

# **Environment and Natural Resources Trust Fund**

M.L. 2024 Approved Work Plan

### **General Information**

ID Number: 2024-071 Staff Lead: Mike Campana Date this document submitted to LCCMR: June 10, 2024 Project Title: Investigating Life History Characteristics of Minnesota Elk Project Budget: \$933,000

# **Project Manager Information**

Name: Eric Michel Organization: MN DNR - Fish and Wildlife Division Office Telephone: (507) 621-8918 Email: eric.michel@state.mn.us Web Address: https://www.dnr.state.mn.us/fishwildlife/index.html

# **Project Reporting**

Date Work Plan Approved by LCCMR: June 20, 2024

**Reporting Schedule:** June 1 / December 1 of each year.

Project Completion: December 31, 2027

Final Report Due Date: February 14, 2028

# Legal Information

Legal Citation: M.L. 2024, Chp. 83, Sec. 2, Subd. 03h

**Appropriation Language:** \$933,000 the second year is from the trust fund to the commissioner of natural resources to assess Minnesota elk herd health and genetic diversity, movements, survival, and causes of mortality and to develop a noninvasive, safer, and more accurate method to estimate population size. This appropriation is available until June 30, 2028, by which time the project must be completed and final products delivered.

Appropriation End Date: June 30, 2028

# Narrative

**Project Summary:** We will assess movements, survival, and causes of mortality of Minnesota elk while developing a non-invasive, safer method to estimate population size. This information is important for long-term management efforts.

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

Elk are a charismatic species that provide recreational opportunities for consumptive and non-consumptive users. Minnesota's elk herd is small and separated into 3 subpopulations. Limited-entry hunts are conducted annually to keep herd size within population goals established by legislative mandate. Although winter aerial surveys provide minimum population counts and thus inform tag allocation, there is no estimate of visibility bias, and they are weather dependent and dangerous to conduct. We propose exploring alternative survey techniques to improve population estimates.

There was one prior elk study conducted in Minnesota (funded by LCCMR in ML2015) where adult female elk home range size and resource use was estimated. Adult male movement patterns, resource use, and survival estimates are unknown parameters needed to understand population dynamics of this herd.

Genetic diversity is a concern for small animal populations. A proposal to relocate elk from northwest to northeast Minnesota was developed by the Fond du Lac Band of Lake Superior Chippewa and DNR. Herd size will decrease if animals are relocated. Therefore, genetic analysis of the existing herd is important to understand and identify potential genetic concerns. Establishing base line stress levels is also important to understand how relocating individuals affects chronic stress.

# What is your proposed solution to the problem or opportunity discussed above? Introduce us to the work you are seeking funding to do. You will be asked to expand on this proposed solution in Activities & Milestones.

We will capture adult male and female elk using a helicopter capture crew. We will insert vaginal implant transmitters into pregnant females to assist in subsequent capture of calves, a standard and reliable wildlife method. We will fit all captured animals with tracking collars to assess movement patterns and estimate survival rates. Using tracking collars improves our ability to determine causes of mortality (e.g., predation, disease, vehicle-collision, hunting), determine home range size and resource use, and identify migration and/or dispersal events.

We will collect hair and tissue samples at capture to assess overall health and the genetic structure of the population to determine if genetic concerns exist. We will collect fecal samples and extract DNA from each sample to identify individuals. We will then use that information in a capture-mark-recapture (CMR) framework to estimate population size. The CMR framework produces an error estimate associated with the abundance estimate, which is an improvement upon the minimum counts derived from aerial surveys. We will also use fecal samples to establish baseline stress levels prior to the potential relocation effort.

# 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?

Prior research on elk produced useful information on home range size and resource use. However, we are currently lacking information on basic vital rates, as well as an understanding of movements of adult males and the genetic composition of the herd. Understanding these basic life history traits is necessary to inform population management, particularly if FDL's relocation proposal is enacted. This project will therefore ensure the health and persistence of Minnesota's elk population for future generations, ultimately allowing for balanced management that will benefit both consumptive and non-consumptive users alike.

