

**Project Title: North Dakota Envirothon**  
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**Watershed: Statewide**

<u>PROJECT TYPES</u>		<u>WATERBODY TYPES</u>		<u>NPS CATEGORY</u>	
<input type="checkbox"/>	STAFFING & SUPPORT	<input type="checkbox"/>	GROUNDWATER	<input type="checkbox"/>	AGRICULTURE
<input type="checkbox"/>	WATERSHED	<input type="checkbox"/>	LAKES/RESERVOIRS	<input type="checkbox"/>	URBAN RUNOFF
<input checked="" type="checkbox"/>	I&E	<input type="checkbox"/>	STREAMS	<input type="checkbox"/>	CONSTRUCTION
<input type="checkbox"/>	OTHER	<input type="checkbox"/>	WETLANDS	<input type="checkbox"/>	RESOURCE EXTRACTION
		<input type="checkbox"/>	OTHER	<input type="checkbox"/>	STOWAGE/LAND DISPOSAL
				<input type="checkbox"/>	HYDRO MODIFICATION
				<input type="checkbox"/>	OTHER

The goal of the North Dakota Envirothon (ND Envirothon) project is to educate student participants about natural resources and ecosystem function through an outdoor, immersive testing competition. Student's also strengthen their problem solving and communication skills through preparation and delivery of oral presentations about a current issue. Students in grades 9-12 are tasked with demonstrating their knowledge in the areas of wildlife, aquatics, soils, prairie and forestry. A focus is placed on nonpoint source pollution impacts relating to these areas.

**PROJECT DESCRIPTION:**

The ND Envirothon is a hands-on problem-solving natural resource competition for high school students. Teams are generally associated with a sponsoring school, and usually train the entire school year with their advisor or "coach" in preparation for the annual state-wide competition. Study resources in the fields of soils, aquatics, wildlife, prairie, forestry and a current environmental issue are assembled by natural resource professionals and provided to the teams. In late spring, each team has the option to select five members and one alternate to compete at the ND State Envirothon Competition.

319 Funds Requested = \$263,190  
 Match (Cash) = \$37,000  
 Match (In-kind) = \$138,460  
 Total Project Cost = \$438,650

In 1988 the Envirothon started with teams from Pennsylvania, Ohio and Massachusetts. In 2014 the Envirothon program moved to the National Conservation Foundation (NCF). NCF has a vision for a global program by 2030.

The mission of the NCF-Envirothon is to develop knowledgeable, skilled and dedicated citizens who have an understanding of natural resources and are willing and prepared to work towards achieving and maintaining a balance between the quality of life and the quality of the environment.

The Envirothon mission is accomplished by developing in young people an understanding of the principles and practices of natural resource management and how ecology works then applying those practices and principles while dealing with complex resource management decisions.

The ND Envirothon serves as a “feeder” program for the National Envirothon Program. The winning team advances to the North American Envirothon Competition held every summer.

## **2.0 Statement of need**

2.1 The ND Envirothon “increases public awareness and understanding of the sources and causes of NPS pollution as well as the feasible and sustainable solutions for addressing NPS pollutants impairing the beneficial uses of waterways” (ND NPS Management Plan Program, Section 2, goal 3) through the education of all facets of natural resources. Our curriculum includes aquatics, soils, prairie, forestry, and wildlife. Students understand the relationship of these disciplines and how each may contribute to a reduction in NPS. The program focuses on the importance of preventing nonpoint source pollution.

There is a subcommittee for each of the four core envirothon disciplines which incorporate nonpoint source pollution education into their curriculum. Per the ND Nonpoint Source Pollution Management Program Plan, Section II, Goal 3, the Soil committee teaches how soil management impacts water quality. The Soils section covers conservation practices and soil health principles in effort to teach how nonpoint source pollution in the form of agriculture chemicals can be limited at time of application. Healthy soils are an important metric for mitigating nonpoint source pollutants from being transported by wind and water erosion. The Wildlife committee teaches how pollution affects the ecosystem including sensitive animal species and provides insights on ecosystems health. The Prairie committee teaches students how to calculate cattle stocking rates and grazing distribution in an attempt to show how concentrating cattle in small areas for too long can lead to nonpoint source pollution due to overload. The prairie discipline also teaches cattle rotation, proper grazing distribution, and the importance of topography to limit nonpoint source pollution. The aquatics section teaches students how to test water for nitrates and phosphates pollutants commonly found in agricultural fertilizers. Through hands-on testing and analysis, students identify possible nonpoint source pollution sources and problem solve potential solutions. The aquatics section teaches students how to collect and categorize aquatic macroinvertebrates and use species absence/presence to understand water quality. Students learn how humans can influence their watersheds through pollution or conservation. Finally, through the forestry curriculum, students learn the importance of protecting the riparian area to limit pollution runoff into lakes and streams. Students are taught the importance of tree species diversity to maintain healthy forest ecosystems.

2.2 The ND Envirothon has held annual competitions since 2000. Over the 24-year time period, 430 teams or 2,150 high school students have competed from around the state. Please see Appendix A for the time and event schedule of the most recent in person North Dakota Envirothon Competition.

