Statement of Qualifications

Two Bears Environmental Consulting (TBEC)

An 8(a) certified, 100% Economically Disadvantaged Woman-Owned Small Business (EDWOSB), and DBE founded in Alaska in 2015- providing a full range of Climate Geomatics and Environmental services.

We specialize in combining geomatics, future climates, and social vulnerabilities to monitor, mitigate, and adapt to environmental changes. Our work is innovative and proactive. We inform decision-makers of the likely environmental impacts on a project or asset, including future monetary and environmental losses and liabilities. We identify key issues and community concerns early in the life of a project so that potential adverse infrastructure, socioeconomic, and cultural impacts can be addressed and mitigated, resulting in resilient communities and sustainable development.

Although several environmental consulting companies provide permitting and compliance support, TBEC is unique in that it provides this support in the context of a changing climate and traditional knowledge. We specialize in geomatics, the collection, analysis, and interpretation of data relating to the earth's surface, combined with forward looking climate to understand future impacts and liabilities, reducing potential monetary losses, and increasing resilience. Our Climate Statements are based on a Human-Centered Design to benefit environmentally threatened communities; these communities contribute the least to climate change yet experience the greatest impacts.

TBEC specializes in environmental and professional services

CLIMATE SERVICES

- Projected Climate Impacts
- Disaster Planning & Mitigation
- Socioeconomic & Cultural Vulnerabilities
- Integrated Climate Adaptation and Resilience Impact Statements (ICARIS)
- Integrated Knowledge Systems
- Actionable Data
- Traditional Ecological Knowledge
- Hazard Assessments
- Community Vulnerability
- Climate Impact Statements (CIS)

COMMUNITY SERVICES & GRANT WRITING

- Finding and Evaluating Grant opportunities
- Providing accessible list of needs and documents required
- Organizing information
- Attend information sessions on behalf of the client
- Support each client through the grant process
- Completing and submitting grant forms
- Updating or developing community plans
- Create outline of community vision in 2, 5 and 10 years

ECOSYSTEM SERVICES, PERMITTING & COMPLIANCE

- Environmental Impact Statements
- Environmental Assessments
- NEPA Process

DATA COLLECTION & ANALYSIS

- Unmanned Aerial Vehicles with LiDAR
- Spatial Analysis & GIS
- Desktop Analysis
- Inspections
- CAD/ Drafting

NAICS #541620: Environmental Consulting Services
NAICS #541360: Geophysical Surveying and Mapping Services
NAICS #541340: Drafting Services
NAICS #541712: Research & Development in the Physical, Engineering, and Life Science

SBA 8(a) Certified Date: 12/17/2020
DUNS: 08-003-2825
EIN: 47-5362429
CAGE: 7H0H9

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UNIQUE CLIMATE REPORTS

TBEC's distinctive integrated climate risk reports were developed as part of an NSF SBIR Phase I and Phase II grant.

CLIMATE IMPACT STATEMENTS (CIS): Climate Impact Statements address the impacts of the environment on the asset (e.g., infrastructure, clean water, food security, supply chain, etc.) and seeks to minimize climate related failure or damage to existing or new developments and community concerns, all while increasing resilience of ecosystem services. The CIS can be used to modify building criteria to reduce risks to infrastructure. As future climates change, the CIS is updated, consequently it is a living document, providing changes in the magnitude and timing of potential risks over the next century.

INTEGRATED CLIMATE ADAPTATION AND RESILIENCE IMPACT STATEMENT (ICARIS): ICARIS starts and ends with community and Traditional Ecological Knowledge to coproduce a climate risk assessment and resiliency plan that is specific to the needs and objectives of the local community. An ICARIS takes the CIS one step further by including information on how the local community currently uses their natural resources and how their use might change under various potential climate scenarios. The community determines whether the changes present a vulnerability or an opportunity. An ICARIS can inform the selection of new building sites or relocation sites. ICARIS aids in developing and monitoring risk thresholds (risks move from acceptable to unacceptable). By understanding the potential timing of critical thresholds, it is possible to respond promptly, potentially avoiding system failures and monetary losses. ICARIS also informs benefit-cost analysis of potential actions to increase resilience. For example, a client cannot change a potential storm event, but their actions can alter the storm's impact. The actionable data combined with scenario analysis and the needs of the client informs planning decisions as a function of future climates, biophysical sensitivities, and management actions to increase community resilience. ICARIS empowers climate-impacted communities to move from reactive to proactive climate resilient strategies.

CLIENT RELATIONSHIPS

As a small company, we take great pride in the partnerships we have created; affiliating with NASA's Arctic-Boreal Vulnerability Experiment and participating in the National Science Foundation's Innovation Corps Program. We believe the relationships we create now, will continue into future engagements, and bring working friendships for years to come.

TBEC can act and work on short notice by creating these personal relationships with every person and company we do business with. Creating these relationships lets us act quickly and respond swiftly. If a job requires talent that we may not have on staff, we are able to locate and hire due to our flexibility and competitive work environment. TBEC is committed to having both strong client and employee relationships.

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