



Environment and Natural Resources Trust Fund (ENRTF) M.L. 2014 Work Plan

Date of Report: May 15, 2014
Date of Next Status Update Report: November 15, 2014
Date of Work Plan Approval:
Project Completion Date: June 30, 2017
Does this submission include an amendment request? __

PROJECT TITLE: Scientific and Natural Area Acquisition, Restoration, Improvement and Citizen Engagement

Project Manager: Margaret (Peggy) Booth
Organization: Minnesota Department of Natural Resources, Division of Ecological & Water Resources
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Location: statewide

| | | |
|------------------------------------|-----------------------------|--------------------|
| Total ENRTF Project Budget: | ENRTF Appropriation: | \$2,540,000 |
| | Amount Spent: | \$0 |
| | Balance: | \$2,540,000 |

Legal Citation: M.L. 2014, Chp. 226, Sec. 2, Subd. 07a

Appropriation Language:

\$2,540,000 the second year is from the trust fund to the commissioner of natural resources to acquire lands with high-quality native plant communities and rare features to be established as scientific and natural areas as provided in Minnesota Statutes, section 86A.05, subdivision 5, restore and improve parts of scientific and natural areas, and provide technical assistance and outreach. A list of proposed acquisitions must be provided as part of the required work program. Land acquired with this appropriation must be sufficiently improved to meet at least minimum management standards, as determined by the commissioner of natural resources. This appropriation is available until June 30, 2017, by which time the project must be completed and final products delivered.

I. PROJECT TITLE: SNA Acquisition, Restoration, Improvement & Citizen Engagement

II. PROJECT STATEMENT:

Sites of biodiversity significance identified by the Minnesota Biological Survey (MBS) and the new SNA Strategic Plan will be permanently protected as state Scientific and Natural Areas (SNAs), their quality improved, and public support for and involvement in their conservation will be increased by a suite of tools through the DNR SNA Program. About 240 acres of at risk, high quality native plant communities and wildlife habitat of state significance would be acquired and designated as SNAs. Native habitat restoration and site improvement activities would be implemented on about 700 acres of SNAs threatened by human impacts, invasives, and lack of natural disturbance regimes. Furthermore, to address gaps in support for SNAs and to increase citizen and student knowledge and skills about biodiversity conservation, the SNA outreach initiative would achieve about 50 naturalist-led events and sustain a network of SNA site stewards at about 110 SNAs. In addition, new or refined electronic/social media communications tools (including SNA website and e-guidebook improvements) will be developed and disseminated to increase and enhance recreationist's use of SNAs and effectiveness of site steward recruitment and retention, expansion of participation in SNA events, and other SNA outreach tools will be evaluated.

III. PROJECT STATUS UPDATES:

Project Status as of November 15, 2014:

Project Status as of March 15, 2015:

Project Status as of September 15, 2015:

Project Status as of March 15, 2016:

Project Status as of September 15, 2016:

Project Status as of March 15, 2017:

Overall Project Outcomes and Results:

IV. PROJECT ACTIVITIES AND OUTCOMES:

ACTIVITY 1: Protection of Sites of Biodiversity Significance

Description:

The SNA Program will protect and buffer MBS-recommended sites of biodiversity significance by acquisition and SNA designation of ~240 acres. Proactive landowner contacts will be targeted at 8 high priority Conservation Opportunity Areas identified in the *SNA Strategic Land Protection Plan* (initiated through the ENRTF ML2011 appropriation), including prairie core areas in the *Minnesota Prairie Conservation Plan*, in order to cultivate landowner interest in permanent natural resource protection and SNA designation. The attached ML 2014 Acquisition/Restoration List and ML14 SNA Acquisition map series identify priority project areas for this appropriation. The DNR may request to add other qualifying sites to the list with additional MBS recommendations and changes in landowner interest, acquisition opportunity, or threats. Most acquisition will be of fee title, but if more appropriate for ongoing management and use, acquisition will be of a SNA-administered conservation easement with SNA designation.

To be acquired and designated as SNA, the site must be recommended for SNA designation in an Ecological Evaluation report which serves as the site's baseline assessment for fee acquisitions. All such sites are predominantly MBS-mapped native plant communities and contain habitat for rare species and Species of Greatest Conservation Need. In addition, SNA staff use the "*SNA Candidate Site Evaluation Guide*" (developed through the ENRTF-funded SNA strategic planning process) which incorporates criteria to rate which sites are currently pursued. Criteria include diversity and quality of the native habitat, occurrence of rare species, occurrence of native plant communities under-represented in SNA system, parcel size, location of parcel in relation to biodiversity hotspots (particularly MBS-mapped areas of outstanding and high biodiversity significance) and other conservation lands (including *SNA Strategic Land Protection Plan's* Conservation Opportunity Areas and *Minnesota Prairie Conservation Plan's* Core Areas), potential for long-term management, and additional factors (e.g. landowner readiness, urgency, and willingness to donate; degree of threat, and partnership opportunities),

Conservation easement monitoring will be done on about 9 SNA-held conservation easements. The SNA Program manages 20 conservation easements (protecting over 1510 acres within or adjoining 12 SNAs); the goal of the SNA program is to monitor each easement every 2-3 years, so through this appropriation at least 9 easements would receive a formal on-site monitoring visit with results entered into the department land records, landowners contacted, management opportunities identified, and follow-up visits conducted if needed to address issues discovered.

The SNA Strategic Plan (initiated through the ML2011 ENRTF appropriation) will continue to be updated to incorporate new MBS and other resource data into the GIS-based decision support tool software and will conduct additional scientific analysis and review to refine priorities and increase coordinated rare resource protection with partners and to implement State Wildlife Action Plan (SWAP).

About 15 biodiversity significance sites will gain additional protection and ecological-based natural resource management through establishment of Natural Area Registry (NAR) agreements overseen by the SNA Program. This will allow the Division of Ecological and Water Resources (EWR) staff to negotiate and reach agreements on SNA-like protection to be added to lands owned and managed by other public entities, such as the DNR Division of Forestry and counties who might otherwise utilize traditional timber harvest practices. Through the NAR, the primary land administrator and EWR/SNA Program enter into a NAR memorandum of understanding to manage the site to SNA standards and in coordination with EWR/SNA staff. The status of NAR agreements is confirmed by the SNA Program every 1-2 years.

Summary Budget Information for Activity 1:

ENRTF Budget: \$ 1,294,420
Amount Spent: \$ 0
Balance: \$ 1,294,420

Activity Completion Date: June 30, 2017

| Outcome | Completion Date | Budget |
|---|-----------------|--------------|
| 1a. acquisition as SNA of ~240 acres of high quality habitat | 6/30/17 | \$ 1,115,400 |
| 1b. proactive landowner contact in 8 priority areas for protection | 6/30/16 | \$ 44,410 |
| 1c. monitoring for ~9 SNA conservation easements | 6/30/17 | \$ 6,680 |
| 1d. SNA/rare resource protection strategic prioritization – Phase 3 | 6/30/16 | \$ 29,750 |
| 1e. 15 Natural Area Registry agreements on biodiversity significant sites | 6/30/16 | \$ 98,130 |

Note: budget for this Activity includes \$29,200 for direct & necessary services which are prorated across all costs which are prorated across all costs except budgets for landowner payments; no direct & necessary charges are budgeted for the \$1.0M in landowner payments; actual charges will be based on actual expenditures.

Activity Status as of November 15, 2014:

Activity Status as of March 15, 2015:

Activity Status as of September 15, 2015:

Activity Status as of March 15, 2016:

Project Status as of September 15, 2016:

Project Status as of March 15, 2017:

Final Report Summary:

ACTIVITY 2: Native Habitat Restoration & Improvements

Description:

Native habitat restoration and site improvement activities will be completed on about 700 acres at ~25 state designated SNAs. Interpretive signs-kiosks will be developed and installed at ~5 SNAs. SNA staff will provide ecological/technical oversight and coordination for ~6 restoration or enhancement projects implemented on SNAs by partner organizations. Adaptive Management Plans will be completed for ~9 SNAs (including sites acquired through these funds).

Restoration projects will be based upon ecological restoration and management plans and/or project plans with goals for reconstructing plant communities that are native to the site based upon soils, topography, geology, and other factors necessary to sustain the plant community. Each plan includes an implementation timetable which summarizes ongoing management needs and funding. Long-term management costs (e.g. invasives treatments, prescribed fire, and monitoring/evaluation) will be covered by a combination funding sources, including, but not limited to, ENRTF, Outdoor Heritage Fund (OHF), federal grants, and other funds as appropriated. Restoration projects will be evaluated in terms of project goals and to ascertain how well the native plants have been established and non-natives controlled.

