

**Environment and Natural Resources Trust Fund**

# M.L. 2021 Approved Work Plan

## **General Information**

**ID Number:** 2021-058

**Staff Lead:** Corrie Layfield

**Date this document submitted to LCCMR:** July 21, 2021

**Project Title:** Pollinator Central II: Habitat Improvement With Community Monitoring

**Project Budget:** $631,000

## **Project Manager Information**

**Name:** Rebecca Tucker

**Organization:** Great River Greening

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## **Project Reporting**

**Date Work Plan Approved by LCCMR:** July 20, 2021

**Reporting Schedule:** February 1 / August 1 of each year.

**Project Completion:** June 30, 2024

**Final Report Due Date:** August 14, 2024

## **Legal Information**

**Legal Citation:** M.L. 2021, First Special Session, Chp. 6, Art. 6, Sec. 2, Subd. 08c

**Appropriation Language:** $631,000 the first year is from the trust fund to the commissioner of natural resources for an agreement with Great River Greening to restore and enhance pollinator habitat in the metropolitan area to benefit pollinators and people and to build knowledge of the impact through community-based monitoring.

**Appropriation End Date:** June 30, 2024

## **Narrative**

**Project Summary:** We will restore and enhance 116 acres of pollinator habitat on 11 sites around the metro to benefit pollinators and people, and build knowledge of the impact through community-based monitoring.

**Describe the opportunity or problem your proposal seeks to address. Include any relevant background information.**

Current urban corridors are largely undeveloped habitat for pollinators, often with open mowed turf serving as boundaries between pavement and other impermeable surfaces. These patches of vegetation can be opportunities for municipalities, cities, and utilities to develop low-maintenance, high reward ecological areas that benefit both the pollinator community as well as the neighborhoods that these parks, schools, and public spaces serve. In addition to the restoration and establishment of pollinator habitat for imperiled species, there is an opportunity for stewardship, community education, and hands on monitoring in an effort to understand how pollinators interact with these urban spaces.

**What is your proposed solution to the problem or opportunity discussed above? i.e. What are you seeking funding to do? You will be asked to expand on this in Activities and Milestones.**

Following recommendations from the Governor's Committee on Pollinator Protection and other habitat assessment guides, we will restore habitats in urban, suburban, and rural landscapes to support a 'hopscotch' corridor for pollinators, as well as improve core habitat areas. Turf conversion of small, high quality patches will join grassland, edge, wetland, shoreline, and limited amounts of forest and woodland all within flight distance of year-round habitat.

Proposed implementation will follow recommendations provided by the Habitat Assessment Guide for Rusty Patched Bumble Bee (Xerces), the U.S. Fish and Wildlife Service Monarch Conservation Database and other guides, field surveys and expert review. Emphasis will be placed on adjacency within a landscape mosaic to provide forage habitat throughout the year, as determined by using state-of-the-art pollinator habitat ‘core and - patches’ adjacency mapping analysis. Restoration and enhancement activities will be guided by ecological plans, and implemented by a variety of labor forces including subcontractors, field crews, landowner in-kind, and volunteers.

**What are the specific project outcomes as they relate to the public purpose of protection, conservation, preservation, and enhancement of the state’s natural resources?**

These improvements will increase floral resources and improve nesting and over-wintering habitat for pollinators, while engaging a total of 350 habitat volunteers in field activities. In addition, we will monitor every site through a number of direct pollinator monitoring techniques, guided by Xerces Society and U of M Bee Lab, to collect useful data on pollinator response to habitat improvements, effectively engaging 75 community scientists in monitoring efforts by requiring reasonable time, skill, and expense, making the approach scalable. A final report will be generated and disseminated that will help guide the implementation in future phases of this program.

## **Project Location**

**What is the best scale for describing where your work will take place?** Region(s): Metro

**What is the best scale to describe the area impacted by your work?** Region(s): Metro

**When will the work impact occur?** During the Project and In the Future

## **Activities and Milestones**

### **Activity 1: Pollinator Habitat Restoration and Enhancement**

**Activity Budget:** $544,000

**Activity Description:**Habitat restoration and enhancement steps will typically follow: Site selection and ranking; habitat improvement plan including goals, timelines, plans for labor forces such as volunteers, landowners, Greening crew, subcontractors and partners, and long term management; site preparation, installation, establishment; and monitoring throughout. We will restore pollinator habitat with a focus on Species of Greatest Conservation Need bumble bee species and monarch butterflies on public and protected private locations through a pollinator corridor following the Mississippi River throughout the Twin Cities metro area, contributing to the multi-phase "Pollinator Central" effort extending from Hastings to St. Cloud.

