

# **State of Alaska FY2022 Governor's Operating Budget**

## **Department of Natural Resources Geological & Geophysical Surveys Component Budget Summary**

**Component: Geological & Geophysical Surveys**

**Contribution to Department's Mission**

Conduct geological and geophysical surveys to determine the potential of Alaskan land for production of metals, minerals, fuels, and geothermal resources, the potential geologic hazards to buildings, roads, bridges, and other installations and structures; and conduct such other surveys and investigations as will advance knowledge of the geology of the state. (AS 41.08)

**Major Component Accomplishments in 2020**

Published 166 new geologic maps and reports, served 1,043,036 digital data and publication files via free downloads from the Division of Geological and Geophysical Surveys (DGGs) website ([dggs.alaska.gov](http://dggs.alaska.gov)). DGGs responded personally to more than 3,000 geologic information requests. DGGs ended the year with more than 4,331 followers on Twitter, 530 subscribers to the division's news feed, and nearly 941 followers on its Facebook page.

In August 2019, DGGs Mineral Resources geologists completed the fieldwork for the 1,900-square-mile Eastern Tanacross geologic mapping project, the first Earth Mapping Resources Initiative (MRI) field project. The DGGs Eastern Tanacross project targets a region of the state with 1) inadequate geologic mapping and 2) the potential to host deposits of rare earth elements and other critical minerals. Results are beginning to be published through the DGGs website; data released in FY2020 include the geochemical data report, digital field notes and magnetic susceptibility measurements, and two preliminary drafts of the map.

Published 40 new reports and peer-reviewed publications on geologic hazards. Key publications include updated tsunami inundation maps for Homer and Seldovia; regional tsunami assessments for False Pass, Perryville, Shemya; Version 2 of the Alaska Volcano Observatory geochemical database; and a report detailing the chronology and impacts of the 2016-2017 Bogoslof eruption.

DGGs launched an immediate response to the Barry Arm unstable slope in Prince William Sound that was identified in May 2020 and is a potential source for a damaging tsunami if the slope fails. We continue our role as co-lead on a multi-agency (federal and state) science and technical response team tasked with assessing the current state of the slope.

The DGGs Coastal Hazards Program was part of an Alaska Mapping Executive Council (AMEC) collaborative team that completed and released the Alaska Coastal Mapping Strategic Plan. The plan is an outline of goals to guide federal investment in coastal mapping to address President Trump's November 2019 memo on mapping the shoreline of Alaska.

Completed more than a dozen airborne lidar surveys, covering over 3,500 square miles, to collect high-resolution elevation data needed to assess geologic hazards and support resource assessments all over the state, including 70 square miles evaluated on the active volcanoes Makushin and Shishaldin.

As part of a sand and gravel resource assessment in support of the Arctic Strategic and Transportation Resources Project (ASTAR), DGGs contracted with ASRC Energy Services to complete terrain unit and geohazards mapping covering an area of ~51,500 mi<sup>2</sup> (~83,000 km<sup>2</sup>) across Alaska's North Slope. Detailed mapping, which was lacking in this area, guided our summer 2019 helicopter-supported fieldwork over an area of ~8,900 mi<sup>2</sup> (~14,300 km<sup>2</sup>) in the northeast National Petroleum Reserve—Alaska.

DGGs Alaska Volcano Observatory (AVO) staff responded to volcanic unrest at Cleveland, Semisopchnoi, Shishaldin, Veniaminof, Great Sitkin volcanoes. Response activities include issuance of volcanic eruption alerts in

collaboration with USGS and UAF colleagues, 24/7 seismic and satellite monitoring, detailed record keeping of eruptions and impacts, ash sample collection for hazard analysis, and maintaining current information on the public website, Facebook and Twitter feeds.

DGGS Alaska Volcano Observatory (AVO) staff managed procurement and logistics that included 60 days of helicopter-based fieldwork in remote Alaska from the Cook Inlet to the eastern Aleutians. Field operations included contracting 78 days of the marine research vessel R/V Steadfast and the shipment of over 138,000 lbs. of cargo. A \$4.7M USGS/DGGS cooperative agreement grant, to develop a robust system of digital monitoring instruments and help provide advanced warning of volcanic activity made this work possible.

Released many digital geologic datasets through its new, online GeoPortal at <https://geoportal.dggs.dnr.alaska.gov/portal>. The Alaska DGGS GeoPortal allows users to share, discover, and access geologic data, maps, and interactive applications and is part of the State of Alaska Spatial Data Infrastructure managed by the Alaska Geospatial Council, which includes the Alaska DNR Open Data Site.

Completed multiyear collaboration with Geologic Information Center (GIC) and geophysics staff to archive and upgrade historical airborne geophysical surveys; 35 surveys, formerly only available on paper, were digitally re-released during FY2020. Users can now download modern digital formats of DGGS's entire collection of airborne geophysical surveys.

There were 1,112 visitors to the Geologic Materials Center (GMC) in FY2020, which is slightly lower than the previous year (1,475) due to COVID-19. Prior to the start of the global pandemic, GMC staff provided 44 facility tours to the public, industry, academia, and government agencies.

Submitted successful proposal to the U.S. Geological Survey's STATEMAP program to partially fund bedrock geological mapping in the prospective Rooftop Ridge area southeast of Umiat and continued planning and preliminary permitting for drill sites associated with major DGGS-USGS North Slope shallow coring program (fieldwork postponed due to COVID-19).

Published a large structure-from-motion survey of the Nanushuk and Torok Formations at Slope Mountain for use as a base for mapping reservoir-scale sand bodies and modeling their seismic response to better understand the oil reservoir sands in the subsurface at Willow and Pikka.

## **Key Component Challenges**

Conducting fieldwork during the COVID-19 pandemic is a challenge that may persist into FY2022.

Ensuring awareness of the value provided to the state from incorporating publicly available geologic data into decisions related to Alaska's public safety, economy, and natural resource developments.

Improving the quality, completeness and usability of statewide geological and geophysical data continues to challenge the division's ability to improve Alaska's attractiveness for exploration investment relative to other political jurisdictions.

A reliance on low-cost internal computing solutions, coupled with state computing criteria, creates a challenge to retain staff and provide services; a challenge that could require considerable fiscal resources.

