

EPA 2020 COVID-19 WATER SECTOR SURVEY

Appendix F: Data Tables for Alaska Native Village Utilities

June 2021



810-R-21-001

Notes on Appendix F

Appendices C-G present tables with detailed findings from the EPA 2020 COVID-19 Water Sector Survey. This appendix, Appendix F, presents findings specifically for Alaska Native Village utilities. Each table includes findings for subgroups based on size (population served).

The order of presentation in this appendix follows the order of questions in the survey (see Appendix B). The title of each table generally includes the applicable survey question number and the text of the question itself (or a close paraphrase). EPA used financial data from Part D of the survey to generate some derived measures. The tables presenting these measures are labeled as “calculated” rather than labelled with a question number.

Some questions asked survey participants specifically about experiences from January 2020 to the present day, or from present day to December 2020. For these questions, “January to the Present” or “Present to December” is listed above each table to show the time period covered by the table.

In most cases, findings are presented as point estimates and 95 percent confidence intervals. For an explanation of confidence intervals, see the discussion of methodology in Appendix A.

Several questions asked respondents to provide responses on a scale. For example, questions B1.1.1 and B2.1.1 asked respondents to rank the severity of their treatment chemical shortages as “no impact,” “slight impact,” “moderate impact,” or “severe impact.” EPA calculated a mean score for each such question by assigning numeric values to the responses (for example, 0 for no impact, 1 for slight impact, 2 for moderate impact, and 3 for severe impact) and averaging the results.

Each table lists the number of observations, which is the number of responses received from survey participants to a given question or response option. The quantitative findings presented in the tables are weighted to provide national estimates, using weightings calculated and assigned to each utility type and size subgroup. For more information on the weightings, see the discussion of methodology in Appendix A.

Blank cells indicate that no applicable responses were received. “N/A” indicates that a confidence interval cannot be calculated because there was no variance in responses.

Table F.1. Question B1.1: What kinds of shortages or supply chain disruptions did your organization experience from January 2020 through present day?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Percentage Reporting by Population Served				
	< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Treatment Chemicals	48.0% 23.5% - 73.5%	7.7% 1.4% - 32.3%	22.3% 8.5% - 47.0%	53.9% 9.5% - 92.9%	27.1% 16.2% - 41.7%
PPE	59.7% 31.0% - 83.0%	56.5% 31.5% - 78.5%	72.4% 47.7% - 88.3%	46.1% 7.1% - 90.5%	62.6% 47.6% - 75.5%
Durable Goods and Other Equipment and Supplies	58.4% 30.7% - 81.6%	53.8% 28.1% - 77.7%	34.0% 16.4% - 57.6%	0.0% N/A - N/A	45.4% 31.4% - 60.2%
None	31.2% 11.5% - 61.3%	25.6% 9.4% - 53.2%	27.6% 11.7% - 52.3%	0.0% N/A - N/A	26.7% 15.7% - 41.7%
Observations	10	11	14	2	37

N/A: confidence interval could not be calculated.

Table F.2. Question B1.1.1: How severe were the treatment chemical shortages or supply chain disruptions that you experienced?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Carbon dioxide	Mean score (0 to 3)	0.091 -0.060 - 0.241	0.000 0.000 - 0.000	0.000 0.000 - 0.000	0.000 0.000 - 0.000	0.027 -0.020 - 0.074
	No impact (0)	90.9% 61.8% - 98.4%	100.0% N/A - N/A	100.0% N/A - N/A	100.0% N/A - N/A	97.3% 85.7% - 99.5%
	Slight (1)	9.1% 1.6% - 38.2%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	2.7% 0.5% - 14.3%
	Moderate (2)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Severe (3)					
	Observations	10	11	14	2	37
	Ferric chloride	Mean score (0 to 3)	0.091 -0.060 - 0.241	0.000 0.000 - 0.000	0.000 0.000 - 0.000	0.000 0.000 - 0.000
No impact (0)		90.9% 61.8% - 98.4%	100.0% N/A - N/A	100.0% N/A - N/A	100.0% N/A - N/A	97.3% 85.7% - 99.5%
Slight (1)		9.1% 1.6% - 38.2%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	2.7% 0.5% - 14.3%
Moderate (2)		0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
Severe (3)						
Observations		10	11	14	2	37

Table F.2. Question B1.1.1: How severe were the treatment chemical shortages or supply chain disruptions that you experienced?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Fluoride	Mean score (0 to 3)	0.091 -0.060 - 0.241	0.000 0.000 - 0.000	0.149 -0.106 - 0.404	0.000 0.000 - 0.000	0.080 -0.022 - 0.182
	No impact (0)	90.9% 61.8% - 98.4%	100.0% N/A - N/A	92.6% 66.1% - 98.8%	100.0% N/A - N/A	94.7% 83.3% - 98.4%
	Slight (1)	9.1% 1.6% - 38.2%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	2.7% 0.5% - 14.3%
	Moderate (2)	0.0% N/A - N/A	0.0% N/A - N/A	7.4% 1.2% - 33.9%	0.0% N/A - N/A	2.7% 0.5% - 14.3%
	Severe (3)					
	Observations	10	11	14	2	37
Gaseous chlorine	Mean score (0 to 3)	0.195 -0.032 - 0.422	0.000 0.000 - 0.000	0.074 -0.053 - 0.202	0.000 0.000 - 0.000	0.084 0.000 - 0.168
	No impact (0)	80.5% 49.3% - 94.6%	100.0% N/A - N/A	92.6% 66.1% - 98.8%	100.0% N/A - N/A	91.6% 78.5% - 97.0%
	Slight (1)	19.5% 5.4% - 50.7%	0.0% N/A - N/A	7.4% 1.2% - 33.9%	0.0% N/A - N/A	8.4% 3.0% - 21.5%
	Moderate (2)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Severe (3)					
	Observations	10	11	14	2	37

Table F.2. Question B1.1.1: How severe were the treatment chemical shortages or supply chain disruptions that you experienced?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Liquid oxygen	Mean score (0 to 3)	0.091 -0.060 - 0.241	0.000 0.000 - 0.000	0.000 0.000 - 0.000	0.000 0.000 - 0.000	0.027 -0.020 - 0.074
	No impact (0)	90.9% 61.8% - 98.4%	100.0% N/A - N/A	100.0% N/A - N/A	100.0% N/A - N/A	97.3% 85.7% - 99.5%
	Slight (1)	9.1% 1.6% - 38.2%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	2.7% 0.5% - 14.3%
	Moderate (2)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	10	11	14	2	37
Lime	Mean score (0 to 3)	0.091 -0.060 - 0.241	0.153 -0.094 - 0.401	0.149 -0.106 - 0.404	0.000 0.000 - 0.000	0.126 -0.001 - 0.253
	No impact (0)	90.9% 61.8% - 98.4%	92.3% 67.7% - 98.6%	92.6% 66.1% - 98.8%	100.0% N/A - N/A	92.4% 80.8% - 97.2%
	Slight (1)	9.1% 1.6% - 38.2%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	2.7% 0.5% - 14.3%
	Moderate (2)	0.0% N/A - N/A	7.7% 1.4% - 32.3%	7.4% 1.2% - 33.9%	0.0% N/A - N/A	5.0% 1.4% - 15.8%
	Severe (3)					
	Observations	10	11	14	2	37

Table F.2. Question B1.1.1: How severe were the treatment chemical shortages or supply chain disruptions that you experienced?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Orthophosphate	Mean score (0 to 3)	0.091 -0.060 - 0.241	0.000 0.000 - 0.000	0.000 0.000 - 0.000	0.000 0.000 - 0.000	0.027 -0.020 - 0.074
	No impact (0)	90.9% 61.8% - 98.4%	100.0% N/A - N/A	100.0% N/A - N/A	100.0% N/A - N/A	97.3% 85.7% - 99.5%
	Slight (1)	9.1% 1.6% - 38.2%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	2.7% 0.5% - 14.3%
	Moderate (2)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Severe (3)					
	Observations	10	11	14	2	37
Polymers	Mean score (0 to 3)	0.091 -0.060 - 0.241	0.153 -0.094 - 0.401	0.298 0.016 - 0.580	0.000 0.000 - 0.000	0.179 0.042 - 0.316
	No impact (0)	90.9% 61.8% - 98.4%	92.3% 67.7% - 98.6%	77.7% 53.0% - 91.5%	100.0% N/A - N/A	87.0% 74.6% - 93.9%
	Slight (1)	9.1% 1.6% - 38.2%	0.0% N/A - N/A	14.9% 4.4% - 40.1%	0.0% N/A - N/A	8.0% 3.0% - 19.7%
	Moderate (2)	0.0% N/A - N/A	7.7% 1.4% - 32.3%	7.4% 1.2% - 33.9%	0.0% N/A - N/A	5.0% 1.4% - 15.8%
	Severe (3)					
	Observations	10	11	14	2	37

Table F.2. Question B1.1.1: How severe were the treatment chemical shortages or supply chain disruptions that you experienced?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Potassium permanganate	Mean score (0 to 3)	0.299 -0.084 - 0.682	0.153 -0.094 - 0.401	0.074 -0.053 - 0.202	0.000 0.000 - 0.000	0.160 0.013 - 0.308
	No impact (0)	80.5% 49.3% - 94.6%	92.3% 67.7% - 98.6%	92.6% 66.1% - 98.8%	100.0% N/A - N/A	89.3% 76.1% - 95.6%
	Slight (1)	9.1% 1.6% - 38.2%	0.0% N/A - N/A	7.4% 1.2% - 33.9%	0.0% N/A - N/A	5.3% 1.6% - 16.7%
	Moderate (2)	10.4% 1.6% - 44.9%	7.7% 1.4% - 32.3%	0.0% N/A - N/A	0.0% N/A - N/A	5.3% 1.5% - 17.3%
	Severe (3)					
	Observations	10	11	14	2	37
Sodium hydroxide	Mean score (0 to 3)	0.091 -0.060 - 0.241	0.153 -0.094 - 0.401	0.074 -0.053 - 0.202	0.000 0.000 - 0.000	0.099 0.000 - 0.198
	No impact (0)	90.9% 61.8% - 98.4%	92.3% 67.7% - 98.6%	92.6% 66.1% - 98.8%	100.0% N/A - N/A	92.4% 80.8% - 97.2%
	Slight (1)	9.1% 1.6% - 38.2%	0.0% N/A - N/A	7.4% 1.2% - 33.9%	0.0% N/A - N/A	5.3% 1.6% - 16.7%
	Moderate (2)	0.0% N/A - N/A	7.7% 1.4% - 32.3%	0.0% N/A - N/A	0.0% N/A - N/A	2.3% 0.4% - 11.3%
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	10	11	14	2	37

Table F.2. Question B1.1.1: How severe were the treatment chemical shortages or supply chain disruptions that you experienced?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Sodium hypochlorite	Mean score (0 to 3)	0.091 -0.060 - 0.241	0.000 0.000 - 0.000	0.074 -0.053 - 0.202	0.000 0.000 - 0.000	0.053 -0.011 - 0.118
	No impact (0)	90.9% 61.8% - 98.4%	100.0% N/A - N/A	92.6% 66.1% - 98.8%	100.0% N/A - N/A	94.7% 83.3% - 98.4%
	Slight (1)	9.1% 1.6% - 38.2%	0.0% N/A - N/A	7.4% 1.2% - 33.9%	0.0% N/A - N/A	5.3% 1.6% - 16.7%
	Moderate (2)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	10	11	14	2	37

N/A: confidence interval could not be calculated.

Table F.3. Question B1.1.2: What contributed to each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Carbon dioxide	Unavailable from supplier(s)	0.0% N/A - N/A				0.0% N/A - N/A
	Delayed / backordered from supplier(s)	0.0% N/A - N/A				0.0% N/A - N/A
	Transportation / distribution difficulties	100.0% N/A - N/A				100.0% N/A - N/A
	Price	0.0% N/A - N/A				0.0% N/A - N/A
	Other	0.0% N/A - N/A				0.0% N/A - N/A
	Observations	1				1
Ferric chloride	Unavailable from supplier(s)	0.0% N/A - N/A				0.0% N/A - N/A
	Delayed / backordered from supplier(s)	0.0% N/A - N/A				0.0% N/A - N/A
	Transportation / distribution difficulties	100.0% N/A - N/A				100.0% N/A - N/A
	Price	0.0% N/A - N/A				0.0% N/A - N/A
	Other	0.0% N/A - N/A				0.0% N/A - N/A
	Observations	1				1

Table F.3. Question B1.1.2: What contributed to each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Fluoride	Unavailable from supplier(s)	0.0% N/A - N/A		100.0% N/A - N/A		50.0% 0.2% - 99.8%
	Delayed / backordered from supplier(s)	0.0% N/A - N/A		100.0% N/A - N/A		50.0% 0.2% - 99.8%
	Transportation / distribution difficulties	100.0% N/A - N/A		100.0% N/A - N/A		100.0% N/A - N/A
	Price	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Observations	1		1		2
Gaseous chlorine	Unavailable from supplier(s)	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Delayed / backordered from supplier(s)	53.4% 11.7% - 90.8%		0.0% N/A - N/A		36.4% 36.4% - 36.4%
	Transportation / distribution difficulties	46.6% 9.2% - 88.3%		100.0% N/A - N/A		63.6% 63.6% - 63.6%
	Price	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Observations	2		1		3

Table F.3. Question B1.1.2: What contributed to each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Liquid oxygen	Unavailable from supplier(s)	0.0% N/A - N/A				0.0% N/A - N/A
	Delayed / backordered from supplier(s)	0.0% N/A - N/A				0.0% N/A - N/A
	Transportation / distribution difficulties	100.0% N/A - N/A				100.0% N/A - N/A
	Price	0.0% N/A - N/A				0.0% N/A - N/A
	Other	0.0% N/A - N/A				0.0% N/A - N/A
	Observations	1				1
Lime	Unavailable from supplier(s)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Delayed / backordered from supplier(s)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Transportation / distribution difficulties	100.0% N/A - N/A	0.0% N/A - N/A	100.0% N/A - N/A		70.0% 70.0% - 70.0%
	Price	0.0% N/A - N/A	100.0% N/A - N/A	0.0% N/A - N/A		30.0% 30.0% - 30.0%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	100.0% N/A - N/A		35.0% 1.1% - 96.4%
	Observations	1	1	1		3

Table F.3. Question B1.1.2: What contributed to each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Orthophosphate	Unavailable from supplier(s)	0.0% N/A - N/A				0.0% N/A - N/A
	Delayed / backordered from supplier(s)	0.0% N/A - N/A				0.0% N/A - N/A
	Transportation / distribution difficulties	100.0% N/A - N/A				100.0% N/A - N/A
	Price	0.0% N/A - N/A				0.0% N/A - N/A
	Other	0.0% N/A - N/A				0.0% N/A - N/A
	Observations	1				1
Polymers	Unavailable from supplier(s)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Delayed / backordered from supplier(s)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Transportation / distribution difficulties	100.0% N/A - N/A	0.0% N/A - N/A	66.7% 9.8% - 97.4%		61.8% 21.1% - 90.7%
	Price	0.0% N/A - N/A	100.0% N/A - N/A	33.3% 2.6% - 90.2%		38.2% 9.3% - 78.9%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	1	1	3		5

Table F.3. Question B1.1.2: What contributed to each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Potassium permanganate	Unavailable from supplier(s)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Delayed / backordered from supplier(s)	53.4% 9.3% - 92.8%	0.0% N/A - N/A	0.0% N/A - N/A		28.7% 28.7% - 28.7%
	Transportation / distribution difficulties	46.6% 7.2% - 90.7%	0.0% N/A - N/A	100.0% N/A - N/A		50.0% 50.0% - 50.0%
	Price	0.0% N/A - N/A	100.0% N/A - N/A	0.0% N/A - N/A		21.4% 21.4% - 21.4%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	2	1	1		4
Sodium hydroxide	Unavailable from supplier(s)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Delayed / backordered from supplier(s)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Transportation / distribution difficulties	100.0% N/A - N/A	0.0% N/A - N/A	100.0% N/A - N/A		70.0% 70.0% - 70.0%
	Price	0.0% N/A - N/A	100.0% N/A - N/A	0.0% N/A - N/A		30.0% 30.0% - 30.0%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	1	1	1		3

Table F.3. Question B1.1.2: What contributed to each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Sodium hypochlorite	Unavailable from supplier(s)	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Delayed / backordered from supplier(s)	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Transportation / distribution difficulties	100.0% N/A - N/A		100.0% N/A - N/A		100.0% N/A - N/A
	Price	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Observations	1		1		2

N/A: confidence interval could not be calculated.

Table F.4. Question B1.1.3: How did you address each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Carbon dioxide	Found alternative supplier	0.0% N/A - N/A				0.0% N/A - N/A
	Drew down existing inventory	0.0% N/A - N/A				0.0% N/A - N/A
	Switched chemicals, procedures, or technologies	100.0% N/A - N/A				100.0% N/A - N/A
	Sought help from other utilities or mutual aid network (e.g., WARN)	0.0% N/A - N/A				0.0% N/A - N/A
	Coordinated with local or state emergency management agency	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other	0.0% N/A - N/A				0.0% N/A - N/A
	Observations	1		1		2
Ferric chloride	Found alternative supplier	0.0% N/A - N/A				0.0% N/A - N/A
	Drew down existing inventory	0.0% N/A - N/A				0.0% N/A - N/A
	Switched chemicals, procedures, or technologies	100.0% N/A - N/A				100.0% N/A - N/A
	Sought help from other utilities or mutual aid network (e.g., WARN)	0.0% N/A - N/A				0.0% N/A - N/A
	Coordinated with local or state emergency management agency	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other	0.0% N/A - N/A				0.0% N/A - N/A
	Observations	1		1		2

Table F.4. Question B1.1.3: How did you address each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Fluoride	Found alternative supplier	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Drew down existing inventory	0.0% N/A - N/A		100.0% N/A - N/A		50.0% 1.8% - 98.2%
	Switched chemicals, procedures, or technologies	100.0% N/A - N/A		0.0% N/A - N/A		50.0% 1.8% - 98.2%
	Sought help from other utilities or mutual aid network (e.g., WARN)	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Coordinated with local or state emergency management agency	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Observations	1		1		2
Gaseous chlorine	Found alternative supplier	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Drew down existing inventory	53.4% 14.0% - 89.0%		100.0% N/A - N/A		68.2% 14.6% - 96.4%
	Switched chemicals, procedures, or technologies	46.6% 11.0% - 86.0%		0.0% N/A - N/A		31.8% 3.6% - 85.4%
	Sought help from other utilities or mutual aid network (e.g., WARN)	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Coordinated with local or state emergency management agency	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Observations	2		2		4

Table F.4. Question B1.1.3: How did you address each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Liquid oxygen	Found alternative supplier	0.0% N/A - N/A				0.0% N/A - N/A
	Drew down existing inventory	0.0% N/A - N/A				0.0% N/A - N/A
	Switched chemicals, procedures, or technologies	100.0% N/A - N/A				100.0% N/A - N/A
	Sought help from other utilities or mutual aid network (e.g., WARN)	0.0% N/A - N/A				0.0% N/A - N/A
	Coordinated with local or state emergency management agency	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other	0.0% N/A - N/A				0.0% N/A - N/A
	Observations	1		1		2
Lime	Found alternative supplier	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Drew down existing inventory	0.0% N/A - N/A	0.0% N/A - N/A	100.0% N/A - N/A		35.0% 2.4% - 92.1%
	Switched chemicals, procedures, or technologies	100.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		35.0% 2.4% - 92.1%
	Sought help from other utilities or mutual aid network (e.g., WARN)	0.0% N/A - N/A	100.0% N/A - N/A	0.0% N/A - N/A		30.0% 30.0% - 30.0%
	Coordinated with local or state emergency management agency	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	2	1	1		3

Table F.4. Question B1.1.3: How did you address each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Orthophosphate	Found alternative supplier	0.0% N/A - N/A				0.0% N/A - N/A
	Drew down existing inventory	0.0% N/A - N/A				0.0% N/A - N/A
	Switched chemicals, procedures, or technologies	100.0% N/A - N/A				100.0% N/A - N/A
	Sought help from other utilities or mutual aid network (e.g., WARN)	0.0% N/A - N/A				0.0% N/A - N/A
	Coordinated with local or state emergency management agency	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other	0.0% N/A - N/A				0.0% N/A - N/A
	Observations	1		1		2
Polymers	Found alternative supplier	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Drew down existing inventory	0.0% N/A - N/A	0.0% N/A - N/A	66.7% 12.5% - 96.5%		41.2% 10.1% - 81.4%
	Switched chemicals, procedures, or technologies	100.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		20.6% 2.4% - 73.1%
	Sought help from other utilities or mutual aid network (e.g., WARN)	0.0% N/A - N/A	100.0% N/A - N/A	0.0% N/A - N/A		17.6% 11.7% - 25.7%
	Coordinated with local or state emergency management agency	0.0% N/A - N/A	0.0% N/A - N/A	19.4% 2.2% - 72.2%		10.4% 1.3% - 50.0%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	3	1	5		9

Table F.4. Question B1.1.3: How did you address each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Potassium permanganate	Found alternative supplier	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Drew down existing inventory	0.0% N/A - N/A	0.0% N/A - N/A	100.0% N/A - N/A		25.0% 2.2% - 82.9%
	Switched chemicals, procedures, or technologies	46.6% 10.5% - 86.6%	0.0% N/A - N/A	0.0% N/A - N/A		25.0% 2.2% - 82.9%
	Sought help from other utilities or mutual aid network (e.g., WARN)	53.4% 13.4% - 89.5%	100.0% N/A - N/A	0.0% N/A - N/A		50.0% 50.0% - 50.0%
	Coordinated with local or state emergency management agency	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	2	1	1		4
Sodium hydroxide	Found alternative supplier	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Drew down existing inventory	0.0% N/A - N/A	0.0% N/A - N/A	100.0% N/A - N/A		35.0% 2.4% - 92.0%
	Switched chemicals, procedures, or technologies	100.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		35.0% 2.4% - 92.0%
	Sought help from other utilities or mutual aid network (e.g., WARN)	0.0% N/A - N/A	100.0% N/A - N/A	0.0% N/A - N/A		30.0% 30.0% - 30.0%
	Coordinated with local or state emergency management agency	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	2	1	1		3

Table F.4. Question B1.1.3: How did you address each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Sodium hypochlorite	Found alternative supplier	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Drew down existing inventory	0.0% N/A - N/A		100.0% N/A - N/A		50.0% 4.1% - 95.9%
	Switched chemicals, procedures, or technologies	100.0% N/A - N/A		0.0% N/A - N/A		50.0% 4.1% - 95.9%
	Sought help from other utilities or mutual aid network (e.g., WARN)	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Coordinated with local or state emergency management agency	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Other	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Observations	1	2	3		6

N/A: confidence interval could not be calculated.