In addition to the state competition, the ND Envirothon hosts four regional envirothon competitions every fall to serve as a “kick-off” to the envirothon season. Every fall, 10-16 teams gather at each of the regional envirothons (Mouse River Loop - near Renville, Northeast - Icelandic State Park, Sheyenne River Valley - Valley City Fish Hatchery, and Lewis and Clark - Washburn). Each of these regional events includes a mini version of the state event and nearly 2-hours of training in envirothon-related topics taught by skilled natural resource professionals. These regional events are more accessible for many schools to attend and require only a 6-hour commitment. A standing goal for the Envirothon program is to expand the number of regional events to ensure students from all four corners of the State have the ability to participate.

Over the past two years, the envirothon has gained at least ten new schools. Many of these new schools have limited knowledge on the four core Envirothon disciplines. Using the study resources both students and teachers are able to gain knowledge in a fun and hands-on way. Currently there are nearly 200 teachers on the email list, which receive updates on the educational material provided by North Dakota Envirothon. Appendix B illustrates the broad reach of North Dakota Envirothon as an extracurricular activity across the state. In addition, teachers are also using the Envirothon teaching materials in their classrooms making the reach of this program much greater than those who attend the competitions. Approximately 50 past participants in the North Dakota Envirothon have gone on to environmental science careers.

More important than environmental careers is the fact that these students have all been taught the importance of protecting scarce water resources. The students are now scattered across the country where they are able to utilize their knowledge in their communities. Everything they have learned from the envirothon – from the principles of water quality to the communication skills necessary to lead their communities – can be applied. It is necessary that this education continues to assure a more knowledgeable public.

A set of resource materials for each discipline is developed annually and made available to educators and teams via the North Dakota Envirothon Website **ndenvirothon.org** each fall. Please visit **ndenvirothon.org** for a complete listing of the current resource materials.

### 3.0 Project Description

#### 3.1 Project Objectives

**Objective 1:** Develop, maintain, promote and grow the ND Envirothon program. Contract with a coordinator to develop, promote and implement the ND Envirothon Program. Coordinator will be secured as a contracted services provider to ND Envirothon a 501(c)(3). Coordinator will be responsible for all office supplies, office space, postage, in-state travel expenses, and related self-employment taxes. Activities will include distribution of study materials to participating schools, traveling to locations to promote ND Envirothon, soliciting donations and volunteer participation to support the program, coordinating and serving as a member of the ND Envirothon Committee, maintaining the official ND Envirothon website, increasing the program’s social media presence, and other duties as required to create a successful ND Envirothon program.

**Product 1.1:** Coordinator contract secured, duties performed.

**Task 1.1:** Secure coordinator contract, receive performance updates.

**Milestone 1.1:** Coordinator Contract subject to annual review: August 2025, August 2026, and August 2027

**Cost 1.1:** \$39,000 annually; \$117,000 for three years

**Product 1.2:** Increased participation in ND Envirothon program by two schools per year for three years (total of six new schools).

**Task 1.2:** Increase participation in the ND Envirothon by two schools or programs per year. Add a regional competition to the south west corner of the state. Crystal springs has a maximum team capacity of 25. Create a qualification system if more than 26 teams are interested.

**Milestone 1.2:** June 30, 2026, June 30, 2027, June 30, 2028

**Cost 1.2:** Included in Coordinator contract (Product 1.1); \$0.

**Product 1.3:** Receive local support through cash donations received by ND Envirothon.

**Task 1.3:** Receive local support from soil conservation districts and other entities.

**Milestone 1.3:** June 30, 2026, June 30, 2027, June 30, 2028

**Cost 1.3:** Included in Coordinator contract (Product 1.1); \$0. Cash match from local soil conservation districts \$1000/state event (estimate 20 teams paid for by SCD at \$50/team) and \$750/regional season (estimate 25 teams paid for by SCD at \$25/team), other possible support includes ND Game and Fish, ND Natural Resource Trust

**Product 1.4:** Contract with bookkeeper to maintain financial records of ND Envirothon and submit required reports.

**Task 1.4:** Financial records maintained, reports submitted as required.

**Milestone 1.4:** Ongoing, annually, quarterly.

**Cost 1.4:** \$5,000 annually, \$15,000 for three years.

**Product 1.5:** Provide teachers with natural resource tools

**Task: 1.5:** Each year, teams struggle with different parts of the trail test at state. Some particular areas include range clipping, water quality sampling, and soil texturing (skills needed to limit or understand nonpoint source pollution). Teachers will also be provided lesson plans, experiments, and training videos.

**Milestone 1.5:** May 2026 or May 2027

**Cost 1.5:** \$10,000 for tools

**Objective 2:** Stimulate interest in natural resources that will result in a life-long desire to make wise decisions and strengthen complex problem-solving skills particularly regarding the mitigation of nonpoint source pollution. Connect students and educators with current and former natural resource professionals to create a tangible connection between classroom study of natural resources and real-life professionals and personal situations. Provide current information on natural resource management to youth in grades 9-12.

**Product 2.1:** Coordinator and ND Envirothon Committee subcommittee assemble resource study materials to provide to teams. Updated study materials distributed to participating schools.