Anticipated large fluctuations in non-state funding will vary the division's workload considerably. Managing this varying workload efficiently will be a challenge, and additional human resources will be required to maintain efficient operations.

As a result of adopting a fee-for-service model, along with distributing seismic tax credit data at the GMC, increased administrative tasks and client requests for information are challenging geological staff's ability to curate the collection, maintain the quality of its growing inventory, and serve visitors.

Supplying critical and timely information on geologic hazards to assist threatened communities and infrastructure remains a key challenge.

Maintaining the demand for GMC services and data will continue to be a challenge, due to the COVID-19 pandemic and its effect on global oil prices and related industry investment.

### **Significant Changes in Results to be Delivered in FY2022**

Accelerate publication of recently acquired geologic data, focusing on airborne geophysics, new and historic geologic mapping and sample geochemistry under the Earth MRI program to recruit mineral explorers to Alaska.

Complete development of a database schema for geologic map data to enable future publication of a digital geologic database for the state.

Focus on publication of recently acquired petroleum geology data in the Cook Inlet region and North Slope. These reports will help evaluate oil and gas potential from conventional and unconventional resource plays.

Expand and complete an evaluation of construction materials and geologic hazards in the National Petroleum Reserve in Alaska for the ASTAR project, in support of community connectivity and resource development.

Expand efforts to cover the 1002 area of the Arctic National Wildlife Refuge (ANWR) and include water resources with available funding.

Strengthen partnerships with federal and state agencies, universities, and local communities to provide scientific assessments of natural hazards, such as landslides, coastal erosion, and tsunamis, to help augment the safety and well-being of potentially affected areas and residents and deliver pertinent information to city planners and community leaders.

Enhance the return on investment into the state's archive of geologic materials by developing new services, agreements, and increased inventory at the GMC.

Continue emphasis on publication of legacy data and projects, making information already collected publicly available.

Continue the drive to publish online reports, maps, and digital datasets available for download and focus less on physically printed media.

Enhance coordination with other state agencies to deliver geothermal data.

Initiate a human health geology program to collate, coordinate, and distribute data on natural hazards to human health, such as radon, arsenic, and heavy metals.

Broaden services offered for fees by the division in response to new equipment and data acquisition.

Most planned fieldwork has been reduced in scale or postponed. Staff created a COVID-19 fieldwork safety plan for when travel is necessary (i.e., response to natural hazards) or other statutory business.

### **Statutory and Regulatory Authority**

AS 41.08

**Contact Information**

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Geological & Geophysical Surveys Personal Services Information				
Authorized Positions			Personal Services Costs	
	FY2021 Management Plan	FY2022 Governor		
Full-time	40	40	Annual Salaries	4,543,787
Part-time	9	11	COLA	43,763
Nonpermanent	10	10	Premium Pay	0
			Annual Benefits	2,542,602
			<i>Less 3.69% Vacancy Factor</i>	<i>(262,952)</i>
			Lump Sum Premium Pay	0
<b>Totals</b>	<b>59</b>	<b>61</b>	<b>Total Personal Services</b>	<b>6,867,200</b>

Position Classification Summary					
Job Class Title	Anchorage	Fairbanks	Juneau	Others	Total
Accounting Technician II	0	1	0	0	1
Administrative Assistant I	0	1	0	0	1
Administrative Assistant III	0	1	0	0	1
Administrative Officer II	0	1	0	0	1
Analyst/Programmer IV	0	2	0	0	2
Analyst/Programmer V	1	0	0	0	1
Chief Geologist	0	1	0	0	1
Division Operations Manager	0	1	0	0	1
Geological Scientist I	0	1	0	0	1
Geologist I	2	3	0	0	5
Geologist II	2	5	0	0	7
Geologist III	0	4	0	0	4
Geologist IV	2	11	0	0	13
Geologist V	1	2	0	0	3
Gis Analyst I	0	1	0	0	1
Gis Analyst II	0	1	0	0	1
Gis Analyst IV	0	1	0	0	1
Large Project Coordinator	1	0	0	0	1
Micro/Net Tc I	0	1	0	0	1
Nat Res Speciii	0	1	0	0	1
Nat Res Techiii	2	0	0	0	2
Natural Resource Technician I	1	0	0	0	1
Natural Resource Technician II	2	1	0	0	3
Petroleum Geologist I	0	1	0	0	1
Publications Specialist II	0	1	0	0	1
Student Intern	3	1	0	0	4
Systems Programmer II	0	1	0	0	1
<b>Totals</b>	<b>17</b>	<b>44</b>	<b>0</b>	<b>0</b>	<b>61</b>