# **Project Location**

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

# What is the best scale to describe the area impacted by your work? Statewide

#### When will the work impact occur?

In the Future

# **Activities and Milestones**

# Activity 1: Assessing vital rates, movement patterns, herd health, and genetic diversity of Minnesota elk

#### Activity Budget: \$896,200

#### **Activity Description:**

We will contract with a helicopter capture company to capture and fit up to 25 adult females and up to 15 adult males with tracking collars from January to February 2025 and will capture and affix additional tracking collars on up to 25 adult females and up to 15 adult males from January to February 2026. We will also capture and fit tracking collars on up to 25 calves from May to June 2025 and up to an additional 25 calves from May to June 2026. We will monitor movement patterns to assess dispersal and migration events as well as potential immigration and emigration among subpopulations. The same tracking collars we will use to monitor movements will allow us to estimate survival and fecundity rates to establish baseline vital rates, which will be used to manage the herd towards the established goal via population modeling. We will collect biological samples at capture from both sexes to assess herd health and genetic diversity within the subpopulations, which will inform the proposed relocation effort of potential genetic concerns resulting from the movement of elk to northeastern Minnesota.

#### **Activity Milestones:**

| Description                                                               | Approximate        |
|---------------------------------------------------------------------------|--------------------|
|                                                                           | Completion Date    |
| Obtain IACUC Approval                                                     | December 31, 2024  |
| Capture adult female and male elk (January to February 2025)              | February 28, 2025  |
| Capture elk calves (May to June 2025)                                     | June 30, 2025      |
| Capture adult female and male elk (January to February 2026)              | February 28, 2026  |
| Ship biological samples to lab for genetic analysis and health evaluation | June 30, 2026      |
| Capture elk calves (May to June 2026)                                     | June 30, 2026      |
| Monitor elk movement and survival                                         | June 30, 2027      |
| Analyze data                                                              | September 30, 2027 |
| Submit internal MNDNR final report                                        | September 30, 2027 |

### Activity 2: Estimating abundance and assessing baseline stress levels of elk using fecal samples

#### Activity Budget: \$36,800

#### **Activity Description:**

We will use a non-invasive genetic capture-mark-recapture method to estimate elk abundance. Fresh elk fecal samples will be collected along transects in elk range and will be sent to a lab for DNA extraction and analysis. Based on the DNA results, a capture-mark-recapture method will be used to estimate current year abundance and could serve as an alternate to MNDNR's current aerial surveys used to monitor the population. Current year abundance would also be used in a population model to monitor the elk population. Fecal samples will also be used to establish baseline stress levels of this population. Cortisol is a hormone associated with stress and can be extracted from fresh feces. For this objective, real-time location data from the GPS collars will be used to identify areas of use and subsequent fecal sample collection from collared elk. These fecal samples will undergo analysis to estimate the cortisol concentrations of elk in each subpopulation. We will store samples in freezer bags, label them with the date and analysis to be completed (e.g., genetic or cortisol extraction), and will store in a -80°C freezer until samples are ready to be shipped to laboratories.

#### **Activity Milestones:**

| Description | Approximate     |
|-------------|-----------------|
|             | Completion Date |

| Collect fecal samples                                                           | April 30, 2026     |
|---------------------------------------------------------------------------------|--------------------|
| Ship fecal samples to lab for population estimation and stress analyses         | June 30, 2026      |
| Analyze Data                                                                    | June 30, 2027      |
| Compare aerial count data to genetic capture-mark-recapture abundance estimates | July 31, 2027      |
| Submit internal MNDNR final report                                              | September 30, 2027 |

**Project Partners and Collaborators** 

| Name         | Organization  | Role                                                | Receiving<br>Funds |
|--------------|---------------|-----------------------------------------------------|--------------------|
| Dr. Joseph   | University of | Administer graduate students for the project        | Yes                |
| Bump         | Minnesota -   |                                                     |                    |
|              | Twin Cities   |                                                     |                    |
| Mike Schrage | Fond du Lac   | Advise on project design and data collection        | No                 |
|              | Band of Lake  |                                                     |                    |
|              | Superior      |                                                     |                    |
|              | Chippewa      |                                                     |                    |
| Steven Dobey | Rocky         | Provide consultation and verbal support of research | No                 |
|              | Mountain Elk  |                                                     |                    |
|              | Foundation    |                                                     |                    |

