

ALASKA LNG PROJECT	DOCKET No. CP17-___-000 RESOURCE REPORT No. 9 APPENDIX A – REGIONAL CLIMATE SUMMARIES FOR METEOROLOGICAL STATIONS WITHIN THE PROJECT VICINITY	USAI-PE-SRREG-00-000009-000 DATE: APRIL 14, 2017 REVISION: 0
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**APPENDIX A REGIONAL CLIMATE SUMMARIES FOR
METEOROLOGICAL STATIONS WITHIN THE
PROJECT VICINITY**

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1.0 SUMMARY

Existing meteorological data within the Project vicinity have been compiled and are provided in this appendix. The data presented were collected at monitoring stations operated by state and federal agencies including the Alaska Department of Transportation and Public Facilities and U.S. Federal Aviation Administration. The period of record for the various monitoring stations presented in this appendix varies by station. While more recent data may be available, data presented in this appendix come from readily available and accessible databases that contain data over a broad range of time periods, are commonly used for a variety of purposes including atmospheric research, and provide representative summaries of general meteorological conditions in the Project vicinity.

2.0 REGIONAL CLIMATE SUMMARIES WITHIN THE PROJECT VICINITY

Regional Climate Summaries for Meteorological Stations within the Project Vicinity													
Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
LIQUEFACTION FACILITY													
Nikiski Terminal 1967-1978													
Average Max. Temperature (°F)	20.6	28.7	31.7	40.3	51.0	57.4	61.7	61.5	55.4	42.7	31.0	24.0	42.2
Average Min. Temperature (°F)	4.8	10.7	13.4	25.2	36.0	43.9	48.9	48.6	41.2	30.3	17.3	10.2	27.5
Average Total Precipitation (in.)	0.61	1.07	0.68	0.97	0.99	1.10	1.26	2.59	3.13	2.48	1.86	1.14	17.89
Average Total Snowfall (in.)	1.9	6.8	4.5	4.1	0.0	0.0	0.0	0.0	0.0	1.9	4.5	9.4	33.0
Average Snow Depth (in.)	11	14	6	6	1	0	0	0	0	0	2	8	4
Kenai Municipal Airport 1949-2012													
Average Max. Temperature (°F)	20.9	26.8	32.6	42.8	53.1	58.8	62.1	61.9	55.3	42.2	29.5	22.7	42.4
Average Min. Temperature (°F)	4.0	8.2	12.9	26.3	35.4	42.9	47.5	45.9	39.0	27.7	14.1	7.2	25.9
Average Total Precipitation (in.)	0.99	0.96	0.80	0.74	0.89	1.21	1.89	2.61	3.33	2.44	1.50	1.34	18.71
Average Total Snowfall (in.)	9.5	10.3	8.6	3.5	0.3	0.0	0.0	0.0	0.1	4.8	10.3	13.8	61.2
Average Snow Depth (in.)	12	13	12	3	0	0	0	0	0	1	3	8	4