**Component Detail All Funds**  
**Department of Natural Resources**

**Component:** Geological & Geophysical Surveys (1031)  
**RDU:** Fire Suppression, Land & Water Resources (602)

Non-Formula Component

	FY2020 Actuals	FY2021 Conference Committee	FY2021 Authorized	FY2021 Management Plan	FY2022 Governor	FY2021 Management Plan vs FY2022 Governor	
71000 Personal Services	5,843.6	6,769.8	6,769.8	6,551.7	6,867.2	315.5	4.8%
72000 Travel	141.7	408.3	417.8	343.3	393.3	50.0	14.6%
73000 Services	1,292.9	1,504.5	1,504.5	1,797.1	2,102.1	305.0	17.0%
74000 Commodities	152.0	438.4	438.9	438.9	683.9	245.0	55.8%
75000 Capital Outlay	12.2	4.8	4.8	4.8	4.8	0.0	0.0%
77000 Grants, Benefits	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
78000 Miscellaneous	0.0	0.0	0.0	0.0	0.0	0.0	0.0%
<b>Totals</b>	<b>7,442.4</b>	<b>9,125.8</b>	<b>9,135.8</b>	<b>9,135.8</b>	<b>10,051.3</b>	<b>915.5</b>	<b>10.0%</b>
<b>Fund Sources:</b>							
1001 CBR Fund (UGF)	0.0	921.4	923.9	923.9	0.0	-923.9	-100.0%
1002 Fed Rcpts (Fed)	1,801.6	2,134.7	2,134.7	2,134.7	2,645.6	510.9	23.9%
1004 Gen Fund (UGF)	3,643.6	2,764.0	2,771.5	2,771.5	3,712.4	940.9	33.9%
1005 GF/Prgm (DGF)	633.6	1,122.5	1,122.5	1,122.5	1,499.7	377.2	33.6%
1007 I/A Rcpts (Other)	184.4	470.7	470.7	470.7	471.3	0.6	0.1%
1061 CIP Rcpts (Other)	1,099.8	1,505.4	1,505.4	1,505.4	1,514.3	8.9	0.6%
1108 Stat Desig (Other)	79.4	207.1	207.1	207.1	208.0	0.9	0.4%
<b>Unrestricted General (UGF)</b>	<b>3,643.6</b>	<b>3,685.4</b>	<b>3,695.4</b>	<b>3,695.4</b>	<b>3,712.4</b>	<b>17.0</b>	<b>0.5%</b>
<b>Designated General (DGF)</b>	<b>633.6</b>	<b>1,122.5</b>	<b>1,122.5</b>	<b>1,122.5</b>	<b>1,499.7</b>	<b>377.2</b>	<b>33.6%</b>
<b>Other Funds</b>	<b>1,363.6</b>	<b>2,183.2</b>	<b>2,183.2</b>	<b>2,183.2</b>	<b>2,193.6</b>	<b>10.4</b>	<b>0.5%</b>
<b>Federal Funds</b>	<b>1,801.6</b>	<b>2,134.7</b>	<b>2,134.7</b>	<b>2,134.7</b>	<b>2,645.6</b>	<b>510.9</b>	<b>23.9%</b>
<b>Positions:</b>							
Permanent Full Time	38	40	40	40	40	0	0.0%
Permanent Part Time	2	8	8	9	11	2	22.2%
Non Permanent	15	10	10	10	10	0	0.0%

**Change Record Detail - Multiple Scenarios with Descriptions**  
**Department of Natural Resources**

**Component:** Geological & Geophysical Surveys (1031)  
**RDU:** Fire Suppression, Land & Water Resources (602)

Scenario/Change Record Title	Trans Type	Totals	Personal Services	Travel	Services	Commodities	Capital Outlay	Grants, Benefits	Miscellaneous	Positions		NP
										PFT	PPT	
***** Changes From FY2021 Conference Committee To FY2021 Authorized *****												
<b>Conference Committee</b>												
	ConfCom	9,125.8	6,769.8	408.3	1,504.5	438.4	4.8	0.0	0.0	40	8	10
1001 CBR Fund		921.4										
1002 Fed Rcpts		2,134.7										
1004 Gen Fund		2,764.0										
1005 GF/Prgm		1,122.5										
1007 I/A Rcpts		470.7										
1061 CIP Rcpts		1,505.4										
1108 Stat Desig		207.1										
<b>Extend Seismic Hazards Safety Commission (HB197) (Sec2 Ch14 SLA2020 P40 L23 (HB205))</b>												
	FisNot	10.0	0.0	9.5	0.0	0.5	0.0	0.0	0.0	0	0	0
1001 CBR Fund		2.5										
1004 Gen Fund		7.5										
This legislation updates AS 44.66.010(a)(8) to extend the term of the Alaska Seismic Hazard Safety Commission by eight years to June 30, 2028.												
<b>Subtotal</b>		<b>9,135.8</b>	<b>6,769.8</b>	<b>417.8</b>	<b>1,504.5</b>	<b>438.9</b>	<b>4.8</b>	<b>0.0</b>	<b>0.0</b>	<b>40</b>	<b>8</b>	<b>10</b>
***** Changes From FY2021 Authorized To FY2021 Management Plan *****												
<b>Add Geologist II (10-2239) for Alaska Volcano Network</b>												
	PosAdj	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	0
Add a seasonal full-time Geologist II, range 17, located in Fairbanks, to support the federally funded Alaska Volcano Observatory's monitoring network. This position acts as a coordinator who will manage the complex fuel, shipping, storage, helicopter, and marine vessel logistics, while providing advanced knowledge of geographic information system (GIS), petrography, and stratigraphy needed to compile and synthesize field data to increase safety and efficiency of field projects.												
<b>Align Authority with Anticipated Expenditures</b>												
	LIT	0.0	-218.1	-74.5	292.6	0.0	0.0	0.0	0.0	0	0	0
Transfer authority from personal services and travel to cover anticipated services costs. The remaining personal services and travel authority is sufficient to cover anticipated expenditures.												
<b>Subtotal</b>		<b>9,135.8</b>	<b>6,551.7</b>	<b>343.3</b>	<b>1,797.1</b>	<b>438.9</b>	<b>4.8</b>	<b>0.0</b>	<b>0.0</b>	<b>40</b>	<b>9</b>	<b>10</b>
***** Changes From FY2021 Management Plan To FY2022 Governor *****												
<b>FY2022 Salary Adjustments</b>												
	SalAdj	40.5	40.5	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
1002 Fed Rcpts		10.9										



**Change Record Detail - Multiple Scenarios with Descriptions**  
**Department of Natural Resources**

**Component:** Geological & Geophysical Surveys (1031)  
**RDU:** Fire Suppression, Land & Water Resources (602)

Scenario/Change Record Title	Trans Type	Totals	Personal Services	Travel	Services	Commodities	Capital Outlay	Grants, Benefits	Miscellaneous	Positions		NP
										PFT	PPT	
1004 Gen Fund		17.0										
1005 GF/Prgm		2.2										
1007 I/A Rcpts		0.6										
1061 CIP Rcpts		8.9										
1108 Stat Desig		0.9										
FY2022 1% COLA for ASEA/General Government (GG/GP/GY/GZ): \$40.5												
<b>Increase Federal Receipt Authority</b>												
	Inc	500.0	200.0	50.0	125.0	125.0	0.0	0.0	0.0	0	0	0
1002 Fed Rcpts		500.0										
Additional federal receipts for the increased number of high-profile and critical projects that are funded at the federal level, including the Alaska Volcano Observatory (AVO) with United States Geological Survey (USGS), National Aeronautics and Space Administration (NASA) Snow Observation Network, Environmental Protection Agency, and the Bureau of Land Management.												
A one-time funding increase was approved in the Legislative Budget and Audit meeting that was held on August 27, 2020. This adds the federal receipts into the division's base operating budget.												
<b>Add Geologist II (10-#246) to Support Arctic Strategic Transportation and Resources (ASTAR)</b>												
	PosAdj	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	1	0
Add one part time Geologist II (PCN 10-#246), range 17 to support the Arctic Strategic Transportation and Resources (ASTAR) capital project.												
This project will address the highest priority data gaps identified during the ASTAR project that the division can address in a timely and cost-efficient manner. This project and this position will support natural outgrowth of ASTAR and empower Alaska's Arctic communities through continued engagement with federal land managers and delivery of resource information critical to community infrastructure planning, proposal, and development.												
<b>Fund Source Adjustment of CBRF to UGF</b>												
	FndChg	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0	0	0
1001 CBR Fund		-923.9										
1004 Gen Fund		923.9										
Replace Constitutional Budget Reserve Fund (CBRF) used as a one-time funding mechanism in FY2021.												
<b>Transfer Authority from Personal Services to Services for Anticipated Costs</b>												
	LIT	0.0	-50.0	0.0	50.0	0.0	0.0	0.0	0.0	0	0	0
The remaining personal services authority is sufficient to cover anticipated expenditures.												
<b>Increase Authority for Core Samples Storage in Geologic Materials Center</b>												
	Inc	375.0	125.0	0.0	130.0	120.0	0.0	0.0	0.0	0	1	0

