

**Arctic Strategic Transportation and Resources (ASTAR)**

**FY2020 Request: \$10,100,000**

**Reference No: 62649**

**AP/AL:** Appropriation

**Project Type:** Deferred Maintenance

**Category:** General Government

**Location:** Statewide

**House District:** Statewide (HD 1-40)

**Impact House District:** Statewide (HD 1-40)

**Contact:** Cheryl Lowenstein

**Estimated Project Dates:** 07/01/2019 - 06/30/2024

**Contact Phone:** (907)465-5655

**Brief Summary and Statement of Need:**

The Arctic Slope Transportation and Resources project (ASTAR) is a collaborative effort initiated by the Department of Natural Resources (DNR) to form a cooperative group of stakeholders in the region to guide the development of future infrastructure pr

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<b>Funding:</b>	<u>FY2020</u>	<u>FY2021</u>	<u>FY2022</u>	<u>FY2023</u>	<u>FY2024</u>	<u>FY2025</u>	<u>Total</u>
1004 Gen Fund	\$5,000,000						\$5,000,000
1063 NPR Fund	\$5,100,000						\$5,100,000
<b>Total:</b>	<b>\$10,100,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$10,100,000</b>

<input type="checkbox"/> State Match Required	<input type="checkbox"/> One-Time Project	<input type="checkbox"/> Phased - new	<input type="checkbox"/> Phased - underway	<input checked="" type="checkbox"/> On-Going
0% = Minimum State Match % Required		<input type="checkbox"/> Amendment	<input type="checkbox"/> Mental Health Bill	

**Operating & Maintenance Costs:**

	<u>Amount</u>	<u>Staff</u>
Project Development:	0	0
Ongoing Operating:	0	0
One-Time Startup:	0	
<b>Totals:</b>	<b>0</b>	<b>0</b>

**Prior Funding History / Additional Information:**

**Project Description/Justification:**

The Arctic Slope Transportation and Resources project (ASTAR) is a collaborative effort initiated by the Department of Natural Resources (DNR) to cooperate with stakeholders in the region in order to guide the development of future infrastructure projects to best benefit the communities of the North Slope, identify material sites critical to resource development, and to provide access to areas that may require remediation from previous exploration activities.

DNR has effectively spent and allocated \$7,300.0 appropriated for ASTAR (FY2018-FY2020) to execute key objectives and facilitate the state's participation in complementary planning efforts. This project will fund the next phase of ASTAR, to develop resources that empower Arctic communities.

**Major Milestones and Deliverables to Date**

- Cumulative Benefit Analysis (CBA) Report
- Economics and Socioeconomics Digital Library and Report
- Data Management Plan
- Terrain unit mapping and identified geohazards for Area 1 (of 3)

The next phase of ASTAR is to develop resources that empower Arctic communities. This project will support natural outgrowth of ASTAR through continued engagement with the federal land managers and delivery of resource information critical to community infrastructure planning, proposal, and development:

- State of Alaska participation as a Cooperating Agency during BLM's development of a programmatic Environmental Impact Statement (EIS) for exploration and development activities in the Coastal Plain (\$750.0). Future work in the Coastal Plain should contemplate and support potential infrastructure needs for the community of Kaktovik.
- State of Alaska participation as a Cooperating Agency during the BLM's revision of the 2012 National Petroleum Reserve-Alaska (NPR-A) Integrated Activity Plan (IAP) EIS and 2013 Record of Decision (\$750.0). The current plan imposes substantial surface occupancy restrictions ("no new non-subsistence related infrastructure"), including in Northeastern NPR-A. Subsequent National Environmental Policy Act (NEPA) analysis should include an alternative that identifies known transportation corridors and allows NPR-A communities to build infrastructure where needed.
- Lake survey in the Coastal Plain (\$1,600.0) to collect information about water depths and fish presence, which will inform water needs for ice road and ice pad construction. Temporary ice infrastructure allows for seasonal transportation associated with construction operations, as well as resource development activities (exploration, development drilling, and oil production) in areas with limited or nonexistent gravel roads.
- Sand and gravel survey in the Coastal Plain (\$2,500.0). Because it is expensive to transport sand and gravel, identifying where construction-quality sand and gravel resources are located helps communities estimate costs of new infrastructure.
- Coastal hazards assessment for North Slope communities and facilities (\$1,100.0). Identify areas near North Slope coastal communities and development centers that may be vulnerable to flooding and coastal erosion. Providing data on erosion rates and flooding along the coast will support development projects, community connectivity, public safety, and community resilience.
- Petroleum geology fieldwork from eastern NPR-A to Coastal Plain to provide regional and reservoir-scale geologic data for the Nanushuk, Torok and associated units (\$3,300.0). Industry relies on publicly available geological information when deciding where to invest in seismic, exploration, and development activities. Because Alaska is a resource-rich state, making this information available can attract investment.

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Title	Amount	Running Total	Detail
Water Resources for Development: ANWR 1002 Area	\$ 1,600.0	\$ 1,600.0	Characterize near-surface water resources. These are the priority target with
Water Resources for Development: Colville-to-Canning Area	\$ 3,000.0	\$ 4,600.0	Determine surface/subsurface water resources. At least one barrel of water per barrel of future production.
Water Resources for Development: NPRA	\$ 3,000.0	\$ 7,600.0	Determine surface/subsurface water resources. At least one barrel of water per barrel of future production, maintaining future production.
Sand & Gravel Resources for Communities, Infrastructure, Transportation, and Development: ANWR 1002 Area	\$ 2,500.0	\$ 10,100.0	Extend the ASTAR sand and gravel resources to ANWR. Sand and gravel resources for development projects.