Following recommendations from the Governor’s Committee and others, we will include non-traditional habitat areas, with this phase focusing on turf conversions of trail-sides adjacent to traditional habitat cores. Typical restoration activities will include prairie and savanna restoration; wetland and shoreline restoration and enhancement; judicious use of invasive removal and woodland restoration, restricted in size and to locations that are adjacent to season-long habitat emphasizing forbs, select flowering shrubs and trees, and habitat needs for overwintering and nesting. Restoration and enhancement activities will be implemented guided by ecological plans, and implemented by a variety of labor forces including subcontractors, field crews, landowner in-kind, and volunteers.

**Activity Milestones:**

|  |  |
| --- | --- |
| **Description** | **Completion Date** |
| Site selection and management plan completion for 11 sites. | June 30, 2022 |
| Restoration and enhancement completion on 11 sites for a total of 116 acres. | June 30, 2024 |

### **Activity 2: Community Science Pollinator Monitoring**

**Activity Budget:** $87,000

**Activity Description:**Monitoring will include timed vegetation meanders, and pollinator assessment using guides such as Rusty Patched Bumble Bee Habitat Assessment guide (Xerces Society). Direct pollinator monitoring guided and developed by Xerces Society and U of M Bee Lab will encompass a suite of approaches including citizen science techniques of timed meander counts on half the sites, with training; non-lethal bumble bee capture with expert identification 7 times over 3 years on one site, non-lethal photography with expert identification at 3 sites.

Monitoring will occur pre and post restoration/enhancement to determine the pollinator habitat value of the site and the response to the improvements. This monitoring will potentially take several forms and at escalating levels of rigor: the simplest monitoring will include a timed count of 3 categories of pollinators (honey bees vs. native bees vs. other floral visitors); catch and release surveys of bumble bees with expert identification following MN Native Bee Survey and Midwest Guide to Bumble Bee Monitoring (Xerces Society) methods; and camera ‘trapping’ using skilled photographers and expert identification using guidelines established by the USFWS for monitoring bumble bee communities and new approaches being developed by Xerces Society and the Bee Lab for other groups.

**Activity Milestones:**

|  |  |
| --- | --- |
| **Description** | **Completion Date** |
| Pre-restoration baseline surveys for each of the 11 sites. | June 30, 2022 |
| Site specific monitoring plan - 5 (citizen surveys), 3 (photographic surveys), 1 (bumblee capture surveys). | June 30, 2022 |
| Data collection for all surveys complete, final report on initial findings on all 11 sites. | June 30, 2024 |

## **Dissemination**

**Describe your plans for dissemination, presentation, documentation, or sharing of data, results, samples, physical collections, and other products and how they will follow ENRTF Acknowledgement Requirements and Guidelines.**Great River Greening will coordinate multiple volunteer events and widely distribute digital media to showcase individual projects and educate the community on the specific restoration and enhancement work being done. This will include e-news letters, social media, and online articles written with partners on their websites, describing the activities as well as the benefits these activities have to the natural environment and the surrounding communities.

We will also document the method and results of the pollinator insect monitoring on these restoration sites. The collected data will be given to the site partners individually and collectively, as well as disseminated in the form of written summaries and presentations and talks to the site owners and general conservation community. This will allow other restoration practitioners as well as the general public to use the knowledge gained on successful pollinator habitat improvement techniques on projects of their own in the future.

The Environmental and Natural Resource Trust Fund will be acknowledged in all dissemination, as well as with on site signage as required by the associated guidelines.

## **Long-Term Implementation and Funding**

**Describe how the results will be implemented and how any ongoing effort will be funded. If not already addressed as part of the project, how will findings, results, and products developed be implemented after project completion? If additional work is needed, how will this be funded?**This is the second phase of the Pollinator Central program as funded by the LCCMR appropriations (pending legislation as this application is being submitted), and owing to the volume of interest we have received each time we have released RFPs to land-owning partners, we anticipate that there will be critical need and opportunity for future multiple phases in this Pollinator Central corridor. These projects are well matched by cash and in-kind funding from landowners and other sources, and the landowners will commit to long term maintenance of the restoration sites. The restoration monitoring information will be disseminated with grant assistance.