**Change Record Detail - Multiple Scenarios with Descriptions**  
**Department of Natural Resources**

**Component:** Geological & Geophysical Surveys (1031)  
**RDU:** Fire Suppression, Land & Water Resources (602)

Scenario/Change Record Title	Trans Type	Totals	Personal Services	Travel	Services	Commodities	Capital Outlay	Grants, Benefits	Miscellaneous	Positions		
										PFT	PPT	NP
1005 GF/Prgm		375.0										
<p>Hilcorp, an oil and gas exploration and production company, will relocate its collection of core and other geologic materials to the Geologic Material Center (GMC) in Anchorage. Additional authority is necessary for the anticipated increase in revenue generated for the storage and management of this exquisite rock collection. The increase in the facility's use will exceed current staff capacity and a seasonal Geologist I position, and associated authorization will be necessary to help manage the facility and the increased activity at the GMC.</p> <p>Add Permanent Seasonal Geologist I (10-#247), range 15, located in Anchorage.</p>												
	<b>Totals</b>	<b>10,051.3</b>	<b>6,867.2</b>	<b>393.3</b>	<b>2,102.1</b>	<b>683.9</b>	<b>4.8</b>	<b>0.0</b>	<b>0.0</b>	<b>40</b>	<b>11</b>	<b>10</b>

**Line Item Detail (1676)**  
**Department of Natural Resources**  
**Travel**

**Component:** Geological & Geophysical Surveys (1031)

Line Number	Line Name		FY2020 Actuals	FY2021 Management Plan	FY2022 Governor
2000	Travel		141.7	343.3	393.3
Object Class	Servicing Agency	Explanation	FY2020 Actuals	FY2021 Management Plan	FY2022 Governor
<b>2000 Travel Detail Totals</b>			<b>141.7</b>	<b>343.3</b>	<b>393.3</b>
2000	In-State Employee Travel	In-state transportation costs for employee travel relating to administration, conventions and meetings, boards, and commissions.	101.2	226.8	226.8
2001	In-State Non-Employee Travel	Alaska Seismic board travel.	9.0	10.0	10.0
2002	Out of State Employee Travel	Out of state transportation costs for employee travel relating to administration, conventions and meetings, boards and commissions.	30.0	106.0	156.0
2003	Out of State Non-Employee Travel	Transportation costs for travel relating to meetings and boards for non-employees.	1.5	0.5	0.5

**Line Item Detail (1676)**  
**Department of Natural Resources**  
**Services**

**Component:** Geological & Geophysical Surveys (1031)

Line Number	Line Name		FY2020 Actuals	FY2021 Management Plan	FY2022 Governor
3000	Services		1,292.9	1,797.1	2,102.1
Object Class	Servicing Agency	Explanation	FY2020 Actuals	FY2021 Management Plan	FY2022 Governor
<b>3000 Services Detail Totals</b>			<b>1,292.9</b>	<b>1,797.1</b>	<b>2,102.1</b>
3000	Education Services	Training, educational conferences, and agency memberships.	23.3	25.0	25.0
3001	Financial Services	Management and consulting services.	20.3	20.0	20.0
3003	Information Technology	Software leases, licensing, and maintenance.	96.6	125.0	125.0
3004	Telecommunications	Local, long distance, and cellular telephone charges, television, data/network, telecommunication equipment, and other wireless charges from outside vendors.	31.2	32.0	32.0
3006	Delivery Services	Freight, courier services, and postage.	39.2	32.0	40.0
3007	Advertising and Promotions	Advertising, promotions, and legal notices.	0.9	1.7	1.7
3008	Utilities	Electricity, heating fuel, water, sewage, and disposal services.	0.1	0.0	0.0
3009	Structure/Infrastructure/Land	Surveys, contracts, and professional services associated with field data collection, storage improvements for core samples and assessment of old Geologic Materials Center fuel tanks.	153.2	188.4	553.2
3010	Equipment/Machinery	Helicopter, fixed wing aircraft, office equipment maintenance.	702.9	749.5	681.7
3011	Other Services	State office travel fees and contractual services for mapping.	11.9	15.0	15.0