**Task 2.1:** Study materials updated and distributed yearly. Study materials are available on our website and include everything a team needs to review to prepare for the competition in the areas of soils, aquatics, wildlife, prairie, and forestry. Study materials include websites, books, videos, and brochures. During spring 2023 and 2024, 26 training videos were added to the Youtube Channel. These videos were prepared by committee members detailing important envirothon study resources. Many of the videos include corresponding Kahoot study quizzes or

a hands-on lesson plan for teachers to incorporate in their classroom or during envirothon practice sessions after school. Some videos include information on point source and non point source pollution and the focus being education and prevention of NPS and the importance of riparian areas.

**Milestone 2.1:** November 2026, November 2027, November 2028

**Cost 2.1:** \$450/annually to host website and create videos (\$1350 for three years); match: \$200/year in-kind donation of time to prepare videos, study materials, quizzes, and suggested exercises

**Product 2.2:** Members of the ND Envirothon Committee and associated technical groups volunteer to work one-on-one with teams throughout the school year as requested. A wide variety of professionals volunteer their time to work with advisors to prepare teams for the state competition. Committee members also create training videos for each discipline to improve team's understanding of natural resource tools and concepts. In addition, advisors work countless hours preparing teams for competition. Many advisors work an average of 1-2 hours per week preparing teams for competition. A safe estimate is 20 teams per year with advisors preparing teams for 20 weeks. This results in 350 hours of advisor time each year. The state winning team's advisor will work an additional 20-50 hours preparing and taking the team for the NCF National Competition.

**Task 2.2:** Volunteers and teachers work with teams.

**Milestone 2.2:** Ongoing

**Cost 2.2:** \$13,300/year cost; match in-kind \$13,300 in teacher and professional hours

**Product 2.3:** Host one advisors's workshop per year to distribute and discuss resource materials and connect educators to natural resource professionals. Explore other options to reach advisors and help prepare teams (potential options include: webinars, training videos, etc). Host summer training options for teachers to earn continuing education credits. These credited training sessions may be hosted every other year as demand is demonstrated. A 2-credit teacher training workshop was hosted in June of 2024. 12 teachers attended the 30-hour training sessions instructed by six of our committee members.

**Task 2.3:** Host annual teacher training and one 2-credit teacher training

**Milestone 2.3:** May 2026, May 2027, May 2028 for annual training and June 2026 or 2027 for 2-credit training course

**Cost 2.3:** \$13,000/per 2-credit training, match in-kind \$13,000 teacher time, trainer time, teacher registration fees

**Product 2.4:** Hire a social media intern specifically to assist ND Envirothon Coordinator with creation of TikTok and Youtube Shorts videos. Teachers evaluations from the past two years remarked the training videos are too long to hold student attention (videos are 15-30 minutes). In an effort to entice student's interest, the program plans to explore a shorter video format. A Pew Research study in 2023, reports 95% of teens use Youtube followed by 2/3rd of teens use TikTok. Tiktok and Youtube popularity by teens has risen since 2014 (Pew Research Center, 2023, December 11, *Teens, Social Media and Technology 2023*, Pew Research Center, October 19, 2024,

<https://www.pewresearch.org/internet/2023/12/11/teens-social-media-and-technology-2023/>).

The intern hired will be associated with a North Dakota college or university and have an interest in natural resources and media creation.

**Task 2.4:** Hire social media intern

**Milestone 2.4:** May 2026, May 2027, and May 2028 focus on videos September-May

**Cost 2.4:** \$10,000 in 2026, \$10,000 in 2027, \$10,000 in 2028 (estimating \$20/hour); exploring cash match options of \$4,360/over 3 years

**Product 2.5:** Host presentation training for our committee members. During the past couple regional envirothon competitions, students have remarked on their evaluation forms that the speakers were boring. Our committee members and presenters spend a lot of time preparing presentations; however, presenting to the current generation of high school students requires special knowledge on what motivates 9th-12th grade students.

**Task 2.5:** Host training programs every other fall for presenters. These training will be conducted by the ND Forest Service.

**Milestone:** Fall 2025 and Fall 2027

**Cost:** \$0 cash cost, \$200 In-kind match (ND Forest Service Program and time donated)

**Product 2.6:** Explore relationship with ND Future Farmers of America (FFA) and/or 4H. Some ND Envirothon curriculum overlaps with FFA and 4H; yet these students do not compete at the ND Envirothon. Other states around the country have established relationships with FFA and 4H to encourage more student participation. ND FFA has over 7500 members and 95 chapters. This number far surpasses the ND Envirothon's participation rates. Yearly the ND Envirothon only reaches around 200 students.

**Task 2.6:** Create relationships with ND FFA and/or 4H and encourage a FFA and/or 4H representative to join our ND Envirothon Committee.

**Milestone:** Fall 2025

**Cost 2.6:** \$0

**Objective 3:** Host annual ND State Envirothon Competition. Grow the state competition to maximum camp capacity. Host up to 26, five-member teams and associated coaches and volunteers including sleep and study rooms, mess hall and meals, outdoor space for trail tests, and recreation facilities for a 3-day event every May. Support the winning team to attend the North American Envirothon Competition.

