

Wisconsin Department of Natural Resources SWIMS Project Summary

General Project Information

Project ID: LPL-1474-12
Name: POLK COUNTY LWRD: Apple River Flowage Water Quality & Biological Assessment
Type: Lakes Grant
Subtype: Large Scale Lake Planning
Status: COMPLETE
Start Date: 04/01/2012
End Date: 12/31/2013
Purpose: Polk County is sponsoring a project to assess watershed, water quality, plankton, algae, and shoreline conditions; determine nutrient loads, budget, and model lake response; distribute and analyze a sociological survey; educate public through pontoon classroom and shoreline restoration workshop; develop a lake management plan including public participation/meetings.

Specific project tasks include: 1. Expanded bimonthly water quality monitoring including spring and fall overturn; 2. Lake sediment sampling; 3. Tributary water quality and flow monitoring; 4. Daily lake level and precipitation monitoring; 5. Plankton and algae assessment; 6. Shoreline assessment and restoration workshop; 7. Watershed delineation and modeling; 8. Sociological survey; 9. Pontoon classroom; 10. Lake management plan development including public participation/meeting.

Final deliverables include examples of education materials developed; agenda or attendance lists for workshops, planning meetings, and education events; and a single lake management plan that includes methodologies, results, and management alternatives discussion with an implementation plan that is approvable for Lake Protection Grant eligibility.

Special conditions: 1. CLMN efforts shall not be duplicated, and these data shall included in the trends analysis and final reporting; 2. Draft sociological/user surveys must be reviewed and approved by the Department before being initiated; 3. Shoreline inventory methods must be approved by the Department before being initiated.

This scope summarizes the project detail provided in the application and does not negate tasks/deliverables described therein. Data, records, and reports, including GIS-based maps, and digital images, must be submitted to the Department in a format specified by the regional Lake Coordinator.

Objective:

Comments: Grantee is POLK COUNTY LWRD

Outcome:

Study Design:

QA Measures:

People

Name	Role	Status	Start Date	End Date	Organization	Comments
Anderson, Katelin	TEAM_MEMBER	COMPLETE	04/01/2012	12/31/2013	Polk County	
Polk County Land and Water	GRANT_RECIPII	COMPLETE	04/01/2012	12/31/2013	Polk County Land and Water Resources Dept.	
Williamson, Jeremy	TEAM_MEMBER	COMPLETE	04/01/2012	12/31/2013	Polk County	

Project Statuses

Date	Reported By	Status	Comments
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Actions

Action	Detailed Description	Start	End Date	Status
Aquatic Plant Monitoring or Survey		04/01/2012	12/31/2013	PROPOSED
Informational Meetings		04/01/2012	12/31/2013	PROPOSED
Monitor Water Level		04/01/2012	12/31/2013	PROPOSED
Lakes Planning Grant		04/01/2012	12/31/2013	PROPOSED

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Action	Detailed Description	Start	End Date	Status
Shoreland Monitoring, Assessment, Inventory Hold Workshops	Shoreland Monitoring, Assessment or Inventory	04/01/2012	12/31/2013	PROPOSED
Watershed Mapping or Assessment		04/01/2012	12/31/2013	PROPOSED
Social Survey of Residents or Users		04/01/2012	12/31/2013	PROPOSED
Monitor Water Quality or Sediment		04/01/2012	12/31/2013	PROPOSED
Lake Management Plan Development		04/01/2012	12/31/2013	PROPOSED
Grant Awarded	Polk County is sponsoring a project to assess watershed, water quality, plankton, algae, and shoreline conditions; determine nutrient loads, budget, and model lake response; distribute and analyze a sociological survey; educate public through pontoon classroom and shoreline restoration workshop; develop a lake management plan including public participation/meetings. Specific project tasks include: 1. Expanded bimonthly water quality monitoring including spring and fall overturn; 2. Lake sediment sampling; 3. Tributary water quality and flow monitoring; 4. Daily lake level and precipitation monitoring; 5. Plankton and algae assessment; 6. Shoreline assessment and restoration workshop; 7. Watershed delineation and modeling; 8. Sociological survey; 9. Pontoon classroom; 10. Lake management plan development including public participation/meeting.	04/01/2012	06/30/2013	COMPLETE