**Line Item Detail (1676)**  
**Department of Natural Resources**  
**Services**

**Component:** Geological & Geophysical Surveys (1031)

Object Class		Servicing Agency	Explanation	FY2020 Actuals	FY2021 Management Plan	FY2022 Governor
<b>3000 Services Detail Totals</b>				<b>1,292.9</b>	<b>1,797.1</b>	<b>2,102.1</b>
3012	Inter-Agency Federal Indirect Rate Allocation	NatRes - Administrative Services (424)	Indirect cost allocation for services provided by Administrative Services.	124.7	200.0	200.0
3016	Inter-Agency Economic Development	EnvCon - Department-wide	Reimbursable services agreement to provide Environmental Protection Agency (EPA) Radon Community Assistant Program and the Alaska Geological Material Center support.	0.0	20.0	20.0
3016	Inter-Agency Economic Development	Gov - Department-wide	Reimbursable services agreement with the Governor's Office for OMB Budget Analyst Support.	1.7	0.0	0.0
3016	Inter-Agency Economic Development	M&VA - Department-wide	Reimbursable services agreement to provide tsunami mapping.	0.0	0.0	0.0
3016	Inter-Agency Economic Development	NatRes - Oil & Gas (439)	Reimbursable services agreement with Oil & Gas for seismic data employee support.	0.0	150.0	150.0
3016	Inter-Agency Economic Development	NatRes - Public Information Center (2441)	Reimbursable services agreement with Public Information Center for office and personnel support.	1.5	0.0	0.0
3016	Inter-Agency Economic Development	Univ - Department-wide	Reimbursable services agreement with the University of Alaska Fairbanks for the State Indoor Radon Grant.	12.0	8.0	8.0
3017	Inter-Agency Information Technology Non-Telecommunications	Admin - Department-wide	Reimbursable services agreement with DOA for Adobe and Microsoft licenses.	6.9	10.0	10.0
3018	Inter-Agency Information Technology Telecommunications	Admin - Department-wide	Reimbursable services agreement with DOA for telecommunication - phones.	0.0	5.0	5.0
3021	Inter-Agency Mail	Admin - Department-wide	Reimbursable services agreement with DOA for centralized mail services chargeback.	0.7	0.5	0.5
3022	Inter-Agency Human Resources	Admin - Department-wide	Reimbursable services agreement with DOA for human resources	7.8	1.5	1.5

**Line Item Detail (1676)**  
**Department of Natural Resources**  
**Services**

**Component:** Geological & Geophysical Surveys (1031)

Object Class	Servicing Agency	Explanation	FY2020 Actuals	FY2021 Management Plan	FY2022 Governor	
<b>3000 Services Detail Totals</b>			<b>1,292.9</b>	<b>1,797.1</b>	<b>2,102.1</b>	
		chargeback.				
3023	Inter-Agency Building Leases	Admin - Department-wide	Reimbursable services agreement with DOA for office space lease costs.	0.0	150.0	150.0
3024	Inter-Agency Legal	Law - Department-wide	Reimbursable services agreement with Law for regulations review.	0.4	1.0	1.0
3026	Inter-Agency Insurance	Admin - Department-wide	Reimbursable services agreement with DOA for risk management, and property insurance.	7.0	15.9	15.9
3027	Inter-Agency Financial	Admin - Department-wide	Reimbursable services agreement with DOA for state payroll (HRM) and accounting (IRIS & ALDER) systems chargeback.	21.9	18.0	18.0
3028	Inter-Agency Americans with Disabilities Act Compliance	Admin - Department-wide	Reimbursable services agreement with DOA for the Americans with Disabilities Act (ADA) chargeback.	0.4	0.3	0.3
3037	State Equipment Fleet	Trans - Department-wide	State equipment fleet vehicle usage.	28.3	28.3	28.3

**Line Item Detail (1676)**  
**Department of Natural Resources**  
**Commodities**

**Component:** Geological & Geophysical Surveys (1031)

Line Number	Line Name		FY2020 Actuals	FY2021 Management Plan	FY2022 Governor
4000	Commodities		152.0	438.9	683.9
Object Class	Servicing Agency	Explanation	FY2020 Actuals	FY2021 Management Plan	FY2022 Governor
<b>4000 Commodities Detail Totals</b>			<b>152.0</b>	<b>438.9</b>	<b>683.9</b>
4000	Business	General business supplies such as office consumables, furniture, and computer equipment, along with handheld GPS units, maps, and satellite imagery.	125.2	376.9	398.9
4002	Household/Institutional	Cleaning, food, and other supplies.	0.4	1.5	5.0
4003	Scientific and Medical	Instruments and applications, and laboratory supplies.	0.8	12.5	15.0
4004	Safety	Safety glasses, first aid and emergency preparedness kits, and other safety gear related to arctic field work.	13.3	15.0	20.0
4004	Safety	COVID-related expenses.	1.2	5.0	5.0
4015	Parts and Supplies	Parts and supplies.	0.0	0.0	212.0
4020	Equipment Fuel	Helicopter and fixed wing fuel.	11.1	28.0	28.0

**Line Item Detail (1676)**  
**Department of Natural Resources**  
**Capital Outlay**

**Component:** Geological & Geophysical Surveys (1031)

Line Number	Line Name		FY2020 Actuals	FY2021 Management Plan	FY2022 Governor
5000	Capital Outlay		12.2	4.8	4.8
Object Class	Servicing Agency	Explanation	FY2020 Actuals	FY2021 Management Plan	FY2022 Governor
<b>5000 Capital Outlay Detail Totals</b>			<b>12.2</b>	<b>4.8</b>	<b>4.8</b>
5004	Equipment	Small equipment purchases.	12.2	4.8	4.8



**Revenue Detail (1681)**  
**Department of Natural Resources**

**Component:** Geological & Geophysical Surveys (1031)

Revenue Type (OMB Fund Code) Revenue Source	Component	Comment	FY2020 Actuals	FY2021 Management Plan	FY2022 Governor
<b>5002 Fed Rcpts (1002 Fed Rcpts)</b>			<b>1,801.6</b>	<b>2,134.7</b>	<b>2,645.6</b>
5010 Federal Natural Resources - Miscellaneous Grants		Reimbursement of expenses from the division's multiple federal grants.	1,801.6	2,134.7	2,645.6
<b>5005 GF/Prgm (1005 GF/Prgm)</b>			<b>633.6</b>	<b>1,122.5</b>	<b>1,499.7</b>
5109 Program Receipts General Government - Publication Fees		Publication Sales of Division reports, maps, and cards.	484.5	600.0	600.0
5110 Program Receipts General Government - User Fees		Room and equipment rentals.	20.8	382.5	759.7
5112 Program Receipts Natural Resources - Charges for Services		Billed general fund program receipts.	96.4	100.0	100.0
5112 Program Receipts Natural Resources - Charges for Services		Seismic data sales.	0.0	0.0	0.0
5113 Program Receipts Natural Resources - Rent and Royalties		Storage fees.	31.9	40.0	40.0
<b>5007 I/A Rcpts (1007 I/A Rcpts)</b>			<b>184.4</b>	<b>470.7</b>	<b>471.3</b>
5301 Inter-Agency Receipts	Commerce - Department-wide	Reimbursable services agreement with Alaska Oil and Gas Conservation Commission for Geologic Material Center Support.	50.0	63.0	63.0
5301 Inter-Agency Receipts	EnvCon - Department-wide	Reimbursable services agreement with Air Quality for PPG Radon Program.	49.7	49.0	49.6
5301 Inter-Agency Receipts	M&VA - Department-wide	Reimbursable services agreement with Department of Military and Veteran Affairs.	8.6	60.0	60.0
5301 Inter-Agency Receipts	NatRes - Mining, Land & Water (3002)	Reimbursable services agreement with Mining, Land & Water for analyses and interpretation of geophysical and geospatial information to enhance state's energy and mineral resources.	0.0	50.0	50.0
5301 Inter-Agency Receipts	NatRes - Oil & Gas (439)	Reimbursable services agreement with Oil & Gas to provide geological	0.0	78.7	78.7