Table F.5. Question B1.2.1: How severe were the personal protective equipment shortages or supply chain disruptions that you experienced?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
N95 masks and/or elastomeric respirators	Mean score (0 to 3)	0.896 0.338 - 1.454	0.770 0.315 - 1.226	1.213 0.624 - 1.802	0.461 -0.139 - 1.061	0.951 0.640 - 1.261
	No impact (0)	40.3% 17.0% - 69.0%	52.5% 28.8% - 75.2%	41.5% 21.4% - 64.9%	53.9% 9.5% - 92.9%	45.0% 31.4% - 59.4%
	Slight (1)	40.3% 17.0% - 69.0%	18.0% 5.2% - 46.7%	23.4% 8.9% - 48.9%	46.1% 7.1% - 90.5%	27.9% 16.8% - 42.6%
	Moderate (2)	9.1% 1.6% - 38.2%	29.5% 11.3% - 58.0%	7.4% 1.2% - 33.9%	0.0% N/A - N/A	14.1% 6.5% - 28.2%
	Severe (3)	10.4% 1.6% - 44.9%	0.0% N/A - N/A	27.6% 11.7% - 52.3%	0.0% N/A - N/A	13.0% 5.9% - 26.1%
	Observations	10	11	14	2	37
Alternative mask options (surgical, cloth, etc.)	Mean score (0 to 3)	0.883 0.418 - 1.348	0.591 0.187 - 0.995	0.968 0.416 - 1.519	0.461 -0.139 - 1.061	0.805 0.526 - 1.085
	No impact (0)	40.3% 17.0% - 69.0%	61.5% 37.1% - 81.2%	51.1% 28.6% - 73.1%	53.9% 9.5% - 92.9%	51.1% 37.1% - 65.0%
	Slight (1)	31.2% 11.5% - 61.3%	18.0% 5.2% - 46.7%	21.3% 7.7% - 46.6%	46.1% 7.1% - 90.5%	24.4% 14.2% - 38.8%
	Moderate (2)	28.5% 10.6% - 57.4%	20.6% 6.4% - 49.4%	7.4% 1.2% - 33.9%	0.0% N/A - N/A	17.2% 8.6% - 31.6%
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	20.2% 7.5% - 44.1%	0.0% N/A - N/A	7.2% 2.7% - 17.7%
	Observations	10	11	14	2	37

Table F.5. Question B1.2.1: How severe were the personal protective equipment shortages or supply chain disruptions that you experienced?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Face shield and/or protective eye wear	Mean score (0 to 3)	1.000 0.405 - 1.595	0.565 0.128 - 1.001	0.851 0.362 - 1.340	0.000 0.000 - 0.000	0.767 0.482 - 1.052
	No impact (0)	40.3% 17.0% - 69.0%	62.8% 35.7% - 83.7%	48.9% 26.9% - 71.4%	100.0% N/A - N/A	53.0% 38.6% - 67.0%
	Slight (1)	29.9% 10.6% - 60.4%	18.0% 5.2% - 46.7%	30.9% 13.9% - 55.4%	0.0% N/A - N/A	25.2% 14.5% - 40.2%
	Moderate (2)	19.5% 5.4% - 50.7%	19.3% 5.4% - 49.7%	6.4% 1.2% - 28.4%	0.0% N/A - N/A	13.7% 6.2% - 27.8%
	Severe (3)	10.4% 1.6% - 44.9%	0.0% N/A - N/A	13.8% 3.9% - 38.7%	0.0% N/A - N/A	8.0% 2.8% - 20.8%
	Observations	10	11	14	2	37
Nitrile and/or latex gloves	Mean score (0 to 3)	1.000 0.472 - 1.528	1.026 0.529 - 1.524	1.000 0.558 - 1.442	0.922 -0.277 - 2.122	1.004 0.731 - 1.277
	No impact (0)	40.3% 17.0% - 69.0%	43.5% 21.5% - 68.5%	35.1% 16.6% - 59.6%	53.9% 9.5% - 92.9%	40.1% 26.9% - 54.9%
	Slight (1)	19.5% 5.4% - 50.7%	10.3% 1.7% - 42.9%	37.3% 18.0% - 61.6%	0.0% N/A - N/A	22.1% 12.1% - 37.1%
	Moderate (2)	40.3% 17.0% - 69.0%	46.2% 22.3% - 71.9%	20.2% 7.5% - 44.1%	46.1% 7.1% - 90.5%	35.1% 22.7% - 49.9%
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	7.4% 1.2% - 33.9%	0.0% N/A - N/A	2.7% 0.5% - 14.3%
	Observations	10	11	14	2	37

Table F.5. Question B1.2.1: How severe were the personal protective equipment shortages or supply chain disruptions that you experienced?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Tyvek suite and/or disposable coveralls	Mean score (0 to 3)	0.805 0.231 - 1.380	0.641 0.171 - 1.112	0.713 0.259 - 1.167	0.000 0.000 - 0.000	0.683 0.410 - 0.957
	No impact (0)	49.3% 23.3% - 75.7%	62.8% 35.7% - 83.7%	56.4% 32.9% - 77.3%	100.0% N/A - N/A	58.4% 44.0% - 71.4%
	Slight (1)	31.2% 11.5% - 61.3%	10.3% 1.7% - 42.9%	23.4% 8.9% - 48.9%	0.0% N/A - N/A	20.6% 11.5% - 34.3%
	Moderate (2)	9.1% 1.6% - 38.2%	26.9% 9.7% - 55.7%	12.7% 4.1% - 33.4%	0.0% N/A - N/A	15.3% 7.6% - 28.2%
	Severe (3)	10.4% 1.6% - 44.9%	0.0% N/A - N/A	7.4% 1.2% - 33.9%	0.0% N/A - N/A	5.7% 1.6% - 18.7%
	Observations	10	11	14	2	37
Sanitizing wipes, sprays for cleaning work offices, or gels for hand sanitizing	Mean score (0 to 3)	1.403 0.637 - 2.168	0.847 0.367 - 1.327	1.287 0.691 - 1.883	0.922 -0.277 - 2.122	1.172 0.821 - 1.523
	No impact (0)	40.3% 17.0% - 69.0%	52.5% 28.8% - 75.2%	41.5% 21.4% - 64.9%	53.9% 9.5% - 92.9%	45.0% 31.4% - 59.4%
	Slight (1)	10.4% 1.6% - 44.9%	10.3% 1.7% - 42.9%	16.0% 4.7% - 42.3%	0.0% N/A - N/A	11.9% 5.1% - 25.3%
	Moderate (2)	18.1% 5.7% - 44.6%	37.2% 16.3% - 64.3%	14.9% 4.4% - 40.1%	46.1% 7.1% - 90.5%	24.0% 13.6% - 38.8%
	Severe (3)	31.2% 11.5% - 61.3%	0.0% N/A - N/A	27.6% 11.7% - 52.3%	0.0% N/A - N/A	19.1% 10.0% - 33.5%
	Observations	10	11	14	2	37

N/A: confidence interval could not be calculated.

Table F.6. Question B1.2.2: What contributed to each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
N95 masks and/or elastomeric respirators	Unavailable from supplier(s)	52.2% 19.9% - 82.8%	100.0% N/A - N/A	74.5% 37.9% - 93.4%	100.0% N/A - N/A	75.0% 54.6% - 88.2%
	Delayed / backordered from supplier(s)	50.0% 16.6% - 83.4%	21.7% 3.1% - 70.5%	49.1% 19.2% - 79.6%	0.0% N/A - N/A	40.3% 21.5% - 62.4%
	Transportation / distribution difficulties	32.6% 8.1% - 72.5%	0.0% N/A - N/A	36.3% 11.7% - 71.2%	0.0% N/A - N/A	24.3% 10.6% - 46.6%
	Price	15.2% 2.3% - 57.7%	0.0% N/A - N/A	21.8% 7.8% - 47.8%	0.0% N/A - N/A	13.2% 4.8% - 31.3%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	6	5	8	1	20
Alternative mask options (surgical, cloth, etc.)	Unavailable from supplier(s)	34.8% 9.2% - 73.7%	73.3% 21.8% - 96.4%	56.5% 21.5% - 86.0%	0.0% N/A - N/A	50.0% 28.2% - 71.8%
	Delayed / backordered from supplier(s)	67.4% 26.7% - 92.2%	26.7% 3.6% - 78.2%	71.7% 31.5% - 93.4%	100.0% N/A - N/A	60.9% 36.9% - 80.6%
	Transportation / distribution difficulties	32.6% 7.8% - 73.3%	0.0% N/A - N/A	30.5% 8.2% - 68.1%	0.0% N/A - N/A	22.7% 9.4% - 45.1%
	Price	15.2% 2.2% - 58.5%	0.0% N/A - N/A	13.0% 2.0% - 52.1%	0.0% N/A - N/A	10.1% 2.6% - 32.7%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	6	4	7	1	18

Table F.6. Question B1.2.2: What contributed to each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Face shield and/or protective eye wear	Unavailable from supplier(s)	52.2% 19.7% - 83.0%	72.4% 21.7% - 96.1%	14.6% 2.0% - 59.2%		42.3% 21.7% - 66.0%
	Delayed / backordered from supplier(s)	50.0% 16.2% - 83.8%	27.6% 3.9% - 78.3%	60.5% 28.4% - 85.5%		48.8% 27.7% - 70.4%
	Transportation / distribution difficulties	32.6% 7.9% - 73.1%	0.0% N/A - N/A	41.6% 12.9% - 77.5%		28.4% 12.2% - 53.2%
	Price	15.2% 2.3% - 58.0%	0.0% N/A - N/A	12.5% 1.7% - 53.3%		10.5% 2.6% - 34.3%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	6	4	7		17
Nitrile and/or latex gloves	Unavailable from supplier(s)	34.8% 9.4% - 73.3%	65.9% 26.2% - 91.3%	32.8% 10.8% - 66.2%	0.0% N/A - N/A	41.4% 23.2% - 62.3%
	Delayed / backordered from supplier(s)	82.6% 36.4% - 97.5%	34.1% 8.7% - 73.8%	67.2% 33.8% - 89.2%	100.0% N/A - N/A	63.7% 42.2% - 80.8%
	Transportation / distribution difficulties	0.0% N/A - N/A	0.0% N/A - N/A	42.6% 16.9% - 73.1%	0.0% N/A - N/A	16.5% 6.8% - 34.9%
	Price	15.2% 2.3% - 57.3%	0.0% N/A - N/A	9.8% 1.5% - 43.2%	0.0% N/A - N/A	8.3% 2.1% - 27.0%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	6	6	9	1	22

Table F.6. Question B1.2.2: What contributed to each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Tyvek suite and/or disposable coveralls	Unavailable from supplier(s)	61.6% 21.4% - 90.4%	72.4% 21.7% - 96.1%	17.1% 2.2% - 65.5%		47.7% 24.0% - 72.5%
	Delayed / backordered from supplier(s)	58.9% 19.1% - 89.7%	27.6% 3.9% - 78.3%	51.2% 23.8% - 77.9%		47.7% 26.8% - 69.5%
	Transportation / distribution difficulties	0.0% N/A - N/A	0.0% N/A - N/A	31.7% 6.8% - 74.6%		11.9% 2.9% - 38.2%
	Price	17.9% 2.8% - 62.2%	0.0% N/A - N/A	19.6% 3.4% - 63.0%		13.8% 3.3% - 42.8%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	5	4	6		15
Sanitizing wipes, sprays for cleaning work offices, or gels for hand sanitizing	Unavailable from supplier(s)	52.2% 19.9% - 82.8%	56.7% 19.0% - 87.9%	87.3% 45.5% - 98.3%	100.0% N/A - N/A	68.7% 46.4% - 84.8%
	Delayed / backordered from supplier(s)	47.8% 17.2% - 80.1%	43.3% 12.1% - 81.0%	50.9% 20.4% - 80.8%	0.0% N/A - N/A	45.8% 25.9% - 67.2%
	Transportation / distribution difficulties	0.0% N/A - N/A	0.0% N/A - N/A	36.3% 11.7% - 71.2%	0.0% N/A - N/A	13.9% 4.7% - 34.4%
	Price	32.6% 8.1% - 72.5%	0.0% N/A - N/A	10.9% 1.7% - 46.6%	0.0% N/A - N/A	14.6% 4.6% - 37.4%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	6	5	8	1	20

N/A: confidence interval could not be calculated.

Table F.7. Question B1.2.3: How did you address each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
N95 masks and/or elastomeric respirators	Found alternative supplier	17.4% 2.5% - 63.6%	37.8% 9.5% - 78.0%	27.3% 7.4% - 63.8%	0.0% N/A - N/A	25.7% 11.3% - 48.4%
	Drew down existing inventory	32.6% 8.1% - 72.5%	21.7% 3.1% - 70.5%	40.0% 14.2% - 72.9%	100.0% N/A - N/A	35.4% 17.7% - 58.3%
	Switched chemicals, procedures, or technologies	32.6% 8.1% - 72.5%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	10.4% 2.6% - 33.5%
	Sought help from neighboring utilities or mutual aid network (e.g., WARN)	17.4% 2.5% - 63.6%	0.0% N/A - N/A	12.7% 1.7% - 54.5%	0.0% N/A - N/A	10.4% 2.6% - 33.5%
	Coordinated with local or state emergency management agency	0.0% N/A - N/A	40.5% 10.5% - 79.8%	23.6% 5.7% - 61.1%	0.0% N/A - N/A	19.4% 7.4% - 42.3%
	Other	17.4% 2.5% - 63.6%	18.9% 2.9% - 64.1%	23.6% 5.7% - 61.1%	0.0% N/A - N/A	19.4% 7.4% - 42.3%
	Observations	6	5	8	1	20
Alternative mask options (surgical, cloth, etc.)	Found alternative supplier	32.6% 7.8% - 73.3%	46.6% 11.1% - 85.9%	41.3% 13.8% - 75.5%	0.0% N/A - N/A	37.5% 18.8% - 60.9%
	Drew down existing inventory	34.8% 9.2% - 73.7%	0.0% N/A - N/A	30.5% 8.2% - 68.1%	100.0% N/A - N/A	28.1% 11.9% - 53.2%
	Switched chemicals, procedures, or technologies	32.6% 7.8% - 73.3%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	11.7% 2.9% - 37.3%
	Sought help from neighboring utilities or mutual aid network (e.g., WARN)	34.8% 9.2% - 73.7%	26.7% 3.6% - 78.2%	0.0% N/A - N/A	0.0% N/A - N/A	18.8% 7.3% - 40.4%
	Coordinated with local or state emergency management agency	30.4% 10.0% - 63.1%	26.7% 3.6% - 78.2%	28.3% 6.6% - 68.5%	0.0% N/A - N/A	27.3% 12.1% - 50.6%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	28.3% 6.6% - 68.5%	0.0% N/A - N/A	10.1% 2.6% - 32.7%
	Observations	6	4	7	1	18

Table F.7. Question B1.2.3: How did you address each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Face shield and/or protective eye wear	Found alternative supplier	17.4% 2.4% - 64.5%	48.3% 11.6% - 86.9%	14.6% 2.0% - 59.2%		23.6% 8.8% - 49.7%
	Drew down existing inventory	32.6% 7.9% - 73.1%	0.0% N/A - N/A	72.9% 32.4% - 93.8%		40.6% 20.5% - 64.5%
	Switched chemicals, procedures, or technologies	32.6% 7.9% - 73.1%	0.0% N/A - N/A	0.0% N/A - N/A		12.2% 3.0% - 38.5%
	Sought help from neighboring utilities or mutual aid network (e.g., WARN)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Coordinated with local or state emergency management agency	0.0% N/A - N/A	27.6% 3.9% - 78.3%	0.0% N/A - N/A		6.5% 1.0% - 33.5%
	Other	17.4% 2.4% - 64.5%	24.1% 3.6% - 72.9%	12.5% 1.7% - 53.3%		17.1% 5.3% - 43.2%
	Observations	6	4	7		17
Nitrile and/or latex gloves	Found alternative supplier	32.6% 8.2% - 72.3%	31.8% 8.3% - 70.7%	55.8% 25.7% - 82.1%	0.0% N/A - N/A	40.1% 22.4% - 60.9%
	Drew down existing inventory	32.6% 8.2% - 72.3%	0.0% N/A - N/A	47.6% 21.5% - 75.1%	100.0% N/A - N/A	31.8% 16.2% - 53.1%
	Switched chemicals, procedures, or technologies	17.4% 2.5% - 63.6%	0.0% N/A - N/A	9.8% 1.5% - 43.2%	0.0% N/A - N/A	8.9% 2.3% - 28.9%
	Sought help from neighboring utilities or mutual aid network (e.g., WARN)	17.4% 2.5% - 63.6%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	5.1% 0.8% - 27.0%
	Coordinated with local or state emergency management agency	0.0% N/A - N/A	52.3% 18.5% - 84.2%	0.0% N/A - N/A	0.0% N/A - N/A	14.7% 5.0% - 35.9%
	Other	17.4% 2.5% - 63.6%	31.8% 9.7% - 66.9%	0.0% N/A - N/A	0.0% N/A - N/A	14.0% 4.7% - 35.0%
	Observations	6	6	9	1	22

Table F.7. Question B1.2.3: How did you address each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Tyvek suite and/or disposable coveralls	Found alternative supplier	20.5% 2.7% - 70.5%	48.3% 11.5% - 87.0%	34.2% 9.3% - 72.4%		33.0% 15.6% - 56.9%
	Drew down existing inventory	0.0% N/A - N/A	0.0% N/A - N/A	36.7% 9.8% - 75.6%		13.8% 3.3% - 42.8%
	Switched chemicals, procedures, or technologies	38.4% 9.6% - 78.6%	0.0% N/A - N/A	14.6% 2.0% - 59.1%		19.3% 5.8% - 47.9%
	Sought help from neighboring utilities or mutual aid network (e.g., WARN)	20.5% 2.7% - 70.5%	0.0% N/A - N/A	17.1% 2.2% - 65.5%		13.8% 3.3% - 42.8%
	Coordinated with local or state emergency management agency	0.0% N/A - N/A	27.6% 3.9% - 78.3%	17.1% 2.2% - 65.5%		13.8% 3.3% - 42.8%
	Other	20.5% 2.7% - 70.5%	24.1% 3.5% - 73.4%	0.0% N/A - N/A		13.8% 3.3% - 42.8%
	Observations	5	4	6		15
Sanitizing wipes, sprays for cleaning work offices, or gels for hand sanitizing	Found alternative supplier	50.0% 16.6% - 83.4%	37.8% 9.5% - 78.0%	27.3% 7.4% - 63.8%	0.0% N/A - N/A	36.1% 18.6% - 58.3%
	Drew down existing inventory	50.0% 16.6% - 83.4%	0.0% N/A - N/A	40.0% 14.2% - 72.9%	0.0% N/A - N/A	31.3% 15.2% - 53.6%
	Switched chemicals, procedures, or technologies	17.4% 2.5% - 63.6%	0.0% N/A - N/A	23.6% 5.7% - 61.1%	100.0% N/A - N/A	18.7% 7.4% - 40.1%
	Sought help from neighboring utilities or mutual aid network (e.g., WARN)	34.8% 9.4% - 73.3%	21.7% 3.1% - 70.5%	0.0% N/A - N/A	0.0% N/A - N/A	16.7% 6.4% - 36.9%
	Coordinated with local or state emergency management agency	0.0% N/A - N/A	40.5% 10.5% - 79.8%	12.7% 1.7% - 54.5%	0.0% N/A - N/A	15.3% 5.1% - 37.7%
	Other	0.0% N/A - N/A	18.9% 2.9% - 64.1%	21.8% 7.8% - 47.8%	0.0% N/A - N/A	13.2% 4.8% - 31.3%
	Observations	6	5	8	1	20

N/A: confidence interval could not be calculated.

Table F.8. Question B1.3.1: How severe were the shortages or supply chain disruptions involving durable goods and other critical equipment that you experienced?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Filter media	Mean score (0 to 3)	0.413 0.050 - 0.777	0.179 -0.129 - 0.487	0.298 -0.095 - 0.691	0.000 0.000 - 0.000	0.278 0.082 - 0.475
	No impact (0)	68.6% 39.1% - 88.2%	91.0% 60.6% - 98.5%	85.1% 59.6% - 95.7%	100.0% N/A - N/A	83.1% 69.4% - 91.5%
	Slight (1)	21.4% 5.9% - 54.1%	0.0% N/A - N/A	7.4% 1.2% - 34.2%	0.0% N/A - N/A	8.6% 3.0% - 22.1%
	Moderate (2)	10.0% 1.7% - 40.8%	9.0% 1.5% - 39.4%	0.0% N/A - N/A	0.0% N/A - N/A	5.5% 1.6% - 17.3%
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	7.4% 1.2% - 34.2%	0.0% N/A - N/A	2.7% 0.5% - 14.8%
	Observations	9	11	14	2	36
Granular/ Powdered Activated Carbon (GAC/ PAC)	Mean score (0 to 3)	0.214 -0.032 - 0.460	0.000 0.000 - 0.000	0.223 -0.051 - 0.498	0.000 0.000 - 0.000	0.141 0.016 - 0.267
	No impact (0)	78.6% 45.9% - 94.1%	100.0% N/A - N/A	85.1% 59.6% - 95.7%	100.0% N/A - N/A	88.6% 75.0% - 95.3%
	Slight (1)	21.4% 5.9% - 54.1%	0.0% N/A - N/A	7.4% 1.2% - 34.2%	0.0% N/A - N/A	8.6% 3.0% - 22.1%
	Moderate (2)	0.0% N/A - N/A	0.0% N/A - N/A	7.4% 1.2% - 34.2%	0.0% N/A - N/A	2.7% 0.5% - 14.8%
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	9	11	14	2	36

Table F.8. Question B1.3.1: How severe were the shortages or supply chain disruptions involving durable goods and other critical equipment that you experienced?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Membrane modules	Mean score (0 to 3)	0.214 -0.032 - 0.460	0.000 0.000 - 0.000	0.223 -0.051 - 0.498	0.000 0.000 - 0.000	0.141 0.016 - 0.267
	No impact (0)	78.6% 45.9% - 94.1%	100.0% N/A - N/A	85.1% 59.6% - 95.7%	100.0% N/A - N/A	88.6% 75.0% - 95.3%
	Slight (1)	21.4% 5.9% - 54.1%	0.0% N/A - N/A	7.4% 1.2% - 34.2%	0.0% N/A - N/A	8.6% 3.0% - 22.1%
	Moderate (2)	0.0% N/A - N/A	0.0% N/A - N/A	7.4% 1.2% - 34.2%	0.0% N/A - N/A	2.7% 0.5% - 14.8%
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	9	11	14	2	36
	Pumps	Mean score (0 to 3)	0.443 0.012 - 0.873	0.422 -0.088 - 0.933	0.362 0.007 - 0.716	0.000 0.000 - 0.000
No impact (0)		67.2% 35.6% - 88.3%	83.4% 55.7% - 95.2%	78.7% 53.3% - 92.3%	100.0% N/A - N/A	78.0% 63.0% - 88.1%
Slight (1)		21.4% 5.9% - 54.1%	0.0% N/A - N/A	6.4% 1.2% - 28.4%	0.0% N/A - N/A	8.2% 2.9% - 21.3%
Moderate (2)		11.4% 1.8% - 48.0%	7.7% 1.4% - 32.3%	14.9% 4.3% - 40.4%	0.0% N/A - N/A	11.0% 4.5% - 24.6%
Severe (3)		0.0% N/A - N/A	9.0% 1.5% - 39.4%	0.0% N/A - N/A	0.0% N/A - N/A	2.7% 0.5% - 14.8%
Observations		9	11	14	2	36

Table F.8. Question B1.3.1: How severe were the shortages or supply chain disruptions involving durable goods and other critical equipment that you experienced?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Motors	Mean score (0 to 3)	0.443 0.012 - 0.873	0.525 0.005 - 1.045	0.298 -0.045 - 0.641	0.000 0.000 - 0.000	0.392 0.153 - 0.631
	No impact (0)	67.2% 35.6% - 88.3%	73.1% 44.2% - 90.3%	85.1% 59.6% - 95.7%	100.0% N/A - N/A	77.2% 62.0% - 87.6%
	Slight (1)	21.4% 5.9% - 54.1%	10.3% 1.7% - 42.9%	0.0% N/A - N/A	0.0% N/A - N/A	9.0% 3.2% - 22.7%
	Moderate (2)	11.4% 1.8% - 48.0%	7.7% 1.4% - 32.3%	14.9% 4.3% - 40.4%	0.0% N/A - N/A	11.0% 4.5% - 24.6%
	Severe (3)	0.0% N/A - N/A	9.0% 1.5% - 39.4%	0.0% N/A - N/A	0.0% N/A - N/A	2.7% 0.5% - 14.8%
	Observations	9	11	14	2	36
	Pipes	Mean score (0 to 3)	0.742 0.161 - 1.323	0.449 -0.036 - 0.933	0.287 -0.003 - 0.577	0.000 0.000 - 0.000
No impact (0)		57.2% 28.7% - 81.6%	73.1% 44.2% - 90.3%	78.7% 53.3% - 92.3%	100.0% N/A - N/A	72.2% 56.7% - 83.7%
Slight (1)		21.4% 5.9% - 54.1%	18.0% 5.2% - 46.7%	13.8% 3.9% - 38.8%	0.0% N/A - N/A	16.5% 8.0% - 30.8%
Moderate (2)		11.4% 1.8% - 48.0%	0.0% N/A - N/A	7.4% 1.2% - 34.2%	0.0% N/A - N/A	5.9% 1.6% - 19.2%
Severe (3)		10.0% 1.7% - 40.8%	9.0% 1.5% - 39.4%	0.0% N/A - N/A	0.0% N/A - N/A	5.5% 1.6% - 17.3%
Observations		9	11	14	2	36

Table F.8. Question B1.3.1: How severe were the shortages or supply chain disruptions involving durable goods and other critical equipment that you experienced?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Valves	Mean score (0 to 3)	0.642 0.159 - 1.125	0.256 -0.034 - 0.546	0.287 -0.003 - 0.577	0.000 0.000 - 0.000	0.361 0.156 - 0.566
	No impact (0)	57.2% 28.7% - 81.6%	82.0% 53.3% - 94.8%	78.7% 53.3% - 92.3%	100.0% N/A - N/A	74.9% 59.5% - 85.8%
	Slight (1)	21.4% 5.9% - 54.1%	10.3% 1.7% - 42.9%	13.8% 3.9% - 38.8%	0.0% N/A - N/A	14.1% 6.4% - 28.5%
	Moderate (2)	21.4% 5.9% - 54.1%	7.7% 1.4% - 32.3%	7.4% 1.2% - 34.2%	0.0% N/A - N/A	11.0% 4.5% - 24.6%
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	9	11	14	2	36
Fuel	Mean score (0 to 3)	0.672 0.157 - 1.186	0.000 0.000 - 0.000	0.138 -0.026 - 0.302	0.000 0.000 - 0.000	0.236 0.065 - 0.406
	No impact (0)	55.7% 26.6% - 81.4%	100.0% N/A - N/A	86.2% 61.2% - 96.1%	100.0% N/A - N/A	82.7% 68.1% - 91.5%
	Slight (1)	21.4% 5.9% - 54.1%	0.0% N/A - N/A	13.8% 3.9% - 38.8%	0.0% N/A - N/A	11.0% 4.5% - 24.6%
	Moderate (2)	22.9% 6.3% - 56.6%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	6.3% 1.8% - 19.3%
	Severe (3)					
	Observations	9	11	14	2	36

Table F.8. Question B1.3.1: How severe were the shortages or supply chain disruptions involving durable goods and other critical equipment that you experienced?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Vehicles	Mean score (0 to 3)	0.343 -0.077 - 0.763	0.000 0.000 - 0.000	0.213 0.015 - 0.410	0.000 0.000 - 0.000	0.173 0.030 - 0.315
	No impact (0)	77.1% 43.4% - 93.7%	100.0% N/A - N/A	78.7% 53.3% - 92.3%	100.0% N/A - N/A	85.9% 71.5% - 93.6%
	Slight (1)	11.4% 1.8% - 48.0%	0.0% N/A - N/A	21.3% 7.7% - 46.7%	0.0% N/A - N/A	11.0% 4.5% - 24.6%
	Moderate (2)	11.4% 1.8% - 48.0%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	3.1% 0.5% - 16.9%
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	9	11	14	2	36

N/A: confidence interval could not be calculated.