Management practices at ~12 SNAs will be monitored to identify adaptive management process improvements needed to achieve better habitat for rare species and Species of Greatest Conservation Need (SGCN). In order to facilitate long term ecological and site management monitoring and more robust and accurate accomplishment reporting, the Adaptive Management Spatial Database (AMSD) was launched with ENRTF support. Through this appropriation, another Phase of improving AMSD will be implemented to link adaptive management plans, project planning, accomplishment reporting, and monitoring. This will foster adaptive management and continuous process improvements by integrating the most current ecological and technical information with dynamic management/project plans, implementation, and monitoring.

Practices to be done under Activity 2 of this appropriation will be carried out by DNR staff-SNA crews, Conservation Corps Minnesota (CCM), Sentence to Service (STS), volunteers, and/or contractors. Practices may include seed collection, planting, invasive species control, woody encroachment removal, site clean-up, signing development and installation of interpretive kiosks, fencing (removal or installation as needed for management purposes), unpaved parking areas, visitor access-safety improvements (and associated measures to protect native habitat), prescribed burns (or alternative prescribed disturbance for ecological management purposes, such as prescribed haying, mowing, browsing, or grazing, necessary for sites or conditions where use of fire is limited), management plan preparation, monitoring, and coordination-oversight of projects implemented by partners. All restoration will use seeds/plants of a local ecotype, collected from onsite or within 25 miles. Restoration and improvements of degraded and rare land features (particularly native prairie, savanna, and forest) help implement the SWAP and achieve Habitat Recommendation 5 of the SSCP. This activity and its

funding will include work needed to bring up to the Department's minimum standards those SNA parcels acquired through this funding and will include those restoration and improvements of newly acquired sites which are ecologically advisable and feasible within the appropriation period. The attached ML 2014 Acquisition/Restoration List and ML14 SNA Restoration map series identify priority sites for SNA restoration projects (plant community reconstruction) for this appropriation.

Summary Budget Information for Activity 2:

ENRTF Budget: \$ 794,730

Amount Spent: \$ 0

Balance: \$ 794,730

Activity Completion Date: June 30, 2017

| Outcome | Completion Date | Budget |
|---|------------------------|---------------|
| 2a. ~20 acres of restoration of forest, prairie, & outcrop sites | 6/30/17 | \$ 33,300 |
| 2b. ~260 acres of woody removal & invasives species treatment | 6/30/16 | \$ 297,550 |
| 2c. ~490 acres of prescribed burns (or prescribed haying, mowing, browsing, or grazing) | 6/30/17 | \$ 95,360 |
| 2d. ~5 SNA interpretive kiosks developed/installed (~\$20K) AND development work (e.g. site clean-up, signs, fencing, unpaved parking, & visitor access-safety) at 20+ sites (~\$131K) | 6/30/17 | \$ 166,600 |
| 2e. ecological/technical oversight & coordination of 6 partner projects (restoration, enhancement, &/or development projects on SNAs led by non-DNR entities) | 6/30/16 | \$ 24,420 |
| 2f. management plans completed for ~9 SNAs | 6/30/16 | \$ 82,700 |
| 2g. adaptive management monitoring on ~12 SNA sites & AMSD database improvements | 6/30/17 | \$ 94,800 |

Note: total budget for this Activity includes \$72,870 for direct & necessary services which are prorated across all costs except budgets for CCM contracts; no direct & necessary charges are budgeted for the \$60K in CCM contracts; actual charges will be based on actual expenditures.

Activity Status as of November 15, 2014:

Activity Status as of March 15, 2015:

Activity Status as of September 15, 2015:

Activity Status as of March 15, 2016:

Project Status as of September 15, 2016:

Project Status as of March 15, 2017:

Final Report Summary:

ACTIVITY 3: Public Engagement in Natural Areas

Description:

The third phase of the SNA Outreach Initiative will engage residents, students, and other interested people in ecological recreation, stewardship, and education activities on SNAs. The site steward network will be sustained with volunteer stewards for at least 110 SNAs. Ecological and safety training, guidance, and support materials will be provided for site stewards as necessary to recruit and retain these volunteers and ensure their work on SNAs is safe and ecologically appropriate. About 50 events will be sponsored, co-sponsored or coordinated, including volunteer site restoration and management work days and recreation-educational events (guided

nature hikes, birding visits, botanizing, citizen-science activities, etc) aimed at building long-lasting and action-based conservation ethics in the community. The key to engaging people in nature-based events and recruiting, training, supporting SNA site stewards and volunteers is to have a dispersed network of professional naturalists leading this work for the SNA Program. This appropriation makes this possible by funding the SNA-dedicated portions of naturalists shared with State Parks across the state. The effectiveness of site steward recruitment and retention, expansion of participation in SNA events, and other SNA outreach tools will be evaluated, including measuring progress towards meeting the Department's *Conservation That Works* Goal 2.

New or refined electronic/social media communications tools will be developed and disseminated to increase and enhance recreationist's use of SNAs. Additional visitor features will be added to the SNA web page, such as additional online site maps with topography, plant communities, and facilities. Postings of events, news, and images will be increased on the new SNA Facebook (launched in 2014 with ENRTF ML12-13 support) and Tweets may be initiated on the DNR Twitter site. The e-book version of the SNA guidebook for visitors (initiated through the ENRTF ML2013 appropriation) will continue to be updated with new sites and new information, including site specific interactive maps, video and audio tracks. Accomplishments under this Activity will be increased and enhanced through a proposed CCM worker dedicated to SNA outreach.

Summary Budget Information for Activity 3:

ENRTF Budget: \$ 450,850
Amount Spent: \$ 0
Balance: \$ 450,850

Activity Completion Date: June 30, 2017

| Outcome | Completion Date | Budget |
|--|-----------------|------------|
| 3a. SNA website, e-book, & social media enhancements | 6/30/16 | \$ 162,450 |
| 3b. ~50 volunteer events (site management work days & rec.-ed. events) | 6/30/16 | \$ 143,870 |
| 3c. network of about 110 volunteer site stewards | 6/30/16 | \$ 144,530 |

Note: total budget for this Activity includes \$41,240 for direct & necessary services which are prorated across all costs except budgets for CCM contracts; no direct & necessary charges are budgeted for the \$35K in CCM contracts; actual charges will be based on actual expenditures.

Activity Status as of November 15, 2014:

Activity Status as of March 15, 2015:

Activity Status as of September 15, 2015:

Activity Status as of March 15, 2016:

Project Status as of September 15, 2016:

Project Status as of March 15, 2017:

Final Report Summary:

V. DISSEMINATION:

Dissemination will primarily be achieved through the SNA webpage on the DNR website: mndnr.gov/snas, through a new SNA Facebook, DNR Twitter feed, and through *Nature Notes* – the SNA Program e-newsletter distributed through GovDelivery.com to over 2000 subscribers including SNA site stewards. All volunteer events will be listed at the SNA webpage. The SNA webpage and SNA Facebook page will continue to be updated and

refined to increase and enhance recreationist's use of SNAs. The SNA naturalists, other SNA staff, and contractors are expected to make presentations and lead field trips at SNAs and/or to promote involvement in SNAs; these will be publicized on the DNR website, SNA Facebook page, via emails or local fliers, and as needed through press releases. The e-book version of the SNA guide for visitors is expected to be disseminated through DNR gift shops, DNR website, and potentially through the Minnesota Bookstore.