# 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. The target audience for results from this research will be professionals in the fields of wildlife ecology and wildlife management. We will publish the results of this research internally with the Minnesota Department of Natural Resources via progress reports and research summaries and will send those reports directly to Tribal Biologists to disseminate. We will also publish these results in international peer-reviewed journals such as the Journal of Wildlife Management and the Journal of Applied Ecology. We will present the results from this research at state conferences such as the Minnesota State Wildlife Society Conference, regional conferences such as the Midwest Fish and Wildlife Conference, and national conferences such as the National Wildlife Society Conference. We will also engage with the media via radio and television interviews. The information gained from this research will ultimately improve elk management in Minnesota. We will acknowledge the Environment and Natural Resources Trust Fund through the use of the trust fund logo or attribution language on project print and electronic media, publications, signage, and other communications per the ENTRF Acknowledgment 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 work be funded?

This project will produce the foundational information on life history traits of elk in Minnesota necessary for long-term, sustainable management. Elk management impacts a wide range of stakeholders including residents of northwestern Minnesota, indigenous communities, agricultural producers, consumptive users, and non-consumptive users. In turn, sustainable management of this elk herd may substantially impact the current and future economics for these stakeholders in addition to impacting current and future conservation of this charismatic species.

# Budget Summary

| Category /<br>Name        | Subcategory<br>or Type | Description                                                                                    | Purpose | Gen.<br>Ineli | %<br>Bene | #<br>FTE | Class<br>ified | \$ Amount        |
|---------------------------|------------------------|------------------------------------------------------------------------------------------------|---------|---------------|-----------|----------|----------------|------------------|
|                           |                        |                                                                                                |         | gible         | fits      |          | Staff?         |                  |
| Personnel                 |                        |                                                                                                |         |               |           |          |                |                  |
| Natural                   |                        | Full-time 6-month temporary hires to help capture                                              |         |               | 45%       | 2        |                | \$148,862        |
| resource                  |                        | calves, monitor survival, conduct mortality                                                    |         |               |           |          |                |                  |
| technicians               |                        | investigations, and collect fecal samples (2 technicians needed for each FY at \$37,216 each). |         |               |           |          |                |                  |
|                           |                        |                                                                                                |         |               |           |          | Sub<br>Total   | \$148,862        |
| Contracts<br>and Services |                        |                                                                                                |         |               |           |          |                |                  |
| TBD                       | Professional           | A helicopter capture company will be contracted to                                             |         |               |           | 0.5      |                | \$100,640        |
|                           | or Technical           | help capture adult elk (40 adult elk/year for 2 years @                                        |         |               |           |          |                |                  |
|                           | Service                | \$1258/capture).                                                                               |         |               |           |          |                |                  |
|                           | Contract               |                                                                                                |         |               |           |          |                | 4                |
| Minnesota                 | Internal               | The Minnesota Department of Natural Resources will                                             |         |               |           | 0.2      |                | \$57,600         |
| Department                | services or            | be contracted with to provide a plane with staff to                                            |         |               |           |          |                |                  |
| of Natural<br>Resources   | (uncommon)             | capture (\$360/br for 80 brs)                                                                  |         |               |           |          |                |                  |
| TRD                       | Professional           | Will conduct a genetic structure analysis from                                                 |         |               |           | 2        |                | \$20 520         |
|                           | or Technical           | hiological samples to assess if there are any genetic                                          |         |               |           | 2        |                | <i>\$23,</i> 520 |
|                           | Service                | concerns with the elk herd (80 samples @                                                       |         |               |           |          |                |                  |
|                           | Contract               | \$369/sample).                                                                                 |         |               |           |          |                |                  |
| TBD                       | Professional           | Extract DNA from fecal samples to use in a population                                          |         |               |           | 2        |                | \$32,000         |
|                           | or Technical           | estimate analysis (400 samples @ \$80/sample).                                                 |         |               |           |          |                |                  |
|                           | Service                |                                                                                                |         |               |           |          |                |                  |
|                           | Contract               |                                                                                                |         |               |           |          |                |                  |
| TBD                       | Professional           | Extract cortisol from fecal samples to establish                                               |         |               |           | 2        |                | \$4,800          |
|                           | or Technical           | baseline stress levels (240 samples @ \$20/sample).                                            |         |               |           |          |                |                  |
|                           | Service                |                                                                                                |         |               |           |          |                |                  |
|                           | Contract               |                                                                                                |         |               |           |          |                |                  |
| University of             | Sub award              | Housing a graduate student (1 PhD student) and                                                 |         |               |           | 4        |                | \$100,000        |
| Minnesota -               |                        | covering the student's stipend and tuition fees                                                |         |               |           |          |                |                  |
| Twin Cities               |                        | (\$50,000/year for 2 years).                                                                   |         | -             |           |          |                |                  |
| University of             | Sub award              | Screening biological samples for exposure to diseases                                          |         |               |           | 2        |                | \$23,600         |
| Minnesota -               |                        | and parasites (130 samples @ \$120/each), necropsies                                           |         |               |           |          |                |                  |
| Twin Cities               |                        | (10 necropsies @ \$400/necropsy), and blood                                                    |         |               |           |          |                |                  |
|                           |                        | chemistries (50 samples @ \$80/sample).                                                        |         |               | 1         | 1        |                |                  |