Table F.9. Question B1.3.2: What contributed to each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Filter media	Unavailable from supplier(s)	0.0% N/A - N/A	100.0% N/A - N/A	50.0% 4.0% - 96.0%		32.5% 7.2% - 74.9%
	Delayed / backordered from supplier(s)	36.4% 14.3% - 66.3%	0.0% N/A - N/A	50.0% 4.0% - 96.0%		34.9% 11.3% - 69.4%
	Transportation / distribution difficulties	63.6% 33.7% - 85.7%	0.0% N/A - N/A	50.0% 4.0% - 96.0%		48.8% 16.1% - 82.6%
	Price	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	3	1	2		6
Granular/ Powdered Activated Carbon (GAC/ PAC)	Unavailable from supplier(s)	0.0% N/A - N/A		50.0% 2.6% - 97.4%		24.1% 2.0% - 83.4%
	Delayed / backordered from supplier(s)	100.0% N/A - N/A		50.0% 2.6% - 97.4%		75.9% 16.6% - 98.0%
	Transportation / distribution difficulties	0.0% N/A - N/A		50.0% 2.6% - 97.4%		24.1% 2.0% - 83.4%
	Price	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Observations	2		2		4

Table F.9. Question B1.3.2: What contributed to each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Membrane modules	Unavailable from supplier(s)	0.0% N/A - N/A		50.0% 2.5% - 97.5%		24.1% 1.9% - 83.9%
	Delayed / backordered from supplier(s)	53.4% 12.1% - 90.6%		50.0% 2.5% - 97.5%		51.8% 12.1% - 89.3%
	Transportation / distribution difficulties	46.6% 9.4% - 87.9%		0.0% N/A - N/A		24.1% 1.9% - 83.9%
	Price	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Observations	2		2		4
Pumps	Unavailable from supplier(s)	34.8% 2.3% - 92.3%	53.9% 7.2% - 94.6%	0.0% N/A - N/A		26.8% 5.3% - 70.5%
	Delayed / backordered from supplier(s)	100.0% N/A - N/A	46.1% 5.4% - 92.8%	70.0% 20.5% - 95.5%		76.8% 36.0% - 95.1%
	Transportation / distribution difficulties	30.4% 5.9% - 75.0%	0.0% N/A - N/A	30.0% 4.5% - 79.5%		23.2% 4.9% - 64.0%
	Price	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	3	2	3		8

Table F.9. Question B1.3.2: What contributed to each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Motors	Unavailable from supplier(s)	34.8% 3.3% - 89.4%	33.3% 5.1% - 82.3%	0.0% N/A - N/A		25.9% 5.2% - 68.9%
	Delayed / backordered from supplier(s)	69.6% 20.9% - 95.2%	66.7% 17.7% - 94.9%	100.0% N/A - N/A		75.9% 41.9% - 93.2%
	Transportation / distribution difficulties	30.4% 4.8% - 79.1%	38.2% 6.4% - 84.7%	50.0% 4.1% - 95.9%		37.9% 10.9% - 75.4%
	Price	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	3	3	2		8
Pipes	Unavailable from supplier(s)	26.7% 3.0% - 81.2%	61.8% 13.3% - 94.5%	30.0% 4.4% - 80.0%		38.0% 15.3% - 67.6%
	Delayed / backordered from supplier(s)	76.7% 25.9% - 96.9%	38.2% 5.5% - 86.7%	100.0% N/A - N/A		71.9% 38.8% - 91.1%
	Transportation / distribution difficulties	23.3% 3.1% - 74.1%	0.0% N/A - N/A	65.0% 12.6% - 96.0%		28.1% 8.9% - 61.2%
	Price	23.3% 3.1% - 74.1%	0.0% N/A - N/A	0.0% N/A - N/A		9.9% 1.3% - 47.9%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	4	3	3		10

Table F.9. Question B1.3.2: What contributed to each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Valves	Unavailable from supplier(s)	26.7% 3.0% - 81.0%	0.0% N/A - N/A	30.0% 4.5% - 79.5%		21.9% 4.6% - 61.8%
	Delayed / backordered from supplier(s)	53.4% 20.8% - 83.3%	100.0% N/A - N/A	70.0% 20.5% - 95.5%		68.8% 35.1% - 90.0%
	Transportation / distribution difficulties	46.6% 16.7% - 79.2%	57.3% 8.2% - 95.3%	35.0% 3.7% - 88.2%		45.3% 18.5% - 75.1%
	Price	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	4	2	3		9
Fuel	Unavailable from supplier(s)	25.8% 2.0% - 85.4%		0.0% N/A - N/A		18.2% 1.8% - 73.0%
	Delayed / backordered from supplier(s)	51.7% 9.5% - 91.6%		0.0% N/A - N/A		36.4% 10.3% - 74.1%
	Transportation / distribution difficulties	48.3% 8.4% - 90.5%		46.1% 9.7% - 87.1%		47.7% 11.1% - 87.0%
	Price	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Observations	4		2		6

Table F.9. Question B1.3.2: What contributed to each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Vehicles	Unavailable from supplier(s)	50.0% 1.9% - 98.1%		0.0% N/A - N/A		22.3% 2.2% - 78.5%
	Delayed / backordered from supplier(s)	50.0% 1.9% - 98.1%		0.0% N/A - N/A		22.3% 2.2% - 78.5%
	Transportation / distribution difficulties	0.0% N/A - N/A		30.0% 30.0% - 30.0%		16.6% 16.6% - 16.6%
	Price	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other	50.0% 1.9% - 98.1%		0.0% N/A - N/A		22.3% 2.2% - 78.5%
	Observations		2		3	

N/A: confidence interval could not be calculated.

Table F.10. Question B1.3.3: How did you address each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Filter media	Found alternative supplier	31.8% 4.0% - 84.0%	0.0% N/A - N/A	0.0% N/A - N/A		16.3% 1.7% - 68.2%
	Drew down existing inventory	68.2% 16.0% - 96.0%	0.0% N/A - N/A	50.0% 4.0% - 96.0%		51.2% 17.4% - 83.9%
	Switched chemicals, procedures, or technologies	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Sought help from other utilities or mutual aid network (e.g., WARN)	68.2% 16.0% - 96.0%	0.0% N/A - N/A	0.0% N/A - N/A		34.9% 11.3% - 69.4%
	Coordinated with local or state emergency management agency	0.0% N/A - N/A	0.0% N/A - N/A	50.0% 4.0% - 96.0%		16.3% 1.7% - 68.2%
	Other	0.0% N/A - N/A	100.0% N/A - N/A	0.0% N/A - N/A		16.3% 1.7% - 68.2%
	Observations	3	1	2		6
Granular/ Powdered Activated Carbon (GAC/ PAC)	Found alternative supplier	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Drew down existing inventory	100.0% N/A - N/A		50.0% 2.6% - 97.4%		75.9% 16.6% - 98.0%
	Switched chemicals, procedures, or technologies	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Sought help from other utilities or mutual aid network (e.g., WARN)	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Coordinated with local or state emergency management agency	0.0% N/A - N/A		50.0% 2.6% - 97.4%		24.1% 2.0% - 83.4%
	Other	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Observations	2		2		4

Table F.10. Question B1.3.3: How did you address each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Membrane modules	Found alternative supplier	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Drew down existing inventory	100.0% N/A - N/A		100.0% N/A - N/A		100.0% N/A - N/A
	Switched chemicals, procedures, or technologies	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Sought help from other utilities or mutual aid network (e.g., WARN)	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Coordinated with local or state emergency management agency	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Observations	2		2		4
Pumps	Found alternative supplier	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Drew down existing inventory	100.0% N/A - N/A	0.0% N/A - N/A	35.0% 3.7% - 88.2%		53.6% 27.4% - 78.0%
	Switched chemicals, procedures, or technologies	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Sought help from other utilities or mutual aid network (e.g., WARN)	0.0% N/A - N/A	0.0% N/A - N/A	35.0% 3.7% - 88.2%		12.5% 1.5% - 56.4%
	Coordinated with local or state emergency management agency	0.0% N/A - N/A	46.1% 5.4% - 92.8%	35.0% 3.7% - 88.2%		23.2% 4.9% - 64.0%
	Other	0.0% N/A - N/A	53.9% 7.2% - 94.6%	30.0% 4.5% - 79.5%		23.2% 4.9% - 64.0%
	Observations	3	2	3		8

Table F.10. Question B1.3.3: How did you address each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Motors	Found alternative supplier	34.8% 3.3% - 89.4%	0.0% N/A - N/A	0.0% N/A - N/A		13.8% 1.7% - 60.1%
	Drew down existing inventory	65.2% 10.6% - 96.7%	38.2% 6.4% - 84.7%	0.0% N/A - N/A		39.7% 13.0% - 74.3%
	Switched chemicals, procedures, or technologies	34.8% 3.3% - 89.4%	0.0% N/A - N/A	0.0% N/A - N/A		13.8% 1.7% - 60.1%
	Sought help from other utilities or mutual aid network (e.g., WARN)	34.8% 3.3% - 89.4%	0.0% N/A - N/A	50.0% 4.1% - 95.9%		25.9% 5.2% - 68.9%
	Coordinated with local or state emergency management agency	0.0% N/A - N/A	28.5% 9.2% - 61.1%	50.0% 4.1% - 95.9%		22.4% 7.0% - 52.5%
	Other	0.0% N/A - N/A	33.3% 5.1% - 82.3%	0.0% N/A - N/A		12.1% 1.5% - 55.3%
	Observations	3	3	2		8
Pipes	Found alternative supplier	26.7% 3.0% - 81.2%	0.0% N/A - N/A	0.0% N/A - N/A		11.3% 1.4% - 52.8%
	Drew down existing inventory	50.0% 9.3% - 90.7%	38.2% 5.5% - 86.7%	70.0% 20.0% - 95.6%		52.1% 23.4% - 79.6%
	Switched chemicals, procedures, or technologies	26.7% 3.0% - 81.2%	0.0% N/A - N/A	0.0% N/A - N/A		11.3% 1.4% - 52.8%
	Sought help from other utilities or mutual aid network (e.g., WARN)	50.0% 9.3% - 90.7%	0.0% N/A - N/A	0.0% N/A - N/A		21.1% 4.5% - 60.2%
	Coordinated with local or state emergency management agency	0.0% N/A - N/A	28.5% 3.7% - 80.6%	0.0% N/A - N/A		8.4% 1.1% - 42.4%
	Other	0.0% N/A - N/A	33.3% 4.5% - 84.1%	30.0% 4.4% - 80.0%		18.3% 4.1% - 54.1%
	Observations	4	3	3		10

Table F.10. Question B1.3.3: How did you address each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Valves	Found alternative supplier	50.0% 9.0% - 91.0%	0.0% N/A - N/A	0.0% N/A - N/A		23.5% 4.9% - 64.6%
	Drew down existing inventory	76.7% 24.9% - 97.0%	57.3% 8.2% - 95.3%	35.0% 3.7% - 88.2%		59.5% 34.8% - 80.1%
	Switched chemicals, procedures, or technologies	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Sought help from other utilities or mutual aid network (e.g., WARN)	26.7% 3.0% - 81.0%	0.0% N/A - N/A	35.0% 3.7% - 88.2%		23.5% 4.9% - 64.6%
	Coordinated with local or state emergency management agency	0.0% N/A - N/A	42.7% 4.7% - 91.8%	0.0% N/A - N/A		9.3% 1.2% - 45.7%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	30.0% 4.5% - 79.5%		9.3% 1.2% - 45.7%
	Observations	4	2	3		9
Fuel	Found alternative supplier	25.8% 2.0% - 85.4%		46.1% 9.7% - 87.1%		31.8% 7.7% - 72.1%
	Drew down existing inventory	100.0% N/A - N/A		53.9% 12.9% - 90.3%		86.4% 86.4% - 86.4%
	Switched chemicals, procedures, or technologies	25.8% 2.0% - 85.4%		0.0% N/A - N/A		18.2% 1.8% - 73.0%
	Sought help from other utilities or mutual aid network (e.g., WARN)	25.8% 2.0% - 85.4%		0.0% N/A - N/A		18.2% 1.8% - 73.0%
	Coordinated with local or state emergency management agency	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Observations	4		2		6

Table F.10. Question B1.3.3: How did you address each shortage or supply chain disruption? (select all that apply)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Vehicles	Found alternative supplier	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Drew down existing inventory	0.0% N/A - N/A		70.0% 70.0% - 70.0%		38.8% 38.8% - 38.8%
	Switched chemicals, procedures, or technologies	50.0% 1.9% - 98.1%		0.0% N/A - N/A		22.3% 2.2% - 78.5%
	Sought help from other utilities or mutual aid network (e.g., WARN)	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Coordinated with local or state emergency management agency	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other	50.0% 1.9% - 98.1%		30.0% 30.0% - 30.0%		38.9% 9.1% - 80.3%
	Observations	2		3		5

N/A: confidence interval could not be calculated.

Table F.11. Question B2.1: What kinds of shortages or supply chain disruptions are you most concerned about from present day through December 2020?

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Percentage Reporting by Population Served				
	< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Treatment Chemicals	44.3% 18.6% - 73.4%	29.5% 11.3% - 58.1%	38.3% 19.4% - 61.6%	0.0% N/A - N/A	35.3% 23.0% - 50.0%
PPE	57.2% 28.7% - 81.6%	55.1% 28.9% - 78.8%	42.6% 22.3% - 65.6%	46.1% 7.1% - 90.6%	50.6% 36.9% - 64.2%
Durable Goods and Other Equipment and Supplies	77.1% 43.4% - 93.7%	55.1% 28.9% - 78.8%	43.6% 22.6% - 67.2%	0.0% N/A - N/A	54.1% 39.6% - 68.0%
None	22.9% 6.3% - 56.6%	25.6% 9.4% - 53.3%	42.5% 21.8% - 66.2%	53.9% 9.4% - 92.9%	32.5% 20.4% - 47.5%
Observations	9	11	14	2	36

N/A: confidence interval could not be calculated.

Table F.12. Question B2.1.1: How severe are your concerns about treatment chemical shortages or supply chain disruptions?

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Carbon dioxide	Mean score (0 to 3)	0.100 -0.064 - 0.264	0.000 0.000 - 0.000	0.223 -0.163 - 0.609	0.000 0.000 - 0.000	0.110 -0.041 - 0.260
	None (0)	90.0% 59.2% - 98.3%	100.0% N/A - N/A	92.6% 65.8% - 98.8%	100.0% N/A - N/A	94.5% 82.7% - 98.4%
	Slight (1)	10.0% 1.7% - 40.8%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	2.7% 0.5% - 14.8%
	Moderate (2)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	7.4% 1.2% - 34.2%	0.0% N/A - N/A	2.7% 0.5% - 14.8%
	Observations	9	11	14	2	36
	Ferric chloride	Mean score (0 to 3)	0.100 -0.064 - 0.264	0.000 0.000 - 0.000	0.223 -0.163 - 0.609	0.000 0.000 - 0.000
None (0)		90.0% 59.2% - 98.3%	100.0% N/A - N/A	92.6% 65.8% - 98.8%	100.0% N/A - N/A	94.5% 82.7% - 98.4%
Slight (1)		10.0% 1.7% - 40.8%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	2.7% 0.5% - 14.8%
Moderate (2)		0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
Severe (3)		0.0% N/A - N/A	0.0% N/A - N/A	7.4% 1.2% - 34.2%	0.0% N/A - N/A	2.7% 0.5% - 14.8%
Observations		9	11	14	2	36

Table F.12. Question B2.1.1: How severe are your concerns about treatment chemical shortages or supply chain disruptions?

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Fluoride	Mean score (0 to 3)	0.100 -0.064 - 0.264	0.000 0.000 - 0.000	0.074 -0.054 - 0.203	0.000 0.000 - 0.000	0.055 -0.011 - 0.121
	None (0)	90.0% 59.2% - 98.3%	100.0% N/A - N/A	92.6% 65.8% - 98.8%	100.0% N/A - N/A	94.5% 82.7% - 98.4%
	Slight (1)	10.0% 1.7% - 40.8%	0.0% N/A - N/A	7.4% 1.2% - 34.2%	0.0% N/A - N/A	5.5% 1.6% - 17.3%
	Moderate (2)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	9	11	14	2	36
	Gaseous chlorine	Mean score (0 to 3)	0.314 -0.054 - 0.682	0.000 0.000 - 0.000	0.149 -0.023 - 0.321	0.000 0.000 - 0.000
None (0)		78.6% 45.9% - 94.1%	100.0% N/A - N/A	85.1% 59.6% - 95.7%	100.0% N/A - N/A	88.6% 75.0% - 95.3%
Slight (1)		11.4% 1.8% - 48.0%	0.0% N/A - N/A	14.9% 4.3% - 40.4%	0.0% N/A - N/A	8.6% 3.0% - 22.1%
Moderate (2)		10.0% 1.7% - 40.8%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	2.7% 0.5% - 14.8%
Severe (3)		0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
Observations		9	11	14	2	36

Table F.12. Question B2.1.1: How severe are your concerns about treatment chemical shortages or supply chain disruptions?

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Liquid oxygen	Mean score (0 to 3)	0.100 -0.064 - 0.264	0.000 0.000 - 0.000	0.074 -0.054 - 0.203	0.000 0.000 - 0.000	0.055 -0.011 - 0.121
	None (0)	90.0% 59.2% - 98.3%	100.0% N/A - N/A	92.6% 65.8% - 98.8%	100.0% N/A - N/A	94.5% 82.7% - 98.4%
	Slight (1)	10.0% 1.7% - 40.8%	0.0% N/A - N/A	7.4% 1.2% - 34.2%	0.0% N/A - N/A	5.5% 1.6% - 17.3%
	Moderate (2)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	9	11	14	2	36
	Lime	Mean score (0 to 3)	0.214 -0.032 - 0.460	0.000 0.000 - 0.000	0.223 -0.163 - 0.609	0.000 0.000 - 0.000
None (0)		78.6% 45.9% - 94.1%	100.0% N/A - N/A	92.6% 65.8% - 98.8%	100.0% N/A - N/A	91.4% 77.9% - 97.0%
Slight (1)		21.4% 5.9% - 54.1%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	5.9% 1.6% - 19.2%
Moderate (2)		0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
Severe (3)		0.0% N/A - N/A	0.0% N/A - N/A	7.4% 1.2% - 34.2%	0.0% N/A - N/A	2.7% 0.5% - 14.8%
Observations		9	11	14	2	36

Table F.12. Question B2.1.1: How severe are your concerns about treatment chemical shortages or supply chain disruptions?

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Orthophosphate	Mean score (0 to 3)	0.100 -0.064 - 0.264	0.000 0.000 - 0.000	0.074 -0.054 - 0.203	0.000 0.000 - 0.000	0.055 -0.011 - 0.121
	None (0)	90.0% 59.2% - 98.3%	100.0% N/A - N/A	92.6% 65.8% - 98.8%	100.0% N/A - N/A	94.5% 82.7% - 98.4%
	Slight (1)	10.0% 1.7% - 40.8%	0.0% N/A - N/A	7.4% 1.2% - 34.2%	0.0% N/A - N/A	5.5% 1.6% - 17.3%
	Moderate (2)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	9	11	14	2	36
Polymers	Mean score (0 to 3)	0.443 0.012 - 0.873	0.103 -0.071 - 0.276	0.607 0.181 - 1.033	0.000 0.000 - 0.000	0.377 0.161 - 0.593
	None (0)	67.2% 35.6% - 88.3%	89.7% 57.1% - 98.3%	61.7% 38.4% - 80.6%	100.0% N/A - N/A	73.7% 58.6% - 84.7%
	Slight (1)	21.4% 5.9% - 54.1%	10.3% 1.7% - 42.9%	23.4% 8.9% - 49.1%	0.0% N/A - N/A	17.7% 8.8% - 32.4%
	Moderate (2)	11.4% 1.8% - 48.0%	0.0% N/A - N/A	7.4% 1.2% - 34.2%	0.0% N/A - N/A	5.9% 1.6% - 19.2%
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	7.4% 1.2% - 34.2%	0.0% N/A - N/A	2.7% 0.5% - 14.8%
	Observations	9	11	14	2	36

Table F.12. Question B2.1.1: How severe are your concerns about treatment chemical shortages or supply chain disruptions?

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Potassium permanganate	Mean score (0 to 3)	0.214 -0.032 - 0.460	0.000 0.000 - 0.000	0.149 -0.108 - 0.406	0.000 0.000 - 0.000	0.114 -0.006 - 0.233
	None (0)	78.6% 45.9% - 94.1%	100.0% N/A - N/A	92.6% 65.8% - 98.8%	100.0% N/A - N/A	91.4% 77.9% - 97.0%
	Slight (1)	21.4% 5.9% - 54.1%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	5.9% 1.6% - 19.2%
	Moderate (2)	0.0% N/A - N/A	0.0% N/A - N/A	7.4% 1.2% - 34.2%	0.0% N/A - N/A	2.7% 0.5% - 14.8%
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	9	11	14	2	36
	Sodium hydroxide	Mean score (0 to 3)	0.214 -0.032 - 0.460	0.000 0.000 - 0.000	0.149 -0.108 - 0.406	0.000 0.000 - 0.000
None (0)		78.6% 45.9% - 94.1%	100.0% N/A - N/A	92.6% 65.8% - 98.8%	100.0% N/A - N/A	91.4% 77.9% - 97.0%
Slight (1)		21.4% 5.9% - 54.1%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	5.9% 1.6% - 19.2%
Moderate (2)		0.0% N/A - N/A	0.0% N/A - N/A	7.4% 1.2% - 34.2%	0.0% N/A - N/A	2.7% 0.5% - 14.8%
Severe (3)		0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
Observations		9	11	14	2	36

Table F.12. Question B2.1.1: How severe are your concerns about treatment chemical shortages or supply chain disruptions?

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Sodium hypochlorite	Mean score (0 to 3)	0.100 -0.064 - 0.264	0.385 -0.059 - 0.829	0.458 0.016 - 0.900	0.000 0.000 - 0.000	0.314 0.091 - 0.537
	None (0)	90.0% 59.2% - 98.3%	80.7% 50.1% - 94.6%	76.6% 50.9% - 91.1%	100.0% N/A - N/A	82.7% 68.2% - 91.5%
	Slight (1)	10.0% 1.7% - 40.8%	0.0% N/A - N/A	8.5% 1.5% - 36.3%	0.0% N/A - N/A	5.9% 1.6% - 19.2%
	Moderate (2)	0.0% N/A - N/A	19.3% 5.4% - 49.9%	7.4% 1.2% - 34.2%	0.0% N/A - N/A	8.6% 3.0% - 22.1%
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	7.4% 1.2% - 34.2%	0.0% N/A - N/A	2.7% 0.5% - 14.8%
	Observations	9	11	14	2	36

N/A: confidence interval could not be calculated.