Status as of November 15, 2014:

Status as of March 15, 2015:

Status as of September 15, 2015:

Status as of March 15, 2016:

Project Status as of September 15, 2016:

Project Status as of March 15, 2017:

Final Report Summary:

VI. PROJECT BUDGET SUMMARY:

A. ENRTF Budget Overview:

| Budget Category | \$ Amount | Explanation |
|---|------------------|---|
| Personnel: | \$ 953, 520 | Coordinators & Planner (1.7 FTE for 2 yrs); Spec's, Tech's & Naturalists (4.1 FTE for 2 yrs); Laborers & Seasonal Field Crews (1.7 FTE for 2 yrs) |
| Professional/Technical/Service Contracts: | \$ 230,000 | <u>Professional/Technical Contracts</u> - Activity 2f. mgmt. plans (~\$10K); Act. 2g. adaptive mgmt. monitoring (~\$50K); Act. 3a. photography, videography etc & participant evaluation (~\$32K); Act. 3b. SNA events & site steward training (~\$15K) <u>Service Contracts</u> (including Conservation Corps Minnesota) - Activity 2 including 2b. woody encroachment removal & exotics control (~\$60K), 2c. prescribed burning (~\$13K); & 2d. site development (fences, signs, etc) (~\$15K); Activity 3. CCM outreach assistant (~\$35K) |
| Contract | \$ 25,000 | IT Services (Mn.IT service agreements) spatial database & SNA website/interactive media development & support |
| Equipment/Tools/Supplies: | \$ 77,760 | Activity 2: parts, tools, repair costs & supplies for restoration, invasives control, prescribed burning, management plans, & monitoring (~\$10.2K); interpretive displays, signs & posts, fencing, & other site development tools & supplies (~\$51.2K) Activity 3: volunteer events & site steward supplies (including safety items, |

| | | |
|---|--------------|---|
| | | handtools, training materials, etc) (~\$16.3K). |
| Fee Title Acquisition: | \$ 1,000,000 | ~240 acres in 1-3 parcels to be designated as SNA & owned in fee by DNR |
| Professional Services for Fee Title and Easement Acquisition: | \$ 51,000 | Includes real estate transaction costs & LAM billings; appraisal & review; property survey; attorney general; closing costs; recording fees & deed tax; etc. <\$20K/parcel |
| Printing: | \$ 7,000 | Includes Activity 1: State Register publication (required to designate acquired parcels) & strategic plan update report; Activity 3: maps, educational & volunteer materials. |
| Travel Expenses in MN: | \$ 52,500 | Fleet charges for trucks, cars, & equipment (e.g. mowers, seeders), mileage, lodging & meals as per state contracts. The fleet charges are use charges (by mile traveled or monthly which we pro-rate) for the specific equipment we utilize for this project. The direct and necessary expenditures (below) do explicitly include any \$s for the DNR fleet program. |
| Other: | \$ 143,310 | Direct & Necessary Services for the appropriation |
| TOTAL ENRTF BUDGET: \$ 2,540,000 | | |

Explanation of Use of Classified Staff: Consistent with approved work plans for previous ENRTF appropriations for the SNA Program, this funding will be used to pay project-associated costs for classified and unclassified staff paid mostly with special project funds. These positions would not exist, but for special project funding received through the ENRTF and other funds. Each year these positions are assigned work based on the particular combination of soft funding available to address priority SNA Program activities.

Direct and Necessary expenses include both Department Support Services (Human Resources, IT Support, Safety, Financial Support, Communications Support, Planning Support, and Procurement Support) and Division Support Services. Department Support Services are described in the agency Service Level Agreement, and billed internally to divisions based on rates that have been developed for each area of service. These services are directly related to and necessary for the appropriation. Department leadership services (Commissioner's Office and Regional Directors) are not assessed. Division Support Services include costs associated with Division business offices and clerical support. Those elements of individual projects that put little or no demand on support services such as large single-source contracts, large land acquisitions, and funds that are passed-thru to other entities are not assessed Direct and Necessary costs for those activities. For this work plan, landowner payments and CCM contracts with an associated cost of \$1,095,000 have not been assessed Direct and Necessary costs.

Explanation of Capital Expenditures Greater Than \$5,000: NA

Number of Full-time Equivalents (FTE) Directly Funded with this ENRTF Appropriation: 7.5 FTE each for two years (no staff budgeted for 3rd year) spread over 25-35 positions - for a total of 15 FTEs

Number of Full-time Equivalents (FTE) Estimated to Be Funded through Contracts with this ENRTF Appropriation: up to 1.0 FTE for 1 year for professional technical contract; & up to 1 FTE for 1 year for CCM & fieldwork contractors

B. Other Funds:

| Source of Funds | \$ Amount | \$ Amount | Use of Other Funds |
|-----------------|-----------|-----------|--------------------|
|-----------------|-----------|-----------|--------------------|

| | Proposed | Spent | |
|---------------------------|------------|------------|--|
| Non-state | \$0 | \$0 | No other funds are budgeted for the deliverables proposed for this appropriation; if any other funds are used for landowner payments accomplishments will be pro-rated by the actual expenditures per funding source. |
| State | \$0 | \$0 | No other funds are budgeted for the deliverables proposed for this appropriation; if any other funds are used for landowner payments accomplishments will be pro-rated by the actual expenditures per funding source; in-kind contributions by the project manager to administer this project will not be tracked. |
| TOTAL OTHER FUNDS: | \$0 | \$0 | |

VII. PROJECT STRATEGY:

A. Project Partners:

This proposal includes the DNR's work and funding to be used by the SNA Program towards partnership project work on SNAs. Partners include entities, such as The Nature Conservancy, Friends of the Mississippi River, and Great River Greening.

B. Project Impact and Long-term Strategy:

The SNA Long Range Plan goal is protection by SNA designation 5 occurrences of each native plant community and 3 occurrences of each natural heritage element per landscape. Thus, the Division could utilize support from the Environment and Natural Resources Trust fund of \$5M to \$10M per biennium over the next 20 years.

C. Spending History:

| Funding Source | M.L. 2008 or FY09 | M.L. 2009 or FY10 | M.L. 2010 or FY11 | M.L. 2011 or FY12-13 | M.L. 2013 or FY14 |
|--------------------------------|---|--|--------------------------------------|----------------------------|-------------------------|
| ENRTF | \$37,500 (3c) \$515,000 (3a) \$1,000,000 (3f) | \$37,500 (4e) \$410,000 (4f) \$703,300 (4d) | \$31,500 (4f) \$1,046,700 (4b) | \$1,640,000 (4e) | \$1,500,000 (4b) |
| OHF | | | \$2,058,800 | \$1,519,000 | \$380,000 |
| Bonding | \$5,000,000 | | | | |
| State Wildlife Grant (federal) | | | \$137,000 | \$49,800 | |

VIII. ACQUISITION/RESTORATION LIST: See attached list.

IX. VISUAL ELEMENT or MAP(S): See attached map set.

X. ACQUISITION/RESTORATION REQUIREMENTS WORKSHEET: TBD when available from LCCMR

XI. RESEARCH ADDENDUM: NA

XII. REPORTING REQUIREMENTS:

Periodic work plan status update reports will be submitted not later than November 15, 2014, March 15, 2015, September 15, 2015, March 15, 2016, September 15, 2016, and March 15, 2017. A final report and associated products will be submitted before September 15, 2017 (as necessary for state FY closeout data to be available and summarized).

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|---|---|---------------------|---------------------------|--|---------------------|---------------------------|---|---------------------|---------------------------|---------------------|----------------------|
| Environment and Natural Resources Trust Fund | | | | | | | | | | | |
| M.L. 2014 Project Budget | | | | | | | | | | | |
| Project Title: SNA Acquisition, Restoration, & Citizen Engagement | | | | | | | | | | | |
| Legal Citation: M.L. 2014, Chp. 226, Sec. 2, Subd. 07a | | | | | | | | | | | |
| Project Manager: Margaret (Peggy) Booth | | | | | | | | | | | |
| Organization: Minnesota Department of Natural Resources, Division of Ecological & Water Resources, SNA Program | | | | | | | | | | | |
| M.L. 2014 ENRTF Appropriation: \$2,540,000 | | | | | | | | | | | |
| Project Length and Completion Date: 3 years, June 30, 2017 | | | | | | | | | | | |
| Date of Report: February 4, 2014 | | | | | | | | | | | |
| | | | | | | | | | | | |
| ENVIRONMENT AND NATURAL RESOURCES TRUST FUND BUDGET | Activity 1 Budget | Amount Spent | Activity 1 Balance | Activity 2 Budget | Amount Spent | Activity 2 Balance | Activity 3 Budget | Amount Spent | Activity 3 Balance | TOTAL BUDGET | TOTAL BALANCE |
| BUDGET ITEM | Protection of Sites of Biodiversity Significance | | | Native Habitat Restoration & Improvements | | | Public Engagement in Natural Areas | | | | |
| Personnel (Wages and Benefits) | \$201,920 | \$0 | \$201,920 | \$459,800 | \$0 | \$459,800 | \$291,800 | \$0 | \$291,800 | \$953,520 | \$953,520 |
| Position Type 1: Coordinators & Planner - Activity 1: ~0.5 FTE acquisition/land protection for 2 yrs; Activity 2: ~0.5 FTE resto/mgmt for 2 yrs; Activity 3: 0.8 FTE outreach (~\$281.2K) - all spread over ~5 positions | | | | | | | | | | | |
| Position Type 2: Specialists, Technicians, & Naturalists - Activity 1: ~0.8 FTE acquisition/land protection for 2 yrs; Activity 2: ~2.0 FTE resto/mgmt for 2 yrs; Activity 3: 1.3 FTE outreach (~\$570.9K) - all spread over about ~13 positions | | | | | | | | | | | |
| Position Type 3: Laborers & Seasonal Field Crews - all Activity 2: ~1.7 FTE for 2 yrs (spread over ~9-15 positions) | | | | | | | | | | | |
| Professional/Technical/Service Contracts Professional/Technical Contracts - Activity 2f. 2-3 mgmt. plans (~\$10K); Act. 2g. adaptive mgmt. monitoring at 10+ SNAs (~\$50K); Act. 3a. photography, videography etc & participant evaluation (~\$32K); Act. 3b. SNA events & site steward training through 2-5 contractors (~\$15K) Service Contracts (including Conservation Corps Minnesota) - Activity 2 including 2b. woody encroachment removal & invasives control (~\$60K at ~\$1500-\$4000/ac), 2c. prescribed burning (~\$13K at ~\$80-\$200/ac for grassland/brushland & up to \$800/ac for forest); & 2d. site development (fences, signs, etc) (~\$15K); Activity 3. CCM outreach assistant (~\$35K) | \$0 | \$0 | \$0 | \$148,000 | \$0 | \$148,000 | \$82,000 | \$0 | \$82,000 | \$230,000 | \$230,000 |
| Contract: IT Services (Mn.IT service agreements) spatial database & SNA website/interactive media development & support | \$0 | \$0 | \$0 | \$20,000 | \$0 | \$20,000 | \$5,000 | \$0 | \$5,000 | \$25,000 | \$25,000 |