| TBD                                  | Professional          | Adult data subscription and transmission fees                                      |                                                              |      | - |              | \$27,360  |
|--------------------------------------|-----------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------|------|---|--------------|-----------|
|                                      | or Technical          | (\$342/collar for 80 collars) for GPS collars                                      |                                                              |      |   |              |           |
|                                      | Contract              |                                                                                    |                                                              |      |   |              |           |
| TBD                                  | Professional          | Calf data subscription and transmission fees                                       |                                                              |      | - |              | \$8,650   |
|                                      | or Technical          | (\$173/collar for 50 collars across two years)                                     |                                                              |      |   |              |           |
|                                      | Service               |                                                                                    |                                                              |      |   |              |           |
|                                      | Contract              |                                                                                    |                                                              | <br> |   |              |           |
|                                      |                       |                                                                                    |                                                              |      |   | Sub<br>Total | \$384,170 |
| Equipment,<br>Tools, and<br>Supplies |                       |                                                                                    |                                                              |      |   |              |           |
|                                      | Equipment             | Adult GPS collars (\$2281/collar for 80 elk over 2 years)                          | Monitor adult male and female movements and survival.        |      |   |              | \$182,480 |
|                                      | Equipment             | Elastic belt option for males (\$56/belt for 30 males across two years).           | Allows for increasing neck size during the breeding season.  |      |   |              | \$1,680   |
|                                      | Equipment             | Calf GPS collars (\$640/collar for 50 elk across two vears).                       | Used to monitor movement and survival.                       |      |   |              | \$32,000  |
|                                      | Equipment             | UHF ID calf collar transmitter (\$247/transmitter for 50 calves across two years). | Used for assessing interactions between the calf and mother. |      |   |              | \$12,350  |
|                                      | Tools and<br>Supplies | USB to Vertex Interface                                                            | Used to change data collection schedule remotely.            |      |   |              | \$65      |
|                                      | Equipment             | Vaginal Implant Transmitters (\$243/VIT for 50 females across two years).          | Inserted into pregnant females to aid in calf captures.      |      |   |              | \$12,150  |
|                                      | Tools and             | Capture supplies, immobilization drugs, and field                                  | Supplies needed to aid in capturing and                      |      |   |              | \$10,000  |
|                                      | Supplies              | investigation biological sampling supplies                                         | immobilizing individuals during capture                      |      |   |              |           |
|                                      |                       | (\$5,000/year for two years)                                                       | and for supplies used to collect                             |      |   |              |           |
|                                      |                       |                                                                                    | biological samples at capture.                               |      |   |              | 40-0 -0-  |
|                                      |                       |                                                                                    |                                                              |      |   | Sub<br>Total | \$250,725 |
| Capital<br>Expenditures              |                       |                                                                                    |                                                              |      |   |              |           |
|                                      |                       |                                                                                    |                                                              |      |   | Sub          | -         |
| Acquisitions                         |                       |                                                                                    |                                                              |      |   | Total        |           |
| and                                  |                       |                                                                                    |                                                              |      |   |              |           |
|                                      |                       |                                                                                    |                                                              |      |   | Sub<br>Total | -         |
| Travel In<br>Minnesota               |                       |                                                                                    |                                                              |      |   |              |           |