Table F.13. Question B2.1.2: For each item, what are you most concerned about? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Carbon dioxide	Unavailable from supplier(s)	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Delayed / backordered from supplier(s)	100.0% N/A - N/A		0.0% N/A - N/A		50.0% 1.7% - 98.3%
	Transportation / distribution difficulties	100.0% N/A - N/A		100.0% N/A - N/A		100.0% N/A - N/A
	Price	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other			0.0% N/A - N/A		0.0% N/A - N/A
	Observations	1		1		2
	Ferric chloride	Unavailable from supplier(s)	0.0% N/A - N/A		0.0% N/A - N/A	
Delayed / backordered from supplier(s)		0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
Transportation / distribution difficulties		100.0% N/A - N/A		100.0% N/A - N/A		100.0% N/A - N/A
Price		0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
Other				0.0% N/A - N/A		0.0% N/A - N/A
Observations		1		1		2

Table F.13. Question B2.1.2: For each item, what are you most concerned about? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Fluoride	Unavailable from supplier(s)	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Delayed / backordered from supplier(s)	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Transportation / distribution difficulties	100.0% N/A - N/A		100.0% N/A - N/A		100.0% N/A - N/A
	Price	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other			0.0% N/A - N/A		0.0% N/A - N/A
	Observations	1		1		2
	Gaseous chlorine	Unavailable from supplier(s)	0.0% N/A - N/A		0.0% N/A - N/A	
Delayed / backordered from supplier(s)		53.4% 13.9% - 89.0%		0.0% N/A - N/A		27.7% 27.7% - 27.7%
Transportation / distribution difficulties		46.6% 11.0% - 86.1%		100.0% N/A - N/A		72.3% 72.3% - 72.3%
Price		0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
Other				0.0% N/A - N/A		0.0% N/A - N/A
Observations		2		2		4

Table F.13. Question B2.1.2: For each item, what are you most concerned about? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Liquid oxygen	Unavailable from supplier(s)	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Delayed / backordered from supplier(s)	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Transportation / distribution difficulties	100.0% N/A - N/A		100.0% N/A - N/A		100.0% N/A - N/A
	Price	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other			0.0% N/A - N/A		0.0% N/A - N/A
	Observations	1		1		2
	Lime	Unavailable from supplier(s)	53.4% 13.3% - 89.5%		0.0% N/A - N/A	
Delayed / backordered from supplier(s)		0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
Transportation / distribution difficulties		46.6% 10.5% - 86.7%		0.0% N/A - N/A		31.8% 2.4% - 89.9%
Price		0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
Other				100.0% N/A - N/A		100.0% N/A - N/A
Observations		2		1		3

Table F.13. Question B2.1.2: For each item, what are you most concerned about? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Orthophosphate	Unavailable from supplier(s)	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Delayed / backordered from supplier(s)	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Transportation / distribution difficulties	100.0% N/A - N/A		100.0% N/A - N/A		100.0% N/A - N/A
	Price	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other			0.0% N/A - N/A		0.0% N/A - N/A
	Observations	1		1		2
	Polymers	Unavailable from supplier(s)	34.8% 3.8% - 87.9%	0.0% N/A - N/A	0.0% N/A - N/A	
Delayed / backordered from supplier(s)		69.6% 19.9% - 95.5%	100.0% N/A - N/A	61.1% 19.0% - 91.3%		68.7% 41.1% - 87.3%
Transportation / distribution difficulties		65.2% 12.1% - 96.2%	0.0% N/A - N/A	58.3% 18.4% - 89.7%		53.7% 25.4% - 79.8%
Price		34.8% 3.8% - 87.9%	0.0% N/A - N/A	0.0% N/A - N/A		12.0% 1.5% - 54.5%
Other				0.0% N/A - N/A		0.0% N/A - N/A
Observations		3	1	5		9

Table F.13. Question B2.1.2: For each item, what are you most concerned about? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Potassium permanganate	Unavailable from supplier(s)	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Delayed / backordered from supplier(s)	53.4% 13.2% - 89.7%		0.0% N/A - N/A		36.4% 36.4% - 36.4%
	Transportation / distribution difficulties	46.6% 10.3% - 86.8%		100.0% N/A - N/A		63.6% 63.6% - 63.6%
	Price	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other			0.0% N/A - N/A		0.0% N/A - N/A
	Observations	2		1		3
	Sodium hydroxide	Unavailable from supplier(s)	0.0% N/A - N/A		0.0% N/A - N/A	
Delayed / backordered from supplier(s)		53.4% 13.5% - 89.4%		0.0% N/A - N/A		36.4% 36.4% - 36.4%
Transportation / distribution difficulties		46.6% 10.6% - 86.5%		100.0% N/A - N/A		63.6% 63.6% - 63.6%
Price		0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
Other				0.0% N/A - N/A		0.0% N/A - N/A
Observations		2		1		3

Table F.13. Question B2.1.2: For each item, what are you most concerned about? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Sodium hypochlorite	Unavailable from supplier(s)	0.0% N/A - N/A	53.4% 6.9% - 94.7%	0.0% N/A - N/A		18.2% 2.0% - 70.6%
	Delayed / backordered from supplier(s)	0.0% N/A - N/A	100.0% N/A - N/A	68.2% 13.7% - 96.7%		68.2% 29.5% - 91.7%
	Transportation / distribution difficulties	100.0% N/A - N/A	53.4% 6.9% - 94.7%	63.6% 15.6% - 94.3%		65.9% 19.3% - 94.0%
	Price	0.0% N/A - N/A	53.4% 6.9% - 94.7%	0.0% N/A - N/A		18.2% 2.0% - 70.6%
	Other			0.0% N/A - N/A		0.0% N/A - N/A
	Observations		1	2	3	6

N/A: confidence interval could not be calculated.

Table F.14. Question B2.1.3: What steps have you taken or are you taking to prepare for potential shortages and supply chain disruptions? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Carbon dioxide	Seek alternative supplier	0.0% N/A - N/A		100.0% N/A - N/A		50.0% 1.7% - 98.3%
	Increase purchasing / maintain a larger than typical inventory	100.0% N/A - N/A		0.0% N/A - N/A		50.0% 1.7% - 98.3%
	Switch chemicals, procedures, or technologies	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Make arrangements with neighboring utilities or mutual aid network	0.0% N/A - N/A		100.0% N/A - N/A		50.0% 1.7% - 98.3%
	Other					
	Observations	1		1		2
Ferric chloride	Seek alternative supplier	0.0% N/A - N/A		100.0% N/A - N/A		50.0% 1.8% - 98.2%
	Increase purchasing / maintain a larger than typical inventory	100.0% N/A - N/A		0.0% N/A - N/A		50.0% 1.8% - 98.2%
	Switch chemicals, procedures, or technologies	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Make arrangements with neighboring utilities or mutual aid network	0.0% N/A - N/A		100.0% N/A - N/A		50.0% 1.8% - 98.2%
	Other					
	Observations	1		1		2

Table F.14. Question B2.1.3: What steps have you taken or are you taking to prepare for potential shortages and supply chain disruptions? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Fluoride	Seek alternative supplier	0.0% N/A - N/A		100.0% N/A - N/A		50.0% 1.8% - 98.2%
	Increase purchasing / maintain a larger than typical inventory	100.0% N/A - N/A		0.0% N/A - N/A		50.0% 1.8% - 98.2%
	Switch chemicals, procedures, or technologies	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Make arrangements with neighboring utilities or mutual aid network	0.0% N/A - N/A		100.0% N/A - N/A		50.0% 1.8% - 98.2%
	Other					
	Observations	1		1		2
Gaseous chlorine	Seek alternative supplier	0.0% N/A - N/A		50.0% 3.3% - 96.7%		24.1% 2.4% - 80.8%
	Increase purchasing / maintain a larger than typical inventory	46.6% 11.0% - 86.1%		50.0% 3.3% - 96.7%		48.2% 12.3% - 86.1%
	Switch chemicals, procedures, or technologies	53.4% 13.9% - 89.0%		0.0% N/A - N/A		27.7% 27.7% - 27.7%
	Make arrangements with neighboring utilities or mutual aid network	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other					
	Observations	2		2		4

Table F.14. Question B2.1.3: What steps have you taken or are you taking to prepare for potential shortages and supply chain disruptions? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Liquid oxygen	Seek alternative supplier	0.0% N/A - N/A		100.0% N/A - N/A		50.0% 1.1% - 98.9%
	Increase purchasing / maintain a larger than typical inventory	100.0% N/A - N/A		0.0% N/A - N/A		50.0% 1.1% - 98.9%
	Switch chemicals, procedures, or technologies	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Make arrangements with neighboring utilities or mutual aid network	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Other					
	Observations	1		1		2
Lime	Seek alternative supplier	53.4% 13.3% - 89.5%		0.0% N/A - N/A		36.4% 36.4% - 36.4%
	Increase purchasing / maintain a larger than typical inventory	46.6% 10.5% - 86.7%		0.0% N/A - N/A		31.8% 2.4% - 89.9%
	Switch chemicals, procedures, or technologies	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Make arrangements with neighboring utilities or mutual aid network	0.0% N/A - N/A		100.0% N/A - N/A		31.8% 2.4% - 89.9%
	Other					
	Observations	2		1		3

Table F.14. Question B2.1.3: What steps have you taken or are you taking to prepare for potential shortages and supply chain disruptions? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Orthophosphate	Seek alternative supplier	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Increase purchasing / maintain a larger than typical inventory	100.0% N/A - N/A		0.0% N/A - N/A		50.0% 1.8% - 98.2%
	Switch chemicals, procedures, or technologies	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Make arrangements with neighboring utilities or mutual aid network	0.0% N/A - N/A		100.0% N/A - N/A		50.0% 1.8% - 98.2%
	Other					
	Observations	1		1		2
Polymers	Seek alternative supplier	34.8% 3.8% - 87.9%	0.0% N/A - N/A	22.3% 3.8% - 67.4%		23.9% 6.8% - 57.4%
	Increase purchasing / maintain a larger than typical inventory	65.2% 12.1% - 96.2%	100.0% N/A - N/A	80.6% 27.8% - 97.8%		77.6% 37.5% - 95.2%
	Switch chemicals, procedures, or technologies	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Make arrangements with neighboring utilities or mutual aid network	0.0% N/A - N/A	0.0% N/A - N/A	19.4% 2.2% - 72.2%		10.4% 1.3% - 50.0%
	Other					
	Observations	3	1	5		9

Table F.14. Question B2.1.3: What steps have you taken or are you taking to prepare for potential shortages and supply chain disruptions? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Potassium permanganate	Seek alternative supplier	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Increase purchasing / maintain a larger than typical inventory	100.0% N/A - N/A		0.0% N/A - N/A		68.2% 10.0% - 97.7%
	Switch chemicals, procedures, or technologies	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Make arrangements with neighboring utilities or mutual aid network	0.0% N/A - N/A		100.0% N/A - N/A		31.8% 2.3% - 90.0%
	Other					
	Observations	2		1		3
Sodium hydroxide	Seek alternative supplier	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Increase purchasing / maintain a larger than typical inventory	100.0% N/A - N/A		0.0% N/A - N/A		68.2% 10.3% - 97.6%
	Switch chemicals, procedures, or technologies	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
	Make arrangements with neighboring utilities or mutual aid network	0.0% N/A - N/A		100.0% N/A - N/A		31.8% 2.4% - 89.7%
	Other					
	Observations	2		1		3

Table F.14. Question B2.1.3: What steps have you taken or are you taking to prepare for potential shortages and supply chain disruptions? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Sodium hypochlorite	Seek alternative supplier	0.0% N/A - N/A	0.0% N/A - N/A	36.4% 5.7% - 84.4%		18.2% 2.0% - 70.6%
	Increase purchasing / maintain a larger than typical inventory	100.0% N/A - N/A	100.0% N/A - N/A	68.2% 13.7% - 96.7%		84.1% 34.7% - 98.1%
	Switch chemicals, procedures, or technologies	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Make arrangements with neighboring utilities or mutual aid network	0.0% N/A - N/A	0.0% N/A - N/A	31.8% 3.3% - 86.3%		15.9% 1.9% - 65.3%
	Other					
	Observations		1	2	3	

N/A: confidence interval could not be calculated.

Table F.15. Question B2.2.1: How severe are your concerns about personal protective equipment shortages or supply chain disruptions?

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
N95 masks and/or elastomeric respirators	Mean score (0 to 3)	0.686 0.185 - 1.187	0.462 0.104 - 0.819	0.628 0.228 - 1.027	0.461 -0.141 - 1.063	0.585 0.361 - 0.808
	None (0)	54.3% 26.0% - 80.0%	62.8% 35.7% - 83.7%	57.4% 34.4% - 77.7%	53.9% 9.4% - 92.9%	58.0% 44.3% - 70.6%
	Slight (1)	22.9% 6.3% - 56.6%	28.2% 11.0% - 55.6%	28.7% 12.5% - 53.3%	46.1% 7.1% - 90.6%	27.9% 17.3% - 41.6%
	Moderate (2)	22.9% 6.3% - 56.6%	9.0% 1.5% - 39.4%	7.4% 1.2% - 34.2%	0.0% N/A - N/A	11.8% 4.8% - 25.9%
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	6.4% 1.2% - 28.4%	0.0% N/A - N/A	2.3% 0.4% - 11.6%
	Observations	9	11	14	2	36
Alternative mask options (surgical, cloth, etc.)	Mean score (0 to 3)	0.457 0.031 - 0.884	0.282 0.048 - 0.517	0.628 0.228 - 1.027	0.461 -0.141 - 1.063	0.467 0.270 - 0.663
	None (0)	65.7% 34.4% - 87.5%	71.8% 44.4% - 89.0%	57.4% 34.4% - 77.7%	53.9% 9.4% - 92.9%	63.9% 50.2% - 75.7%
	Slight (1)	22.9% 6.3% - 56.6%	28.2% 11.0% - 55.6%	28.7% 12.5% - 53.3%	46.1% 7.1% - 90.6%	27.9% 17.3% - 41.6%
	Moderate (2)	11.4% 1.8% - 48.0%	0.0% N/A - N/A	7.4% 1.2% - 34.2%	0.0% N/A - N/A	5.9% 1.6% - 19.2%
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	6.4% 1.2% - 28.4%	0.0% N/A - N/A	2.3% 0.4% - 11.6%
	Observations	9	11	14	2	36

Table F.15. Question B2.2.1: How severe are your concerns about personal protective equipment shortages or supply chain disruptions?

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Face shield and/or protective eye wear	Mean score (0 to 3)	0.686 0.185 - 1.187	0.462 0.104 - 0.819	0.500 0.087 - 0.913	0.461 -0.141 - 1.063	0.538 0.310 - 0.765
	None (0)	54.3% 26.0% - 80.0%	62.8% 35.7% - 83.7%	70.2% 44.8% - 87.2%	53.9% 9.4% - 92.9%	62.7% 48.6% - 74.9%
	Slight (1)	22.9% 6.3% - 56.6%	28.2% 11.0% - 55.6%	16.0% 4.7% - 42.4%	46.1% 7.1% - 90.6%	23.2% 13.3% - 37.1%
	Moderate (2)	22.9% 6.3% - 56.6%	9.0% 1.5% - 39.4%	7.4% 1.2% - 34.2%	0.0% N/A - N/A	11.8% 4.8% - 25.9%
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	6.4% 1.2% - 28.4%	0.0% N/A - N/A	2.3% 0.4% - 11.6%
	Observations	9	11	14	2	36
Nitrile and/or latex gloves	Mean score (0 to 3)	0.801 0.240 - 1.361	0.847 0.257 - 1.437	0.564 0.224 - 0.904	0.922 -0.282 - 2.126	0.734 0.467 - 1.000
	None (0)	54.3% 26.0% - 80.0%	53.8% 28.0% - 77.7%	57.4% 34.4% - 77.7%	53.9% 9.4% - 92.9%	55.3% 41.2% - 68.5%
	Slight (1)	11.4% 1.8% - 48.0%	18.0% 5.2% - 46.7%	28.7% 12.5% - 53.3%	0.0% N/A - N/A	19.2% 10.2% - 33.2%
	Moderate (2)	34.3% 12.5% - 65.6%	17.9% 5.2% - 46.6%	13.8% 3.9% - 38.8%	46.1% 7.1% - 90.6%	22.4% 12.1% - 37.5%
	Severe (3)	0.0% N/A - N/A	10.3% 1.7% - 42.9%	0.0% N/A - N/A	0.0% N/A - N/A	3.1% 0.5% - 16.9%
	Observations	9	11	14	2	36

Table F.15. Question B2.2.1: How severe are your concerns about personal protective equipment shortages or supply chain disruptions?

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Tyvek suite and/or disposable coveralls	Mean score (0 to 3)	0.572 0.151 - 0.992	0.359 0.008 - 0.710	0.447 0.040 - 0.855	0.461 -0.141 - 1.063	0.455 0.235 - 0.675
	None (0)	54.3% 26.0% - 80.0%	73.1% 44.2% - 90.3%	70.2% 44.8% - 87.2%	53.9% 9.4% - 92.9%	65.9% 51.2% - 78.0%
	Slight (1)	34.3% 12.5% - 65.6%	18.0% 5.2% - 46.7%	22.4% 8.2% - 48.0%	46.1% 7.1% - 90.6%	25.5% 15.3% - 39.5%
	Moderate (2)	11.4% 1.8% - 48.0%	9.0% 1.5% - 39.4%	0.0% N/A - N/A	0.0% N/A - N/A	5.9% 1.6% - 19.2%
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	7.4% 1.2% - 34.2%	0.0% N/A - N/A	2.7% 0.5% - 14.8%
	Observations	9	11	14	2	36
Sanitizing wipes, sprays for cleaning work offices, or gels for hand sanitizing	Mean score (0 to 3)	0.915 0.310 - 1.520	0.628 0.098 - 1.158	0.766 0.271 - 1.261	0.922 -0.282 - 2.126	0.773 0.470 - 1.075
	None (0)	54.3% 26.0% - 80.0%	64.1% 36.1% - 84.9%	57.4% 34.4% - 77.7%	53.9% 9.4% - 92.9%	58.4% 43.9% - 71.6%
	Slight (1)	0.0% N/A - N/A	18.0% 5.2% - 46.7%	22.4% 8.2% - 48.0%	0.0% N/A - N/A	13.7% 6.3% - 27.5%
	Moderate (2)	45.7% 20.0% - 74.0%	9.0% 1.5% - 39.4%	6.4% 1.2% - 28.4%	46.1% 7.1% - 90.6%	20.0% 10.8% - 34.2%
	Severe (3)	0.0% N/A - N/A	9.0% 1.5% - 39.4%	13.8% 3.9% - 38.8%	0.0% N/A - N/A	7.8% 2.8% - 19.8%
	Observations	9	11	14	2	36

N/A: confidence interval could not be calculated.

Table F.16. Question B2.2.2: For each item, what are you most concerned about? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
N95 masks and/or elastomeric respirators	Unavailable from supplier(s)	25.0% 3.2% - 77.0%	100.0% N/A - N/A	15.0% 2.2% - 57.9%	0.0% N/A - N/A	40.2% 18.4% - 66.8%
	Delayed / backordered from supplier(s)	100.0% N/A - N/A	0.0% N/A - N/A	50.0% 19.5% - 80.5%	100.0% N/A - N/A	54.2% 29.1% - 77.4%
	Transportation / distribution difficulties	25.0% 3.2% - 77.0%	0.0% N/A - N/A	17.5% 2.2% - 66.8%	0.0% N/A - N/A	14.0% 3.3% - 43.6%
	Price	25.0% 3.2% - 77.0%	0.0% N/A - N/A	32.5% 7.1% - 75.2%	0.0% N/A - N/A	19.6% 6.0% - 48.4%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	4	4	6	1	15
Alternative mask options (surgical, cloth, etc.)	Unavailable from supplier(s)	33.3% 3.9% - 86.0%	63.6% 13.1% - 95.3%	15.0% 2.3% - 57.0%	0.0% N/A - N/A	30.4% 11.8% - 58.8%
	Delayed / backordered from supplier(s)	100.0% N/A - N/A	36.4% 4.7% - 86.9%	35.0% 20.0% - 53.7%	100.0% N/A - N/A	56.6% 33.2% - 77.3%
	Transportation / distribution difficulties	0.0% N/A - N/A	0.0% N/A - N/A	32.5% 6.2% - 77.8%	0.0% N/A - N/A	14.1% 3.4% - 43.6%
	Price	0.0% N/A - N/A	0.0% N/A - N/A	17.5% 1.8% - 70.7%	0.0% N/A - N/A	7.6% 1.0% - 40.3%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	3	3	6	1	13

Table F.16. Question B2.2.2: For each item, what are you most concerned about? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Face shield and/or protective eye wear	Unavailable from supplier(s)	50.0% 11.9% - 88.1%	48.3% 11.5% - 87.0%	0.0% N/A - N/A	0.0% N/A - N/A	31.6% 12.7% - 59.5%
	Delayed / backordered from supplier(s)	75.0% 22.9% - 96.8%	51.7% 13.0% - 88.5%	50.0% 16.2% - 83.8%	100.0% N/A - N/A	62.1% 36.2% - 82.6%
	Transportation / distribution difficulties	25.0% 3.2% - 77.1%	0.0% N/A - N/A	25.0% 2.7% - 80.0%	0.0% N/A - N/A	15.8% 3.7% - 47.9%
	Price	25.0% 3.2% - 77.1%	0.0% N/A - N/A	25.0% 2.7% - 80.0%	0.0% N/A - N/A	15.8% 3.7% - 47.9%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	4	4	4	1	13
Nitrile and/or latex gloves	Unavailable from supplier(s)	50.0% 11.9% - 88.1%	58.3% 17.5% - 90.2%	29.9% 8.7% - 65.8%	0.0% N/A - N/A	43.0% 21.6% - 67.3%
	Delayed / backordered from supplier(s)	100.0% N/A - N/A	41.7% 9.8% - 82.5%	65.0% 26.8% - 90.4%	100.0% N/A - N/A	69.3% 42.8% - 87.2%
	Transportation / distribution difficulties	25.0% 3.2% - 77.0%	0.0% N/A - N/A	32.5% 7.4% - 74.2%	0.0% N/A - N/A	18.4% 5.7% - 45.9%
	Price	25.0% 3.2% - 77.0%	0.0% N/A - N/A	32.5% 7.4% - 74.2%	0.0% N/A - N/A	18.4% 5.7% - 45.9%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	4	5	6	1	16

Table F.16. Question B2.2.2: For each item, what are you most concerned about? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Tyvek suite and/or disposable coveralls	Unavailable from supplier(s)	50.0% 11.4% - 88.6%	66.7% 16.0% - 95.5%	0.0% N/A - N/A	0.0% N/A - N/A	34.5% 14.1% - 62.9%
	Delayed / backordered from supplier(s)	50.0% 11.4% - 88.6%	33.3% 4.5% - 84.0%	50.0% 16.1% - 83.9%	100.0% N/A - N/A	49.4% 26.2% - 72.9%
	Transportation / distribution difficulties	25.0% 3.0% - 78.1%	0.0% N/A - N/A	25.0% 2.7% - 80.1%	0.0% N/A - N/A	17.2% 3.9% - 51.5%
	Price	25.0% 3.0% - 78.1%	0.0% N/A - N/A	25.0% 2.7% - 80.1%	0.0% N/A - N/A	17.2% 3.9% - 51.5%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	4	3	4	1	12
Sanitizing wipes, sprays for cleaning work offices, or gels for hand sanitizing	Unavailable from supplier(s)	75.0% 22.1% - 97.0%	100.0% N/A - N/A	15.0% 2.2% - 58.2%	0.0% N/A - N/A	54.7% 29.6% - 77.7%
	Delayed / backordered from supplier(s)	75.0% 22.1% - 97.0%	0.0% N/A - N/A	65.0% 26.7% - 90.4%	100.0% N/A - N/A	52.8% 27.5% - 76.7%
	Transportation / distribution difficulties	25.0% 3.0% - 77.9%	0.0% N/A - N/A	32.5% 7.4% - 74.2%	0.0% N/A - N/A	19.8% 6.0% - 48.8%
	Price	25.0% 3.0% - 77.9%	0.0% N/A - N/A	32.5% 7.4% - 74.2%	0.0% N/A - N/A	19.8% 6.0% - 48.8%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	4	4	6	1	15

N/A: confidence interval could not be calculated.