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Regional Climate Summaries for Meteorological Stations within the Project Vicinity													
Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
INTERDEPENDENT FACILITIES													
NORTH SLOPE													
Prudhoe Bay 1986–1999													
Average Max. Temperature (°F)	-11.9	-10.1	-5.2	10.1	28.8	45.2	55.4	51.0	38.3	21.0	0.9	-6.6	18.1
Average Min. Temperature (°F)	-24.0	-24.3	-20.3	-4.8	19.0	32.7	39.7	37.5	28.9	9.7	-11.0	-19.2	5.3
Average Total Precipitation (in.)	0.20	0.17	0.14	0.08	0.09	0.39	0.68	1.14	0.61	0.38	0.18	0.20	4.26
Average Total Snowfall (in.)	2.8	2.4	2.7	1.7	1.4	1.0	0.0	0.5	3.5	9.3	4.3	3.5	33.1
Average Snow Depth (in.)	4	4	4	3	1	0	0	0	0	3	3	4	2
Deadhorse Airport 1999–2010													
Average Max. Temperature (°F)	-8.9	-9.2	-11.0	9.6	26.1	46.0	53.6	49.1	40.0	22.8	6.7	-0.7	18.7
Average Min. Temperature (°F)	-22.0	-22.0	-24.0	-5.4	16.1	33.0	38.6	36.5	30.0	12.6	-6.2	-13.9	6.1
Average Total Precipitation (in.)	0.07	0.04	0.01	0.15	0.21	0.50	0.96	0.94	0.40	0.21	0.07	0.11	3.64
Average Total Snowfall (in.)	No Data												
Average Snow	No Data												
Umiat 1949–2001													
Average Max. Temperature (°F)	-12.7	-13.8	-6.7	11.5	32.4	57.5	66.2	57.7	41.4	18.2	-0.7	-11.9	19.9
Average Min. Temperature (°F)	-28.9	-31.2	-26.8	-11.0	15.7	37.0	42.5	37.2	26.1	2.4	-16.8	-28.0	1.5
Average Total Precipitation (in.)	0.38	0.26	0.16	0.21	0.07	0.68	0.79	1.06	0.47	0.68	0.38	0.33	5.46
Average Total Snowfall (in.)	4.5	2.4	2.3	1.9	1.2	0.2	0.0	0.2	2.6	8.5	5.2	4.2	33.2
Average Snow Depth (in.)	14	16	17	17	9	0	0	0	0	5	9	12	8

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Available Regional Climate Summaries for Stations within the Project Vicinity													
Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
BROOKS RANGE													
Galbraith Lake 1970–1980													
Average Max. Temperature (°F)	1.9	-3.7	2.9	18.7	41.6	55.7	61.2	59.2	40.1	15.6	10.4	-5.1	24.9
Average Min. Temperature (°F)	-18.4	-25.1	-21.3	-5.8	19.2	35.9	40.1	36.7	19.6	-3.1	-11.2	-24.0	3.5
Average Total Precipitation (in.)	0.68	0.26	0.39	0.12	0.36	1.42	0.93	1.60	0.70	1.00	0.50	0.51	8.46
Average Total Snowfall (in.)	8.5	2.9	6.8	1.4	0.0	0.7	0.5	0.0	4.6	9.2	6.6	5.0	46.1
Average Snow Depth (in.)	7	7	8	4	1	0	0	0	0	4	5	5	3
Chandalar Shelf DOT 2000–2010													
Average Max. Temperature (°F)	1.4	4.3	5.9	23.7	41.3	57.0	57.2	52.6	39.0	20.2	8.0	6.5	26.4
Average Min. Temperature (°F)	-11.0	-8.6	-9.6	5.6	25.0	40.0	42.0	36.9	25.0	8.5	-3.4	-5.9	12.0
Average Total Precipitation (in.)	0.73	0.87	0.34	0.70	0.92	1.50	2.27	1.86	1.30	1.05	0.81	0.66	13.01
Average Total Snowfall (in.)	14	17.4	7.3	16.5	7.5	0.6	0	0	3.8	16.5	16.7	14.6	115
Average Snow Depth (in.)	23	32	36	41	23	0	0	0	0	7	15	21	16
Wiseman 1949–2010													
Average Max. Temperature (°F)	-2.7	5.5	17.3	36.8	54.5	69.4	69.1	62.1	49.5	26.3	8.7	2.8	33.3
Average Min. Temperature (°F)	-21.3	-15.3	-12.1	9.7	29.2	43.4	45.4	39.2	29.9	9.5	-7.7	-15.2	11.2
Average Total Precipitation (in.)	0.75	0.71	0.27	0.57	1.00	1.84	2.43	2.36	1.87	0.71	0.80	0.74	14.05
Average Total Snowfall (in.)	15.0	11.2	4.3	5.1	0.7	0.0	0.0	0.0	3.0	9.7	11.9	11.8	72.8
Average Snow Depth (in.)	20	25	24	18	3	0	0	0	0	3	9	15	10
Coldfoot Camp 1970–1977													
Average Max. Temperature (°F)	-10.1	-0.4	11.4	32.0	52.8	66.0	69.5	63.7	47.4	23.6	4.9	-1.5	29.9
Average Min. Temperature (°F)	-27.7	-22.9	-14.9	5.6	31.9	43.0	45.1	40.6	28.8	7.4	-11.2	-19.1	8.9
Average Total Precipitation (in.)	0.37	0.44	0.43	0.31	0.96	1.91	2.66	2.03	2.79	1.50	1.05	0.90	15.34
Average Total Snowfall (in.)	17.4	11.5	11.4	6.7	0.8	0.0	0.0	0.0	5.0	23.4	16.2	20.7	113.1
Average Snow Depth (in.)	15	31	23	21	3	0	0	0	0	7	11	17	11

