bids for Construction</b>	June 30, 2011	\$230,000
<b>3. Complete installations</b>	June 30, 2012	

**Result Completion Date:** June 30, 2012

**Result Status as of December 30, 2010:**

**Result Status as of June 30, 2011:**

**Result Status as of December 30, 2011:**

**Final Report Summary June 30, 2012:**

**V. TOTAL ENRTF PROJECT BUDGET: \$814,000**

**Personnel:**

**Contracts:** \$ 814,000 (includes approximately \$89,000 in professional engineering and architectural services)

**Equipment/Tools/Supplies:** \$ -0-  
**Acquisition (Fee Title or Permanent Easements):**  
**Travel:** \$ -0-  
**Additional Budget Items:** \$ -0-

**TOTAL ENRTF PROJECT BUDGET: \$814,000**

**Explanation of Capital Expenditures Greater Than \$3,500:** Capital expenditures will be made on state park property and will be continuously open to the public.

## **VI. PROJECT STRATEGY:**

**A. Project Partners:** N/A

**B. Project Impact and Long-term Strategy:** These expenditures are consistent with strategic directions in the DNR Conservation Agenda, particularly “Connecting people to the Great Outdoors”, “Energy Efficiency”, and “Water Protection and Planning”.

**C. Other Funds Proposed to be Spent during the Project Period:** Bonding 2008 and 2010, Legacy funding

**D. Spending History:** 10 camper cabins constructed in the past biennium with Bonding 2006-2008 funds (approximately \$500,000).

**VII. DISSEMINATION:** No projected news releases at this time.

**VIII. REPORTING REQUIREMENTS:** Periodic work program progress reports will be submitted not later than December 30, 2010, June 30, 2011, and December 30, 2011. A final work program report and associated products will be submitted between June 30 and August 1, 2012 as requested by the LCCMR.

**IX. RESEARCH PROJECTS:**

Attachment A: Budget Detail for 2010 Projects - Summary and a Budget page for each partner (if applicable)														
Project Title: <i>State Park Improvements</i>														
Project Manager Name: <i>Larry Peterson</i>														
Trust Fund Appropriation: \$ 814,000														
1) See list of non-eligible expenses, do not include any of these items in your budget sheet														
2) Remove any budget item lines not applicable														
2010 Trust Fund Budget	Result 1 Budget:	Amount Spent (date)	Balance 6/07/10	Result 2 Budget:	Amount Spent (date)	Balance 6/07/10	Result 3 Budget:	Amount Spent (date)	Balance 6/07/10	Result 4 Budget:	Amount Spent (date)	Balance 6/07/10	TOTAL BUDGET	TOTAL BALANCE
BUDGET ITEM	PV Solar Installations			Solar Wells			St. Croix Storwater Mgmt and Erosion			Camper Cabin Installation				
Contracts (Includes Professional Architectural and Engineering Services)	200,000			100,000			264,000			250,000				
<b>COLUMN TOTAL</b>	<b>\$200,000</b>	<b>\$0</b>	<b>\$200,000</b>	<b>\$100,000</b>	<b>\$0</b>	<b>\$100,000</b>	<b>\$264,000</b>	<b>\$0</b>	<b>\$264,000</b>	<b>\$250,000</b>	<b>\$0</b>	<b>\$250,000</b>	<b>\$814,000</b>	<b>\$814,000</b>