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|--|--------------------|------------|--------------------|------------------|------------|------------------|------------------|------------|------------------|--------------------|--------------------|
| Equipment/Tools/Supplies Activity 2: parts, tools, repair costs & supplies for restoration, invasives control, prescribed burning, etc (this is largely for SNA tools, such as chain saws, pump cans, drip torches, fire racks, pulaskis, other handtools, backpack sprayers, portable pumps & hose, personal protective equipment, etc, & supplies such as herbicides, spreading oils, flagging, stakes, etc) (~\$10.2K); 5 or more interpretive display panels & standards (at ~\$2K each) (~\$10K); entry signs (at ~\$3-5K each), boundary & rules signs, posts/hardware, fencing, gravel, & other site development tools & supplies (~\$41.2K) Activity 3: volunteer events & site steward supplies (including safety items, handtools, training materials, temporary signs, stamps, envelops, etc) (~\$16.3K). | \$0 | \$0 | \$0 | \$61,360 | \$0 | \$61,360 | \$16,310 | \$0 | \$16,310 | \$77,670 | \$77,670 |
| Fee Title Acquisition ~240 acres in 1-3 parcels to be designated as SNA & owned in fee by DNR | \$1,000,000 | \$0 | \$1,000,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$1,000,000 | \$1,000,000 |
| Professional Services for Fee Title and Easement Acquisition Includes real estate transaction costs & LAM billings; appraisal & review; property survey; attorney general; closing costs; recording fees & deed tax; etc. <\$20K/parcel | \$51,000 | \$0 | \$51,000 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$51,000 | \$51,000 |
| Printing Includes Activity 1: State Register publication (required to designate acquired parcels) & strategic plan update report; Activity 3: maps, educational & volunteer materials. | \$1,000 | \$0 | \$1,000 | \$0 | \$0 | \$0 | \$6,000 | \$0 | \$6,000 | \$7,000 | \$7,000 |
| Travel expenses in Minnesota Fleet charges for trucks, cars, & equipment (e.g. mowers, seeders), mileage, lodging & meals as per state contracts | \$11,300 | \$0 | \$11,300 | \$32,700 | \$0 | \$32,700 | \$8,500 | \$0 | \$8,500 | \$52,500 | \$52,500 |
| Other Direct & Necessary Services for the appropriation | \$29,200 | \$0 | \$29,200 | \$72,870 | \$0 | \$72,870 | \$41,240 | \$0 | \$41,240 | \$143,310 | \$143,310 |
| COLUMN TOTAL | \$1,294,420 | \$0 | \$1,294,420 | \$794,730 | \$0 | \$794,730 | \$450,850 | \$0 | \$450,850 | \$2,540,000 | \$2,540,000 |

Environment and Natural Resources Trust Fund

M.L. 2014 Acquisition/Restoration List

Project Title: SNA Acquisition, Restoration, & Citizen Engagement

Legal Citation: M.L. 2014, Chp. 226, Sec. 2, Subd. 07a

Project Manager Name: Margaret (Peggy) Booth

Organization: Minnesota Department of Natural Resources, Division of Ecological & Water Resources

M.L. 2014 ENRTF Appropriation: \$2,540,000

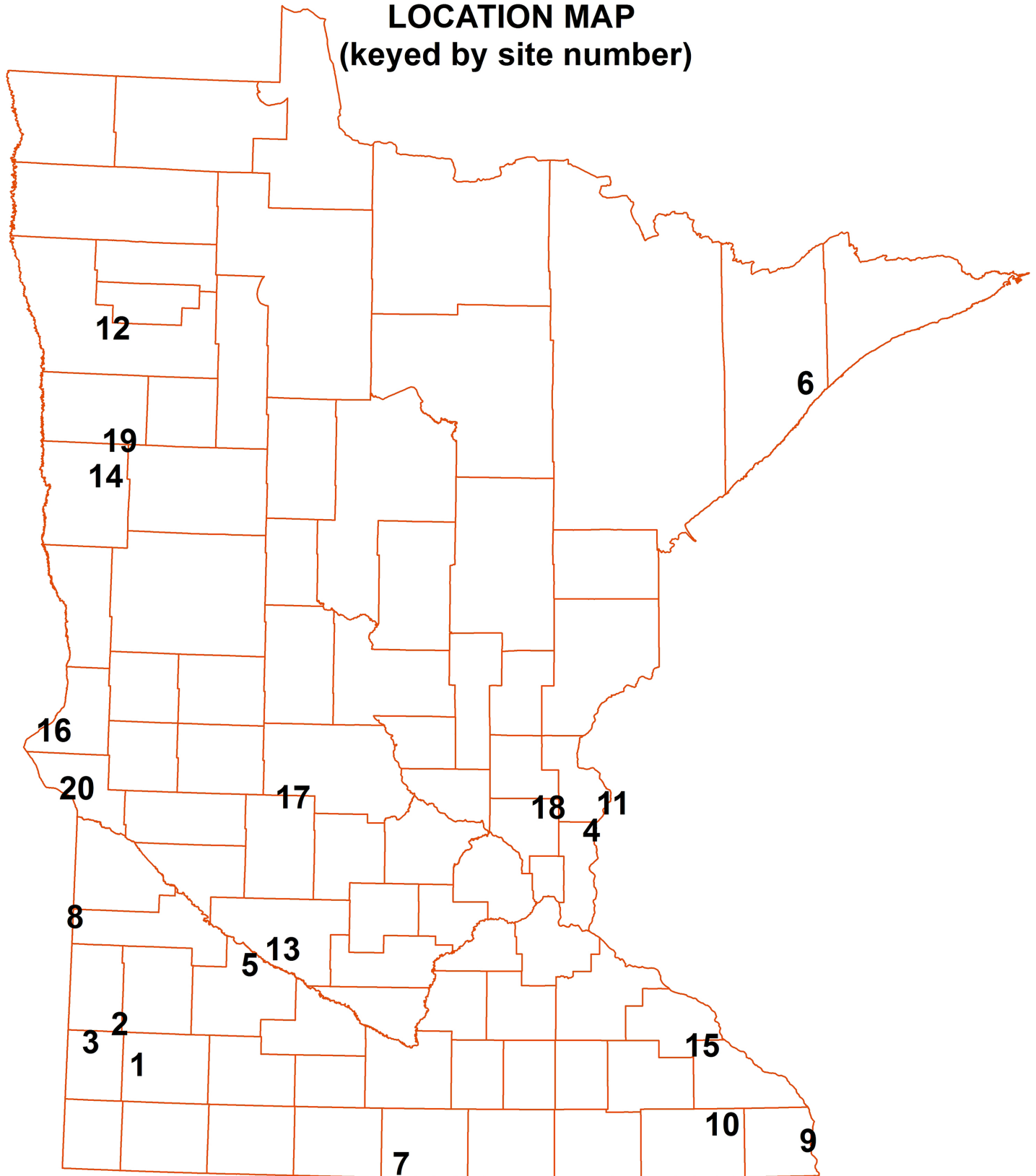
Project Length and Completion Date: 3 years, June 30, 2017