Monitoring Stations

Station ID	Name	Comments
493104	Apple River Flowage - Deep Hole	
10039632	Apple River Flowage - South Site 2	
10039621	Apple River Flowage North Site 1	
10034723	Apple River at Bridge St	
10016437	Apple River ~75 M DS of 125th Ave	
10000130	Beaver Brook - 85th St	
10013486	Beaver Brook South Branch at Cty. D	
10037609	Fox Creek at 165th Ave	
10013487	North Branch Beaver Brook at Cty. D	

Assessment Units

WBIC	Segment	Local Name	Official Name
2614000	4	Apple River	Apple River
2614000	13	Apple River	Apple River
2624200	1	Apple River Flowage	Apple River Flowage
2624300	1	Beaver Brook	Beaver Brook
2624400	1	South Branch Beaver Brook	South Branch Beaver Brook
2625500	1	North Branch Beaver Brook	North Branch Beaver Brook
2626100	1	Burns Creek	Burns Creek
2626800	1	Fox Creek	Fox Creek

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Lab Account Codes

Account Code	Description	Start Date	End Date
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Forms

Form Code	Form Name
SECCHI_TEMPDO_PLI	Lake Monitoring - Secchi, Temp., D.O., pH, Conductivity

Methods

Method Code	Description
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Fieldwork Events

Start Date	Status	Field ID	Station ID	Station Name
04/03/2012	COMPLETE		10039621	Apple River Flowage North Site 1
04/03/2012	COMPLETE		10039621	Apple River Flowage North Site 1
04/03/2012	COMPLETE		10039632	Apple River Flowage - South Site 2
04/03/2012	COMPLETE		10039632	Apple River Flowage - South Site 2
05/08/2012	COMPLETE		10039632	Apple River Flowage - South Site 2
05/08/2012	COMPLETE		10013486	Beaver Brook South Branch at Cty. D
05/08/2012	COMPLETE		10039621	Apple River Flowage North Site 1
05/08/2012	COMPLETE		10013487	North Branch Beaver Brook at Cty. D
05/08/2012	COMPLETE		10039621	Apple River Flowage North Site 1
05/08/2012	COMPLETE		10039632	Apple River Flowage - South Site 2
05/08/2012	COMPLETE		10037609	Fox Creek at 165th Ave
05/08/2012	COMPLETE		10016437	Apple River ~75 M DS of 125th Ave
05/08/2012	COMPLETE		10034723	Apple River at Bridge St
05/08/2012	COMPLETE		10000130	Beaver Brook - 85th St
05/22/2012	COMPLETE		10039621	Apple River Flowage North Site 1
05/22/2012	COMPLETE		10039632	Apple River Flowage - South Site 2
06/05/2012	COMPLETE		10039621	Apple River Flowage North Site 1
06/05/2012	COMPLETE		10039632	Apple River Flowage - South Site 2
06/05/2012	COMPLETE		10037609	Fox Creek at 165th Ave
06/05/2012	COMPLETE		10016437	Apple River ~75 M DS of 125th Ave
06/05/2012	COMPLETE		10034723	Apple River at Bridge St
06/05/2012	COMPLETE		10000130	Beaver Brook - 85th St
06/05/2012	COMPLETE		10013487	North Branch Beaver Brook at Cty. D
06/05/2012	COMPLETE		10013486	Beaver Brook South Branch at Cty. D
06/05/2012	COMPLETE		10039621	Apple River Flowage North Site 1
06/05/2012	COMPLETE		10039632	Apple River Flowage - South Site 2
06/19/2012	COMPLETE		10039621	Apple River Flowage North Site 1
06/19/2012	COMPLETE		10039632	Apple River Flowage - South Site 2
07/11/2012	COMPLETE		10039621	Apple River Flowage North Site 1
07/11/2012	COMPLETE		10039632	Apple River Flowage - South Site 2
07/11/2012	COMPLETE		10039621	Apple River Flowage North Site 1
07/11/2012	COMPLETE		10013487	North Branch Beaver Brook at Cty. D
07/11/2012	COMPLETE		10013486	Beaver Brook South Branch at Cty. D
07/11/2012	COMPLETE		10000130	Beaver Brook - 85th St
07/11/2012	COMPLETE		10034723	Apple River at Bridge St
07/11/2012	COMPLETE		10016437	Apple River ~75 M DS of 125th Ave
07/11/2012	COMPLETE		10037609	Fox Creek at 165th Ave