**Product 3.1:** Host an annual ND State Envirothon Competition. Costs include site, meals, awards, activities, supplies, etc.

**Task 3.1:** Host annual state envirothon competition

**Milestone 3.1:** May 2026, May 2027, May 2028

**Cost 3.1:** \$50,000 in 2026, \$50,000 in 2027, \$50,000 in 2028; \$150,000 total. In Kind match of \$56,200 over 3 years and cash of \$20,000 over three years

**Product 3.2:** ND Envirothon Committee technical teams create trail test and current issue questions that offer a hands-on test of the student's understanding of natural resources and ability to problem-solve at the State Competition.

**Task 3.2:** Trail tests and current issues are prepared for each state competition. Actual questions on the aquatics tests have included: *"Nutrient pollution is considered one of America's most widespread, costly, and challenging environmental problems. What are the two nutrients of concern?"*

**Milestone 3.2:** May 2026, May 2027, May 2028

**Cost:** \$0

**Product 3.3:** Increase the number of Regional Envirothon Competitions held each fall (currently there are four established: Mouse River Loop, Northeast Regional, Sheyenne River Valley and Lewis and Clark Envirothon). Add a fifth regional competition in the state.

**Task 3.3:** Add a 5th regional Envirothon. Regional Envirothons include 2-3 hours of education stations where students learn about NPS pollution reduction related to soils, prairie, aquatics, wildlife, and forestry.

**Milestone 3.3:** October 2026 or October 2027

Cost: \$10,667/year, Cash match from local soil conservation districts paying team registration fee and donations \$667/year. In-kind volunteer match \$10,000/year.

**Product 3.4:** Provide support to the winning ND Envirothon team to attend the annual North American Envirothon Competition. The top team from the state competition represents North Dakota at the national event while learning about other nonpoint source pollution issues impacting the rest of the country and gaining new perspectives on conservation.

**Task 3.4:** Winning team receives financial support.

**Milestone 3.4:** May 2026, May 2027, May 2028

**Cost 3.4:** \$2500 for May 2026, \$2500 for May 2027, \$2500 for May 2028 (teams fundraise to pay for transportation to and from the event)

**Product 3.5:** Outline the ND science education standards into the study resources

**Task 3.5:** Identify which ND science education standards align with the ND Envirothon curriculum an effort to encourage more teachers to participate in the ND Envirothon. While the program keeps gaining more schools, there is a need to reach more by showing teachers how the curriculum aligns with teaching standards. One teacher at the recent Northeast Regional Envirothon remarked, "This is how I love to teach my students - outside, getting their hands dirty." Teachers like the envirothon once they try it out; hopefully this will encourage more to try it for a first time.

**Milestone 3.5:** Fall 2025 all study resources will include applicable education standards, fall 2026 and fall 2027 updates as curriculum changes

**Cost 3.5:** \$0

**Product 3.6:** Create a sponsor prospectus

**Task 3.6:** Create a sponsor prospectus to aid with fundraising efforts and to better promote the ND Envirothon. The ND Envirothon continues to dream big and funding is required to support these dreams.

**Milestone 3.6:** Fall 2025 prospectus finalized, fall 2026 and fall 2027 prospectus updated

**Product 3.7:** Give winning team members at the state competition \$500.

**Task 3.7:** Provide the top team at the state competition with \$500 per student. This rewards the students who put in countless hours during the school year learning from professionals, watching the training videos, and reviewing our study resources.

**Milestone 3.7:** May 2026, May 2027, May 2028

**Cost 3.7:** \$2500 for May 2026, \$2500 for May 2027, \$2500 for May 2028

#### **4.0 Coordination Plan**

**4.1 Cooperating Organizations:** The ND Envirothon is a 501(c)(3) and is advised by the ND Envirothon Committee (NDEC). The NDEC's core objectives are:

1. Develop, maintain, promote and grow the ND Envirothon program;
2. Connect student and educators with current and former natural resource professionals to create a tangible connection between classroom study of natural resources and real-life professional and personal situations; and
3. Host annual ND State Envirothon Competition.

Committee members represent the NRCS, ND Department of Water Resources, ND Game and Fish Department, ND Forest Service, ND Department of Environmental Quality, Army Corps of Engineers, Valley City State University, North Dakota State University, and Ducks Unlimited. Committee members work in teams representing the 4 Envirothon Trail Test disciplines: soils,

aquatics, forestry/prairie, and wildlife. The NDEC prepares study resources, state competition trail tests, assists ND Envirothon Coordinator with state competition planning, and provides hands-on education assistance to Envirothon teams.

The NDEC is made up of fourteen (14) members:

- Two members who are experts in, working in, or retired from, a field of Soil Science;
- Two members who are experts in, working in, or retired from, a field of Aquatic Science;
- Two members who are experts in, working in, or retired from, a field of Wildlife Science;
- Two members who are experts in, working in, or retired from, a field of Forestry or Rangeland Science;
- Two members representing ND Soil Conservation Districts;
- One member who is also the ND Envirothon Coordinator;
- One member representing the ND Envirothon;
- Two members representing environmental advocacy, conservation, education or citizen groups.