Table F.17. Question B2.2.3: What steps have you taken or are you taking to prepare for potential shortages and supply chain disruptions? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
N95 masks and/or elastomeric respirators	Seek alternative supplier	100.0% N/A - N/A	44.7% 11.9% - 82.8%	32.5% 7.1% - 75.2%	0.0% N/A - N/A	54.2% 29.1% - 77.4%
	Increase purchasing / maintain a larger than typical inventory	50.0% 11.9% - 88.1%	75.9% 26.4% - 96.5%	17.5% 2.2% - 66.8%	0.0% N/A - N/A	42.1% 20.4% - 67.3%
	Switch chemicals, procedures, or technologies	25.0% 3.2% - 77.0%	0.0% N/A - N/A	15.0% 2.2% - 57.9%	100.0% N/A - N/A	18.7% 6.4% - 43.7%
	Make arrangements w/ neighboring utilities or mutual aid network	25.0% 3.2% - 77.0%	51.7% 13.1% - 88.4%	17.5% 2.2% - 66.8%	0.0% N/A - N/A	28.1% 11.6% - 53.6%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	15.0% 2.2% - 57.9%	0.0% N/A - N/A	5.6% 0.9% - 28.1%
	Observations	4	4	6	1	15
Alternative mask options (surgical, cloth, etc.)	Seek alternative supplier	100.0% N/A - N/A	27.2% 4.2% - 76.0%	47.4% 12.5% - 85.1%	0.0% N/A - N/A	53.3% 25.5% - 79.1%
	Increase purchasing / maintain a larger than typical inventory	100.0% N/A - N/A	100.0% N/A - N/A	32.5% 6.2% - 77.8%	0.0% N/A - N/A	64.2% 36.5% - 84.8%
	Switch chemicals, procedures, or technologies	33.3% 3.9% - 86.0%	0.0% N/A - N/A	0.0% N/A - N/A	100.0% N/A - N/A	15.2% 3.7% - 45.8%
	Make arrangements w/ neighboring utilities or mutual aid network	0.0% N/A - N/A	36.4% 4.7% - 86.9%	17.5% 1.8% - 70.7%	0.0% N/A - N/A	16.3% 3.7% - 49.4%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	3	3	6	1	13

Table F.17. Question B2.2.3: What steps have you taken or are you taking to prepare for potential shortages and supply chain disruptions? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Face shield and/or protective eye wear	Seek alternative supplier	100.0% N/A - N/A	20.6% 3.0% - 68.4%	25.0% 2.7% - 80.0%	0.0% N/A - N/A	47.4% 22.1% - 74.1%
	Increase purchasing / maintain a larger than typical inventory	25.0% 3.2% - 77.1%	75.9% 26.2% - 96.5%	25.0% 2.7% - 80.0%	0.0% N/A - N/A	39.0% 16.0% - 68.2%
	Switch chemicals, procedures, or technologies	25.0% 3.2% - 77.1%	0.0% N/A - N/A	0.0% N/A - N/A	100.0% N/A - N/A	14.7% 3.5% - 45.0%
	Make arrangements w/ neighboring utilities or mutual aid network	0.0% N/A - N/A	27.6% 3.9% - 78.4%	25.0% 2.7% - 80.0%	0.0% N/A - N/A	15.8% 3.7% - 47.9%
	Other	0.0% N/A - N/A	24.1% 3.5% - 73.8%	0.0% N/A - N/A	0.0% N/A - N/A	7.4% 1.0% - 39.1%
	Observations	4	4	4	1	13
Nitrile and/or latex gloves	Seek alternative supplier	75.0% 23.0% - 96.8%	36.0% 8.6% - 77.0%	47.4% 14.7% - 82.5%	0.0% N/A - N/A	49.1% 25.7% - 72.9%
	Increase purchasing / maintain a larger than typical inventory	75.0% 23.0% - 96.8%	61.2% 26.2% - 87.5%	32.5% 7.4% - 74.2%	100.0% N/A - N/A	57.0% 33.7% - 77.6%
	Switch chemicals, procedures, or technologies	25.0% 3.2% - 77.0%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	7.0% 1.0% - 35.6%
	Make arrangements w/ neighboring utilities or mutual aid network	0.0% N/A - N/A	41.7% 9.8% - 82.5%	17.5% 2.3% - 65.2%	0.0% N/A - N/A	19.3% 6.7% - 44.5%
	Other	0.0% N/A - N/A	19.4% 2.5% - 69.6%	0.0% N/A - N/A	0.0% N/A - N/A	6.1% 0.8% - 33.6%
	Observations	4	5	6	1	16

Table F.17. Question B2.2.3: What steps have you taken or are you taking to prepare for potential shortages and supply chain disruptions? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Tyvek suite and/or disposable coveralls	Seek alternative supplier	100.0% N/A - N/A	28.5% 3.8% - 79.9%	25.0% 2.7% - 80.1%	0.0% N/A - N/A	51.8% 24.6% - 77.9%
	Increase purchasing / maintain a larger than typical inventory	25.0% 3.0% - 78.1%	66.7% 16.0% - 95.5%	25.0% 2.7% - 80.1%	0.0% N/A - N/A	33.3% 11.6% - 65.6%
	Switch chemicals, procedures, or technologies	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Make arrangements w/ neighboring utilities or mutual aid network	0.0% N/A - N/A	38.2% 5.8% - 86.2%	25.0% 2.7% - 80.1%	0.0% N/A - N/A	17.2% 3.9% - 51.5%
	Other	0.0% N/A - N/A	33.3% 4.5% - 84.0%	0.0% N/A - N/A	0.0% N/A - N/A	8.0% 1.1% - 41.8%
	Observations	4	3	4	1	12
Sanitizing wipes, sprays for cleaning work offices, or gels for hand	Seek alternative supplier	75.0% 22.1% - 97.0%	71.3% 23.5% - 95.3%	47.4% 14.7% - 82.5%	0.0% N/A - N/A	59.4% 33.3% - 81.1%
	Increase purchasing / maintain a larger than typical inventory	75.0% 22.1% - 97.0%	75.0% 21.7% - 97.0%	32.5% 7.4% - 74.2%	0.0% N/A - N/A	54.7% 29.6% - 77.7%
	Switch chemicals, procedures, or technologies	50.0% 11.5% - 88.5%	0.0% N/A - N/A	15.0% 2.2% - 58.2%	100.0% N/A - N/A	26.4% 10.5% - 52.3%
	Make arrangements w/ neighboring utilities or mutual aid network	0.0% N/A - N/A	53.6% 13.1% - 89.9%	17.5% 2.3% - 65.2%	0.0% N/A - N/A	20.8% 7.1% - 47.4%
	Other	25.0% 3.0% - 77.9%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	7.6% 1.1% - 38.1%
	Observations	4	4	6	1	15

N/A: confidence interval could not be calculated.

Table F.18. Question B2.3.1: How severe are your concerns about shortages or supply chain disruptions involving durable goods and other critical equipment and supplies, etc.?

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Filter media	Mean score (0 to 3)	0.343 0.047 - 0.639	0.103 -0.073 - 0.278	0.338 0.001 - 0.674	0.000 0.000 - 0.000	0.245 0.091 - 0.399
	None (0)	65.7% 34.0% - 87.7%	89.7% 56.6% - 98.3%	75.0% 47.0% - 91.0%	100.0% N/A - N/A	78.4% 63.1% - 88.5%
	Slight (1)	34.3% 12.3% - 66.0%	10.3% 1.7% - 43.4%	16.2% 4.5% - 44.3%	0.0% N/A - N/A	18.7% 9.6% - 33.3%
	Moderate (2)	0.0% N/A - N/A	0.0% N/A - N/A	8.8% 1.4% - 38.7%	0.0% N/A - N/A	2.9% 0.5% - 15.6%
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	9	11	12	2	34
Granular/ Powdered Activated Carbon (GAC/ PAC)	Mean score (0 to 3)	0.114 -0.088 - 0.317	0.103 -0.073 - 0.278	0.250 0.021 - 0.479	0.000 0.000 - 0.000	0.149 0.035 - 0.264
	None (0)	88.6% 51.3% - 98.3%	89.7% 56.6% - 98.3%	75.0% 47.0% - 91.0%	100.0% N/A - N/A	85.1% 69.9% - 93.3%
	Slight (1)	11.4% 1.7% - 48.7%	10.3% 1.7% - 43.4%	25.0% 9.0% - 53.0%	0.0% N/A - N/A	14.9% 6.7% - 30.1%
	Moderate (2)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	9	11	12	2	34

Table F.18. Question B2.3.1: How severe are your concerns about shortages or supply chain disruptions involving durable goods and other critical equipment and supplies, etc.?

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Membrane modules	Mean score (0 to 3)	0.114 -0.088 - 0.317	0.103 -0.073 - 0.278	0.338 0.001 - 0.674	0.000 0.000 - 0.000	0.178 0.035 - 0.322
	None (0)	88.6% 51.3% - 98.3%	89.7% 56.6% - 98.3%	75.0% 47.0% - 91.0%	100.0% N/A - N/A	85.1% 69.9% - 93.3%
	Slight (1)	11.4% 1.7% - 48.7%	10.3% 1.7% - 43.4%	16.2% 4.5% - 44.3%	0.0% N/A - N/A	12.0% 4.9% - 26.7%
	Moderate (2)	0.0% N/A - N/A	0.0% N/A - N/A	8.8% 1.4% - 38.7%	0.0% N/A - N/A	2.9% 0.5% - 15.6%
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	9	11	12	2	34
Pumps	Mean score (0 to 3)	0.457 0.025 - 0.890	0.525 0.002 - 1.049	0.250 0.021 - 0.479	0.000 0.000 - 0.000	0.386 0.158 - 0.614
	None (0)	65.7% 34.0% - 87.7%	73.1% 43.8% - 90.4%	75.0% 47.0% - 91.0%	100.0% N/A - N/A	73.0% 57.2% - 84.6%
	Slight (1)	22.9% 6.2% - 57.1%	10.3% 1.7% - 43.4%	25.0% 9.0% - 53.0%	0.0% N/A - N/A	18.3% 9.0% - 33.7%
	Moderate (2)	11.4% 1.7% - 48.7%	7.7% 1.4% - 33.2%	0.0% N/A - N/A	0.0% N/A - N/A	5.8% 1.6% - 19.0%
	Severe (3)	0.0% N/A - N/A	9.0% 1.5% - 39.4%	0.0% N/A - N/A	0.0% N/A - N/A	2.9% 0.5% - 15.6%
	Observations	9	11	12	2	34

Table F.18. Question B2.3.1: How severe are your concerns about shortages or supply chain disruptions involving durable goods and other critical equipment and supplies, etc.?

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Motors	Mean score (0 to 3)	0.457 0.025 - 0.890	0.525 0.002 - 1.049	0.338 0.088 - 0.587	0.000 0.000 - 0.000	0.415 0.185 - 0.646
	None (0)	65.7% 34.0% - 87.7%	73.1% 43.8% - 90.4%	66.2% 39.1% - 85.7%	100.0% N/A - N/A	70.1% 54.0% - 82.4%
	Slight (1)	22.9% 6.2% - 57.1%	10.3% 1.7% - 43.4%	33.8% 14.3% - 60.9%	0.0% N/A - N/A	21.2% 11.0% - 37.0%
	Moderate (2)	11.4% 1.7% - 48.7%	7.7% 1.4% - 33.2%	0.0% N/A - N/A	0.0% N/A - N/A	5.8% 1.6% - 19.0%
	Severe (3)	0.0% N/A - N/A	9.0% 1.5% - 39.4%	0.0% N/A - N/A	0.0% N/A - N/A	2.9% 0.5% - 15.6%
	Observations	9	11	12	2	34
Pipes	Mean score (0 to 3)	0.757 0.159 - 1.354	0.256 -0.040 - 0.553	0.250 0.021 - 0.479	0.000 0.000 - 0.000	0.386 0.158 - 0.614
	None (0)	55.7% 26.3% - 81.6%	82.0% 52.7% - 94.9%	75.0% 47.0% - 91.0%	100.0% N/A - N/A	73.0% 57.2% - 84.6%
	Slight (1)	22.9% 6.2% - 57.1%	10.3% 1.7% - 43.4%	25.0% 9.0% - 53.0%	0.0% N/A - N/A	18.3% 9.0% - 33.7%
	Moderate (2)	11.4% 1.7% - 48.7%	7.7% 1.4% - 33.2%	0.0% N/A - N/A	0.0% N/A - N/A	5.8% 1.6% - 19.0%
	Severe (3)	10.0% 1.8% - 40.7%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	2.9% 0.5% - 15.6%
	Observations	9	11	12	2	34

Table F.18. Question B2.3.1: How severe are your concerns about shortages or supply chain disruptions involving durable goods and other critical equipment and supplies, etc.?

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Valves	Mean score (0 to 3)	0.457 0.025 - 0.890	0.628 0.108 - 1.148	0.250 0.021 - 0.479	0.000 0.000 - 0.000	0.419 0.192 - 0.647
	None (0)	65.7% 34.0% - 87.7%	62.8% 35.4% - 83.9%	75.0% 47.0% - 91.0%	100.0% N/A - N/A	69.7% 54.2% - 81.7%
	Slight (1)	22.9% 6.2% - 57.1%	20.6% 6.4% - 49.6%	25.0% 9.0% - 53.0%	0.0% N/A - N/A	21.6% 11.5% - 36.9%
	Moderate (2)	11.4% 1.7% - 48.7%	7.7% 1.4% - 33.2%	0.0% N/A - N/A	0.0% N/A - N/A	5.8% 1.6% - 19.0%
	Severe (3)	0.0% N/A - N/A	9.0% 1.5% - 39.4%	0.0% N/A - N/A	0.0% N/A - N/A	2.9% 0.5% - 15.6%
	Observations	9	11	12	2	34
Fuel	Mean score (0 to 3)	0.457 0.025 - 0.890	0.193 -0.031 - 0.416	0.162 -0.029 - 0.354	0.000 0.000 - 0.000	0.249 0.093 - 0.406
	None (0)	65.7% 34.0% - 87.7%	80.7% 49.8% - 94.7%	83.8% 55.7% - 95.5%	100.0% N/A - N/A	78.4% 63.1% - 88.5%
	Slight (1)	22.9% 6.2% - 57.1%	19.3% 5.3% - 50.2%	16.2% 4.5% - 44.3%	0.0% N/A - N/A	18.3% 9.0% - 33.7%
	Moderate (2)	11.4% 1.7% - 48.7%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	3.3% 0.5% - 18.0%
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	9	11	12	2	34

Table F.18. Question B2.3.1: How severe are your concerns about shortages or supply chain disruptions involving durable goods and other critical equipment and supplies, etc.?

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Vehicles	Mean score (0 to 3)	0.229 -0.036 - 0.494	0.103 -0.073 - 0.278	0.162 -0.029 - 0.354	0.000 0.000 - 0.000	0.154 0.041 - 0.266
	None (0)	77.1% 42.9% - 93.8%	89.7% 56.6% - 98.3%	83.8% 55.7% - 95.5%	100.0% N/A - N/A	84.6% 69.8% - 92.9%
	Slight (1)	22.9% 6.2% - 57.1%	10.3% 1.7% - 43.4%	16.2% 4.5% - 44.3%	0.0% N/A - N/A	15.4% 7.1% - 30.2%
	Moderate (2)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Severe (3)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	9	11	12	2	34

N/A: confidence interval could not be calculated.

Table F.19. Question B2.3.2: For each item, what are you most concerned about? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Filter media	Unavailable from supplier(s)	33.3% 3.2% - 88.5%	100.0% N/A - N/A	0.0% N/A - N/A		30.8% 8.2% - 69.1%
	Delayed / backordered from supplier(s)	66.7% 11.5% - 96.8%	0.0% N/A - N/A	100.0% N/A - N/A		69.2% 30.9% - 91.8%
	Transportation / distribution difficulties	0.0% N/A - N/A	0.0% N/A - N/A	35.0% 2.5% - 91.8%		13.4% 1.6% - 60.3%
	Price	0.0% N/A - N/A	0.0% N/A - N/A	35.0% 2.5% - 91.8%		13.4% 1.6% - 60.3%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	3	1	3		7
	Granular/ Powdered Activated Carbon (GAC/ PAC)	Unavailable from supplier(s)	0.0% N/A - N/A	100.0% N/A - N/A	0.0% N/A - N/A	
Delayed / backordered from supplier(s)		100.0% N/A - N/A	0.0% N/A - N/A	100.0% N/A - N/A		77.7% 21.3% - 97.8%
Transportation / distribution difficulties		0.0% N/A - N/A	0.0% N/A - N/A	35.0% 2.4% - 92.1%		19.4% 2.0% - 74.2%
Price		0.0% N/A - N/A	0.0% N/A - N/A	35.0% 2.4% - 92.1%		19.4% 2.0% - 74.2%
Other		0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
Observations		1	1	3		5

Table F.19. Question B2.3.2: For each item, what are you most concerned about? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Membrane modules	Unavailable from supplier(s)	0.0% N/A - N/A	100.0% N/A - N/A	0.0% N/A - N/A		22.3% 2.1% - 79.5%
	Delayed / backordered from supplier(s)	100.0% N/A - N/A	0.0% N/A - N/A	100.0% N/A - N/A		77.7% 20.5% - 97.9%
	Transportation / distribution difficulties	0.0% N/A - N/A	0.0% N/A - N/A	35.0% 2.3% - 92.5%		19.4% 1.9% - 75.1%
	Price	0.0% N/A - N/A	0.0% N/A - N/A	35.0% 2.3% - 92.5%		19.4% 1.9% - 75.1%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	1	1	3		5
Pumps	Unavailable from supplier(s)	33.3% 3.3% - 88.1%	100.0% N/A - N/A	0.0% N/A - N/A		44.6% 14.6% - 79.2%
	Delayed / backordered from supplier(s)	100.0% N/A - N/A	28.5% 3.7% - 80.5%	100.0% N/A - N/A		76.9% 36.3% - 95.1%
	Transportation / distribution difficulties	0.0% N/A - N/A	0.0% N/A - N/A	35.0% 3.3% - 89.5%		10.8% 1.4% - 51.3%
	Price	0.0% N/A - N/A	0.0% N/A - N/A	35.0% 3.3% - 89.5%		10.8% 1.4% - 51.3%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	3	3	3		9

Table F.19. Question B2.3.2: For each item, what are you most concerned about? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Motors	Unavailable from supplier(s)	33.3% 3.3% - 88.1%	100.0% N/A - N/A	25.9% 2.7% - 81.4%		50.0% 19.0% - 81.0%
	Delayed / backordered from supplier(s)	100.0% N/A - N/A	28.5% 3.7% - 80.4%	74.1% 18.6% - 97.3%		69.4% 35.3% - 90.4%
	Transportation / distribution difficulties	0.0% N/A - N/A	0.0% N/A - N/A	51.9% 11.6% - 89.8%		19.4% 5.7% - 48.9%
	Price	0.0% N/A - N/A	0.0% N/A - N/A	25.9% 2.7% - 81.4%		9.7% 1.3% - 47.6%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	3	3	4		10
	Pipes	Unavailable from supplier(s)	48.3% 10.4% - 88.3%	100.0% N/A - N/A	0.0% N/A - N/A	
Delayed / backordered from supplier(s)		100.0% N/A - N/A	42.7% 4.8% - 91.7%	65.0% 10.5% - 96.7%		76.9% 36.2% - 95.1%
Transportation / distribution difficulties		22.5% 3.6% - 69.1%	0.0% N/A - N/A	35.0% 3.3% - 89.5%		21.5% 7.4% - 48.5%
Price		0.0% N/A - N/A	0.0% N/A - N/A	35.0% 3.3% - 89.5%		10.8% 1.4% - 51.4%
Other		0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
Observations		4	2	3		9

Table F.19. Question B2.3.2: For each item, what are you most concerned about? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Valves	Unavailable from supplier(s)	33.3% 3.6% - 86.9%	72.4% 20.1% - 96.4%	0.0% N/A - N/A		39.7% 13.2% - 74.0%
	Delayed / backordered from supplier(s)	100.0% N/A - N/A	48.3% 10.7% - 87.9%	65.0% 10.5% - 96.7%		69.9% 38.2% - 89.7%
	Transportation / distribution difficulties	0.0% N/A - N/A	0.0% N/A - N/A	35.0% 3.3% - 89.5%		9.6% 1.2% - 47.4%
	Price	0.0% N/A - N/A	0.0% N/A - N/A	35.0% 3.3% - 89.5%		9.6% 1.2% - 47.4%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	3	4	3		10
Fuel	Unavailable from supplier(s)	0.0% N/A - N/A	53.4% 6.8% - 94.7%	0.0% N/A - N/A		15.4% 1.8% - 63.8%
	Delayed / backordered from supplier(s)	33.3% 3.2% - 88.3%	0.0% N/A - N/A	0.0% N/A - N/A		15.4% 1.8% - 63.8%
	Transportation / distribution difficulties	66.7% 11.7% - 96.8%	0.0% N/A - N/A	53.9% 14.1% - 89.3%		44.3% 12.1% - 82.1%
	Price	0.0% N/A - N/A	0.0% N/A - N/A	46.1% 10.7% - 85.9%		11.5% 11.5% - 11.5%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	3	2	2		7

Table F.19. Question B2.3.2: For each item, what are you most concerned about? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Vehicles	Unavailable from supplier(s)	0.0% N/A - N/A	100.0% N/A - N/A	0.0% N/A - N/A		21.7% 2.3% - 76.8%
	Delayed / backordered from supplier(s)	50.0% 3.3% - 96.7%	0.0% N/A - N/A	0.0% N/A - N/A		21.7% 2.3% - 76.8%
	Transportation / distribution difficulties	50.0% 3.3% - 96.7%	0.0% N/A - N/A	53.9% 53.9% - 53.9%		40.5% 10.6% - 79.7%
	Price	0.0% N/A - N/A	0.0% N/A - N/A	46.1% 46.1% - 46.1%		16.2% 16.2% - 16.2%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	2	1	2		5

N/A: confidence interval could not be calculated.