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Available Regional Climate Summaries for Stations within the Project Vicinity													
Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
CENTRAL INTERIOR													
Bettles Airport 1951–2010													
Average Max. Temperature (°F)	-4.6	2.0	14.6	32.9	53.5	68.3	69.3	62.5	48.9	25.7	6.0	-1.3	31.5
Average Min. Temperature (°F)	-20.5	-16.7	-9.3	10.4	33.6	47.0	48.9	43.4	32.4	12.6	-8.1	-16.5	13.1
Average Total Precipitation (in.)	0.78	0.79	0.62	0.59	0.70	1.41	2.05	2.50	1.83	1.13	0.92	0.91	14.23
Average Total Snowfall (in.)	11.5	11.7	9.4	6.8	1.0	0.0	0.0	0.0	2.0	11.8	13.9	15.5	83.7
Average Snow Depth (in.)	25	29	31	26	4	0	0	0	0	4	12	20	12
Prospect Creek Camp 1970–2001													
Average Max. Temperature (°F)	-6.8	1.1	15.5	33.5	55.0	64.4	69.7	65.1	50.2	25.6	7.5	-3.9	31.4
Average Min. Temperature (°F)	-22.9	-23.5	-10.7	6.4	30.8	42.0	46.0	40.1	28.5	7.4	-10.0	-21.2	9.4
Average Total Precipitation (in.)	0.38	0.48	0.37	0.20	0.69	2.34	1.76	1.98	2.34	1.14	0.94	0.57	13.20
Average Total Snowfall (in.)	8.7	8.0	8.7	4.7	0.1	0.0	0.0	0.0	2.1	15.0	15.7	14.1	77.3
Average Snow Depth (in.)	22	24	24	23	2	0	0	0	0	4	13	19	11
Five Mile Camp 1970–1980													
Average Max. Temperature (°F)	-10.8	-2.0	17.2	36.2	58.9	69.9	74.4	70.0	51.0	26.2	6.7	-11.1	32.2
Average Min. Temperature (°F)	-26.7	-25.1	-11.4	8.4	32.0	42.7	44.5	39.1	28.1	9.4	-12.7	-27.5	8.4
Average Total Precipitation (in.)	0.28	0.22	0.35	0.21	0.67	1.44	1.25	1.08	0.90	1.01	0.87	0.65	8.93
Average Total Snowfall (in.)	4.5	2.5	5.5	2.1	0.1	0.0	0.0	0.0	0.1	10.5	7.9	6.8	40.0
Average Snow Depth (in.)	18	19	19	13	0	0	0	0	0	2	8	9	7
Fairbanks International Airport 1949–2010													
Average Max. Temperature (°F)	-1.4	8.5	23.7	42.8	60.1	70.8	72.3	66.3	54.7	32.3	11.4	1.7	36.9
Average Min. Temperature (°F)	-19.0	-13.9	-3.4	20.4	37.9	49.3	52.0	46.8	35.7	17.4	-5.0	-15.2	16.9
Average Total Precipitation (in.)	0.57	0.44	0.35	0.28	0.58	1.34	1.96	1.84	1.05	0.77	0.67	0.69	10.53
Average Total	10.4	8.6	6.0	3.0	0.7	0.0	0.0	0.0	1.3	10.3	12.6	12.2	65.2