|              | Miles/ Meals/ | Travel to field sites (fleet @ 0.94/mi, estimated                                                                                                                                                               | Travel to field sites to capture adult elk,                                                                                                                                       |  |              | \$92,400         |
|--------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------|------------------|
|              | Lodging       | 30,000 miles/year for two years), food, and lodging                                                                                                                                                             | capture calves, and investigate                                                                                                                                                   |  |              |                  |
|              |               | (\$18,000/year for two years).                                                                                                                                                                                  | for technicians and the PhD student                                                                                                                                               |  |              |                  |
|              |               |                                                                                                                                                                                                                 |                                                                                                                                                                                   |  | Sub          | \$92,400         |
|              |               |                                                                                                                                                                                                                 |                                                                                                                                                                                   |  | Total        | <i>451</i> , 100 |
| Travel       |               |                                                                                                                                                                                                                 |                                                                                                                                                                                   |  |              |                  |
| Outside      |               |                                                                                                                                                                                                                 |                                                                                                                                                                                   |  |              |                  |
| Minnesota    |               |                                                                                                                                                                                                                 |                                                                                                                                                                                   |  |              |                  |
|              |               |                                                                                                                                                                                                                 |                                                                                                                                                                                   |  | Sub          | -                |
|              |               |                                                                                                                                                                                                                 |                                                                                                                                                                                   |  | Total        |                  |
| Printing and |               |                                                                                                                                                                                                                 |                                                                                                                                                                                   |  |              |                  |
| Publication  |               |                                                                                                                                                                                                                 |                                                                                                                                                                                   |  | Sub          |                  |
|              |               |                                                                                                                                                                                                                 |                                                                                                                                                                                   |  | Total        | -                |
| Other        |               |                                                                                                                                                                                                                 |                                                                                                                                                                                   |  | Total        |                  |
| Expenses     |               |                                                                                                                                                                                                                 |                                                                                                                                                                                   |  |              |                  |
|              |               | Direct and necessary costs cover HR Support<br>(\$11,008), Safety Support (\$2,288), Financial Support<br>(\$11,524), Communication Support (\$2,123), IT<br>Support (\$28,639), and Planning Support (\$1,036) | Direct and necessary costs used to<br>support MNDNR staff needed when<br>hiring individuals and subsequently<br>supporting those individuals during the<br>duration of the study. |  |              | \$55,043         |
|              |               | Shipping Costs                                                                                                                                                                                                  | Shipping costs for mailing fecal and biological samples to the labs.                                                                                                              |  |              | \$1,800          |
|              |               |                                                                                                                                                                                                                 |                                                                                                                                                                                   |  | Sub<br>Total | \$56,843         |
|              |               |                                                                                                                                                                                                                 |                                                                                                                                                                                   |  | Grand        | \$933,000        |
|              |               |                                                                                                                                                                                                                 |                                                                                                                                                                                   |  | Total        |                  |

# Classified Staff or Generally Ineligible Expenses

| Category/Name | Subcategory or | Description | Justification Ineligible Expense or Classified Staff Request |
|---------------|----------------|-------------|--------------------------------------------------------------|
|               | Туре           |             |                                                              |