Table F.20. Question B2.3.3: What steps have you taken or are you taking to prepare for potential shortages and supply chain disruptions? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Filter media	Seek alternative supplier	33.3% 3.2% - 88.5%	100.0% N/A - N/A	0.0% N/A - N/A		30.8% 8.2% - 69.1%
	Increase purchasing / maintain a larger than typical inventory	66.7% 11.5% - 96.8%	0.0% N/A - N/A	65.0% 8.2% - 97.5%		55.7% 17.8% - 88.0%
	Switch chemicals, procedures, or technologies	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Make arrangements with neighboring utilities or mutual aid network	0.0% N/A - N/A	0.0% N/A - N/A	35.0% 2.5% - 91.8%		13.4% 1.6% - 60.3%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	3	1	3		7
Granular/ Powdered Activated Carbon (GAC/ PAC)	Seek alternative supplier	0.0% N/A - N/A	100.0% N/A - N/A	0.0% N/A - N/A		22.3% 2.2% - 78.7%
	Increase purchasing / maintain a larger than typical inventory	100.0% N/A - N/A	0.0% N/A - N/A	65.0% 7.9% - 97.6%		58.3% 11.1% - 94.0%
	Switch chemicals, procedures, or technologies	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Make arrangements with neighboring utilities or mutual aid network	0.0% N/A - N/A	0.0% N/A - N/A	35.0% 2.4% - 92.1%		19.4% 2.0% - 74.2%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	1	1	3		5

Table F.20. Question B2.3.3: What steps have you taken or are you taking to prepare for potential shortages and supply chain disruptions? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Membrane modules	Seek alternative supplier	0.0% N/A - N/A	100.0% N/A - N/A	0.0% N/A - N/A		22.3% 2.1% - 79.5%
	Increase purchasing / maintain a larger than typical inventory	100.0% N/A - N/A	0.0% N/A - N/A	65.0% 7.5% - 97.7%		58.3% 10.6% - 94.3%
	Switch chemicals, procedures, or technologies	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Make arrangements with neighboring utilities or mutual aid network	0.0% N/A - N/A	0.0% N/A - N/A	35.0% 2.3% - 92.5%		19.4% 1.9% - 75.1%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	1	1	3		5
Pumps	Seek alternative supplier	33.3% 3.3% - 88.1%	66.7% 15.8% - 95.5%	0.0% N/A - N/A		33.9% 10.8% - 68.4%
	Increase purchasing / maintain a larger than typical inventory	66.7% 11.9% - 96.7%	0.0% N/A - N/A	65.0% 10.5% - 96.7%		44.6% 14.6% - 79.2%
	Switch chemicals, procedures, or technologies	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Make arrangements with neighboring utilities or mutual aid network	0.0% N/A - N/A	0.0% N/A - N/A	35.0% 3.3% - 89.5%		10.8% 1.4% - 51.3%
	Other	0.0% N/A - N/A	33.3% 4.5% - 84.2%	0.0% N/A - N/A		10.8% 1.4% - 51.3%
	Observations	3	3	3		9

Table F.20. Question B2.3.3: What steps have you taken or are you taking to prepare for potential shortages and supply chain disruptions? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Motors	Seek alternative supplier	33.3% 3.3% - 88.1%	66.7% 15.9% - 95.5%	0.0% N/A - N/A		30.6% 10.0% - 63.5%
	Increase purchasing / maintain a larger than typical inventory	66.7% 11.9% - 96.7%	0.0% N/A - N/A	74.1% 18.6% - 97.3%		50.0% 19.0% - 81.0%
	Switch chemicals, procedures, or technologies	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Make arrangements with neighboring utilities or mutual aid network	0.0% N/A - N/A	0.0% N/A - N/A	25.9% 2.7% - 81.4%		9.7% 1.3% - 47.6%
	Other	0.0% N/A - N/A	33.3% 4.5% - 84.1%	0.0% N/A - N/A		9.7% 1.3% - 47.6%
	Observations	3	3	4		10
Pipes	Seek alternative supplier	25.8% 2.8% - 80.9%	100.0% N/A - N/A	0.0% N/A - N/A		33.9% 10.8% - 68.4%
	Increase purchasing / maintain a larger than typical inventory	51.7% 11.7% - 89.6%	0.0% N/A - N/A	65.0% 10.5% - 96.7%		44.6% 14.6% - 79.2%
	Switch chemicals, procedures, or technologies	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Make arrangements with neighboring utilities or mutual aid network	22.5% 3.6% - 69.1%	0.0% N/A - N/A	35.0% 3.3% - 89.5%		21.5% 7.4% - 48.5%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	4	2	3		9

Table F.20. Question B2.3.3: What steps have you taken or are you taking to prepare for potential shortages and supply chain disruptions? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Valves	Seek alternative supplier	33.3% 3.6% - 86.9%	48.3% 10.7% - 87.9%	0.0% N/A - N/A		30.2% 9.5% - 64.0%
	Increase purchasing / maintain a larger than typical inventory	66.7% 13.1% - 96.4%	27.6% 3.6% - 79.9%	65.0% 10.5% - 96.7%		50.7% 20.2% - 80.7%
	Switch chemicals, procedures, or technologies	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Make arrangements with neighboring utilities or mutual aid network	0.0% N/A - N/A	0.0% N/A - N/A	35.0% 3.3% - 89.5%		9.6% 1.2% - 47.4%
	Other	0.0% N/A - N/A	24.1% 3.5% - 73.6%	0.0% N/A - N/A		9.6% 1.2% - 47.4%
	Observations	3	4	3		10
Fuel	Seek alternative supplier	33.3% 3.2% - 88.3%	53.4% 6.8% - 94.7%	0.0% N/A - N/A		30.8% 8.2% - 68.9%
	Increase purchasing / maintain a larger than typical inventory	66.7% 11.7% - 96.8%	0.0% N/A - N/A	46.1% 10.7% - 85.9%		42.3% 15.3% - 74.8%
	Switch chemicals, procedures, or technologies	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Make arrangements with neighboring utilities or mutual aid network	0.0% N/A - N/A	0.0% N/A - N/A	53.9% 14.1% - 89.3%		13.4% 1.6% - 60.0%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	3	2	2		7

Table F.20. Question B2.3.3: What steps have you taken or are you taking to prepare for potential shortages and supply chain disruptions? (select all that apply)

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Supply Chain Issue	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Vehicles	Seek alternative supplier	0.0% N/A - N/A	100.0% N/A - N/A	0.0% N/A - N/A		21.7% 2.3% - 76.8%
	Increase purchasing / maintain a larger than typical inventory	50.0% 3.3% - 96.7%	0.0% N/A - N/A	0.0% N/A - N/A		21.7% 2.3% - 76.8%
	Switch chemicals, procedures, or technologies	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Make arrangements with neighboring utilities or mutual aid network	50.0% 3.3% - 96.7%	0.0% N/A - N/A	53.9% 53.9% - 53.9%		40.5% 10.6% - 79.7%
	Other	0.0% N/A - N/A	0.0% N/A - N/A	46.1% 46.1% - 46.1%		16.2% 16.2% - 16.2%
	Observations	2	1	2		5

N/A: confidence interval could not be calculated.

Table F.21. Question B3: Has your organization made any requests for personnel, supplies, or equipment to your tribal, local, or state emergency operations center (EOC), primacy agency, or similar organization?

Alaska Native Village Utilities

Estimates and 95 Percent Confidence Intervals

Response	Percentage Reporting by Population Served				
	< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Yes, entirely fulfilled	25.4% 6.8% - 61.3%	18.3% 5.1% - 48.2%	8.8% 1.4% - 39.5%	0.0% N/A - N/A	15.9% 7.0% - 31.9%
Yes, partly fulfilled	49.2% 20.5% - 78.4%	39.4% 16.3% - 68.5%	41.2% 19.2% - 67.4%	0.0% N/A - N/A	40.5% 25.8% - 57.2%
Yes, not fulfilled	0.0% N/A - N/A	9.9% 1.6% - 42.7%	0.0% N/A - N/A	0.0% N/A - N/A	3.1% 0.5% - 16.8%
No, support was not needed	0.0% N/A - N/A	22.6% 7.0% - 53.2%	35.0% 15.7% - 61.0%	0.0% N/A - N/A	19.4% 9.5% - 35.5%
No, but we would have used it if it had been available or if we had known of it	0.0% N/A - N/A	9.9% 1.6% - 42.7%	7.5% 1.3% - 33.1%	46.1% 6.8% - 91.0%	8.4% 3.1% - 20.6%
Do not know	25.4% 6.8% - 61.3%	0.0% N/A - N/A	7.5% 1.3% - 33.1%	53.9% 9.0% - 93.2%	12.8% 5.2% - 28.3%
Observations	8	10	12	2	32

N/A: confidence interval could not be calculated.

Table F.22. Question C.1: To what extent did your organization experience shortages of key personnel, including contractors performing critical functions to maintain operations, from January 2020 through present day?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Personnel Type	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Licensed or certified operators	Mean Score (0-3)	0.77 0.20 - 1.34	0.00 0.00 - 0.00	0.35 0.02 - 0.68	0.00 0.00 - 0.00	0.36 0.13 - 0.59
	No Shortage (0)	55.7% 26.2% - 81.7%	100.0% N/A - N/A	73.7% 46.1% - 90.2%	100.0% N/A - N/A	77.1% 60.7% - 88.0%
	Slight Shortage (1)	11.4% 1.7% - 48.8%	0.0% N/A - N/A	17.5% 5.0% - 46.3%	0.0% N/A - N/A	9.7% 3.4% - 24.8%
	Moderate Shortage (2)	32.8% 11.5% - 64.9%	0.0% N/A - N/A	8.8% 1.4% - 39.5%	0.0% N/A - N/A	13.2% 5.4% - 29.0%
	Severe Shortage (3)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
Laboratory technicians/ sample analysts	Mean Score (0-3)	0.21 -0.04 - 0.46	0.38 -0.26 - 1.01	0.47 -0.03 - 0.98	0.00 0.00 - 0.00	0.34 0.07 - 0.60
	No Shortage (0)	78.6% 45.4% - 94.2%	87.5% 50.2% - 98.0%	71.6% 42.7% - 89.5%	100.0% N/A - N/A	80.1% 63.6% - 90.2%
	Slight Shortage (1)	21.4% 5.8% - 54.6%	0.0% N/A - N/A	18.9% 5.3% - 49.3%	0.0% N/A - N/A	13.1% 5.4% - 28.7%
	Moderate Shortage (2)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Severe Shortage (3)	0.0% N/A - N/A	12.5% 2.0% - 49.8%	9.5% 1.5% - 41.9%	0.0% N/A - N/A	6.8% 1.8% - 22.2%

Table F.22. Question C.1: To what extent did your organization experience shortages of key personnel, including contractors performing critical functions to maintain operations, from January 2020 through present day?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Personnel Type	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Field Workers (meter reading, sampling, maintenance, etc.)	Mean Score (0-3)	0.67 0.15 - 1.19	0.00 0.00 - 0.00	0.51 0.04 - 0.99	0.00 0.00 - 0.00	0.39 0.14 - 0.64
	No Shortage (0)	55.7% 26.2% - 81.7%	100.0% N/A - N/A	66.2% 38.8% - 85.9%	100.0% N/A - N/A	74.4% 57.7% - 86.2%
	Slight Shortage (1)	21.4% 5.8% - 54.6%	0.0% N/A - N/A	25.0% 8.8% - 53.4%	0.0% N/A - N/A	15.4% 6.9% - 31.0%
	Moderate Shortage (2)	22.9% 6.2% - 57.1%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	7.1% 2.1% - 21.6%
	Severe Shortage (3)	0.0% N/A - N/A	0.0% N/A - N/A	8.8% 1.4% - 39.5%	0.0% N/A - N/A	3.1% 0.5% - 16.8%
Engineering/ design/ construction personnel	Mean Score (0-3)	0.00 0.00 - 0.00	0.00 0.00 - 0.00	0.60 -0.01 - 1.21	0.92 -0.30 - 2.15	0.26 0.02 - 0.51
	No Shortage (0)	100.0% N/A - N/A	100.0% N/A - N/A	75.0% 46.6% - 91.2%	53.9% 9.0% - 93.2%	88.6% 75.2% - 95.2%
	Slight Shortage (1)	0.0% N/A - N/A	0.0% N/A - N/A	7.5% 1.3% - 33.1%	0.0% N/A - N/A	2.6% 0.5% - 13.4%
	Moderate Shortage (2)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	46.1% 6.8% - 91.0%	2.6% 0.5% - 13.4%
	Severe Shortage (3)	0.0% N/A - N/A	0.0% N/A - N/A	17.5% 5.0% - 46.3%	0.0% N/A - N/A	6.2% 1.8% - 19.4%

Table F.22. Question C.1: To what extent did your organization experience shortages of key personnel, including contractors performing critical functions to maintain operations, from January 2020 through present day?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Personnel Type	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Critical equipment repair	Mean Score (0-3)	0.56 0.02 - 1.09	0.61 -0.09 - 1.31	0.35 -0.12 - 0.82	0.92 -0.30 - 2.15	0.52 0.20 - 0.84
	No Shortage (0)	67.2% 35.1% - 88.5%	79.7% 48.2% - 94.3%	82.5% 53.7% - 95.0%	53.9% 9.0% - 93.2%	75.3% 58.8% - 86.7%
	Slight Shortage (1)	10.0% 1.7% - 41.3%	0.0% N/A - N/A	8.8% 1.4% - 39.5%	0.0% N/A - N/A	6.2% 1.8% - 19.4%
	Moderate Shortage (2)	22.9% 6.2% - 57.1%	0.0% N/A - N/A	0.0% N/A - N/A	46.1% 6.8% - 91.0%	9.7% 3.5% - 24.2%
	Severe Shortage (3)	0.0% N/A - N/A	20.3% 5.7% - 51.8%	8.8% 1.4% - 39.5%	0.0% N/A - N/A	8.8% 3.1% - 22.3%
Administrative	Mean Score (0-3)	0.44 0.01 - 0.88	0.09 -0.06 - 0.25	0.16 -0.03 - 0.36	0.92 -0.30 - 2.15	0.27 0.09 - 0.45
	No Shortage (0)	67.2% 35.1% - 88.5%	90.7% 61.2% - 98.4%	83.8% 55.4% - 95.5%	53.9% 9.0% - 93.2%	78.9% 63.2% - 89.0%
	Slight Shortage (1)	21.4% 5.8% - 54.6%	9.3% 1.6% - 38.8%	16.2% 4.5% - 44.6%	0.0% N/A - N/A	15.0% 6.7% - 30.1%
	Moderate Shortage (2)	11.4% 1.7% - 48.8%	0.0% N/A - N/A	0.0% N/A - N/A	46.1% 6.8% - 91.0%	6.2% 1.7% - 20.1%
	Severe Shortage (3)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A

Table F.22. Question C.1: To what extent did your organization experience shortages of key personnel, including contractors performing critical functions to maintain operations, from January 2020 through present day?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Personnel Type	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Customer Service	Mean Score (0-3)	0.33 -0.09 - 0.75	0.00 0.00 - 0.00	0.41 -0.10 - 0.93	0.92 -0.30 - 2.15	0.30 0.06 - 0.54
	No Shortage (0)	78.6% 45.4% - 94.2%	100.0% N/A - N/A	83.8% 55.4% - 95.5%	53.9% 9.0% - 93.2%	85.0% 69.9% - 93.3%
	Slight Shortage (1)	10.0% 1.7% - 41.3%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	3.1% 0.5% - 16.8%
	Moderate Shortage (2)	11.4% 1.7% - 48.8%	0.0% N/A - N/A	7.5% 1.3% - 33.1%	46.1% 6.8% - 91.0%	8.8% 3.2% - 21.9%
	Severe Shortage (3)	0.0% N/A - N/A	0.0% N/A - N/A	8.8% 1.4% - 39.5%	0.0% N/A - N/A	3.1% 0.5% - 16.8%
Other	Mean Score (0-3)			2.08 2.08 - 2.08		2.08 2.08 - 2.08
	No Shortage (0)			0.0% N/A - N/A		0.0% N/A - N/A
	Slight Shortage (1)			46.1% 46.1% - 46.1%		46.1% 46.1% - 46.1%
	Moderate Shortage (2)			0.0% N/A - N/A		0.0% N/A - N/A
	Severe Shortage (3)			53.9% 53.9% - 53.9%		53.9% 53.9% - 53.9%
Observations		9	9	12	2	32

N/A: confidence interval could not be calculated.

Table F.23. Question C.2: To what extent do you expect to experience shortages of key personnel, including contractors performing critical functions to maintain operations, from present day through December 2020?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Personnel Type	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Licensed or certified operators	Mean Score (0-3)	0.51 0.03 - 0.98	0.00 0.00 - 0.00	0.34 0.08 - 0.59	0.00 0.00 - 0.00	0.27 0.09 - 0.45
	No Shortage (0)	61.9% 29.1% - 86.5%	100.0% N/A - N/A	66.2% 38.6% - 86.0%	100.0% N/A - N/A	76.8% 59.7% - 88.1%
	Slight Shortage (1)	25.4% 6.8% - 61.4%	0.0% N/A - N/A	33.8% 14.0% - 61.4%	0.0% N/A - N/A	19.5% 9.4% - 36.4%
	Moderate Shortage (2)	12.7% 1.9% - 52.3%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	3.6% 0.6% - 19.6%
	Severe Shortage (3)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
Laboratory technicians/ sample analysts	Mean Score (0-3)	0.13 -0.10 - 0.35	0.09 -0.06 - 0.25	0.28 -0.22 - 0.78	0.00 0.00 - 0.00	0.16 -0.03 - 0.36
	No Shortage (0)	87.3% 47.7% - 98.1%	90.7% 60.1% - 98.4%	90.5% 57.7% - 98.5%	100.0% N/A - N/A	90.2% 74.4% - 96.7%
	Slight Shortage (1)	12.7% 1.9% - 52.3%	9.3% 1.6% - 39.9%	0.0% N/A - N/A	0.0% N/A - N/A	6.5% 1.8% - 21.4%
	Moderate Shortage (2)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Severe Shortage (3)	0.0% N/A - N/A	0.0% N/A - N/A	9.5% 1.5% - 42.3%	0.0% N/A - N/A	3.3% 0.5% - 17.9%

Table F.23. Question C.2: To what extent do you expect to experience shortages of key personnel, including contractors performing critical functions to maintain operations, from present day through December 2020?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Personnel Type	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Field Workers (meter reading, sampling, maintenance, etc.)	Mean Score (0-3)	0.67 0.25 - 1.09	0.25 -0.17 - 0.68	0.57 -0.01 - 1.16	0.00 0.00 - 0.00	0.48 0.21 - 0.76
	No Shortage (0)	44.3% 18.3% - 73.8%	87.5% 50.2% - 98.0%	75.0% 46.6% - 91.2%	100.0% N/A - N/A	70.5% 54.3% - 82.7%
	Slight Shortage (1)	44.3% 18.3% - 73.8%	0.0% N/A - N/A	8.8% 1.4% - 39.5%	0.0% N/A - N/A	16.8% 7.7% - 32.6%
	Moderate Shortage (2)	11.4% 1.7% - 48.8%	12.5% 2.0% - 49.8%	0.0% N/A - N/A	0.0% N/A - N/A	7.1% 2.1% - 21.6%
	Severe Shortage (3)	0.0% N/A - N/A	0.0% N/A - N/A	16.2% 4.5% - 44.6%	0.0% N/A - N/A	5.7% 1.6% - 18.5%
Engineering/design/construction personnel	Mean Score (0-3)	0.13 -0.10 - 0.35	0.00 0.00 - 0.00	0.57 -0.09 - 1.23	0.46 -0.16 - 1.08	0.26 0.01 - 0.52
	No Shortage (0)	87.3% 47.7% - 98.1%	100.0% N/A - N/A	81.1% 50.4% - 94.7%	53.9% 8.7% - 93.5%	86.9% 70.7% - 94.8%
	Slight Shortage (1)	12.7% 1.9% - 52.3%	0.0% N/A - N/A	0.0% N/A - N/A	46.1% 6.5% - 91.3%	6.5% 1.8% - 21.4%
	Moderate Shortage (2)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Severe Shortage (3)	0.0% N/A - N/A	0.0% N/A - N/A	18.9% 5.3% - 49.6%	0.0% N/A - N/A	6.5% 1.9% - 20.6%

Table F.23. Question C.2: To what extent do you expect to experience shortages of key personnel, including contractors performing critical functions to maintain operations, from present day through December 2020?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Personnel Type	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Critical equipment repair	Mean Score (0-3)	0.13 -0.10 - 0.35	0.19 -0.12 - 0.50	0.43 -0.05 - 0.90	0.00 0.00 - 0.00	0.25 0.03 - 0.46
	No Shortage (0)	87.3% 47.7% - 98.1%	90.7% 61.2% - 98.4%	75.0% 46.4% - 91.2%	100.0% N/A - N/A	84.6% 68.9% - 93.1%
	Slight Shortage (1)	12.7% 1.9% - 52.3%	0.0% N/A - N/A	16.2% 4.4% - 44.8%	0.0% N/A - N/A	9.5% 3.3% - 24.8%
	Moderate Shortage (2)	0.0% N/A - N/A	9.3% 1.6% - 38.8%	0.0% N/A - N/A	0.0% N/A - N/A	2.7% 0.5% - 13.8%
	Severe Shortage (3)	0.0% N/A - N/A	0.0% N/A - N/A	8.8% 1.4% - 39.9%	0.0% N/A - N/A	3.2% 0.5% - 17.4%
Administrative	Mean Score (0-3)	0.38 0.06 - 0.71	0.00 0.00 - 0.00	0.24 -0.05 - 0.53	0.46 -0.15 - 1.08	0.22 0.07 - 0.37
	No Shortage (0)	61.9% 29.1% - 86.5%	100.0% N/A - N/A	83.8% 55.2% - 95.6%	53.9% 8.9% - 93.3%	80.4% 64.3% - 90.4%
	Slight Shortage (1)	38.1% 13.5% - 70.9%	0.0% N/A - N/A	8.8% 1.4% - 39.9%	46.1% 6.7% - 91.1%	16.8% 7.7% - 32.9%
	Moderate Shortage (2)	0.0% N/A - N/A	0.0% N/A - N/A	7.5% 1.3% - 33.0%	0.0% N/A - N/A	2.7% 0.5% - 13.8%
	Severe Shortage (3)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A

Table F.23. Question C.2: To what extent do you expect to experience shortages of key personnel, including contractors performing critical functions to maintain operations, from present day through December 2020?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Personnel Type	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Customer Service	Mean Score (0-3)	0.13 -0.10 - 0.35	0.00 0.00 - 0.00	0.41 -0.11 - 0.93	0.46 -0.15 - 1.08	0.21 0.01 - 0.42
	No Shortage (0)	87.3% 47.7% - 98.1%	100.0% N/A - N/A	83.8% 55.2% - 95.6%	53.9% 8.9% - 93.3%	87.7% 72.9% - 95.0%
	Slight Shortage (1)	12.7% 1.9% - 52.3%	0.0% N/A - N/A	0.0% N/A - N/A	46.1% 6.7% - 91.1%	6.4% 1.7% - 20.7%
	Moderate Shortage (2)	0.0% N/A - N/A	0.0% N/A - N/A	7.5% 1.3% - 33.0%	0.0% N/A - N/A	2.7% 0.5% - 13.8%
	Severe Shortage (3)	0.0% N/A - N/A	0.0% N/A - N/A	8.8% 1.4% - 39.9%	0.0% N/A - N/A	3.2% 0.5% - 17.4%
	Other	Mean Score (0-3)			2.08 2.08 - 2.08	
	No Shortage (0)			0.0% N/A - N/A		0.0% N/A - N/A
	Slight Shortage (1)			46.1% 46.1% - 46.1%		46.1% 46.1% - 46.1%
	Moderate Shortage (2)			0.0% N/A - N/A		0.0% N/A - N/A
	Severe Shortage (3)			53.9% 53.9% - 53.9%		53.9% 53.9% - 53.9%
Observations		9	9	12	2	32

N/A: confidence interval could not be calculated.

Table F.24. Question C.3: What factors contribute to personnel shortages you identified in questions C.1 and C.2? (check all that apply)

Alaska Native Village Utilities

Estimates and 95 Percent Confidence Intervals

Factor	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Absenteeism (illness, care of family members, daycare closure, virtual schooling, etc.)	Mean Score (0-2)	1.41 0.95 - 1.87	1.15 -0.13 - 2.43	1.73 1.25 - 2.21	1.00 1.00 - 1.00	1.44 1.07 - 1.80
	Does Not Contribute (0)	0.0% N/A - N/A	42.7% 5.2% - 91.1%	0.0% N/A - N/A	0.0% N/A - N/A	7.0% 1.1% - 34.8%
	Contributes Somewhat (1)	58.9% 17.9% - 90.4%	0.0% N/A - N/A	26.9% 3.1% - 81.2%	100.0% N/A - N/A	42.4% 17.8% - 71.3%
	Contributes Significantly (2)	41.1% 9.6% - 82.1%	57.3% 8.9% - 94.8%	73.1% 18.8% - 96.9%	0.0% N/A - N/A	50.6% 23.1% - 77.8%
Layoffs or furloughs	Mean Score (0-2)	0.50 -0.05 - 1.05	0.00 0.00 - 0.00	1.04 0.36 - 1.72	0.00 0.00 - 0.00	0.61 0.26 - 0.97
	Does Not Contribute (0)	50.0% 10.0% - 90.0%	100.0% N/A - N/A	23.1% 3.7% - 70.2%	100.0% N/A - N/A	48.6% 22.4% - 75.5%
	Contributes Somewhat (1)	50.0% 10.0% - 90.0%	0.0% N/A - N/A	50.0% 7.6% - 92.4%	0.0% N/A - N/A	41.5% 14.2% - 75.2%
	Contributes Significantly (2)	0.0% N/A - N/A	0.0% N/A - N/A	26.9% 2.3% - 85.1%	0.0% N/A - N/A	10.0% 1.3% - 49.0%
Reduced work hours of current staff	Mean Score (0-2)	1.00 0.23 - 1.77	0.00 0.00 - 0.00	1.00 -0.25 - 2.25	0.00 0.00 - 0.00	0.83 0.22 - 1.44
	Does Not Contribute (0)	25.0% 2.6% - 80.7%	100.0% N/A - N/A	50.0% 7.6% - 92.4%	100.0% N/A - N/A	47.1% 19.1% - 77.0%
	Contributes Somewhat (1)	50.0% 10.1% - 89.9%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	22.9% 6.7% - 55.2%
	Contributes Significantly (2)	25.0% 2.6% - 80.7%	0.0% N/A - N/A	50.0% 7.6% - 92.4%	0.0% N/A - N/A	30.0% 8.2% - 67.4%

Table F.24. Question C.3: What factors contribute to personnel shortages you identified in questions C.1 and C.2? (check all that apply)

Alaska Native Village Utilities

Estimates and 95 Percent Confidence Intervals

Factor	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Delayed or cancelled plans to hire staff	Mean Score (0-2)	0.75 -0.16 - 1.66	0.00 0.00 - 0.00	0.54 -0.54 - 1.62	0.00 0.00 - 0.00	0.54 -0.03 - 1.11
	Does Not Contribute (0)	50.0% 10.0% - 90.0%	100.0% N/A - N/A	73.1% 14.9% - 97.7%	100.0% N/A - N/A	67.1% 32.6% - 89.6%
	Contributes Somewhat (1)	25.0% 2.6% - 80.7%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	11.5% 1.5% - 52.5%
	Contributes Significantly (2)	25.0% 2.6% - 80.7%	0.0% N/A - N/A	26.9% 2.3% - 85.1%	0.0% N/A - N/A	21.4% 4.6% - 60.6%
Lack of backup certified personnel	Mean Score (0-2)	1.00 0.36 - 1.64	1.00 1.00 - 1.00	1.27 0.43 - 2.11	0.00 0.00 - 0.00	1.01 0.56 - 1.47
	Does Not Contribute (0)	20.5% 2.2% - 74.5%	0.0% N/A - N/A	23.1% 3.3% - 72.4%	100.0% N/A - N/A	26.0% 8.5% - 57.1%
	Contributes Somewhat (1)	58.9% 17.0% - 91.0%	100.0% N/A - N/A	26.9% 3.1% - 81.2%	0.0% N/A - N/A	46.8% 19.5% - 76.1%
	Contributes Significantly (2)	20.5% 2.2% - 74.5%	0.0% N/A - N/A	50.0% 9.4% - 90.6%	0.0% N/A - N/A	27.3% 7.6% - 62.9%
Operators unable to obtain or maintain needed certification due to lack of in-person training	Mean Score (0-2)	1.00 0.36 - 1.64	2.00 2.00 - 2.00	1.00 -0.13 - 2.13	1.00 1.00 - 1.00	1.08 0.56 - 1.60
	Does Not Contribute (0)	20.5% 2.2% - 74.5%	0.0% N/A - N/A	50.0% 9.4% - 90.6%	0.0% N/A - N/A	27.3% 7.6% - 62.9%
	Contributes Somewhat (1)	58.9% 17.0% - 91.0%	0.0% N/A - N/A	0.0% N/A - N/A	100.0% N/A - N/A	37.7% 13.4% - 70.3%
	Contributes Significantly (2)	20.5% 2.2% - 74.5%	100.0% N/A - N/A	50.0% 9.4% - 90.6%	0.0% N/A - N/A	35.0% 12.1% - 67.9%

Table F.24. Question C.3: What factors contribute to personnel shortages you identified in questions C.1 and C.2? (check all that apply)

Alaska Native Village Utilities

Estimates and 95 Percent Confidence Intervals

Factor	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Restrictions on travel	Mean Score (0-2)	1.38 0.64 - 2.13	1.72 1.25 - 2.18	1.79 1.40 - 2.17	2.00 2.00 - 2.00	1.63 1.27 - 1.98
	Does Not Contribute (0)	20.5% 2.4% - 72.7%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	8.1% 1.1% - 40.6%
	Contributes Somewhat (1)	20.5% 2.4% - 72.7%	28.5% 4.0% - 79.2%	21.2% 2.7% - 72.7%	0.0% N/A - N/A	21.2% 6.3% - 51.8%
	Contributes Significantly (2)	58.9% 18.0% - 90.4%	71.5% 20.8% - 96.0%	78.8% 27.3% - 97.3%	100.0% N/A - N/A	70.7% 41.3% - 89.2%
Lack of I.T. infrastructure (e.g., equipment, network capacity)	Mean Score (0-2)	0.50 -0.05 - 1.05	2.00 2.00 - 2.00	1.00 -0.05 - 2.05	1.00 1.00 - 1.00	0.86 0.37 - 1.34
	Does Not Contribute (0)	50.0% 10.0% - 90.0%	0.0% N/A - N/A	26.9% 2.3% - 85.1%	0.0% N/A - N/A	32.9% 10.4% - 67.4%
	Contributes Somewhat (1)	50.0% 10.0% - 90.0%	0.0% N/A - N/A	46.1% 23.0% - 71.0%	100.0% N/A - N/A	48.6% 22.4% - 75.5%
	Contributes Significantly (2)	0.0% N/A - N/A	100.0% N/A - N/A	26.9% 2.3% - 85.1%	0.0% N/A - N/A	18.5% 4.2% - 54.1%
Other	Mean Score (0-2)	0.00 0.00 - 0.00	0.00 0.00 - 0.00	0.00 0.00 - 0.00		0.00 0.00 - 0.00
	Does Not Contribute (0)	100.0% N/A - N/A	100.0% N/A - N/A	100.0% N/A - N/A		100.0% N/A - N/A
	Contributes Somewhat (1)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Contributes Significantly (2)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
Observations		5	3	5	1	14

N/A: confidence interval could not be calculated.