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Available Regional Climate Summaries for Stations within the Project Vicinity													
Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Snowfall (in.)													
Average Snow Depth (in.)	17	20	20	10	0	0	0	0	0	2	8	13	7

Available Regional Climate Summaries for Stations within the Project Vicinity													
Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
CENTRAL INTERIOR													
Nenana Municipal Airport 1949–2001													
Average Max. Temperature (°F)	-0.4	7.3	21.5	39.4	58.0	70.1	70.9	65.1	52.9	30.5	10.8	1.5	35.6
Average Min. Temperature (°F)	-19.0	-14.9	-5.7	16.0	33.9	44.8	47.7	43.4	33.1	14.9	-5.8	-16.6	14.3
Average Total Precipitation (in.)	0.54	0.46	0.31	0.19	0.51	1.37	2.17	2.22	1.14	0.67	0.65	0.54	10.76
Average Total Snowfall (in.)	7.7	6.1	4.2	2.2	0.2	0.0	0.0	0.0	0.8	6.7	9.3	7.8	45.0
Average Snow Depth (in.)	19	23	22	11	0	0	0	0	0	2	7	14	8
Clear Air Force Base 1965–1997													
Average Max. Temperature (°F)	-4.0	4.9	21.7	39.0	57.6	69.9	70.6	66.1	52.7	28.7	11.3	5.7	35.3
Average Min. Temperature (°F)	-24.2	-16.3	-3.4	17.5	36.5	48.1	50.5	45.3	32.0	12.4	-8.4	-14.8	14.6
Average Total Precipitation (in.)	0.53	0.47	0.41	0.19	0.66	1.79	2.64	2.52	1.17	0.98	0.89	0.72	12.96
Average Total Snowfall (in.)	7.4	5.9	4.7	1.9	0.2	0.0	0.0	0.0	0.6	8.7	12.1	8.5	50.1
Average Snow Depth (in.)	15	15	11	5	0	0	0	0	0	2	8	12	6
ALASKA RANGE													
Healy River Airport 1976–2012													
Average Max. Temperature (°F)	11.9	19.2	26.3	41.8	57.0	67.9	69.3	63.8	52.4	34.0	18.0	13.7	39.6
Average Min. Temperature (°F)	-5.9	-1.0	3.6	21.1	35.9	45.3	49.7	45.8	34.9	18.7	1.5	-5.7	20.3
Average Total Precipitation (in.)	0.55	0.58	0.35	0.53	0.91	2.39	2.74	2.46	1.57	1.12	0.71	0.84	14.75
Average Total Snowfall (in.)	10.2	8.5	7.4	4.1	1.0	0.0	0.0	0.0	3.0	14.7	14.0	13.9	76.7
Average Snow Depth (in.)	11	11	10	5	0	0	0	0	0	4	7	9	5
McKinley Park 1949–2012													
Average Max.	9.2	16.3	24.8	38.8	53.6	64.2	66.3	61.4	50.7	32.4	17.3	11.2	37.2