**Revenue Detail (1681)**  
**Department of Natural Resources**

**Component:** Geological & Geophysical Surveys (1031)

Revenue Type (OMB Fund Code) Revenue Source	Component	Comment	FY2020 Actuals	FY2021 Management Plan	FY2022 Governor
5301 Inter-Agency Receipts	Univ - Department-wide	and geospatial information of the state's energy and mineral resources. Multiple reimbursable services agreements with the University of Alaska for radon outreach to public and acquisition of geophysical survey to map permafrost.	0.0	170.0	170.0
5301 Inter-Agency Receipts	Commerce - Department-wide	Reimbursable services agreement with Alaska Industrial Development and Export Authority for Susitna Access Road LiDAR Acquisition.	76.1	0.0	0.0
<b>5061 CIP Rcpts (1061 CIP Rcpts)</b>			<b>1,099.8</b>	<b>1,505.4</b>	<b>1,514.3</b>
5351 Capital Improvement Project Inter-Agency		Capital improvement project receipts for work in direct support of capital projects.	1,099.8	1,505.4	1,514.3
<b>5108 Stat Desig (1108 Stat Desig)</b>			<b>79.4</b>	<b>207.1</b>	<b>208.0</b>
5201 Statutory Dsgntd Prgrm Rcpts Pblc Prtctn - Permits and Fees		Cooperative agreements including but not limited to petroleum-related Geological studies on the North Slope, and facilitating water level network for the Alaska Coast.	79.4	207.1	208.0

**Inter-Agency Services (1682)**  
**Department of Natural Resources**

**Component:** Geological & Geophysical Surveys (1031)

	FY2020 Actuals	FY2021 Management Plan	FY2022 Governor
<b>Component Totals</b>	<b>213.3</b>	<b>608.5</b>	<b>608.5</b>
With Department of Natural Resources	126.2	350.0	350.0
With Department of Environmental Conservation	0.0	20.0	20.0
With Office of the Governor	1.7	0.0	0.0
With University of Alaska	12.0	8.0	8.0
With Department of Administration	44.7	201.2	201.2
With Department of Law	0.4	1.0	1.0
With Department of Transportation/Public Facilities	28.3	28.3	28.3

Object Class	Servicing Agency	Explanation	FY2020 Actuals	FY2021 Management Plan	FY2022 Governor
3012 Inter-Agency Federal Indirect Rate Allocation	NatRes - Administrative Services (424)	Indirect cost allocation for services provided by Administrative Services.	124.7	200.0	200.0
3016 Inter-Agency Economic Development	EnvCon - Department-wide	Reimbursable services agreement to provide Environmental Protection Agency (EPA) Radon Community Assistant Program and the Alaska Geological Material Center support.	0.0	20.0	20.0
3016 Inter-Agency Economic Development	Gov - Department-wide	Reimbursable services agreement with the Governor's Office for OMB Budget Analyst Support.	1.7	0.0	0.0
3016 Inter-Agency Economic Development	NatRes - Oil & Gas (439)	Reimbursable services agreement with Oil & Gas for seismic data employee support.	0.0	150.0	150.0
3016 Inter-Agency Economic Development	NatRes - Public Information Center (2441)	Reimbursable services agreement with Public Information Center for office and personnel support.	1.5	0.0	0.0
3016 Inter-Agency Economic Development	Univ - Department-wide	Reimbursable services agreement with the University of Alaska Fairbanks for the State Indoor Radon Grant.	12.0	8.0	8.0
3017 Inter-Agency Information Technology	Admin - Department-wide	Reimbursable services agreement	6.9	10.0	10.0

**Inter-Agency Services (1682)**  
**Department of Natural Resources**

**Component:** Geological & Geophysical Surveys (1031)

<b>Object Class</b>	<b>Servicing Agency</b>	<b>Explanation</b>	<b>FY2020 Actuals</b>	<b>FY2021 Management Plan</b>	<b>FY2022 Governor</b>
Non-Telecommunications		with DOA for Adobe and Microsoft licenses.			
3018 Inter-Agency Information Technology Telecommunications	Admin - Department-wide	Reimbursable services agreement with DOA for telecommunication - phones.	0.0	5.0	5.0
3021 Inter-Agency Mail	Admin - Department-wide	Reimbursable services agreement with DOA for centralized mail services chargeback.	0.7	0.5	0.5
3022 Inter-Agency Human Resources	Admin - Department-wide	Reimbursable services agreement with DOA for human resources chargeback.	7.8	1.5	1.5
3023 Inter-Agency Building Leases	Admin - Department-wide	Reimbursable services agreement with DOA for office space lease costs.	0.0	150.0	150.0
3024 Inter-Agency Legal	Law - Department-wide	Reimbursable services agreement with Law for regulations review.	0.4	1.0	1.0
3026 Inter-Agency Insurance	Admin - Department-wide	Reimbursable services agreement with DOA for risk management, and property insurance.	7.0	15.9	15.9
3027 Inter-Agency Financial	Admin - Department-wide	Reimbursable services agreement with DOA for state payroll (HRM) and accounting (IRIS & ALDER) systems chargeback.	21.9	18.0	18.0
3028 Inter-Agency Americans with Disabilities Act Compliance	Admin - Department-wide	Reimbursable services agreement with DOA for the Americans with Disabilities Act (ADA) chargeback.	0.4	0.3	0.3
3037 State Equipment Fleet	Trans - Department-wide	State equipment fleet vehicle usage.	28.3	28.3	28.3