## **Other ENRTF Appropriations Awarded in the Last Six Years**

|  |  |  |
| --- | --- | --- |
| **Name** | **Appropriation** | **Amount Awarded** |
| Upland and Shoreline Restoration in Greater Metropolitan Area | M.L. 2014, Chp. 226, Sec. 2, Subd. 06g | $300,000 |
| Metro Conservation Corridors Phase VIII - Enhancing Restoration Techniques for Improved Climate Resilience and Pollinator Conservation | M.L. 2015, Chp. 76, Sec. 2, Subd. 08f | $400,000 |
| Upland, Wetland, and Shoreline Restoration in Greater Metropolitan Area | M.L. 2016, Chp. 186, Sec. 2, Subd. 08g | $509,000 |
| Community Stewardship to Restore Urban Natural Resources - Phase Ten | M.L. 2017, Chp. 96, Sec. 2, Subd. 08i | $524,000 |

## **Budget Summary**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Category / Name** | **Subcategory or Type** | **Description** | **Purpose** | **Gen. Ineli gible** | **% Bene fits** | **# FTE** | **Class ified Staff?** | **$ Amount** |
| **Personnel** |  |  |  |  |  |  |  |  |
| Grant Administrator |  | Tracks grant budget, project budgets, develops status reports and amendments |  |  | 24% | 0.36 |  | $27,700 |
| Accounting Manger |  | Processes reimbursement requisitions |  |  | 24% | 0.12 |  | $11,200 |
| Events & Outreach Coordinator |  | Conducts day to day tasks to support volunteer acquisition and event execution |  |  | 21% | 0.27 |  | $11,400 |
| Events & Outreach Manager |  | Manages all tasks related to volunteer acquisition, event development and event execution |  |  | 21% | 0.45 |  | $24,100 |
| Field Technician |  | Conducts on-site work to support project deliverables |  |  | 9% | 0.69 |  | $22,900 |
| Field Crew Coordinator |  | Oversees day to day activities of Field Technicians |  |  | 9% | 0.45 |  | $18,700 |
| Program/Project Manager Ecologist |  | Manages day to day project execution, crew, contractors, project deliverables, budget and timeline. |  |  | 17% | 1.02 |  | $86,800 |
| Communications Manager |  | Develop communicaitons for events |  |  | 21% | 0.03 |  | $1,000 |
|  |  |  |  |  |  |  | **Sub Total** | **$203,800** |
| **Contracts and Services** |  |  |  |  |  |  |  |  |
| University of Minnesota Bee Laboratory | Sub award | Identify bumble bee species from photographs at 750-1,000 specimens per 40 hours, including data management and analysis. Time and materials basis. Single-source provider selected due to the unique and expert set of skills required for these tasks. This contract will be executed as part of Activity 2. |  |  |  | 0.12 |  | $23,800 |
| Xerces Society | Sub award | Lead approximately seven public bumble bee monitoring events, three citizen and GRG staff training workshops, and provide expert support for monitoring efforts. Single-source provider selected due to the unique and expert set of skills required for these tasks. This contract will be executed as part of Activity 2. |  |  |  | 0.12 |  | $33,400 |
| Restoration and Enhancement sub-contracts following state competitive RFP requirements | Professional or Technical Service Contract | We expect that multiple contracts will be engaged to provide the following types of services: site preparation, turf removal, invasive species control, native species planting, woody harvest / thinning, forestry mowing, herbicide treatment, prescribed fire, haying, and other activities. These contracts will be executed as part of Activity 1. |  |  |  | 1.17 |  | $220,600 |
|  |  |  |  |  |  |  | **Sub Total** | **$277,800** |
| **Equipment, Tools, and Supplies** |  |  |  |  |  |  |  |  |
|  | Tools and Supplies | Activity 2 Tools & Supplies | Sampling Supplies to support monitoring project deliverables |  |  |  |  | $1,500 |
|  | Tools and Supplies | Activity 1 Tools & Supplies | Seeds, plugs, herbicide, tools for R/E activities conducted by Greening crew, volunteers, and landowners as needed to satisfy project deliverables |  |  |  |  | $112,700 |
|  |  |  |  |  |  |  | **Sub Total** | **$114,200** |
| **Capital Expenditures** |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | **Sub Total** | **-** |
| **Acquisitions and Stewardship** |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | **Sub Total** | **-** |
| **Travel In Minnesota** |  |  |  |  |  |  |  |  |
|  | Miles/ Meals/ Lodging | Support on-site visits as needed to accomplish deliverables. (Activity 1 and Activity 2) |  |  |  |  |  | $5,500 |
|  |  |  |  |  |  |  | **Sub Total** | **$5,500** |
| **Travel Outside Minnesota** |  |  |  |  |  |  |  |  |
|  | Conference Registration Miles/ Meals/ Lodging | Acrtivity 2 travel | Dissemination at 2 conferences @ $500 each including out of state travel. | X |  |  |  | $1,000 |
|  |  |  |  |  |  |  | **Sub Total** | **$1,000** |
| **Printing and Publication** |  |  |  |  |  |  |  |  |
|  | Printing | Activity 2 Printing | Promotional material for volunteer acquisition, signage for event site instructions and logistics. |  |  |  |  | $900 |
|  | Printing | Activity 1 Printing | Promotional material for volunteer acquisition, signage for event site instructions and logistics. |  |  |  |  | $1,000 |
|  |  |  |  |  |  |  | **Sub Total** | **$1,900** |
| **Other Expenses** |  |  |  |  |  |  |  |  |
|  |  | Volunteer Event Related Expenses | Tent, table, chairs, food, latrine, etc., as required to support project volunteer event deliverables and the promotion of LCCMR strategy and objecitves to citizen volunteers | X |  |  |  | $26,800 |
|  |  |  |  |  |  |  | **Sub Total** | **$26,800** |
|  |  |  |  |  |  |  | **Grand Total** | **$631,000** |