Table F.25. Question C.4: What strategies or resources has your organization used to address potential shortages of certified operators, laboratory staff, or other trained personnel during the COVID-19 pandemic? (select all that apply)

Alaska Native Village Utilities

Estimates and 95 Percent Confidence Intervals

Strategy or Resource	Percentage Reporting by Population Served				
	< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Used technology to allow some operational tasks to be performed remotely	35.4% 13.0% - 66.8%	40.8% 14.5% - 73.6%	35.0% 13.1% - 65.9%	46.1% 6.4% - 91.4%	37.5% 23.0% - 54.7%
Used telework for job functions that could be performed remotely	48.3% 20.1% - 77.7%	26.5% 7.1% - 63.1%	0.0% N/A - N/A	100.0% N/A - N/A	30.4% 16.2% - 49.8%
Decreased staffing/changed shift work while maintaining core operations	51.7% 22.3% - 79.9%	0.0% N/A - N/A	45.0% 18.6% - 74.5%	46.1% 6.4% - 91.4%	35.3% 20.1% - 54.3%
Delayed non-critical work	51.7% 22.3% - 79.9%	32.7% 10.7% - 66.4%	46.7% 21.5% - 73.7%	46.1% 6.4% - 91.4%	44.6% 29.0% - 61.4%
Increased use of contractors	24.2% 6.3% - 60.3%	0.0% N/A - N/A	10.0% 1.7% - 42.1%	0.0% N/A - N/A	11.4% 3.8% - 29.7%
Accessed operators from nearby utilities, via WARN or other mutual aid networks	0.0% N/A - N/A	0.0% N/A - N/A	11.7% 1.8% - 49.3%	0.0% N/A - N/A	3.8% 0.6% - 20.9%
Utilized backup laboratory services	12.9% 1.8% - 54.2%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	4.4% 0.7% - 23.6%
Other	12.9% 1.8% - 54.2%	14.3% 2.2% - 55.2%	21.7% 5.7% - 55.8%	0.0% N/A - N/A	15.2% 5.9% - 33.9%
Observations	8	7	9	2	26

N/A: confidence interval could not be calculated.

Table F.26. Question C.4.1: Did the strategies you implemented help mitigate staffing shortages?

Alaska Native Village Utilities

Estimates and 95 Percent Confidence Intervals

Strategy or Resource	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Used technology (e.g., live video feeds) to allow some operational tasks to be performed remotely	Strategy Did Not Help	0.0%	30.0%	0.0%	100.0%	17.4%
		N/A - N/A	4.8% - 78.3%	N/A - N/A	N/A - N/A	6.0% - 41.0%
	Strategy Helped	68.2%	35.0%	66.7%	0.0%	52.2%
		17.7% - 95.5%	5.1% - 84.3%	16.2% - 95.4%	N/A - N/A	25.4% - 77.8%
	Not Sure	31.8%	35.0%	33.3%	0.0%	30.4%
		4.5% - 82.3%	5.1% - 84.3%	4.6% - 83.8%	N/A - N/A	10.8% - 61.1%
Used telework for job functions that could be performed remotely	Strategy Did Not Help	0.0%	0.0%		0.0%	0.0%
		N/A - N/A	N/A - N/A		N/A - N/A	N/A - N/A
	Strategy Helped	76.7%	100.0%		100.0%	87.5%
		28.2% - 96.5%	N/A - N/A		N/A - N/A	48.7% - 98.1%
	Not Sure	23.3%	0.0%		0.0%	12.5%
		3.5% - 71.8%	N/A - N/A		N/A - N/A	1.9% - 51.3%
Decreased staffing/changed shift work while maintaining core operations	Strategy Did Not Help	50.0%		22.2%	0.0%	33.9%
		12.4% - 87.6%		3.8% - 67.5%	N/A - N/A	12.0% - 65.9%
	Strategy Helped	50.0%		51.9%	100.0%	55.4%
		12.4% - 87.6%		14.4% - 87.4%	N/A - N/A	25.3% - 82.0%
	Not Sure	0.0%		25.9%	0.0%	10.8%
		N/A - N/A		3.8% - 75.7%	N/A - N/A	1.7% - 45.6%
Delayed non-critical work	Strategy Did Not Help	0.0%	0.0%	0.0%	0.0%	0.0%
		N/A - N/A	N/A - N/A	N/A - N/A	N/A - N/A	N/A - N/A
	Strategy Helped	75.0%	50.0%	100.0%	100.0%	80.5%
		23.9% - 96.6%	5.9% - 94.1%	N/A - N/A	N/A - N/A	48.8% - 94.7%
	Not Sure	25.0%	50.0%	0.0%	0.0%	19.5%
		3.4% - 76.1%	5.9% - 94.1%	N/A - N/A	N/A - N/A	5.3% - 51.2%

Table F.26. Question C.4.1: Did the strategies you implemented help mitigate staffing shortages?

Alaska Native Village Utilities

Estimates and 95 Percent Confidence Intervals

Strategy or Resource	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Increased use of contractors	Strategy Did Not Help	0.0% N/A - N/A		100.0% N/A - N/A		28.5% 4.4% - 77.7%
	Strategy Helped	100.0% N/A - N/A		0.0% N/A - N/A		71.5% 22.3% - 95.6%
	Not Sure	0.0% N/A - N/A		0.0% N/A - N/A		0.0% N/A - N/A
Accessed operators from nearby utilities, including via WARN or other mutual aid networks	Strategy Did Not Help			0.0% N/A - N/A		0.0% N/A - N/A
	Strategy Helped			100.0% N/A - N/A		100.0% N/A - N/A
	Not Sure			0.0% N/A - N/A		0.0% N/A - N/A
Utilized backup laboratory services	Strategy Did Not Help	0.0% N/A - N/A				0.0% N/A - N/A
	Strategy Helped	100.0% N/A - N/A				100.0% N/A - N/A
	Not Sure	0.0% N/A - N/A				0.0% N/A - N/A
Other	Strategy Did Not Help	0.0% N/A - N/A	100.0% N/A - N/A	46.1% 6.4% - 91.4%		46.4% 11.9% - 84.7%
	Strategy Helped	0.0% N/A - N/A	0.0% N/A - N/A	53.9% 8.6% - 93.6%		25.0% 3.7% - 74.2%
	Not Sure	100.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		28.7% 4.7% - 76.4%
Observations		4	3	4	2	11

N/A: confidence interval could not be calculated.

Table F.27. Question C.5: What is the greatest concern your organization has associated with maintaining staffing during the pandemic? (select one)

Alaska Native Village Utilities

Estimates and 95 Percent Confidence Intervals

Concern	Percentage Reporting by Population Served				
	< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Availability of testing for illness	37.1% 12.7% - 70.4%	12.5% 2.0% - 50.4%	18.2% 5.7% - 44.7%	0.0% N/A - N/A	21.0% 10.3% - 38.0%
Availability of PPE	0.0% N/A - N/A	34.4% 12.3% - 66.3%	10.6% 1.6% - 45.7%	0.0% N/A - N/A	14.1% 5.7% - 30.8%
Ability to house personnel on site	11.3% 1.9% - 45.6%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	3.4% 0.5% - 18.8%
Cross-training personnel	0.0% N/A - N/A	12.5% 2.0% - 50.4%	0.0% N/A - N/A	0.0% N/A - N/A	3.9% 0.6% - 21.1%
Protecting high-risk employees	38.7% 13.9% - 71.3%	18.7% 6.2% - 44.5%	19.7% 5.3% - 51.8%	46.1% 6.7% - 91.1%	26.8% 15.1% - 43.0%
Adhering to changing local and state	12.9% 1.9% - 53.3%	10.9% 1.7% - 46.4%	42.5% 20.0% - 68.5%	53.9% 8.9% - 93.3%	24.4% 13.4% - 40.2%
Other	0.0% N/A - N/A	10.9% 1.7% - 46.4%	9.1% 1.6% - 38.6%	0.0% N/A - N/A	6.3% 1.7% - 20.5%
Observations	8	9	10	2	29

N/A: confidence interval could not be calculated.

Table F.28. Question D1.1.2: Please indicate the state of your organization's operating budget from January 2020 to the present

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Parameter	Average Operating Budget by Population Served (Dollars)				
	< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Budgeted Revenue	\$22,547 \$18,476 - \$26,617	\$195,381 \$142,517 - \$248,245	\$183,638 \$181,346 - \$185,929		\$149,598 \$120,515 - \$178,682
Actual Revenue	\$16,716 \$8,332 - \$25,100	\$137,697 \$123,170 - \$152,224	\$122,786 \$118,100 - \$127,471		\$101,937 \$76,212 - \$127,662
Budgeted Expenses	\$51,035 \$17,084 - \$84,985	\$196,448 \$141,529 - \$251,367	\$183,638 \$181,346 - \$185,929		\$156,303 \$131,772 - \$180,834
Actual Expenses	\$56,389 \$10,821 - \$101,957	\$148,751 \$123,353 - \$174,149	\$122,786 \$118,100 - \$127,471		\$113,359 \$94,420 - \$132,297
Observations	2	3	2		7

Table F.29. Average Budgeted and Actual Net Revenue (Calculated)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Parameter	Average Net Revenue by Population Served (Dollars)				
	< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Budgeted Net	-\$28,488	-\$1,067	\$0		-\$6,705
Revenue	-\$58,369 - \$1,393	-\$3,482 - \$1,348	N/A - N/A		-\$15,947 - \$2,538
Actual Net	-\$39,673	-\$11,054	\$0		-\$11,422
Revenue	-\$93,625 - \$14,279	-\$30,163 - \$8,055	N/A - N/A		-\$27,460 - \$4,616
Observations	2	3	2		7

Table F.30. Percentage of Utilities with a Deficit/Loss, and Total Deficit/Loss at Those Utilities (Calculated)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Parameter	Utility Deficits by Population Served (Dollars in Millions)				
	< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Percentage of Utilities with Deficit/Loss	100% N/A - N/A	48% 10% - 89%	0% N/A - N/A		33% 14% - 59%
Total Deficit/Loss (Utilities with Deficit/Loss)	\$1.6 -\$1.0 - \$4.2	\$0.6 \$0.4 - \$0.7			\$2.2 -\$0.4 - \$4.8
Observations	2	3	2		7

Table F.31. Average Difference between Actual and Budgeted Net Revenue, Percentage of Utilities with a Shortfall, and Total Shortfall at Those Utilities (Calculated)

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Parameter	Difference between Actual and Budgeted Net Revenue by Population Served				
	< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Average Difference in Net Revenue (Actual Minus Budgeted Net Revenue)	-\$11,185 -\$35,256 - \$12,886	-\$9,987 -\$27,388 - \$7,414	\$0 N/A - N/A		-\$4,717 -\$11,805 - \$2,371
Percentage of Utilities with Shortfall	50% 3% - 97%	48% 10% - 89%	0% N/A - N/A		22% 6% - 53%
Total Shortfall in Utilities with Shortfall (Millions of Dollars)	\$0.5 \$0.5 - \$0.5	\$0.5 \$0.4 - \$0.6	\$0.0 N/A - N/A		\$1.0 \$1.0 - \$1.1
Observations	2	3	2		7

N/A: confidence interval could not be calculated.

Table F.32. Question D.1.2: Your answers indicate that actual operating revenue was lower than budgeted during the January to present period. What COVID-19-related factors contributed to this?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Factor	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Nonpayment of bills	Mean Score (0 to 2)	1.00 N/A - N/A	0.00 N/A - N/A	0.00 N/A - N/A		0.20 -0.18 - 0.57
	Not a Contributor (0)	0.0% N/A - N/A	100.0% N/A - N/A	100.0% N/A - N/A		80.4% 27.0% - 97.9%
	Contributor (1)	100.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		19.6% 2.1% - 73.0%
	Significant Contributor (2)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Do Not Know	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
Decreased use	Mean Score (0 to 2)	1.00 N/A - N/A	0.00 N/A - N/A	0.00 N/A - N/A		0.20 -0.18 - 0.57
	Not a Contributor (0)	0.0% N/A - N/A	100.0% N/A - N/A	100.0% N/A - N/A		80.4% 27.0% - 97.9%
	Contributor (1)	100.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		19.6% 2.1% - 73.0%
	Significant Contributor (2)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Do Not Know	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A

Table F.32. Question D.1.2: Your answers indicate that actual operating revenue was lower than budgeted during the January to present period. What COVID-19-related factors contributed to this?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Factor	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Reduction in rates/fees	Mean Score (0 to 2)	0.00 N/A - N/A	0.00 N/A - N/A	0.00 N/A - N/A		0.00 N/A - N/A
	Not a Contributor (0)	100.0% N/A - N/A	100.0% N/A - N/A	100.0% N/A - N/A		100.0% N/A - N/A
	Contributor (1)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Significant Contributor (2)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Do Not Know	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
Observations		1	3	2		6

N/A: confidence interval could not be calculated.

Table F.33. Question D.1.3: Your answers indicate that actual operating expenses were higher than budgeted during the January to present period. What COVID-19-related factors contributed?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Factor	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Personnel Costs	Mean Score (0 to 2)	0.00 N/A - N/A				0.00 N/A - N/A
	Not a Contributor (0)	100.0% N/A - N/A				100.0% N/A - N/A
	Contributor (1)	0.0% N/A - N/A				0.0% N/A - N/A
	Significant Contributor (2)	0.0% N/A - N/A				0.0% N/A - N/A
	Do Not Know	0.0% N/A - N/A				0.0% N/A - N/A
Consumables	Mean Score (0 to 2)	0.00 N/A - N/A				0.00 N/A - N/A
	Not a Contributor (0)	100.0% N/A - N/A				100.0% N/A - N/A
	Contributor (1)	0.0% N/A - N/A				0.0% N/A - N/A
	Significant Contributor (2)	0.0% N/A - N/A				0.0% N/A - N/A
	Do Not Know	0.0% N/A - N/A				0.0% N/A - N/A

Table F.33. Question D.1.3: Your answers indicate that actual operating expenses were higher than budgeted during the January to present period. What COVID-19-related factors contributed?

Alaska Native Village Utilities

January to the Present

Estimates and 95 Percent Confidence Intervals

Factor	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Utilities Costs	Mean Score (0 to 2)	1.00 N/A - N/A				1.00 N/A - N/A
	Not a Contributor (0)	0.0% N/A - N/A				0.0% N/A - N/A
	Contributor (1)	100.0% N/A - N/A				100.0% N/A - N/A
	Significant Contributor (2)	0.0% N/A - N/A				0.0% N/A - N/A
	Do Not Know	0.0% N/A - N/A				0.0% N/A - N/A
PPE	Mean Score (0 to 2)	1.00 N/A - N/A				1.00 N/A - N/A
	Not a Contributor (0)	0.0% N/A - N/A				0.0% N/A - N/A
	Contributor (1)	100.0% N/A - N/A				100.0% N/A - N/A
	Significant Contributor (2)	0.0% N/A - N/A				0.0% N/A - N/A
	Do Not Know	0.0% N/A - N/A				0.0% N/A - N/A
Observations		1				1

N/A: confidence interval could not be calculated.

Table F.34. Question D.2.1: Do you expect your financial situation for the remainder of the year to improve, to worsen, or to stay about the same, compared with the January to present timeframe?

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Value Type	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Operating Revenue	Mean Score (0 to 2)	1.00 N/A - N/A	1.37 1.03 - 1.70	1.12 0.78 - 1.46	2.00 N/A - N/A	1.21 1.02 - 1.40
	Improve (0)	0.0% N/A - N/A	0.0% N/A - N/A	10.0% 1.7% - 42.0%	0.0% 0.0% - 0.0%	3.2% 0.6% - 16.8%
	Stay About the Same (1)	70.9% 33.0% - 92.3%	63.2% 29.6% - 87.5%	68.4% 37.6% - 88.5%	0.0% 0.0% - 0.0%	62.7% 44.4% - 78.0%
	Worsen (2)	0.0% N/A - N/A	36.8% 12.5% - 70.4%	21.7% 5.6% - 56.1%	46.1% 6.4% - 91.5%	21.6% 10.6% - 39.1%
	Do Not Know	29.1% 7.7% - 67.0%	0.0% N/A - N/A	0.0% N/A - N/A	53.9% 8.5% - 93.6%	12.5% 4.3% - 30.9%
Operating Expenses	Mean Score (0 to 2)	1.00 N/A - N/A	1.37 1.03 - 1.70	1.22 0.95 - 1.48	1.00 N/A - N/A	1.22 1.05 - 1.39
	Improve (0)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Stay About the Same (1)	58.2% 24.7% - 85.5%	63.2% 29.6% - 87.5%	78.3% 43.9% - 94.4%	46.1% 6.4% - 91.5%	65.4% 46.0% - 80.7%
	Worsen (2)	0.0% N/A - N/A	36.8% 12.5% - 70.4%	21.7% 5.6% - 56.1%	0.0% N/A - N/A	18.4% 8.1% - 36.6%
	Do Not Know	41.8% 14.5% - 75.3%	0.0% N/A - N/A	0.0% N/A - N/A	53.9% 8.5% - 93.6%	16.2% 6.5% - 35.1%
Observations		7	8	9	2	26

N/A: confidence interval could not be calculated.

Table F.35. Question D.2.2: To what COVID-19-related factors do you attribute the worsening outlook for operating revenue in the remainder of 2020?

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Factor	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Nonpayment of bills	Mean Score (0 to 2)		1.62 1.30 - 1.94	1.00 N/A - N/A	1.00 N/A - N/A	1.32 0.88 - 1.77
	Not a Contributor (0)		0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Contributor (1)		38.2% 13.7% - 70.7%	100.0% N/A - N/A	100.0% N/A - N/A	67.5% 21.7% - 94.0%
	Significant Contributor (2)		61.8% 29.3% - 86.3%	0.0% N/A - N/A	0.0% N/A - N/A	32.5% 6.0% - 78.3%
	Do Not Know		0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
Decreased use	Mean Score (0 to 2)		1.05 0.37 - 1.73	0.54 -0.13 - 1.21	0.00 N/A - N/A	0.73 0.28 - 1.17
	Not a Contributor (0)		33.3% 5.7% - 80.5%	46.1% 5.4% - 92.7%	100.0% N/A - N/A	47.4% 13.3% - 84.1%
	Contributor (1)		28.5% 4.8% - 76.1%	53.9% 7.3% - 94.6%	0.0% N/A - N/A	32.5% 6.0% - 78.3%
	Significant Contributor (2)		38.2% 13.7% - 70.7%	0.0% N/A - N/A	0.0% N/A - N/A	20.1% 20.1% - 20.1%
	Do Not Know		0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A

Table F.35. Question D.2.2: To what COVID-19-related factors do you attribute the worsening outlook for operating revenue in the remainder of 2020?

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Factor	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Reduction in rates/fees	Mean Score (0 to 2)		0.76 0.12 - 1.41	1.00 N/A - N/A	0.00 N/A - N/A	0.73 0.28 - 1.17
	Not a Contributor (0)		61.8% 29.3% - 86.3%	0.0% N/A - N/A	100.0% N/A - N/A	47.4% 13.3% - 84.1%
	Contributor (1)		0.0% N/A - N/A	100.0% N/A - N/A	0.0% N/A - N/A	32.5% 6.0% - 78.3%
	Significant Contributor (2)		38.2% 13.7% - 70.7%	0.0% N/A - N/A	0.0% N/A - N/A	20.1% N/A - N/A
	Do Not Know		0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
Observations			3	2	1	6

N/A: confidence interval could not be calculated.

Table F.36. Question D.2.3: To what COVID-19-related factors do you attribute the worsening outlook for operating expenses in the remainder of 2020?

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Factor	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Personnel Costs	Mean Score (0 to 2)		1.33 0.39 - 2.28	1.46 0.78 - 2.14		1.38 0.98 - 1.79
	Not a Contributor (0)		33.3% 5.6% - 80.7%	0.0% N/A - N/A		20.6% 2.1% - 75.4%
	Contributor (1)		0.0% N/A - N/A	53.9% 7.0% - 94.8%		20.6% 2.1% - 75.4%
	Significant Contributor (2)		66.7% 19.3% - 94.4%	46.1% 5.2% - 93.0%		58.8% N/A - N/A
	Do Not Know		0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
Consumables	Mean Score (0 to 2)		1.62 1.29 - 1.94	1.46 0.78 - 2.14		1.56 1.15 - 1.96
	Not a Contributor (0)		0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Contributor (1)		38.2% 13.5% - 71.0%	53.9% 7.0% - 94.8%		44.2% 13.4% - 80.3%
	Significant Contributor (2)		61.8% 29.0% - 86.5%	46.1% 5.2% - 93.0%		55.8% 19.7% - 86.6%
	Do Not Know		0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A

Table F.36. Question D.2.3: To what COVID-19-related factors do you attribute the worsening outlook for operating expenses in the remainder of 2020?

