

Blackfoot Geography Map Project Proposal

PROJECT OVERVIEW

PROJECT NAME	Blackfoot Geography Map
PROJECT ORGANIZER	89 North LLC
89 NORTH LLC BACKGROUND	89 North LLC was founded by Kendall Edmo (Blackfeet) in 2021, with the goal to assist tribal communities in understanding their spatial data and build Geographic Information Systems (GIS) capacity. Edmo has over 9 years of experience with GIS, mapping, and database management. She received her Master of Science in Earth Sciences degree at Montana State University in 2024, where her research focused on integrating Traditional Blackfoot knowledge and geospatial analysis to better understand the spatial and temporal dynamics of ancestral Blackfoot land use.
PROJECT GOAL	89 North LLC will develop and deliver a digital, interactive map showcasing Blackfoot traditional lands, including geographic place names in the Blackfoot language. This map will serve as an educational tool for students, helping them understand the deep connections between the Blackfoot people and their ancestral homelands. This project will foster a greater understanding of Blackfoot geography, history and language within the Browning Public School's BNAS curriculum.

PROJECT OBJECTIVES

- 1 Create a culturally relevant interactive map of Traditional Blackfoot Territory that is accessible online.
- 2 Incorporate geographic place names in the Blackfoot language to preserve and promote linguistic heritage.
- 3 Gather and embed GIS data related to geographic, historical, and cultural landmarks within the map.
- 4 Develop a comprehensive teacher guide to facilitate access to the interactive map and provide strategies for integrating it into the curriculum.
- 5 Empower students by utilizing the interactive map as a dynamic tool for learning about the Blackfoot knowledge system using advanced technology.

PROJECT MILESTONES

#	MILESTONE	WEEK 1					WEEK 2					WEEK 3					WEEK 4									
		1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5					
1	Research cultural/historical information; gather GIS data, format data into GPX files	█	█	█	█	█																				
2	Create interactive map; upload GIS data to map, incorporate Blackfoot place names, embed map with cultural information						█	█	█	█	█	█	█	█	█	█										
3	Develop guide for educators for integrating map into curriculum; consult w/ director of BNAS for feedback; deliver final map																█	█	█							

DETAILED SCOPE OF WORK

Research Ethnohistorical Literature: Conduct thorough research into Blackfoot geographic place names, conducting literature review of ethnohistorical texts and archival material including names and locations of major rivers, mountains, lakes, and other geographic features

Collaborate with Blackfeet NAS Director: Will consult with Blackfeet NAS Director for accurate translations of Blackfoot Place Names

GPS Data Collection: In cases where place names are tied to physical landmarks or geographic features, collects precise GPS coordinates

Data compilation: once research and Latitude and Longitude coordinates are collected, organize information into a structured format to create a CSV or GPX file. The fields in the file will include Blackfoot place name (Blackfoot language), Latitude, Longitude, and Site Description with historical or cultural information.

Data Validation: Ensure all GPS data and place names are accurate and correspond to the correct locations. Cross-reference research sources to ensure the historical accuracy of each entry.

Uploading GIS Data to ArcGIS Online: Access ArcGIS Online and log into account. Create new map project specifically for this project titled "Blackfoot Geography Map," add data and stylize the basemap, configure the pop-ups and adjust scale of the map

Develop Comprehensive Guide for Educators: With the guidance of BNAS, develop a guide for educators to integrate map into curriculum

Consult with Director of BNAS: Present map and teacher guide to BNAS, get feedback and make additional adjustments

Deliver Final Map: Deliver the URL Address/Link to the BNAS Director to share with educators

PROJECT BUDGET

CATEGORY	DESCRIPTION	HOURS	PRICE/HR	BUDGETED TOTAL
Research/ Data Gathering	Conduct ethnohistorical research relating to Blackfoot place names, format data with GPS coordinates to GPX files	15	\$ 40.00	\$ 600.00
Interactive Map Design	Upload data and create map in ArcGIS Online;	65	\$ 40.00	\$ 2600.00
Educational Materials Development	Develop comprehensive guide for teachers, get feedback form BNAS, make additional adjustments if needed	12	\$ 40.00	\$ 480.00
		##	\$ 0.00	\$ 00.00
TOTAL				\$ 3680.00

PROJECT CONTACT

NAME	ORGANIZATION	PROJECT ROLE	TITLE	PHONE #	EMAIL ADDRESS
Kendall Edmo	89 North LLC	Project Manager	Geospatial Analyst/ Founder	406-370-0107	89north@gmail.com

PROJECT VARIANCE

If there is a significant variance in the scope of work that requires additional time beyond the hours originally estimated, it will be necessary to adjust the compensation accordingly. Any additional hours worked due to changes or expansions in the scope of the project will be billed at the agreed-upon hourly rate. Prior approval will be sought before proceeding with any work that exceeds the original scope and timeline.