From among the members, officers are elected to serve:

- One Chairperson, who shall be responsible for developing meeting agendas in cooperation with the ND Envirothon Coordinator, announcing meetings, maintaining the NDEC membership list and contact information, and ensuring that all Technical Committee deliverables are on time, appropriate and consistent;
- One Secretary, who shall keep the official minutes of the NDEC, maintain records of attendance at all meetings, and safeguard all documents;
- One Treasurer, who, in cooperation and subject to the direction of the ND Envirothon as Fiscal Agent, will receive and disburse funds, maintain current account balances, and report regularly to the NDEC on financial matters;
- One Soils Coordinator, who shall be responsible for coordinating the Soils Technical Committee which will be made up of professionals in the field, will provide appropriate resources and study material to Teams, and develop the Soils Trail Test;
- One Aquatics Coordinator, who shall be responsible for coordinating the Aquatics Technical Committee which will be made up of professionals in the field, will provide appropriate resources and study material to teams, and develop the Aquatics Trail Test;
- One Wildlife Coordinator, who shall be responsible for coordinating the Wildlife Technical Committee which will be made up of professionals in the field, will provide appropriate resources and study material to teams, and develop the Wildlife Trail Test;
- One Prairie (Forestry & Rangeland) Coordinator, who shall be responsible for coordinating the Prairie Technical Committee which will be made up of professionals in the fields, will provide appropriate resources and study material to teams, and develop the Prairie Trail test; and
- One Current Issue Coordinator, who shall be responsible for assembling a Technical Committee appropriate to the Current Issue who will provide appropriate resources and study material to teams, and develop the Current Issue Presentation and Current Issue Scenario.

**4.2 Local Support:** The ND Envirothon receives cash donations from non-federal agencies including the ND Association of Soil Conservation Districts, ND Game and Fish, ND Natural Resource Trust and local soil conservation districts. The ND Envirothon continues to seek out other funding opportunities. ND Envirothon teams receive local Soil Conservation District (SCD) sponsorship, support, and education assistance to help prepare teams for the state competition. Local SCD's help promote the program with new and prospective teachers. Barnes, Stutsman, and Cass County Soil Conservation Districts have financially supported this program since its inception. During spring 2024, the Stutsman County SCD created an educational video describing what a SCD is and how to connect with a local SCD. Other local SCD financial



supporters include: LaMoure, Pembina, Cavalier, Stark, Oliver, Grand Forks, and Burleigh Co SCD.

Public involvement is an essential component of a successful ND Envirothon Program. The program strives to connect students and educators with current and former natural resource professionals to create a tangible connection between classroom study of natural resources and real-life professional and personal situations. Over 75 volunteers from across the state (natural resource professionals and laypersons), come together to facilitate the annual state and regional competitions serving as trail guides, timers, and judges.

#### **4.3 Other Program Coordination**

The ND Envirothon also has committee members representing Project WET and Prairie Waters (both 319 financial applicants). The ND Envirothon helps to spread their curriculum through regional and state training efforts as well as educational videos.

**4.4 Similar Activities:** ND Eco-Ed is a hands-on, problem-solving environmental education program. The students are divided into groups and rotated through 5 required stations dealing with wetlands, woodlands, water quality, soils, and grasslands – each linked to water quality problems and solutions. The sessions are facilitated by professionals who have the most up-to-date information and teaching tools. These sessions are usually followed by a wildlife program or a Project TREES presentation. The students attend during classroom hours and are accompanied by their classroom teachers and parent/chaperones. Eco-Ed is for grades 6-8. Project TREES is for grades K-6. The ND Envirothon is a continuation of both Eco-Ed and Project TREES for students in grades 9-12. All three projects work to increase students' understanding of natural resources.

#### **5.0 Evaluation and Monitoring Plan**

**5.1 Evaluation Plan:** The successes of events is evaluated throughout the year with general evaluation forms for students, teachers, and volunteers. These evaluations are reviewed after each regional and state event with committee members. Based on feedback, modifications are made to adjust future events.

In addition, subcommittees responsible for each envirothon discipline, review trail test scores to understand where more education is needed to further student understanding of their discipline. This past fall at the NE Regional Envirothon, teams attended education stations first and then took the trail test. The trail test scores were reviewed to understand where more trainings are needed.

NDEC also reviews the scores of the top team from North Dakota at nationals every year to compare to the rest of the country. At the summer 2024 event, the ND represented team scored 99% on the aquatics test. This shows the dedication the aquatics committee has put into their test and study materials the past several years to make sure students understand the aquatics discipline.

#### **Appendix A - Competition Schedule**

#### **Appendix B - Map of schools that have competed in the Envirothon**

#### **Appendix C - Budget**

#### **Appendix D - Milestones**

## Welcome to the 2024 North Dakota Envirothon

Thank you to our host Crystal Springs Camp and all of our sponsors.

- Note: If you need assistance, please go to the registration table in the Dining Hall or speak with a committee member wearing a maroon envirothon t-shirt.
- Please go to the dining hall if you need medical assistance.
- **Reminder - no cell phones between 8:00 am and 6 pm on Thursday and between 7:50 and 3:00 pm on Friday. If a volunteer catches a student with their cell phone, they will be disqualified.**
- No girls allowed in boys dorm and no boys allowed in girls dorm (except Friday during presentation prep). The dining hall and activity center is always open to study/hang out.
- Please return the green lanyard after your Friday presentation.