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Available Regional Climate Summaries for Stations within the Project Vicinity													
Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Temperature (°F)													
Average Min. Temperature (°F)	-7.8	-4.1	0.4	15.8	29.9	39.7	43.4	39.9	30.6	14.5	0.9	-5.6	16.5
Average Total Precipitation (in.)	0.68	0.60	0.46	0.37	0.80	2.32	3.14	2.57	1.54	0.92	0.83	0.90	15.12
Average Total Snowfall (in.)	10.3	10.2	7.7	5.1	2.9	0.3	0.0	0.0	4.2	12.3	13.1	13.4	79.5
Average Snow Depth (in.)	17	20	21	17	2	0	0	0	1	3	8	13	8
Cantwell 2E 1983–2011													
Average Max. Temperature (°F)	10.8	17.4	25.6	38.5	52.9	64.8	66.0	60.5	49.7	32.2	17.1	14.0	37.5
Average Min. Temperature (°F)	-8.8	-5.6	-1.5	14.6	28.8	38.3	44.2	40.3	30.9	14.3	-0.6	-5.4	15.8
Average Total Precipitation (in.)	0.96	0.76	0.46	0.43	0.76	1.68	2.66	3.20	2.60	1.21	1.09	0.93	16.75
Average Total Snowfall (in.)	22.3	15.8	12.3	10.8	5.0	0.2	0.2	0.0	4.0	16.2	17.5	19.8	123.9
Average Snow Depth (in.)	24	28	29	20	3	0	0	0	0	3	9	15	11
COOK INLET													
Talkeetna Airport 1949–2012													
Average Max. Temperature (°F)	19.6	26.1	33.6	44.8	57.0	65.6	67.8	64.6	55.5	40.0	26.1	20.4	43.4
Average Min. Temperature (°F)	1.9	5.9	9.9	23.6	34.8	45.4	49.6	46.4	37.4	24.2	9.9	3.6	24.4
Average Total Precipitation (in.)	1.38	1.45	1.22	1.34	1.47	2.19	3.37	4.77	4.21	2.69	1.74	1.75	27.56
Average Total Snowfall (in.)	18.6	20.0	17.1	9.2	0.9	0.0	0.0	0.0	1.2	11.6	19.2	22.8	120.6
Average Snow Depth (in.)	27	30	31	18	2	0	0	0	0	2	8	17	11
Willow West 1960–2011													
Average Max. Temperature (°F)	9.1	23.0	33.9	45.8	56.3	66.2	68.9	64.8	56.5	40.4	23.5	15.5	42.0
Average Min. Temperature (°F)	-7.8	2.6	7.2	23.7	33.7	45.4	49.8	46.0	36.4	21.3	6.5	-1.5	22.0
Average Total Precipitation (in.)	1.51	1.90	1.05	0.89	1.14	1.53	2.12	3.73	3.41	2.46	1.69	2.05	23.50
Average Total Snowfall (in.)	13.9	13.7	7.4	2.2	0.2	0.0	0.0	0.0	0.0	7.3	14.9	19.9	79.3
Average Snow Depth (in.)	24	27	26	12	0	0	0	0	0	1	8	15	9
Skwentna 1949–2012													
Average Max. Temperature (°F)	16.2	23.5	34.1	45.0	57.6	67.0	69.6	65.8	55.8	40.0	24.4	17.4	43.0

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Available Regional Climate Summaries for Stations within the Project Vicinity													
Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
Average Min. Temperature (°F)	-2.1	1.6	9.1	23.4	33.4	43.3	47.3	44.9	36.1	24.1	9.3	0.6	22.6
Average Total Precipitation (in.)	2.18	1.87	1.11	1.00	1.10	1.41	2.33	3.44	3.89	3.30	2.30	2.82	26.73
Average Total Snowfall (in.)	22.3	19.6	11.6	6.4	0.1	0.0	0.0	0.0	0.5	11.0	19.6	28.6	119.8
Average Snow Depth (in.)	32	38	38	26	2	0	0	0	0	2	10	22	14