**Personal Services Expenditure Detail**  
**Department of Natural Resources**

**Scenario:** FY2022 Governor (17280)  
**Component:** Geological & Geophysical Surveys (1031)  
**RDU:** Fire Suppression, Land & Water Resources (602)

PCN	Job Class Title	Time Status	Retire Code	Barg Unit	Location	Salary Sched	Range / Step	Comp Months	Split / Count	Annual Salaries	COLA	Premium Pay	Annual Benefits	Total Costs	UGF Amount
10-#246	Geologist II	PT	A	GP	Anchorage	100	17C	10.0		50,164	679	0	33,407	84,250	0
10-#253	Geologist I	PT	A	GP	Anchorage	100	15C	12.0		52,221	707	0	37,266	90,194	0
10-?208	Natural Resource Technician I	FT	A	GP	Anchorage	100	10B / C	12.0		37,187	503	0	31,947	69,637	0
10-?209	Natural Resource Technician II	FT	A	GP	Anchorage	100	12B / C	12.0		41,954	568	0	33,634	76,156	0
10-0115	Geologist II	FT	A	GP	Fairbanks	203	17B / C	12.0		60,433	818	0	40,172	101,423	0
10-0270	Micro/Net Tc I	PT	A	GP	Fairbanks	203	14D / E	12.0		53,024	718	0	28,155	81,897	81,897
10-0279	Systems Programmer II	FT	A	GP	Fairbanks	203	22D / E	12.0		90,987	1,232	0	50,982	143,201	28,640
10-1607	Natural Resource Technician II	FT	A	GP	Fairbanks	203	12K	12.0		53,430	723	0	37,694	91,847	91,847
10-1875	Geologist IV	FT	A	GP	Anchorage	200	21F / G	12.0		86,918	1,177	0	49,542	137,637	82,582
10-2008	Geologist III	FT	A	GP	Fairbanks	203	19G	12.0		80,360	1,088	0	47,222	128,670	90,069
10-2016	Geologist IV	FT	A	GP	Fairbanks	99	21M / N	12.0		107,637	1,457	0	56,872	165,966	116,176
10-2030	Analyst/Programmer IV	FT	A	GP	Fairbanks	203	20G	12.0		85,898	1,163	0	49,181	136,242	0
10-2035	Geologist II	FT	A	GP	Fairbanks	203	17E / F	12.0		66,268	897	0	42,236	109,401	76,581
10-2040	Division Operations Manager	FT	A	SS	Fairbanks	203	24K	12.0		124,072	0	0	62,727	186,799	186,799
10-2046	Geological Scientist I	FT	A	SS	Fairbanks	99	22M / N	12.0		122,441	0	0	62,150	184,591	138,443
10-2058	Geologist V	FT	A	SS	Anchorage	200	22F / J	12.0		100,442	0	0	54,367	154,809	139,328
10-2060	Geologist V	FT	A	SS	Fairbanks	99	22P / Q	12.0		130,524	0	0	65,010	195,534	185,757
10-2061	Geologist III	FT	A	GP	Fairbanks	203	19D / E	12.0		75,231	1,018	0	45,407	121,656	0
10-2062	Gis Analyst IV	FT	A	SS	Fairbanks	203	21E / F	12.0		93,371	0	0	51,865	145,236	105,296
10-2064	Geologist III	FT	A	GP	Fairbanks	203	19D / E	12.0		74,656	1,011	0	45,204	120,871	84,610
10-2085	Geologist IV	FT	A	GP	Fairbanks	203	21K / L	12.0		100,954	1,367	0	54,508	156,829	0
10-2100	Administrative Assistant III	FT	A	GP	Fairbanks	203	15B / C	12.0		52,098	705	0	37,223	90,026	90,026
10-2117	Geologist V	FT	A	SS	Fairbanks	99	22N / O	12.0		124,131	0	0	62,748	186,879	0
10-2122	Geologist IV	FT	A	GP	Fairbanks	203	21J	12.0		95,823	1,297	0	52,692	149,812	104,868
10-2124	Geologist II	FT	A	GP	Fairbanks	203	17G	12.0		70,317	952	0	43,668	114,937	80,456
10-2133	Geologist IV	FT	A	GP	Fairbanks	203	21L	12.0		102,161	1,383	0	54,935	158,479	110,935
10-2175	Publications Specialist II	FT	A	GP	Fairbanks	203	16E / F	12.0		63,245	856	0	41,166	105,267	94,740
10-2217	Administrative Officer II	FT	A	SS	Fairbanks	203	19E / F	12.0		83,325	0	0	48,311	131,636	131,636
10-2223	Analyst/Programmer IV	FT	A	GP	Fairbanks	99	20M / N	12.0		98,962	1,340	0	53,803	154,105	30,821
10-2224	Geologist IV	FT	A	GP	Fairbanks	203	21G / J	12.0		94,375	1,278	0	52,180	147,833	44,350
10-2225	Geologist IV	FT	A	GP	Fairbanks	203	21L / M	12.0		102,989	1,394	0	55,228	159,611	79,806
10-2226	Geologist IV	FT	A	GP	Fairbanks	203	21E / F	12.0		87,467	1,184	0	49,736	138,387	69,194
10-2227	Geologist IV	FT	A	GP	Fairbanks	203	21K	12.0		98,943	1,339	0	53,796	154,078	107,855
10-2229	Geologist IV	FT	A	GP	Fairbanks	99	21M / N	12.0		107,638	1,457	0	56,873	165,968	82,984
10-2231	Analyst/Programmer V	FT	A	GP	Anchorage	200	22G / J	12.0		98,339	1,331	0	53,583	153,253	30,651

Note: If a position is split, an asterisk (\*) will appear in the Split/Count column. If the split position is also counted in the component, two asterisks (\*\*) will appear in this column. [No valid job title] appearing in the Job Class Title indicates that the PCN has an invalid class code or invalid range for the class code effective date of this scenario.