### Wednesday, May 8, 2024

- 5:00 pm Registration - DINING HALL **teams**, **advisors**, **volunteers**
- 6:30 pm Evening Meal - **teams**, **advisors**, **volunteers** DINING HALL
- 7:00 pm Tools Training with Natural Resource Professionals - **teams**, **advisors**, **volunteers** DINING HALL
- 7:00 pm Trail Guide Training - meet at the DINING HALL (HB, LD)
- 7:30 pm Ice Breaker - **teams**, **advisors**, **volunteers** DINING HALL
- 8:30 pm Snack - **teams**, **advisors**, **volunteers** DINING HALL
- 10:30 pm Adjourn to assigned dorms

### Thursday, May 9, 2024

- 7:30 am Breakfast - **teams**, **advisors**, **volunteers** DINING HALL  
Registration - DINING HALL give advisor cell phone after breakfast
- 8:00 am Welcome, Tools/Equipment Briefing - **teams**, **advisors**, **volunteers** DINING HALL  
Trail Guide Team Assignment - DINING HALL
- 8:30 am Trail Guides grab team snacks
- 9:00 am Trail Test - **teams** and trail guides
- 10:00 am Forestry Activity - **Advisors** 1ST FLOOR BOY'S DORM

Sakakawea Trail		Lewis and Clark Trail	
Stop # 1	Team # 1	Stop # 1	Team # 13
Stop # 2	Team # 2	Stop # 2	Team # 14
Stop # 3	Team # 3	Stop # 3	Team # 15
Stop # 4	Team # 4	Stop # 4	Team # 16
Stop # 5	Team # 5	Stop # 5	Team # 17
Stop # 6	Team # 6	Stop # 6	Team # 18
Stop # 7	Team # 7	Stop # 7	Team #19
Stop # 8	Team # 8	Stop # 8	Team #20
Stop # 9	Team # 9	Stop # 9	Team #21
Stop # 10	Team #10	Stop # 10	Team #22
Stop # 11	Team #11	Stop # 11	Team #23
Stop # 12	Team # 12	Stop # 12	Team #24

Stop # 13	Alternate A	Stop # 13	Alternate B
Stop # 14		Stop # 14	

- 11:20 am First Trail Test Ends, teams relax until lunch  
Trail Guides turn in team tests DINING HALL
- 12:00 pm Lunch - teams, advisors, volunteers DINING HALL
- 1:00 pm Trail test - teams and trail guides

Sakakawea Trail		Lewis and Clark Trail	
Stop # 1	Team # 13	Stop # 1	Team # 1
Stop # 2	Team # 14	Stop # 2	Team # 2
Stop # 3	Team # 15	Stop # 3	Team # 3
Stop # 4	Team # 16	Stop # 4	Team # 4
Stop # 5	Team # 17	Stop # 5	Team # 5
Stop # 6	Team # 18	Stop # 6	Team # 6
Stop # 7	Team #19	Stop # 7	Team # 7
Stop # 8	Team #20	Stop # 8	Team #8
Stop # 9	Team #21	Stop # 9	Team #9
Stop # 10	Team #22	Stop # 10	Tea n#10
Stop # 11	Team #23	Stop # 11	Team #11
Stop # 12	Team #24	Stop # 12	Team # 12
Stop # 13	Alternate B	Stop # 13	Alternate A
Stop # 14		Stop # 14	

- 1:00 pm Prairie/Aquatics/Soils/Wildlife - Advisors 1ST FLOOR BOY'S DORM
- 3:20 pm Second Trail Test Ends Trail Guides turn in team tests DINING HALL;  
Trail Test Grading - committee members
- 3:30 pm Snacks - teams, advisors, volunteers DINING HALL
- 4:00 pm 2024 Current Issue Presentation "Renewable Energy" - teams and trail guides CHAPEL
- 4:00 pm Advisors Take Trail Test - meet in DINING HALL (Aquatics & Soils)
- 5:00 pm Teams relax until evening meal
- 6:00 pm Evening Meal - teams, advisors, volunteers DINING HALL (return cell phone)
- 7:00 pm Group Photo teams, advisors, volunteers BELL OUTSIDE DINING HALL
- 8:00 pm Karaoke/Basketball - teams, advisors, volunteers ACTIVITY CENTER;  
Snacks - ACTIVITY CENTER
- 11:00 pm Adjourn to dorm

**Friday, May 10, 2024 Wear Envirothon T-shirts**

- Pack up before breakfast (girls & boys dorm rooms used for oral prep)
- 7:30 am Breakfast - teams, advisors, volunteers DINING HALL
- Registration - DINING HALL volunteer judges (7:30-9:30)
- Advisors - let registration know if you need to-go meals for your drive home