### **Classified Staff or Generally Ineligible Expenses**

|  |  |  |  |
| --- | --- | --- | --- |
| **Category/Name** | **Subcategory or Type** | **Description** | **Justification Ineligible Expense or Classified Staff Request** |
| **Travel Outside Minnesota** | Conference Registration Miles/Meals/Lodging | Acrtivity 2 travel | These conferences are to be determined during the year of presentation, but Society for Ecological Restoration Midwest-Great Lakes Chapter is one example; dissemination of information outside of Minnesota is of regional significance and funding is required to do so. |
| **Other Expenses** |  | Volunteer Event Related Expenses | Volunteer Event Related expenses will support volunteer hours needed to accomplish project deliverables and to provide education to volunteers on the ecological benefits of the project and awareness of LCCMR's commitment and funding to these projects. |

### **Non ENRTF Funds**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Category** | **Specific Source** | **Use** | **Status** | **Amount** |
| **State** |  |  |  |  |
| In-Kind | Outdoor Heritage Fund | Funding from the OHF to be used on the same project sites for restoration and enhancement activities that cannot be funded by this LCCMR grant. | Potential | $250,000 |
|  |  |  | **State Sub Total** | **$250,000** |
| **Non-State** |  |  |  |  |
| Cash | Landowner and partners combined | A variety of expenses directly related to the individual landowner or partners sites such as contracting, material purchase, or indirect expenses related to management of the projects. | Pending | $106,250 |
| In-Kind | Total of 425 volunteers at $24/hr (MN-DNR posted rate) averaging 4 hours of service per volunteer. | Restoration and enhancement volunteer hours for planting and seeding native species as well as monitoring the pollinator species on the projects. | Potential | $40,800 |
| In-Kind | GRG administrative match | GRG staff indirect administrative expense to do the work for this grant. | Secured | $34,000 |
| Cash | GRG cash match | GRG direct expenses to do the work for this grant. | Secured | $25,500 |
| In-Kind | Partner In-Kind | Landowner labor contributing to the direct execution of the projects, as well as the administrative labor going in to the project management. | Pending | $10,000 |
|  |  |  | **Non State Sub Total** | **$216,550** |
|  |  |  | **Funds Total** | **$466,550** |