Date of Report: January 15, 2014

| # | Acquisition or Restoration | Geographic Coordinates Latitude Longitude | Estimated Cost | Estimated Annual PILT | County | Ecological Significance | Activity Description | # of Acres | # of Shoreline | Type of Landowner | Proposed Fee Title or | Status |
|----|--|--|----------------|-----------------------|-----------------|---|-------------------------------------|------------|----------------|---------------------------------|-----------------------|--------|
| 1 | Chanarambie Creek | 43-54-22.4 96-1-51.9 | \$ 400,000 | \$ 3,000 | Murray | MBS-mapped dry hill prairie & prairie meadow | fee title acquisition | 120 | | private ind/trust | DNR-SNA | |
| 2 | Prairie Coteau SNA addition | 44-7-14.0 96-8-58.5 | \$ 1,000,000 | \$ 7,500 | Pipestone | MBS-mapped dry hill prairie, with rare species | fee title acquisition | 200 | | private ind/trust | DNR-SNA | |
| 3 | Pipestone Outcrops | 44-1-13.5 96-19-33.4 | \$ 800,000 | \$ 6,000 | Pipestone | MBS-mapped rock outcrop, dry prairie, with rare species | fee title acquisition | 160 | | private ind/trust | DNR-SNA | |
| 4 | Crystal Springs (formerly listed as addition to Falls Creek SNA) | 45-15-33.9 92-45-58.26 | \$ 250,000 | \$ 1,875 | Washington | old-growth mesic hardwood forest, native white pines, black ash seepage swamp, deep gorge exposing layers of bedrock, filled with seeps & a waterfall | fee title acquisition | 50 | | private ind/trust | DNR-SNA | |
| 5 | Cedar Rock SNA addition | 44-36-57.3 95-10-22.4 | \$ 280,000 | \$ 2,100 | Redwood | MBS-mapped rock outcrop & mesic prairie | fee title acquisition | 80 | | private ind/trust | DNR-SNA | |
| 6 | Art Lake Hardwood Ridges | 47-30-26.9 91-12-13.3 | \$ 420,000 | \$ 3,150 | Lake | MBS-mapped ecologically intact area with oldgrowth sugar maple & upland white cedar forest on remote ridges; rare birds | fee title acquisition | 160 | | private | DNR-SNA | |
| 7 | Drake Woods | 43-33-54.0 94-6-23.51 | \$ 1,800,000 | \$ 13,500 | Faribault | best intact MBS mapped hardwood forest in south central MN | fee title acquisition | 300 | | private ind/trust | DNR-SNA | |
| 8 | Mound Spring Prairie addition | 44-45-29.7 96-26-10.1 | \$ 480,000 | \$ 3,600 | Yellow Medicine | MBS-mapped wet & mesic prairie | fee title acquisition | 160 | | private ind/trust | DNR-SNA | |
| 9 | Brownsville Bluff | 43-40-40.6 91-16-57.1 | \$ 560,000 | \$ 4,200 | Houston | Forested Mississippi River bluff with rare animals | fee title acquisition | 200 | | private ind/trust or non-profit | DNR-SNA | |
| 10 | Rushford Bluffs | 43-48-54.6 91-45-12.5 | \$ 150,000 | \$ 1,125 | Fillmore | oak-shagbark hickory woodland, bluff prairie | fee title acquisition | 50 | | private ind/trust | DNR-SNA | |
| 11 | Franconia Bluffs addition | 45-22-8.3 92-42-17.7 | \$ 250,000 | \$ 1,875 | Chisago | key parcel to connect 2 parts of existing SNA; contains MBS mapped mesic hardwood forest | fee title acquisition | 50 | | private ind/trust | DNR-SNA | |
| 12 | Kertonville Snow Creek (within Glacial Ridge area) | 47-44-18.7 96-25-38.2 | \$ 300,000 | \$ 2,250 | Polk | Prairie Plan Core Area - mesic & wet prairie; rare plants & birds | fee title acquisition | 300 | | private ind/trust or non-profit | DNR-SNA | |
| 13 | Morton Outcrops | 44-33-3.9 94-59-31.4 | \$ 24,000 | \$ 180 | Renville | MBS-mapped rock outcrop, prairie, with rare species | fee title & or easement acquisition | 6 | | private ind/trust | DNR-SNA | |
| 14 | Felton Prairie SNA addition | 47-1-40.1 96-25-56.4 | \$ 1,200,000 | \$ 9,000 | Clay | Prairie Plan Core Area - wet & mesic prairie; prairie chickens & rare prairie birds | fee title acquisition | 400 | | private ind/trust or non-profit | DNR-SNA | |
| 15 | Upper Beaver Creek Valley | 44-08-34.34 92-03-40.82 | \$ 980,000 | \$ 7,350 | Wabasha | MBS-mapped bluff prairie, forest, & cliff native plant communities; providing connectivity to Whitewater WMA parcels | fee title acquisition | 280 | 2.35 | private ind/trust | DNR-SNA | |
| 16 | Lake Traverse Prairie | 45-43-27.6 96-41-15.6 | \$ 380,000 | \$ 2,850 | Traverse | Prairie Plan Core Area - dry hill prairie; rare plants & animals | fee title acquisition | 100 | | private ind/trust | DNR-SNA | |
| 17 | Glacial Lakes & Moraine | 45-31-46.1 95-30-20.7 | \$ 900,000 | \$ 6,750 | Pope | Prairie Plan Core Area - dry sand gravel prairie | fee title acquisition | 300 | | private ind/trust or non-profit | DNR-SNA | |
| 18 | Boot Lake SNA | 45-20-0.62 93-7-39.5 | \$ 12,500 | | Anoka | restore oak woodland comparable to adjoining MBS mapped woodland | reconstruction | 5 | | public | DNR-SNA | |
| 19 | Blanket Flower SNA | 46-38-11.46 96-17-34.6 | \$ 40,000 | | Clay | restore dry sand gravel prairie comparable to adjoining MBS mapped prairie | reconstruction | 20 | | public | DNR-SNA | |
| 20 | Bonanza Prairie SNA | 45-27-8.20 96-42-41.2 | \$ 36,000 | | Big Stone | restore dry hill prairie comparable to adjoining MBS mapped prairie | reconstruction | 20 | | public | DNR-SNA | |