7:50 am Announcements - DINING HALL (give advisor cell phones)  
 8:00 am Oral Presentation Question - **teams** and **trail guides** DINING HALL  
 8:15 am **Advisors** Review Team's Trail Test - **advisors** 1st floor boys dorm (JK, BH)  
 8:15 am - Oral Presentation Preparation in assigned rooms (2 hours 15 minutes) **teams**  
 10:30 am and **trail guides**  
 9:00 am 2025 Current Issue Presentation - **advisors** 1ST FLOOR BOY'S DORM (BH)  
 9:30 am Judge Training - **judges** CHAPEL (AP)  
 10:30 am Snack - **teams**, **advisors**, **volunteers** DINING HALL  
 11:30 **Teams** can review trail tests when not presenting - ACTIVITY CENTER (KT,  
 -1:30 pm MR, MM)  
 10:30 am Current Issue Prep Teams: 1 - 2 - 3 - 4 - 5 - **teams** and **trail guides**  
 11:00 am First Round Current Issue Presentations - **teams**, **trail guides**, **judges**

Teams:	1	2	3	4	5
Room:	A	B	C	D	E

**Team** photos after team presentations in DINING HALL

11:00 am Current Issue Prep Teams 6 - 7 - 8 - 9 - 10 - **teams** and **trail guides**  
 11:30 am Second Round Current Issue Presentations - **teams**, **trail guides**, **judges**

Teams:	6	7	8	9	10
Rooms:	A	B	C	D	E

**Team** photos after team presentation in DINING HALL

11:45 - Lunch - **teams**, **advisors**, **volunteers** DINING HALL (**teams** 11,12,13,14, 15  
 1pm need to eat first)

12:15 pm Current Issue Prep Teams: 11 - 12 - 13 - 14 - 15 - **teams** and **trail guides**  
 12:45 pm Third Round Current Issue Presentations - **team**, **trail guides**, **judges**

Teams:	11	12	13	14	15
Rooms:	A	B	C	D	E

**Team** photos after team presentation in DINING HALL

12:45 pm Current Issue Prep Teams: 16 - 17 - 18 - 19 - 20 - **teams** and **trail guides**  
 1:15 pm Fourth Round Current Issue Presentations - **team**, **trail guides**, **judges**

Teams:	16	17	18	19	20
Rooms:	A	B	C	D	E

**Team** photos after team presentation in DINING HALL

1:15 pm  
1:45 pm

Current Issue Prep Teams: 21-22-23-24-25 - teams and trail guides  
Fifth Round Current Issue Presentations - **team**, trail guides, **judges**

Teams:	21	22	23	24	
Rooms:	A	B	C	D	E

**Team** photos after team presentation in DINING HALL

3:00 pm  
3:30 pm  
4:00 pm  
4:30 pm  
5:00 pm

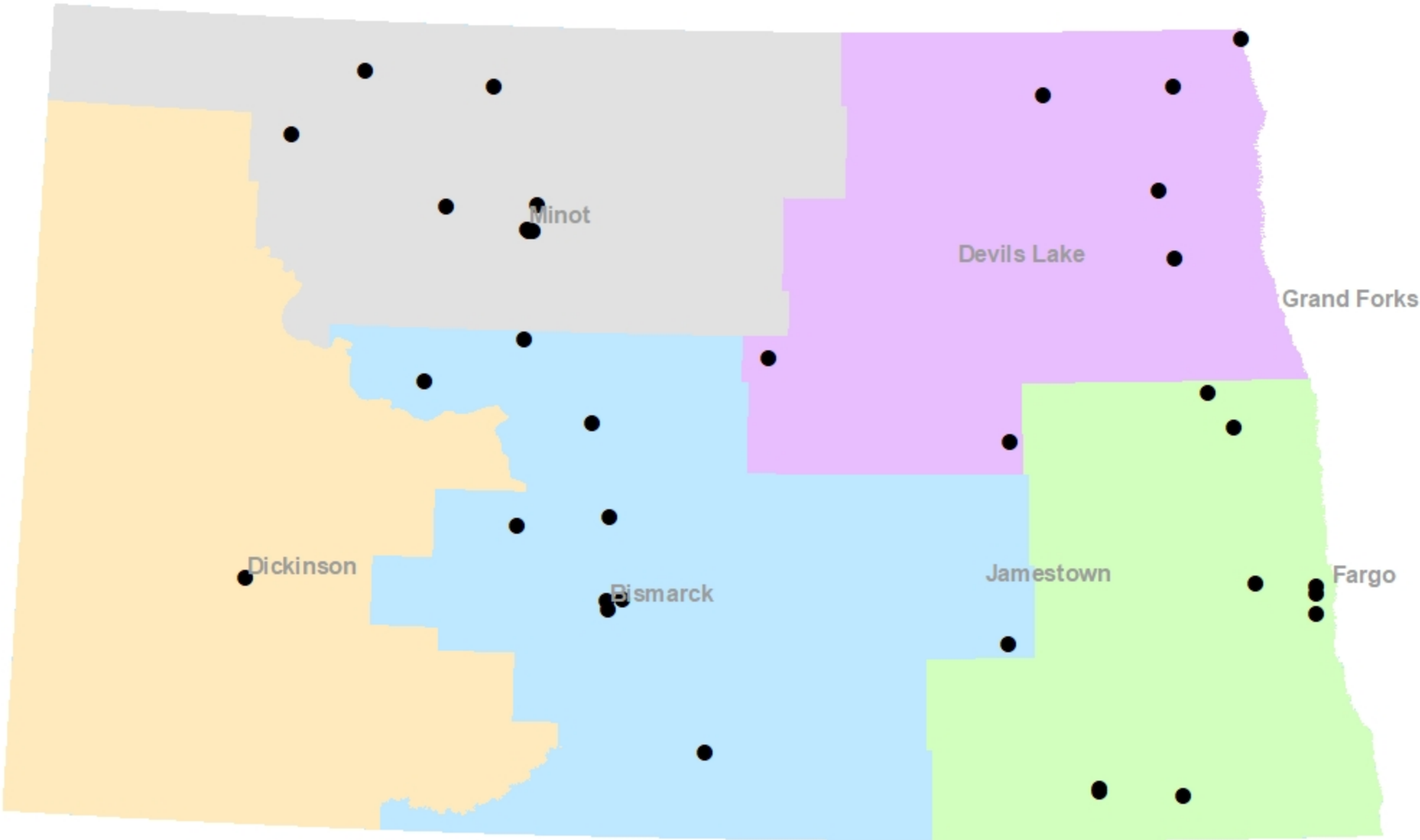
Snacks, Announce Top Three Teams - **teams**, **advisors**, **volunteers** DINING  
Cell phones returned  
Team A Final Current Presentation - **teams**, trail guide, **final judges** CHAPEL  
Team B Final Current Presentation - **teams**, trail guide, **final judges** CHAPEL  
Team C Final Current Presentation - **teams**, trail guide, **final judges** CHAPEL  
Awards Ceremony - **teams**, **advisors**, trail guides, **volunteers**, **judges** CHAPEL