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Start Date	Status	Field ID	Station ID	Station Name
07/11/2012	COMPLETE		10039632	Apple River Flowage - South Site 2
07/24/2012	COMPLETE		10039621	Apple River Flowage North Site 1
07/24/2012	COMPLETE		10039632	Apple River Flowage - South Site 2
08/06/2012	COMPLETE		10037609	Fox Creek at 165th Ave
08/06/2012	COMPLETE		10013487	North Branch Beaver Brook at Cty. D
08/06/2012	COMPLETE		10000130	Beaver Brook - 85th St
08/06/2012	COMPLETE		10034723	Apple River at Bridge St
08/06/2012	COMPLETE		10016437	Apple River ~75 M DS of 125th Ave
08/06/2012	COMPLETE		10039621	Apple River Flowage North Site 1
08/06/2012	COMPLETE		10039632	Apple River Flowage - South Site 2
08/06/2012	COMPLETE		10013486	Beaver Brook South Branch at Cty. D
08/07/2012	COMPLETE		10039621	Apple River Flowage North Site 1
08/07/2012	COMPLETE		10039632	Apple River Flowage - South Site 2
08/22/2012	COMPLETE		10039632	Apple River Flowage - South Site 2
08/22/2012	COMPLETE		10039621	Apple River Flowage North Site 1
09/06/2012	COMPLETE		10013486	Beaver Brook South Branch at Cty. D
09/06/2012	COMPLETE		10000130	Beaver Brook - 85th St
09/06/2012	COMPLETE		10034723	Apple River at Bridge St
09/06/2012	COMPLETE		10016437	Apple River ~75 M DS of 125th Ave
09/06/2012	COMPLETE		10039632	Apple River Flowage - South Site 2
09/06/2012	COMPLETE		10039621	Apple River Flowage North Site 1
09/06/2012	COMPLETE		10013487	North Branch Beaver Brook at Cty. D
09/06/2012	COMPLETE		10039621	Apple River Flowage North Site 1
09/06/2012	COMPLETE		10037609	Fox Creek at 165th Ave
09/06/2012	COMPLETE		10039632	Apple River Flowage - South Site 2
09/17/2012	COMPLETE		10039621	Apple River Flowage North Site 1
09/17/2012	COMPLETE		10039632	Apple River Flowage - South Site 2
10/15/2012	COMPLETE		10039621	Apple River Flowage North Site 1
10/15/2012	COMPLETE		10039621	Apple River Flowage North Site 1
10/15/2012	COMPLETE		10039632	Apple River Flowage - South Site 2
10/15/2012	COMPLETE		10039632	Apple River Flowage - South Site 2

Documents

Title	Description	Author	Published	Comments
Apple River Flowage Grant Application		Apple River Flowage Protection and Rehabilitation District	04/16/2012	
Apple River Flowage Lake Management Plan	Apple River Flowage Lake Management Plan developed by the Polk County Land and Water Resources Department. Includes summaries of monitoring, a lake resident survey, land use, shoreline conditions, nutrient loading, and education/outreach activities.	Polk County Land and Water Resources Department	11/01/2013	

Budget

Combined Budgets:

Combined SLOH:

Combined Total:

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Funding

Organization	Source	Type	Amount	Start Date	End Date
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