NOTES: Specific parcels have yet to be identified for acquisition areas #14-17

**M.L. 2014 ACQUISITION AND RESTORATION SITES
LOCATION MAP
(keyed by site number)**

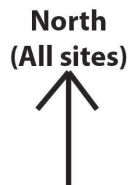


M.L. 2014 Acquisition Sites

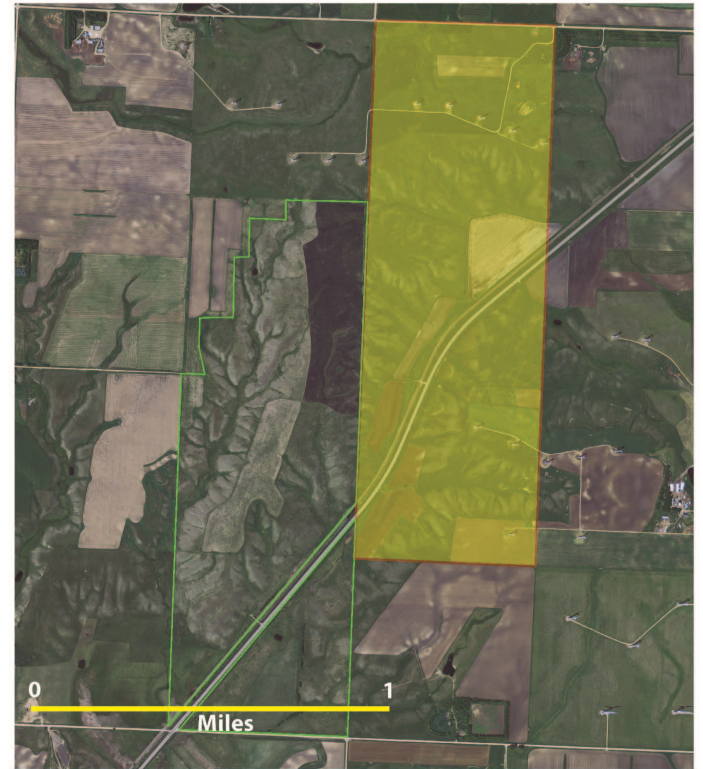
Site 1: Chanarambie Creek Project Map





 Candidate Parcels

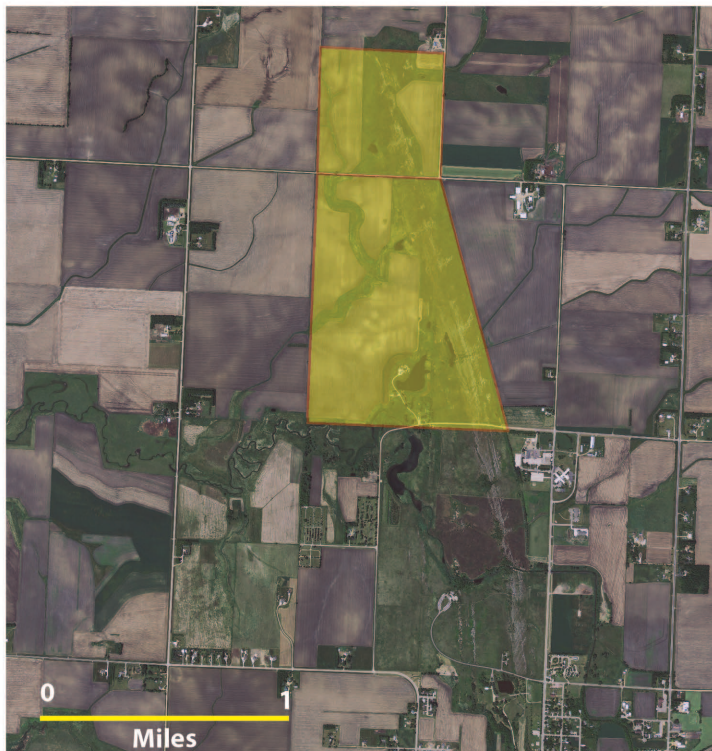


Site 2: Prairie Coteau Project Map



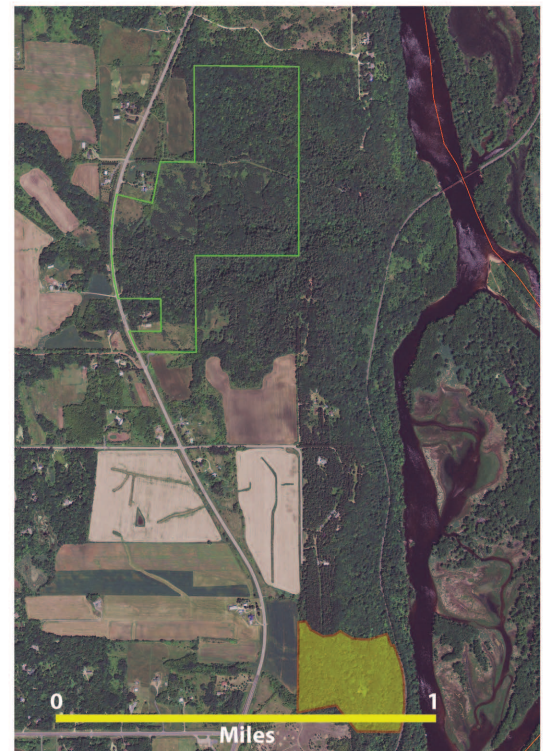
 Candidate Parcels
 Existing SNA

Site 3: Pipestone Outcrops Project Map



 Candidate Parcels

Site 4: Crystal Springs Project Map



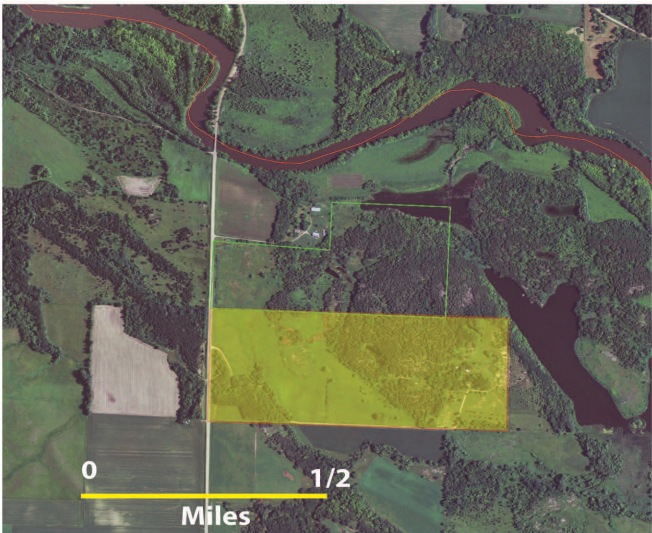
 Candidate Parcels

 Existing SNA

Subd. 07a

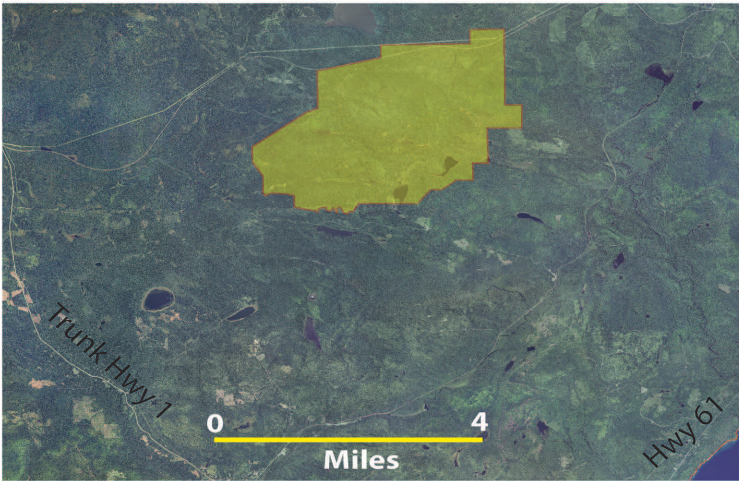
M.L. 2014 Acquisition Sites

Site 5: Cedar Rock Project Map

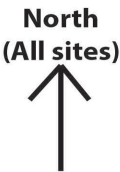


 Candidate Parcels

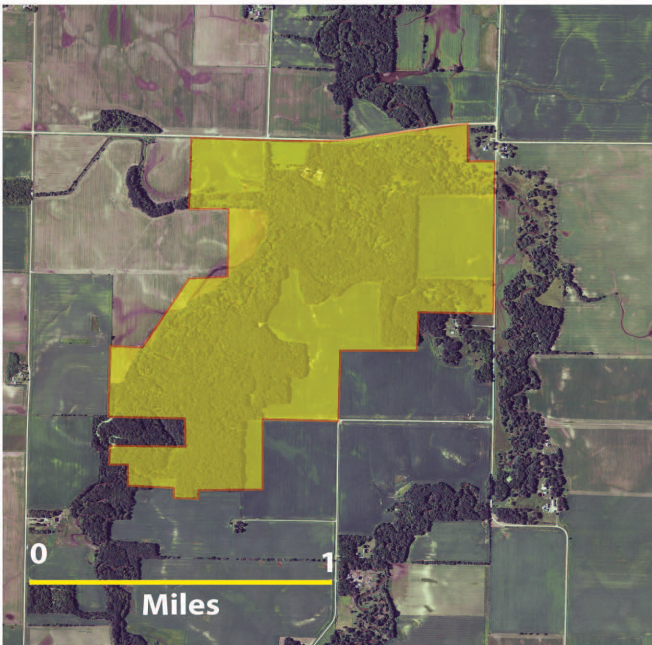