**Thank You!** to our **SPONSORS**

**North Dakota Envirothon**

**Barnes County SCD**      **ND Association of Soil Conservation Districts**      **South McLean CO SCD**  
**Burke CO SCD**      **ND Conservation District Employee Association**      **Stark CO SCD**  
**Burleigh CO SCD**      **NDASCD Auxiliary**      **Ward CO SCD**  
**Oliver CO SCD**           **Wells CO SCD**

# Envirothon - Locations of Past School Participants



**Legend**

● Schools	SCD Region 1 (Northeast)	SCD Region 2 (Sheyenne)	SCD Region 3 (Mouse River Loop)	SCD Region 5
ND_Cities_Major			SCD Region 4 (Lewis and Clark)	

**Detailed Budget (Section 319/Non-Federal) North Dakota Envirothon**

	Year 1	Year 2	Year 3	Total Costs	Cash and In-kind Match	319 Funds
Objective 1: Develop, maintain, promote and grow the North Dakota Envirothon program.						
Coordinator Contract	\$39,000	\$39,000	\$39,000	\$117,000	\$0	\$117,000
Bookkeeper Contract	\$5,000	\$5,000	\$5,000	\$15,000	\$0	\$15,000
Increase number of schools by 2/year	\$0	\$0	\$0	\$0	\$0	\$0
Provide teachers with tools	\$0	\$10,000	\$0	\$10,000	\$0	\$10,000
Subtotals	\$44,000	\$54,000	\$44,000	\$142,000	\$0	\$142,000
Objective 2: Stimulate interest in natural resources that will result in a life-long desire make wise decisions and strengthen complex problem-solving skills particularly regarding water quality and pollution control.						
Copy and assemble resources	\$1,000	\$1,000	\$1,000	\$3,000	\$0	\$3,000
Website, training video production	\$450	\$450	\$450	\$1,350	\$600	\$750
In-classroom time with student (teacher and professional)	\$13,300	\$13,300	\$13,300	\$39,900	\$39,900	\$0
ND Envirothon teacher training - credit option		\$13,000		\$13,000	\$10,000	\$3,000
Hire social media intern	\$10,000	\$10,000	\$10,000	\$30,000	\$4,360	\$25,640
Committee training session	\$200		\$200	\$400	\$400	\$0
FFA or 4H relationship	\$0	\$0	\$0	\$0	\$0	\$0
Subtotals	\$24,950	\$37,750	\$24,950	\$87,650	\$55,260	\$32,390
Objective 3: Host annual North Dakota State Envirothon Competition.						
Competition Camp Rental	\$50,000	\$50,000	\$50,000	\$150,000	\$76,200	\$73,800
Competition materials (water bottles, shirts, materials, tests)	\$4,000	\$4,000	\$4,000	\$12,000	\$12,000	\$0
increase number of regional competitions to 5	\$10,667	\$10,667	\$10,667	\$32,000	\$32,000	\$0
Registration Fee for National Envirothon	\$2,500	\$2,500	\$2,500	\$7,500	\$0	\$7,500
ND science standards	\$0	\$0	\$0	\$0	\$0	\$0
Fundraising prospectus	\$0	\$0	\$0	\$0	\$0	\$0
Team awards	\$2,500	\$2,500	\$2,500	\$7,500	\$0	\$7,500
Subtotals	\$69,667	\$69,667	\$69,667	\$209,000	\$120,200	\$88,800
Total for all Objectives/Tasks						
Total 319/Non-federal Budget	\$138,617	\$161,417	\$138,617	\$438,650	\$175,460	\$263,190