## **Acquisition and Restoration**

### **Parcel List**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Name** | **County** | **Site Significance** | **Activity** | **Acres** | **Miles** | **Estimated Cost** | **Type of Landowner** | **Easement or Title Holder** | **Status of Work** |
| Anoka High School | Anoka | Turf and degraded fields at an educational institution adjacent to corridors of woodland and floodplain on the Rum River. | Restoration | 4 | - | $42,500 | Public |  | Has not begun |
| Bassett Creek Park | Hennepin | Diverse mosaic of forest, lake, and highly visited trails for turf to prairie conversion. | Restoration | 9 | - | $60,000 | Public |  | Has not begun |
| Copperfield Ponds Park | Dakota | Community park with woodland habitat focused on pollinator enhancement & restoration. | Restoration | 8 | - | $50,000 | Public |  | Has not begun |
| Creekside Park | Carver | New community park with creek and trailside habitat establishment. | Restoration | 5 | 0.75 | $68,200 | Public |  | Has not begun |
| Garlough and Marthaler Parks | Dakota | Oak savanna, woodlands and wet forest with shoreline, invasive removal and pollinator enhancement. | Restoration | 8 | 0 | $66,600 | Public |  | Has not begun |
| Henry Sibley High and Garlough Elementary | Dakota | High use trail side and open lawn turf conversions to prairie at educational institutions. | Restoration | 5 | - | $49,100 | Public |  | Has not begun |
| Hidden Falls | Ramsey | Regional park with floodplain habitat complex to get pollinator focused restoration/enhancement. | Restoration | 18 | - | $70,300 | Public |  | Has not begun |
| Lebanon Hills Regional Park | Dakota | Large mixed habitat oak savanna parkland in the midst of an urban / suburban area. | Restoration | 40 | - | $27,200 | Public |  | Has not begun |
| Linear Park | Ramsey | Utility corridor with established walking path and wetlands, turf to prairie restoration. | Restoration | 6 | - | $51,200 | Public | Northern States Power Co. | Has not begun |
| Lower Landing | Ramsey | Urban floodplain park along Mississippi Migration corridor. | Restoration | 0 | - | - | Public |  | No longer being considered |
| Spring Lake Regional Park | Scott | Lake shoreline with woodland habitat to receive pollinator ehnacement. | Restoration | 10 | - | $38,000 | Public |  | Has not begun |
| Stephen's Park | Hennepin | Mississippi shoreline park with farmland, community amenities, and river access. | Restoration | 3 | - | $20,900 | Public |  | Has not begun |
| **Totals** |  |  |  | **116** | **0.75** | **$544,000** |  |  |  |

### **Restoration**

**1. Provide a statement confirming that all restoration activities completed with these funds will occur on land permanently protected by a conservation easement or public ownership.**All restoration activities completed with these funds will occur on land permanently protected by a conservation easement or public ownership.

**2. Summarize the components and expected outcomes of restoration and management plans for the parcels to be restored by your organization, how these plans are kept on file by your organization, and overall strategies for long-term plan implementation.**Restoration plans include target community, timelines, methods, budgets and long term maintenance. These plans are filed electronically by unique project numbers and can be referenced by staff or landowner as required by the needs of the site.

**3. Describe how restoration efforts will utilize and follow the Board of Soil and Water Resources “Native Vegetation Establishment and Enhancement Guidelines” in order to ensure ecological integrity and pollinator enhancement.**All plans will follow the most recent version Board of Soil and Water Resources “Native Vegetation Establishment and Enhancement Guidelines” in order to ensure ecological integrity and pollinator enhancement.

**4. Describe how the long-term maintenance and management needs of the parcel being restored with these funds will be met and financed into the future.**Long-term maintenance and management needs of the parcel being restored with these funds become the responsibility of the landowner. Greening seeks to assist when possible.

**5. Describe how consideration will be given to contracting with Conservation Corps of Minnesota for any restoration activities.**Great River Greening contacts the Conservation Corps of Minnesota once the grant is secured to seek their interest for any restoration activities.

**6. Provide a statement indicating that evaluations will be completed on parcels where activities were implemented both 1) initially after activity completion and 2) three years later as a follow-up. Evaluations should analyze improvements to the parcel and whether goals have been met, identify any problems with the implementation, and identify any findings that can be used to improve implementation of future restoration efforts at the site or elsewhere.**Evaluations will be completed during the process including initially after activity completion and three years later as a follow-up. Evaluations will analyze improvements to the parcel and whether goals have been met, identify any problems with the implementation, and identify any findings that can be used to improve implementation of future restoration efforts at the site or elsewhere.

## **Attachments**

### **Required Attachments**

#### ***Map***

File: [a8ab0c9c-f7a.pdf](https://lccmrprojectmgmt.leg.mn/media/map/a8ab0c9c-f7a.pdf)

#### ***Alternate Text for Map***

M.L. 2021 Pollinator Central II - Great River Greening map of proposed project sites on a Minnesota county map surrounded by pictures of people and pollinators....