Site 6: Art Lake Hardwoods Project Map



 Candidate Area

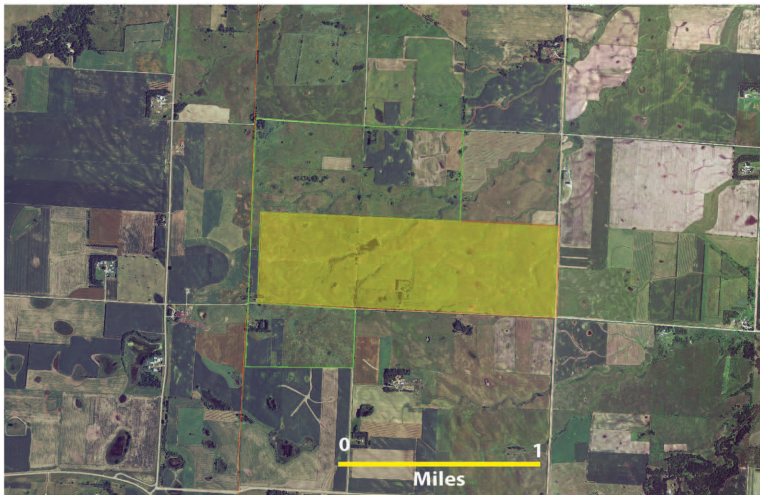


Site 7: Drake Woods Project Map



 Candidate Parcels

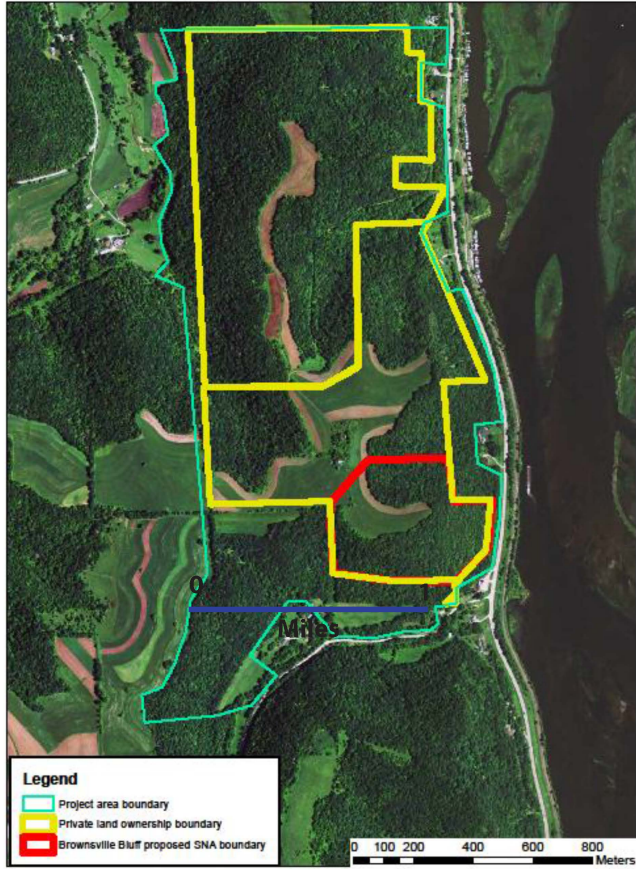
Site 8: Mounds Spring Prairie Project Map



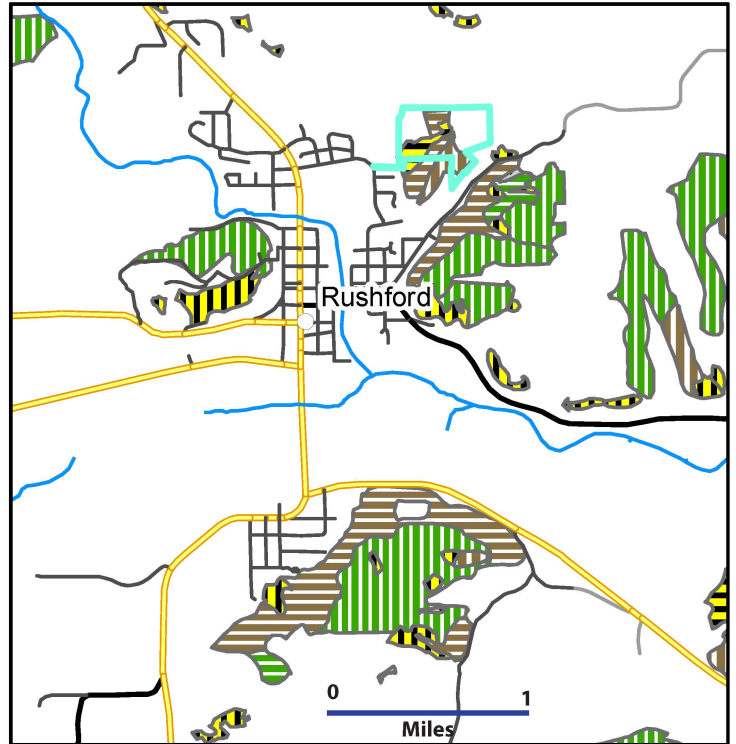
 Candidate Parcels

M.L. 2014 Acquisition Sites

Site 9: Brownsville Bluffs Project Map



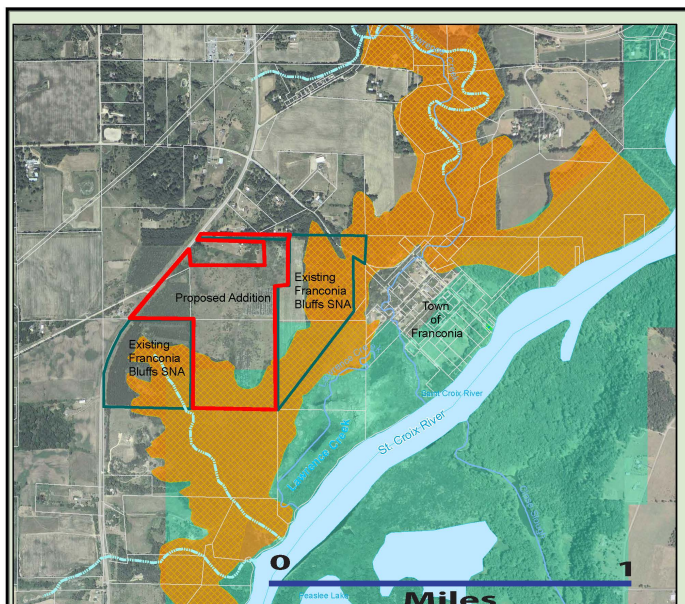
Site 10: Rushford Bluffs Area (overview)



North
(All sites)

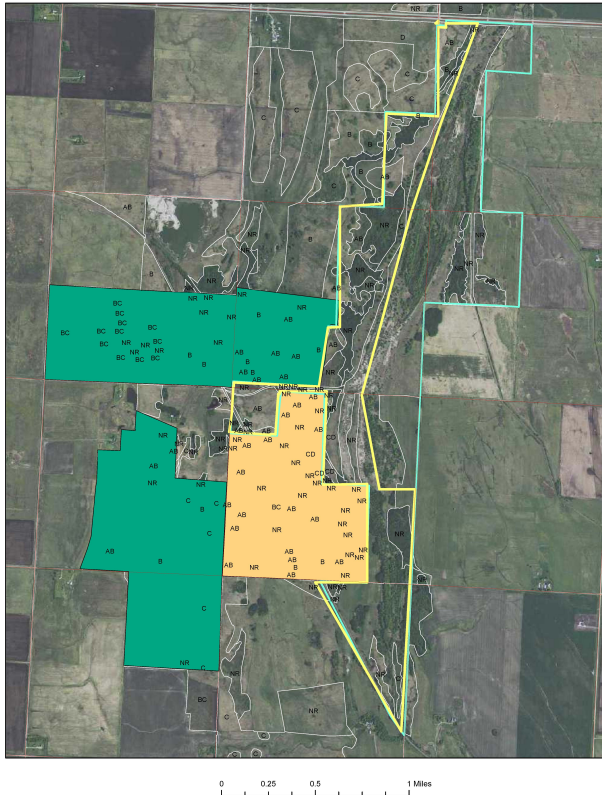


Site 11: Franconia Bluffs Project Map



M.L. 2014 Acquisition Sites

Site 12: Kertsonville Project Map



Legend

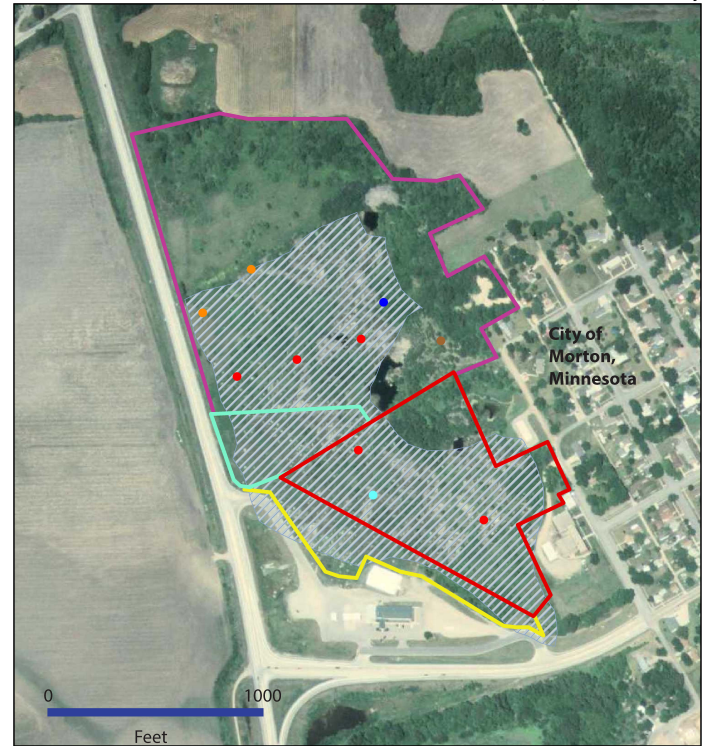
- FLS Section Lines - SECTION 24K
- Proposed SNA
- Ownership Boundary
- Topographic Contour/Line/Point and Managerial Area
- State Wildlife Management Area Boundaries
- or park map with 7500011
- Scientific and Natural Area Boundaries