Available Regional Climate Summaries for Stations within the Project Vicinity													
Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
COOK INLET													
Anchorage International Airport 1931–2012													
Average Max. Temperature (°F)	20.2	27.3	33.3	45.1	55.1	63.0	65.9	63.8	56.1	42.8	28.3	20.8	43.5
Average Min. Temperature (°F)	5.1	11.0	14.3	27.5	36.9	45.3	49.4	47.5	39.7	29.3	15.5	8.1	27.5
Average Total Precipitation (in.)	0.78	0.59	0.52	0.38	0.53	1.03	1.57	2.63	2.62	1.97	1.05	0.97	14.63
Average Total Snowfall (in.)	11.3	7.5	7.3	2.8	0.6	0.0	0.0	0.0	0.0	5.2	9.9	12.0	56.6
Average Snow Depth (in.)	10	10	7	1	0	0	0	0	0	0	2	6	3
Beluga 1973–1992													
Average Max. Temperature (°F)	25.8	28.4	36.6	44.4	56.2	64.1	67.0	64.6	56.6	42.6	29.7	24.3	45.0
Average Min. Temperature (°F)	10.6	8.8	16.4	25.2	35.9	43.1	47.9	46.3	39.7	27.9	13.6	9.0	27.0
Average Total Precipitation (in.)	1.64	1.24	1.27	0.93	1.05	1.46	2.21	3.49	5.40	4.01	1.97	2.38	27.05
Average Total Snowfall (in.)	11.6	9.7	11.7	3.0	0.0	0.0	0.0	0.0	0.0	6.0	13.7	23.4	79.0
Average Snow Depth (in.)	24	26	27	17	1	0	0	0	0	1	7	17	10
Homer Airport 1932–2012													
Average Max. Temperature (°F)	29.1	32.3	35.5	43.1	50.7	57.1	60.8	60.5	54.9	44.5	35.0	30.1	44.5
Average Min. Temperature (°F)	16.5	18.9	21.3	28.9	35.7	42.1	46.3	46.0	40.3	31.3	22.8	18.1	30.7
Average Total Precipitation (in.)	2.22	1.81	1.52	1.20	0.97	0.96	1.56	2.46	3.06	3.13	2.74	2.83	24.47
Average Total Snowfall (in.)	9.6	11.3	9.2	2.9	0.3	0.0	0.0	0.0	0.0	2.1	7.4	12.1	54.9
Average Snow Depth (in.)	4	5	5	2	0	0	0	0	0	0	1	4	2

ALASKA LNG PROJECT	DOCKET NO. CP17-___-000 RESOURCE REPORT NO. 9 APPENDIX A – REGIONAL CLIMATE SUMMARIES FOR METEOROLOGICAL STATIONS WITHIN THE PROJECT VICINITY	USAI-PE-SRREG-00-000009-000 DATE: APRIL 14, 2017 REVISION: 0
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Available Regional Climate Summaries for Stations within the Project Vicinity													
Station	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
NORTHWEST GULF													
Kodiak Airport 1973–2012													
Average Max. Temperature (°F)	35.4	36.0	38.3	43.6	50.0	55.6	60.1	61.7	56.1	47.2	39.6	36.4	46.7
Average Min. Temperature (°F)	26.1	25.7	27.5	32.5	38.6	44.4	49.0	49.0	43.5	34.8	28.7	25.9	35.5
Average Total Precipitation (in.)	8.53	6.07	5.15	5.50	6.10	5.35	4.61	4.72	7.67	8.49	6.66	8.18	77.04
Average Total Snowfall (in.)	15.8	16.0	13.1	7.2	0.4	0.0	0.0	0.0	0.0	1.3	7.5	14.8	76.1
Average Snow Depth (in.)	2	2	1	0	0	0	0	0	0	0	0	1	1
Sources: NCDC, National Climate Data Center, http://www.ncdc.noaa.gov/oa/climate WRCC, Western Regional Climate Center, http://www.wrcc.dri.edu/summary/Climsmak.html													
<u>Abbreviations:</u> °F – degrees Fahrenheit ADOT&PF – Alaska Department of Transportation and Public Facilities FAA – U.S. Federal Aviation Administration in. – inches WSO – Weather Service Observations WSCMO – Weather Service Cooperative Meteorological Observations													