Alaska Native Village Utilities

Present to December

Estimates and 95 Percent Confidence Intervals

Factor	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Utilities Costs	Mean Score (0 to 2)		2.00 N/A - N/A	1.46 0.78 - 2.14		1.79 1.39 - 2.20
	Not a Contributor (0)		0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Contributor (1)		0.0% N/A - N/A	53.9% 7.0% - 94.8%		20.6% 2.1% - 75.4%
	Significant Contributor (2)		100.0% N/A - N/A	46.1% 5.2% - 93.0%		79.4% 24.6% - 97.9%
	Do Not Know		0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
PPE	Mean Score (0 to 2)		1.43 0.57 - 2.29	1.46 0.78 - 2.14		1.44 0.66 - 2.23
	Not a Contributor (0)		28.5% 4.6% - 76.8%	0.0% N/A - N/A		17.6% 2.1% - 68.5%
	Contributor (1)		0.0% N/A - N/A	53.9% 7.0% - 94.8%		20.6% 2.1% - 75.4%
	Significant Contributor (2)		71.5% 23.2% - 95.4%	46.1% 5.2% - 93.0%		61.8% 14.9% - 93.7%
	Do Not Know		0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
Observations			3	2		5

N/A: confidence interval could not be calculated.

Table F.37. Question D.3.1: If your organization has experienced or anticipates a decrease in cash flow due to COVID-19, what mitigating actions are you taking or planning? (select all that apply)

Alaska Native Village Utilities

Estimates and 95 Percent Confidence Intervals

Response	Percentage Reporting by Population Served				
	< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Drawing down days cash on hand	0.0% N/A - N/A	14.1% 2.1% - 55.0%	26.4% 7.2% - 62.6%	0.0% N/A - N/A	13.5% 4.5% - 33.9%
Drawing on reserve funds	34.1% 8.8% - 73.5%	26.3% 6.8% - 63.5%	24.5% 6.2% - 61.4%	100.0% N/A - N/A	30.7% 15.5% - 51.6%
Delaying maintenance	17.0% 2.4% - 63.5%	63.2% 29.1% - 87.8%	37.7% 12.7% - 71.7%	0.0% N/A - N/A	39.3% 21.9% - 59.9%
Reducing staff hours	17.0% 2.4% - 63.5%	21.0% 6.9% - 48.7%	51.0% 21.0% - 80.2%	0.0% N/A - N/A	28.8% 14.9% - 48.4%
Reducing staff pay and/or benefits	0.0% N/A - N/A	10.5% 1.8% - 43.4%	0.0% N/A - N/A	0.0% N/A - N/A	3.7% 0.6% - 18.8%
Laying off staff	0.0% N/A - N/A	0.0% N/A - N/A	24.5% 6.2% - 61.4%	0.0% N/A - N/A	8.0% 2.1% - 25.9%
Incurring additional debt	14.8% 2.5% - 54.7%	24.6% 6.5% - 60.4%	13.2% 1.9% - 54.7%	0.0% N/A - N/A	17.2% 6.6% - 37.8%
Refinancing debt and/or deferring debt payments	0.0% N/A - N/A	14.1% 2.1% - 55.0%	26.4% 7.2% - 62.6%	0.0% N/A - N/A	13.5% 4.5% - 33.9%
Delaying/canceling capital improvement projects	17.0% 2.4% - 63.5%	36.8% 12.2% - 70.9%	22.6% 7.3% - 51.9%	100.0% N/A - N/A	28.8% 15.4% - 47.3%
Adjusting rates higher than originally planned	34.1% 8.8% - 73.5%	35.1% 12.8% - 66.4%	0.0% N/A - N/A	0.0% N/A - N/A	22.1% 10.4% - 41.0%
Not applicable (no decrease in cash flow)	17.0% 2.4% - 63.5%	12.3% 1.8% - 51.3%	11.3% 1.9% - 46.0%	0.0% N/A - N/A	12.9% 4.2% - 33.2%
Observations	6	8	8	1	23

N/A: confidence interval could not be calculated.

Table F.38. Question D.3.2: What type of impact do you think these actions are making or will make in mitigating the decrease in your organization’s cash flow?

Alaska Native Village Utilities

Estimates and 95 Percent Confidence Intervals

Action	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Drawing down days cash on hand	Mean Score (1 to 2)			2.00 N/A - N/A		2.00 N/A - N/A
	Small Impact (1)		0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Large Impact (2)		0.0% N/A - N/A	50.0% 2.0% - 98.0%		31.8% 2.6% - 89.1%
	Do Not Know		100.0% N/A - N/A	50.0% 2.0% - 98.0%		68.2% 10.9% - 97.4%
	Observations		1	2		3
Drawing on reserve funds	Mean Score (1 to 2)	1.50 0.67 - 2.33	1.47 0.99 - 1.94	1.00 N/A - N/A		1.41 0.99 - 1.82
	Small Impact (1)	50.0% 3.5% - 96.5%	53.4% 7.0% - 94.6%	46.1% 5.4% - 92.8%	0.0% 0.0% - 0.0%	44.0% 14.3% - 78.7%
	Large Impact (2)	50.0% 3.5% - 96.5%	46.6% 5.4% - 93.0%	0.0% N/A - N/A	0.0% 0.0% - 0.0%	30.0% 5.7% - 75.1%
	Do Not Know	0.0% N/A - N/A	0.0% N/A - N/A	53.9% 7.2% - 94.6%	100.0% 0.0% - 0.0%	25.9% 5.3% - 68.8%
	Observations	2	2	2	1	7
Delaying maintenance	Mean Score (1 to 2)	2.00 N/A - N/A	1.78 1.37 - 2.18	1.35 0.75 - 1.95		1.67 1.31 - 2.04
	Small Impact (1)	0.0% N/A - N/A	22.3% 2.7% - 75.0%	65.0% 11.9% - 96.2%		32.8% 8.5% - 71.9%
	Large Impact (2)	100.0% N/A - N/A	77.7% 25.0% - 97.3%	35.0% 3.8% - 88.1%		67.2% 28.1% - 91.5%
	Do Not Know	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Observations	1	5	3		9

Table F.38. Question D.3.2: What type of impact do you think these actions are making or will make in mitigating the decrease in your organization’s cash flow?

Alaska Native Village Utilities

Estimates and 95 Percent Confidence Intervals

Action	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Reducing staff hours	Mean Score (1 to 2)	2.00 N/A - N/A	1.00 N/A - N/A	1.33 0.68 - 1.99		1.37 1.03 - 1.70
	Small Impact (1)	0.0% N/A - N/A	100.0% N/A - N/A	51.9% 10.6% - 90.8%		55.3% 21.2% - 85.0%
	Large Impact (2)	100.0% N/A - N/A	0.0% N/A - N/A	25.9% 2.3% - 83.9%		32.0% 11.0% - 64.2%
	Do Not Know	0.0% N/A - N/A	0.0% N/A - N/A	22.2% 4.2% - 65.1%		12.7% 1.7% - 55.7%
	Observations	1	2	4		7
Reducing staff pay and/or benefits	Mean Score (1 to 2)		1.00 N/A - N/A			1.00 N/A - N/A
	Small Impact (1)		100.0% N/A - N/A			100.0% N/A - N/A
	Large Impact (2)		0.0% N/A - N/A			0.0% N/A - N/A
	Do Not Know		0.0% N/A - N/A			0.0% N/A - N/A
	Observations		1			1
Laying off staff	Mean Score (1 to 2)			2.00 N/A - N/A		2.00 N/A - N/A
	Small Impact (1)			0.0% N/A - N/A		0.0% N/A - N/A
	Large Impact (2)			53.9% 53.9% - 53.9%		53.9% 53.9% - 53.9%
	Do Not Know			46.1% 46.1% - 46.1%		46.1% 46.1% - 46.1%
	Observations			2		2

Table F.38. Question D.3.2: What type of impact do you think these actions are making or will make in mitigating the decrease in your organization’s cash flow?

Alaska Native Village Utilities

Estimates and 95 Percent Confidence Intervals

Action	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Incurring additional debt	Mean Score (1 to 2)		2.00 N/A - N/A	2.00 N/A - N/A		2.00 N/A - N/A
	Small Impact (1)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Large Impact (2)	0.0% N/A - N/A	42.7% 42.7% - 42.7%	100.0% N/A - N/A		46.4% 10.6% - 86.3%
	Do Not Know	100.0% N/A - N/A	57.3% 57.3% - 57.3%	0.0% N/A - N/A		53.6% 13.7% - 89.4%
	Observations	1	2	1		4
Refinancing debt and/or deferring debt payments	Mean Score (1 to 2)			2.00 N/A - N/A		2.00 N/A - N/A
	Small Impact (1)		0.0% N/A - N/A	0.0% N/A - N/A		0.0% N/A - N/A
	Large Impact (2)		0.0% N/A - N/A	50.0% 1.8% - 98.2%		31.8% 2.5% - 89.6%
	Do Not Know		100.0% N/A - N/A	50.0% 1.8% - 98.2%		68.2% 10.4% - 97.5%
	Observations		1	2		3
Delaying/ canceling capital improvement projects	Mean Score (1 to 2)	2.00 N/A - N/A	2.00 N/A - N/A	1.00 N/A - N/A	1.00 N/A - N/A	1.62 1.39 - 1.85
	Small Impact (1)	0.0% N/A - N/A	0.0% N/A - N/A	100.0% N/A - N/A	100.0% N/A - N/A	38.2% 18.8% - 62.3%
	Large Impact (2)	100.0% N/A - N/A	100.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	61.8% 37.7% - 81.2%
	Do Not Know	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
	Observations	1	3	2	1	7

Table F.38. Question D.3.2: What type of impact do you think these actions are making or will make in mitigating the decrease in your organization’s cash flow?

Alaska Native Village Utilities

Estimates and 95 Percent Confidence Intervals

Action	Response	Percentage Reporting by Population Served				
		< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Adjusting rates higher than originally planned	Mean Score (1 to 2)	1.00 N/A - N/A	1.00 N/A - N/A			1.00 N/A - N/A
	Small Impact (1)	100.0% N/A - N/A	59.9% 17.7% - 91.2%			77.7% 22.4% - 97.7%
	Large Impact (2)	0.0% N/A - N/A	0.0% N/A - N/A			0.0% N/A - N/A
	Do Not Know	0.0% N/A - N/A	40.1% 8.8% - 82.3%			22.3% 2.3% - 77.6%
	Observations	2	3			5

N/A: confidence interval could not be calculated.

**Table F.39. Question D.4: Which of the following is your organization considering regarding capital infrastructure projects due to COVID-19?
(select all that apply)**

Alaska Native Village Utilities

Estimates and 95 Percent Confidence Intervals

Changes	Percentage Reporting by Population Served				
	< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Not applicable (no projects planned)	14.6% 2.1% - 57.5%	40.4% 14.9% - 72.4%	26.4% 7.3% - 62.2%	0.0% N/A - N/A	25.3% 12.4% - 44.8%
No changes to current or planned projects	29.1% 7.6% - 67.1%	0.0% N/A - N/A	37.7% 12.8% - 71.4%	0.0% N/A - N/A	20.2% 8.8% - 40.1%
Pausing/slowing a project for which construction has begun	0.0% N/A - N/A	33.3% 12.4% - 63.7%	11.3% 1.9% - 46.1%	46.1% 6.3% - 91.5%	17.4% 9.3% - 30.2%
Delaying starting a project	14.6% 2.1% - 57.5%	0.0% N/A - N/A	22.6% 7.3% - 52.1%	46.1% 6.3% - 91.5%	14.6% 6.4% - 29.8%
Accelerating starting a project	12.7% 2.1% - 49.4%	0.0% N/A - N/A	13.2% 1.9% - 54.1%	0.0% N/A - N/A	7.9% 2.2% - 24.5%
Reducing the scope or funding for a project for which construction has begun	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
Increasing the scope or funding for a project (current or planned)	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
Delaying applying for a subsidized loan/grant by at least six months	0.0% N/A - N/A	14.1% 2.2% - 54.4%	0.0% N/A - N/A	0.0% N/A - N/A	4.5% 0.7% - 23.9%
Accelerating interest in applying for a subsidized loan/grant for a shovel-ready project	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
Do not know	29.1% 7.6% - 67.1%	12.3% 1.9% - 50.9%	0.0% N/A - N/A	53.9% 8.5% - 93.7%	16.9% 6.7% - 36.3%
Observations	7	8	8	2	25

N/A: confidence interval could not be calculated.

Table F.40. Question D.5: In response to COVID-19, what actions has your organization taken to help alleviate economic impacts on customers? (select all that apply)

Alaska Native Village Utilities

Estimates and 95 Percent Confidence Intervals

Actions	Percentage Reporting by Population Served				
	< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Suspended service shutoffs	27.2% 7.3% - 64.1%	26.3% 7.0% - 62.9%	55.0% 25.3% - 81.5%	46.1% 6.4% - 91.5%	37.3% 21.9% - 55.8%
Waived late payment fees	29.1% 7.7% - 67.0%	26.3% 7.0% - 62.9%	31.6% 11.5% - 62.4%	46.1% 6.4% - 91.5%	30.3% 16.4% - 49.0%
Provided extensions on bill payment	0.0% N/A - N/A	36.8% 12.5% - 70.4%	43.3% 17.8% - 73.0%	46.1% 6.4% - 91.5%	28.6% 16.1% - 45.6%
Expanded customer assistance programs	27.2% 7.3% - 64.1%	12.3% 1.9% - 50.5%	78.3% 43.9% - 94.4%	0.0% N/A - N/A	37.3% 23.3% - 53.8%
Expanded water conservation programs	27.2% 7.3% - 64.1%	0.0% N/A - N/A	43.3% 17.8% - 73.0%	0.0% N/A - N/A	22.1% 10.6% - 40.6%
Delayed or eliminated planned rate adjustment	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	46.1% 6.4% - 91.5%	3.2% 0.6% - 16.8%
Lowered rates	14.6% 2.1% - 57.5%	14.1% 2.2% - 54.4%	0.0% N/A - N/A	0.0% N/A - N/A	8.7% 2.5% - 26.1%
Other	14.6% 2.1% - 57.5%	14.1% 2.2% - 54.4%	10.0% 1.7% - 42.0%	0.0% N/A - N/A	11.9% 4.2% - 29.4%
None (no actions taken)	14.6% 2.1% - 57.5%	10.5% 1.8% - 43.5%	0.0% N/A - N/A	0.0% N/A - N/A	7.6% 2.0% - 24.6%
Do not know	29.1% 7.7% - 67.0%	12.3% 1.9% - 50.5%	0.0% N/A - N/A	53.9% 8.5% - 93.6%	16.2% 6.5% - 35.1%
Observations	7	8	9	2	26

N/A: confidence interval could not be calculated.

Table F.41. Question E1: What COVID-19-related conditions have interfered with your organization’s ability to complete the required sampling needed to operate your system and to determine compliance with regulations?

Alaska Native Village Utilities

Estimates and 95 Percent Confidence Intervals

Response	Percentage Reporting by Population Served				
	< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Lack of available personnel for sample collection	25.8% 6.9% - 62.1%	14.1% 2.2% - 54.4%	0.0% N/A - N/A	0.0% N/A - N/A	12.5% 4.8% - 28.7%
Lack of available supplies for sampling and/or shipping	12.9% 1.9% - 53.3%	26.3% 7.1% - 62.7%	11.7% 1.8% - 49.3%	46.1% 6.4% - 91.4%	18.8% 8.2% - 37.4%
Lack of available personal protective equipment	12.9% 1.9% - 53.3%	12.3% 1.9% - 50.1%	11.7% 1.8% - 49.3%	0.0% N/A - N/A	11.5% 3.9% - 29.1%
Lack of access to approved monitoring locations	0.0% N/A - N/A	14.1% 2.2% - 54.4%	0.0% N/A - N/A	0.0% N/A - N/A	4.2% 0.7% - 22.4%
Other	0.0% N/A - N/A	0.0% N/A - N/A	23.3% 6.5% - 57.3%	0.0% N/A - N/A	7.3% 2.0% - 22.9%
None	25.8% 6.9% - 62.1%	61.4% 29.1% - 86.1%	43.3% 17.9% - 72.8%	53.9% 8.6% - 93.6%	43.7% 27.3% - 61.6%
Do not know	35.4% 13.1% - 66.7%	0.0% N/A - N/A	10.0% 1.7% - 42.1%	0.0% N/A - N/A	14.6% 5.7% - 32.5%
Observations	8	8	9	2	27

N/A: confidence interval could not be calculated.

Table F.42. Question E2: What COVID-19-related conditions have interfered with your organization’s ability to complete required laboratory analyses needed to operate your system and to determine compliance with regulations?

Alaska Native Village Utilities

Estimates and 95 Percent Confidence Intervals

Response	Percentage Reporting by Population Served				
	< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Lack of available laboratory personnel	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
Lack of available supplies for sampling and/or shipping	0.0% N/A - N/A	10.5% 1.8% - 43.5%	11.7% 1.8% - 49.3%	0.0% N/A - N/A	6.8% 1.8% - 22.0%
Lack of available personal protective equipment	0.0% N/A - N/A	12.3% 1.9% - 50.1%	11.7% 1.8% - 49.3%	0.0% N/A - N/A	7.3% 2.0% - 22.9%
Internal laboratory capacity shortages that delay timely analysis	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
Decreased access to external laboratory services	0.0% N/A - N/A	0.0% N/A - N/A	11.7% 1.8% - 49.3%	46.1% 6.4% - 91.4%	6.8% 1.8% - 22.0%
Delays in external laboratory services	0.0% N/A - N/A	0.0% N/A - N/A	10.0% 1.7% - 42.1%	0.0% N/A - N/A	3.1% 0.5% - 16.2%
Sample transport delays	51.7% 22.6% - 79.7%	36.8% 12.5% - 70.3%	21.7% 5.7% - 55.8%	0.0% N/A - N/A	34.4% 20.2% - 52.1%
Travel restrictions	25.8% 6.9% - 62.1%	26.3% 7.1% - 62.7%	20.0% 6.5% - 47.3%	46.1% 6.4% - 91.4%	25.5% 13.5% - 43.0%
Revenue interruption	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A
Other	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	46.1% 6.4% - 91.4%	3.1% 0.5% - 16.2%
None	25.8% 6.9% - 62.1%	50.9% 21.3% - 79.9%	45.0% 18.6% - 74.5%	53.9% 8.6% - 93.6%	41.2% 24.8% - 59.7%
Do not know	22.5% 7.3% - 51.9%	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	7.3% 2.0% - 22.9%
Observations	8	8	9	2	27

N/A: confidence interval could not be calculated.

Table F.43. Question F1: Has your organization experienced any issues or concerns related to cybersecurity during the pandemic? (Yes/No)

Alaska Native Village Utilities

Estimates and 95 Percent Confidence Intervals

Response	Percentage Reporting by Population Served				
	< 101	101 - 500	501 - 3,300	3,301 - 10,000	All
Percentage of Systems with Cybersecurity Concerns	0.0%	0.0%	0.0%	0.0%	0.0%
	0.0% - 0.0%	0.0% - 0.0%	0.0% - 0.0%	0.0% - 0.0%	0.0% - 0.0%
Observations	8	8	9	2	27

Table F.44. G1. Looking ahead to the next several months, please indicate your level of concern about topics covered in this survey.

Alaska Native Village Utilities

Estimates and 95 Percent Confidence Intervals

Topics of Concern	Response	Percentage Reporting by Population Served				
		< 101	> 10,000	501 - 3,300	3,301 - 10,000	All
Supply Chain	Mean Score	0.87 0.44 - 1.30	0.86 0.29 - 1.42	1.00 0.48 - 1.52	2.00 2.00 - 2.00	0.95 0.66 - 1.24
	No Concern	25.8% 6.7% - 62.6%	40.8% 14.5% - 73.6%	33.3% 11.5% - 65.9%	0.0% N/A - N/A	30.4% 16.2% - 49.8%
	Mild Concern	61.3% 28.3% - 86.4%	32.7% 10.7% - 66.4%	33.3% 11.5% - 65.9%	0.0% N/A - N/A	40.3% 24.5% - 58.3%
	Serious Concern	12.9% 1.8% - 54.2%	26.5% 7.1% - 63.1%	33.3% 11.5% - 65.9%	46.1% 6.4% - 91.4%	25.5% 13.2% - 43.6%
	Do Not Know	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	53.9% 8.6% - 93.6%	3.8% 0.6% - 20.9%
	Observations	8	7	9	2	26
Workforce	Mean Score	0.87 0.32 - 1.42	0.63 0.13 - 1.13	0.78 0.29 - 1.27	1.00 1.00 - 1.00	0.77 0.48 - 1.06
	No Concern	38.7% 13.9% - 71.3%	50.9% 21.3% - 79.9%	43.3% 17.9% - 72.8%	0.0% 0.0% - 0.0%	41.2% 25.4% - 59.0%
	Mild Concern	35.4% 13.1% - 66.7%	35.0% 12.8% - 66.5%	35.0% 13.1% - 65.9%	46.1% 6.4% - 91.4%	35.9% 22.1% - 52.5%
	Serious Concern	25.8% 6.9% - 62.1%	14.1% 2.2% - 54.4%	21.7% 5.7% - 55.8%	0.0% N/A - N/A	19.3% 8.7% - 37.3%
	Do Not Know	0.0% N/A - N/A	0.0% N/A - N/A	0.0% N/A - N/A	53.9% 8.6% - 93.6%	3.6% 0.6% - 20.1%
	Observations	8	8	9	2	27

Table F.44. G1. Looking ahead to the next several months, please indicate your level of concern about topics covered in this survey.

Alaska Native Village Utilities

Estimates and 95 Percent Confidence Intervals

Topics of Concern	Response	Percentage Reporting by Population Served				
		< 101	> 10,000	501 - 3,300	3,301 - 10,000	All
Financial	Mean Score	0.83 0.27 - 1.39	0.88 0.35 - 1.40	0.98 0.39 - 1.58	1.00 1.00 - 1.00	0.91 0.59 - 1.22
	No Concern	25.8% 6.9% - 62.1%	36.8% 12.5% - 70.3%	45.0% 18.6% - 74.5%	0.0% 0.0% - 0.0%	33.3% 18.6% - 52.3%
	Mild Concern	37.1% 12.7% - 70.5%	38.6% 13.9% - 70.9%	11.7% 1.8% - 49.3%	46.1% 6.4% - 91.4%	30.2% 16.2% - 49.2%
	Serious Concern	12.9% 1.9% - 53.3%	24.6% 6.6% - 60.1%	43.3% 17.9% - 72.8%	0.0% 0.0% - 0.0%	25.0% 12.8% - 42.9%
	Do Not Know	24.2% 6.4% - 59.9%	0.0% 0.0% - 0.0%	0.0% 0.0% - 0.0%	53.9% 8.6% - 93.6%	11.5% 3.9% - 29.1%
	Observations	8	8	9	2	27
Analytical Support	Mean Score	0.66 0.28 - 1.04	0.51 -0.01 - 1.03	0.80 0.30 - 1.30		0.66 0.38 - 0.94
	No Concern	25.8% 6.9% - 62.1%	63.2% 29.7% - 87.5%	43.3% 17.9% - 72.8%	0.0% N/A - N/A	40.6% 24.5% - 59.1%
	Mild Concern	50.0% 20.4% - 79.6%	22.8% 6.2% - 56.9%	33.3% 11.5% - 65.9%	0.0% N/A - N/A	33.3% 18.6% - 52.3%
	Serious Concern	0.0% 0.0% - 0.0%	14.1% 2.2% - 54.4%	23.3% 6.5% - 57.3%	0.0% N/A - N/A	11.5% 3.9% - 29.1%
	Do Not Know	24.2% 6.4% - 59.9%	0.0% N/A - N/A	0.0% N/A - N/A	100.0% N/A - N/A	14.6% 5.7% - 32.5%
	Observations	8	8	9	2	27

Table F.44. G1. Looking ahead to the next several months, please indicate your level of concern about topics covered in this survey.

Alaska Native Village Utilities

Estimates and 95 Percent Confidence Intervals

Topics of Concern	Response	Percentage Reporting by Population Served				
		< 101	> 10,000	501 - 3,300	3,301 - 10,000	All
Cybersecurity	Mean Score	0.15 -0.11 - 0.40	0.14 -0.10 - 0.38	0.57 0.12 - 1.02	0.00 N/A - N/A	0.28 0.08 - 0.48
	No Concern	75.8% 40.1% - 93.6%	85.9% 45.6% - 97.8%	55.0% 25.5% - 81.4%	46.1% 6.4% - 91.4%	70.3% 51.9% - 83.9%
	Mild Concern	12.9% 1.9% - 53.3%	14.1% 2.2% - 54.4%	33.3% 11.5% - 65.9%	0.0% N/A - N/A	18.8% 8.2% - 37.4%
	Serious Concern	0.0% N/A - N/A	0.0% N/A - N/A	11.7% 1.8% - 49.3%	0.0% N/A - N/A	3.6% 0.6% - 20.1%
	Do Not Know	11.3% 1.9% - 46.0%	0.0% N/A - N/A	0.0% N/A - N/A	53.9% 8.6% - 93.6%	7.3% 2.0% - 22.9%
	Observations	8	8	9	2	27

N/A: confidence interval could not be calculated.