Land owned by KGM Contractors, Angora, MN

Site 13:
Morton Outcrops Project Map
65 acres



T113N, R34W, S31, Renville County



Morton Outcrops Ownership

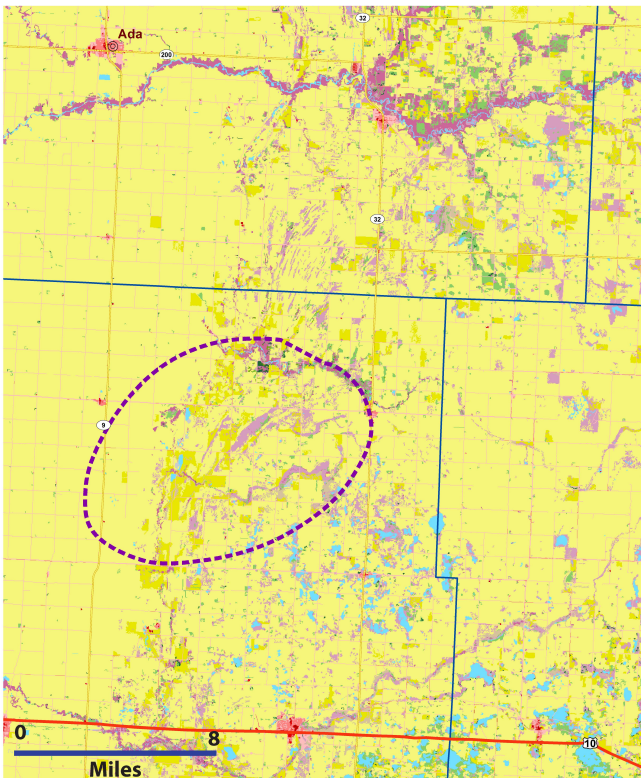
Candidate Parcel
 Existing SNA
 Candidate Parcel

Crystalline Bedrock Outcrop (Prairie)
 (Outstanding Biodiversity Significance)

Rare Natural Features

Vertebrate Animal
 Vascular Plant
 Community
 Invertebrate Animal
 Geologic

Site 14: Felton Prairie

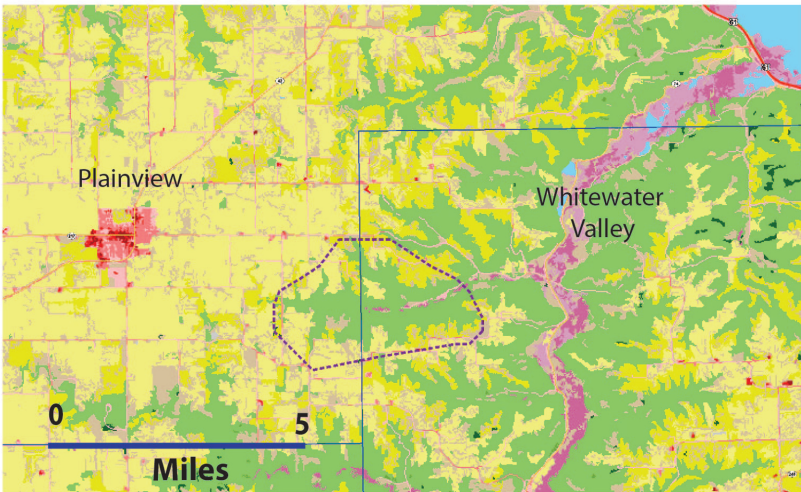


North
(All sites)

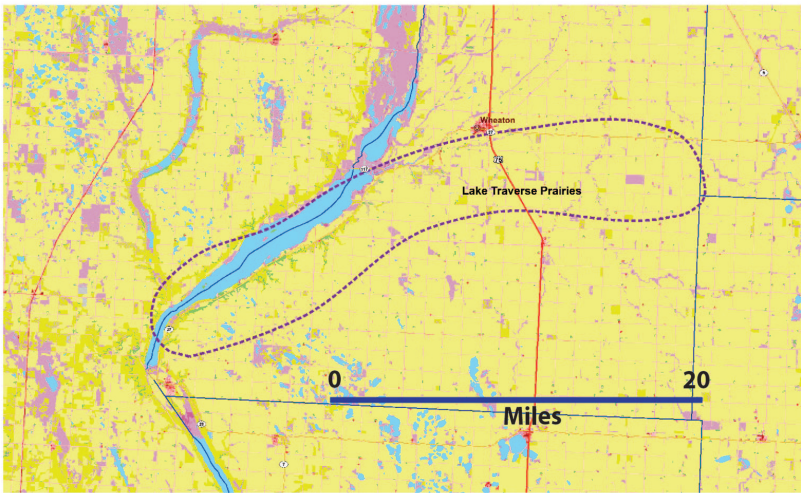


M.L. 2014 Acquisition Sites

Site 15: Upper Beaver Creek Valley Project Map



Site 16: Lake Traverse Prairie Project Map



Site 17: Glacial Lakes and Moraine Project Map



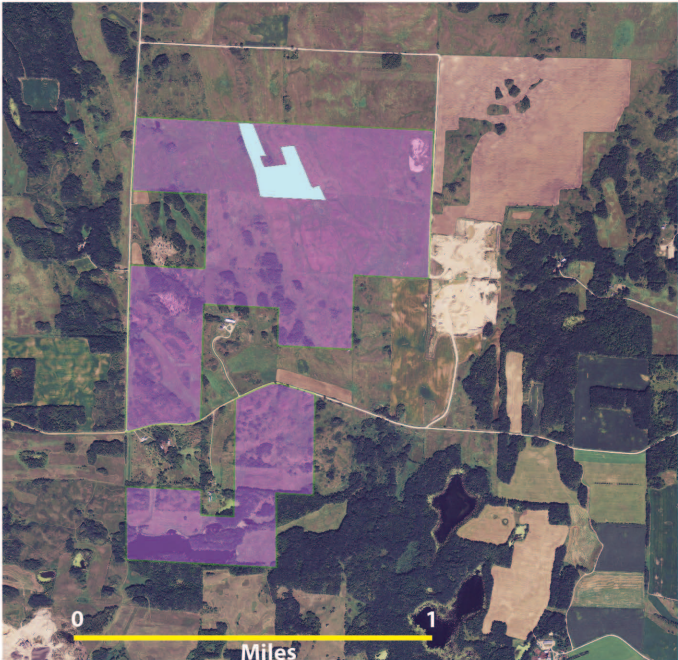
M.L. 2014 Restoration Sites

Site 18: Boot Lake SNA Project Map



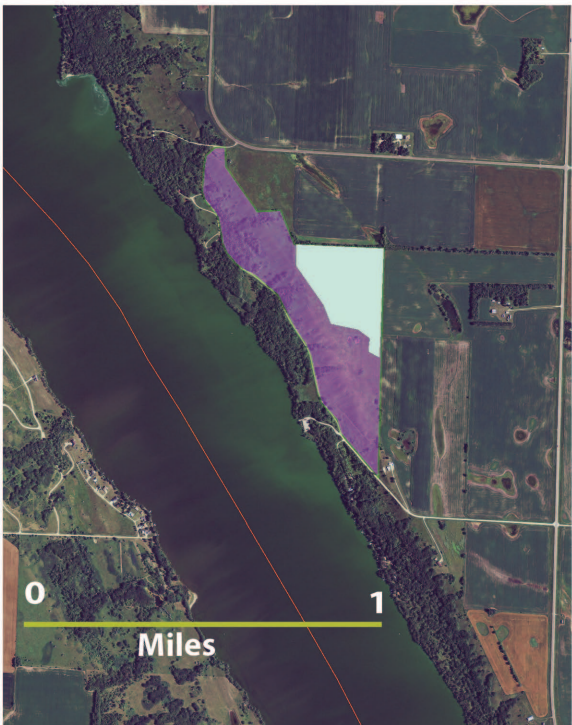
- SNA Boundary
- Restoration Areas

Site 19: Blanket Flower SNA Project Map



- SNA Boundary
- Restoration Areas

Site 20: Bonanza Prairie SNA Project Map



- SNA Boundary
- Restoration Areas