#### ***Financial Capacity***

File: [f95b5ec9-3f2.pdf](https://lccmrprojectmgmt.leg.mn/media/financial_capacity/f95b5ec9-3f2.pdf)

#### ***Board Resolution or Letter***

|  |  |
| --- | --- |
| **Title** | **File** |
| LCCMR ML2021 Pollinator Central II GRG Board Resolution | [f716016f-3a2.pdf](https://lccmrprojectmgmt.leg.mn/media/attachments/f716016f-3a2.pdf) |

### **Optional Attachments**

#### ***Support Letter or Other***

|  |  |
| --- | --- |
| **Title** | **File** |
| Creekside City Of Carver LCCMR ML2021 GRG | [6caf4e58-b70.pdf](https://lccmrprojectmgmt.leg.mn/media/attachments/6caf4e58-b70.pdf) |
| Little Canada Letter of Support for Great River Greening | [51ff9666-d43.pdf](https://lccmrprojectmgmt.leg.mn/media/attachments/51ff9666-d43.pdf) |
| Dakota County Letter of Support GRG | [669cb499-eb7.doc](https://lccmrprojectmgmt.leg.mn/media/attachments/669cb499-eb7.doc) |
| City of Crystal Letter of Support GRG | [d9b9db29-a90.pdf](https://lccmrprojectmgmt.leg.mn/media/attachments/d9b9db29-a90.pdf) |
| Scott County Letter of Support for Great River Greening | [fe45ace0-037.pdf](https://lccmrprojectmgmt.leg.mn/media/attachments/fe45ace0-037.pdf) |
| Great River Greening ENRTF Background Check Certification Form | [19cbd963-265.pdf](https://lccmrprojectmgmt.leg.mn/media/attachments/19cbd963-265.pdf) |
| 2021-07-06\_ENRTF Background Check Certification Form FINAL | [c2255d9a-ab7.pdf](https://lccmrprojectmgmt.leg.mn/media/attachments/c2255d9a-ab7.pdf) |

## **Difference between Proposal and Work Plan**

#### ***Describe changes from Proposal to Work Plan Stage***

Budgets and acreage totals for individual projects were evaluated for scalability and adjusted accordingly, with reductions to the professional / technical contracts, supplies, and Greening staff labor made where applicable. Volunteer and monitoring event expenses, personnel time, and impacted number of volunteers were reduced proportionately according to the scaled number of events to be held. One project was reduced to a zero budget but retained in the overall plan as a potential possibility. Non ENRTF Funds Contributed were reduced proportionately to the reduction in project size and anticipated Outdoor Heritage Fund appropriation value. A reporting schedule of Feb 1 and Aug 1 was requested and approved. The public ownership of Linear Park was confirmed and updated. The milestones were clarified to include measurable outcomes. The miles in the Garlough and Marthaler Parks parcel were successfully changed from 0.34 miles to 0 miles.

(July 8, 2021, RCT) - Background check form was completed and attached to the workplan. The University of Minnesota and Xerces Society budgets were changed to Sub-awards. Lower Landing acreage and budgets (which had already been zeroed out in the previous changes) was updated to "No longer being considered".

(July 15, 2021, RTC) - Comment 1113 - Budget lines for the Operations and Finance Directors were removed, totals were reallocated into applicable non-director staff, total personnel budget and activity budget totals remain the same. Comment 1114 - Completed Background Check Certification Form attached again with no title changes.

## **Additional Acknowledgements and Conditions:**

The following are acknowledgements and conditions beyond those already included in the above workplan:

**Do you understand and acknowledge the ENRTF repayment requirements if the use of capital equipment changes?**
 N/A

**Do you agree travel expenses must follow the "Commissioner's Plan" promulgated by the Commissioner of Management of Budget or, for University of Minnesota projects, the University of Minnesota plan?**
 Yes, I agree to the Commissioner's Plan.

**Does your project have potential for royalties, copyrights, patents, or sale of products and assets?**
 No

**Do you understand and acknowledge IP and revenue-return and sharing requirements in 116P.10?**
 N/A

**Do you wish to request reinvestment of any revenues into your project instead of returning revenue to the ENRTF?**
 N/A

**Does your project include original, hypothesis-driven research?**
 No

**Does the organization have a fiscal agent for this project?**
 No