

**Indian Environmental General Assistance Program
SAMPLE SHORELINE EROSION WORKPLAN COMPONENT**

Tribe: Shoreline Erosion

Region: Region 10

Work Plan Period Begin: 10/1/2019

End: 9/30/2020

Work Plan Component Number: 3

Work Plan Component Title: Building Capacity to Address Shoreline Erosion

Capacity Indicator(s) Developed: C.3.14, C.3.19, C.3.20

Personnel: ENVIRONMENTAL COORDINATOR AND ASSISTANT

Long-Term Outcome(s):

- Tribal members will be educated on how to adapt to changing climate and be more resilient. LEO data becomes part of our documentation on long-term change.
- Community awareness: Tribal and community members will understand the impacts of climate change and what the IGAP Program is doing to address it.
- Erosion issues in the community will be assessed.
- Environmental changes will be captured by drone footage, time lapse camera footage, LEO observation mapping.

Intermediate Outcome(s):

- Community involvement in the collection of environmental changes through oral knowledge and photos.
- Knowledge will be gained on how to reduce effects of erosion.
- Council and members will better understand the potential impacts to human health and the environment from change around the region.

Estimated Component Cost: \$6,250

Estimated Work Years: .20

COMMITMENTS		ESTIMATED TASK COST (optional)	END DATE	OUTPUTS AND DELIVERABLES
1.1	Use LEO's observational science tool to document what is happening with (gradual sea ice reduction, draining of lake community landmark, graves, loss of infrastructure, etc). We will learn about different climate change issues around the state and what other communities are doing to address these problems.		9/30/2020	Participate in Monthly LEO calls to hear about and discuss erosion issues. Submit LEO observations to the network as issues are observed and include in quarterly reports to EPA.

1.2	Hold at least 4 conference calls with US Army Corps of Engineers, ANTHC Threatened Communities Program, and Coastal Hazards staff at the State of Alaska Division of Geological & Geophysical Surveys on shoreline mapping, modeling, and forecasting of future impacts.		9/30/2020	Learn about and compile agency resources, tools, and available programs to help us model and predict erosion. Apply for available funding and/or submit a letter of request for assistance to the US Army Corps of Engineers.
1.3	Review ANTHC model for Climate and Health Assessments: https://anthc.org/what-we-do/community-environment-and-health/center-for-climate-and-health/climate-health-3/ Develop our own process and protocol based on this model, including an interview process. Identify climate/erosion changes in the community through the collection of photographs and traditional knowledge. Interview and collect data that is currently being observed, such as erosion and alder growth.		8/10/2020	Submit interview protocol, interview questions; interview results summary to Council and EPA. Complete Climate and Health Assessment and submitted to Council and EPA. Post on Facebook or other social media platform.
1.4	Visit sites of interest that have beachside erosion, impacts of climate change. Take photos 2 different times a year of these sites and show comparisons.		9/30/2020	Develop a presentation. Share photos and information with community members during a special public meeting on erosion.
1.5	Attend training sessions to gather knowledge about shoreline erosion, such as ANTHC's 7 Generations training, ATCEM and the Tribal Environmental Leaders Summit. Submit trip report to Tribal Council.		5/31/2020	Include trip reports in progress report to EPA.
1.6	Purchase a game camera or use FAA camera to capture impacts using time lapse camera imagery (4 images per day). Measure and predict rate of change and air temperature.		9/30/2020	Record rate of change and air temperature with data sheets. Summarize in quarterly reports.
1.7	Hire a consultant to take a fly over video to capture major erosion events that occur during the year. Work with youth to develop an environmental <i>Climate Change and Erosion</i> video on erosion using time lapse footage. Involve Elders & youth.		6/20/2020	Submit fly over video and written summary to Council and EPA. Share with the community. Submit climate video to Council and EPA. Share with the community.