**Personal Services Expenditure Detail**  
**Department of Natural Resources**

**Scenario:** FY2022 Governor (17280)  
**Component:** Geological & Geophysical Surveys (1031)  
**RDU:** Fire Suppression, Land & Water Resources (602)

PCN	Job Class Title	Time Status	Retire Code	Barg Unit	Location	Salary Sched	Range / Step	Comp Months	Split / Count	Annual Salaries	COLA	Premium Pay	Annual Benefits	Total Costs	UGF Amount
10-2232	Geologist III	FT	A	GP	Fairbanks	99	19N	12.0		94,648	1,281	0	52,277	148,206	111,155
10-2234	Geologist IV	FT	A	GP	Anchorage	200	21K / L	12.0		97,877	1,325	0	53,419	152,621	137,359
10-2237	Geologist IV	FT	A	GP	Fairbanks	203	21K	12.0		98,943	1,339	0	53,796	154,078	92,447
10-2238	Gis Analyst II	FT	A	GP	Fairbanks	203	17G / J	12.0		70,922	960	0	43,883	115,765	109,977
10-2239	Geologist II	PT	A	GP	Fairbanks	203	17B	9.0		44,445	602	0	29,817	74,864	0
10-2240	Natural Resource Technician II	PT	A	GP	Anchorage	200	12C / D	10.0		36,286	491	0	28,497	65,274	0
10-2241	Accounting Technician II	PT	A	GP	Fairbanks	203	14A / B	12.0		34,285	464	0	30,920	65,669	0
10-2242	Geologist I	PT	A	GP	Fairbanks	203	15C / D	10.0		46,101	624	0	31,969	78,694	0
10-2243	Geologist II	PT	A	GP	Anchorage	200	17A	10.0		46,199	625	0	32,004	78,828	0
10-2244	Geologist II	PT	A	GP	Fairbanks	203	17C / D	10.0		53,008	718	0	34,413	88,139	0
10-2245	Gis Analyst I	PT	A	GP	Fairbanks	203	15A / B	10.0		42,900	581	0	30,837	74,318	0
10-2246	Nat Res Speciii	PT	A	GP	Fairbanks	203	18C / D	10.0		56,729	768	0	35,729	93,226	0
10-3504	Large Project Coordinator	FT	A	XE	Anchorage	N00	23P	12.0		89,748	0	0	50,439	140,187	0
10-4228	Chief Geologist	FT	A	XE	Fairbanks	N03	27	12.0		141,629	0	0	68,795	210,424	210,424
10-4248	Geologist IV	FT	A	GP	Fairbanks	203	21K / L	12.0		100,954	1,367	0	54,508	156,829	78,415
10-I019	Student Intern	NP	N	XE	Fairbanks	N03	0 /	12.0		25,650	0	0	2,839	28,489	0
10-I023	Student Intern	NP	N	XE	Anchorage	N00	0 /	12.0		34,913	0	0	3,865	38,778	0
10-I025	Student Intern	NP	N	XE	Anchorage	N00	0 /	12.0		18,480	0	0	2,046	20,526	0
10-I026	Student Intern	NP	N	XE	Anchorage	N00	0 /	12.0		43,153	0	0	4,777	47,930	0
10-N18050	Geologist I	NP	N	GP	Fairbanks	203	15A	6.0		24,814	281	0	12,715	37,810	0
10-N19045	Nat Res Techiii	NP	N	GP	Anchorage	200	14B / C	12.0		48,185	546	0	25,237	73,968	0
10-N19046	Nat Res Techiii	NP	N	GP	Anchorage	200	14B / C	12.0		48,185	546	0	25,237	73,968	0
10-N19052	Administrative Assistant I	NP	N	GP	Fairbanks	203	12B / C	10.0		36,254	411	0	20,509	57,174	0
10-N19064	Geologist I	NP	N	GP	Anchorage	200	15B / C	12.0		51,773	587	0	25,718	78,078	0
10-N20003	Geologist I	NP	N	GP	Fairbanks	203	15B / C	12.0		53,333	605	0	25,926	79,864	0
10-X013	Petroleum Geologist I	FT	A	XE	Fairbanks	N03	26	12.0		136,388	0	0	66,940	203,328	142,330

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**Personal Services Expenditure Detail**  
**Department of Natural Resources**

**Scenario:** FY2022 Governor (17280)  
**Component:** Geological & Geophysical Surveys (1031)  
**RDU:** Fire Suppression, Land & Water Resources (602)

PCN	Job Class Title	Time Status	Retire Code	Barg Unit	Location	Salary Sched	Range / Step	Comp Months	Split / Count	Annual Salaries	COLA	Premium Pay	Annual Benefits	Total Costs	UGF Amount
		<b>Total Positions</b>	<b>New</b>	<b>Deleted</b>										<b>Total Salary Costs:</b>	4,543,787
														<b>Total COLA:</b>	43,763
	<b>Full Time Positions:</b>	40	0	0										<b>Total Premium Pay:</b>	0
	<b>Part Time Positions:</b>	11	2	0										<b>Total Benefits:</b>	2,542,602
	<b>Non Permanent Positions:</b>	10	0	0											
	<b>Positions in Component:</b>	61	2	0											
	<b>Total Component Months:</b>	707.0													
														<b>Total Pre-Vacancy:</b>	7,130,152
														<b>Minus Vacancy Adjustment of 3.69%:</b>	(262,952)
														<b>Total Post-Vacancy:</b>	6,867,200
														<b>Plus Lump Sum Premium Pay:</b>	0
														<b>Personal Services Line 100:</b>	6,867,200

<b>PCN Funding Sources:</b>	<b>Pre-Vacancy</b>	<b>Post-Vacancy</b>	<b>Percent</b>
1002 Federal Receipts	1,599,591	1,540,600	22.43%
1004 General Fund Receipts	3,348,452	3,224,965	46.96%
1005 General Fund/Program Receipts	521,947	502,698	7.32%
1007 Interagency Receipts	128,619	123,876	1.80%
1061 Capital Improvement Project Receipts	1,418,952	1,366,622	19.90%
1108 Statutory Designated Program Receipts	112,591	108,439	1.58%
<b>Total PCN Funding:</b>	<b>7,130,152</b>	<b>6,867,200</b>	<b>100.00%</b>

Note: If a position is split, an asterisk (\*) will appear in the Split/Count column. If the split position is also counted in the component, two asterisks (\*\*) will appear in this column. [No valid job title] appearing in the Job Class Title indicates that the PCN has an invalid class code or invalid range for the class code effective date of this scenario.