# Non ENRTF Funds

| Category  | Specific Source                            | Use                                                                                                                                                                     | Status                 | \$ Amount |
|-----------|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------|
| State     |                                            |                                                                                                                                                                         |                        |           |
| In-Kind   | Minnesota Department of Natural Resources  | MNDNR Farmland Research Group: Dr. Eric Michel, project<br>management, fieldwork, data analysis, writing, outreach, supervising<br>graduate student; 24 mos, 25% effort | Secured                | \$39,750  |
| In-Kind   | Minnesota Department of Natural Resources  | MNDNR Farmland Research Group: Tyler Obermoller, project management, fieldwork, data analysis; 24 mos, 15% effort                                                       | Secured                | \$16,500  |
| In-Kind   | Minnesota Department of Natural Resources  | MNDNR Farmland Research Group: Brian Haroldson, project management, fieldwork, outreach; 24 mos, 10% effort                                                             | Secured                | \$6,000   |
| In-Kind   | Minnesota Department of Natural Resources  | MNDNR Wildlife Health Program: Dr. Michelle Carstensen, project<br>management, health screening and necropsy support, analyses; 24 mos,<br>10% effort                   | Secured                | \$10,500  |
| In-Kind   | Minnesota Department of Natural Resources  | MNDNR Big Game Program: Dr. Barb Keller, project management, outreach; 24 mos, 5% effort                                                                                | Secured                | \$10,020  |
| In-Kind   | University of Minnesota - Twin Cities      | University of Minnesota Professor: Dr. Joseph K. Bump, research collaboration and graduate advising; 24 mos, 8.3% effort                                                | Pending                | \$18,134  |
|           |                                            |                                                                                                                                                                         | State Sub<br>Total     | \$100,904 |
| Non-State |                                            |                                                                                                                                                                         |                        |           |
| In-Kind   | Fond du Lac Band of Lake Superior Chippewa | Fond du Lac Band of Lake Superior Chippewa: Mike Schrage, project management, field work; 24 mos, <5% effort                                                            | Secured                | \$2,240   |
|           |                                            |                                                                                                                                                                         | Non State<br>Sub Total | \$2,240   |
|           |                                            |                                                                                                                                                                         | Funds<br>Total         | \$103,144 |

# Attachments

### **Required Attachments**

*Visual Component* File: 7060328a-bf5.pdf

#### Alternate Text for Visual Component

Map of northwestern Minnesota depicting the location of the three elk subpopulations. Lower left inset depicts a county map of Minnesota with a black box encapsulating the elk subpopulations in the northwestern portion of the state. Upper left inset shows a collared cow elk with her calf....

#### Supplemental Attachments

#### Capital Project Questionnaire, Budget Supplements, Support Letter, Photos, Media, Other

| Title                              | File             |
|------------------------------------|------------------|
| accepted revised Research Addendum | f4328ac1-338.pdf |

# Difference between Proposal and Work Plan

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

Dr. Benjamin Sacks and Dr. Corinne Kozlowksi were originally listed as Project Partners and Collaborators. I received quotes to run lab analyses from them, and they are some of the few individuals capable of these analyses in the country, which is why I originally listed them in my work plan. However, we will likely need to submit an RFP for these services so it is more appropriate to not list them as collaborators at this point, though they may become collaborators at a later time. We also updated the revised budget to request an additional \$14,000 to evaluate a new plane with thermal camera technology the Department of Natural Resources has obtained. We will evaluate the thermal cameras capabilities to identify newborn elk calves from aerial flights.

# 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, sale of products and assets, or revenue generation?

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? Yes

Does the organization have a fiscal agent for this project?

No

Does your project include the pre-design, design, construction, or renovation of a building, trail, campground, or other fixed capital asset costing \$10,000 or more or large-scale stream or wetland restoration?

No

Do you propose using an appropriation from the Environment and Natural Resources Trust Fund to conduct a project that provides children's services (as defined in Minnesota Statutes section 299C.61 Subd.7 as "the provision of care, treatment, education, training, instruction, or recreation to children")?

No