

ALASKA LNG PROJECT	DOCKET NO. CP17-___-000 RESOURCE REPORT NO. 9 APPENDIX B – AIR QUALITY MONITORING DATA WITHIN THE PROJECT VICINITY	USAI-PE-SRREG-00-000009-000 DATE: APRIL 14, 2017 REVISION: 0
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**APPENDIX B AIR QUALITY MONITORING DATA WITHIN THE PROJECT VICINITY**

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**1.0 SUMMARY**

Existing air quality data within the Project vicinity have been compiled and are provided in this appendix. The data presented were collected at monitoring stations operated by private entities and local, state, or federal agencies. In general, all data that pass the screening criteria (proximity, completeness, currentness) are included in this appendix regardless of whether they are representative of air quality near Project facilities.

Privately collected datasets are usually judged against the Prevention of Significant Deterioration (PSD) criteria for data quality and completeness. ADEC often reviews these datasets to determine whether they can be validated as PSD-quality. Local, state, and federal monitoring stations are not normally reviewed to determine if they meet the PSD criteria. Rather, these stations are operated consistent with the data quality objectives of the respective monitoring programs. Those programs identified in the Project vicinity include State and Local Air Monitoring Stations (SLAMS), Interagency Monitoring of Protected Visual Environments (IMPROVE), National Core Network (NCore), and Clean Air Status and Trends Network (CASTNET). Some SLAMS that monitor PM<sub>2.5</sub> are also part of the Chemical Speciation Network (CSN). Although the data from the SLAMS and other ambient air monitoring networks may not necessarily meet all of the PSD criteria, data collected at these stations are valuable in describing the existing ambient air quality of the Project vicinity, particularly because much of the Project area is sparsely inhabited and has limited air quality monitoring data available. Some data presented in this appendix were collected by Special Purpose Monitors (SPM). SPM data are not to be used for NAAQS compliance demonstrations (EPA, 2009). The concentrations measured by SPMs have been included to ensure a complete and credible synopsis of existing air quality in the Project vicinity.

Figure 9.2.2-1 located in Resource Report No. 9 presents the location of each station listed in Table 1. Table 1 is organized by monitoring station and grouped for the North Slope, Interior Alaska and the Alaska Range, and Southcentral Alaska and Cook Inlet. Each of these geographic areas is quite large and the available data is concentrated around existing infrastructure or communities.

Monitoring stations included in the table were selected based on proximity to the Project corridor. Unless otherwise noted, data represent the most recent five years of available data and spans the timeframe from 2010 through 2014. The ambient air quality data discussed in this section for specific locations are based on maximum observed values for each pollutant and averaging period, except as noted. The concentrations are given in measurement units consistent with the relevant AAAQS.

Several of the public monitoring stations included continuous and filter monitors for the determination of PM<sub>2.5</sub> concentrations. Data from the continuous monitors were selected when available because those data sets have more data points.

Two privately collected data sets older than 2010 are included in Table 1. The 2008 Donlin Creek data are included to present ambient area quality values likely representative of remote, or rural, areas in Interior and Southcentral Alaska. Additionally, the 2008 through 2009 Swanson River data are included due to the proximity of the Swanson River monitoring station to the Liquefaction Facility site. The Swanson River dataset is also the only identified dataset collected in the Kenai National Wildlife Refuge.

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All data available in or near the Project area were reviewed for possible inclusion in this table. The privately collected datasets have either been determined to be PSD quality, or are expected to receive a PSD quality determination, except as noted. An observation percent (data capture rate) of 80 percent was applied to select local, state, and federally collected data for the Table 1 unless otherwise noted.

The Applicant initiated an ambient air quality data collection program in the vicinity of the Liquefaction Facility. The air quality station location is shown in Figure 9.2.2-2 of Resource Report No. 9. The data collection program began on January 1, 2015 and was completed on June 30, 2016. Air quality data collected at Nikiski include CO, NO<sub>2</sub>, SO<sub>2</sub>, O<sub>3</sub>, PM<sub>10</sub>, and PM<sub>2.5</sub>. Prior to choosing this monitoring site and the air quality parameters, the Project consulted with ADEC to obtain approval for the station location and monitoring protocols. Subsequently ADEC approved data covering the period of January 1, 2015 through December 31, 2015 that are used to represent the Liquefaction Facility site.

Table 1 presents maximum monitored concentrations from these datasets. Table 2 provides background concentrations for ambient air quality impact analyses that have been calculated separately following standard EPA protocols. Background concentrations representative of Project facilities are provided in Table 2.

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TABLE 1 Existing Ambient Air Quality Data in the Project Vicinity								
Monitoring Station	Monitor Type	Pollutant	Averaging Period	Monitored Maximum Concentration		Date Range		Footnotes
						Start	End	
<b>ALASKA NORTH SLOPE</b>								
CCP	Private - PSD	SO <sub>2</sub>	1-Hour	33.7	µg/m <sup>3</sup>	1/1/2010	12/31/2014	
CCP	Private - PSD	SO <sub>2</sub>	3-Hour	40.3	µg/m <sup>3</sup>	1/1/2010	12/31/2014	
CCP	Private - PSD	SO <sub>2</sub>	24-Hour	26.0	µg/m <sup>3</sup>	1/1/2010	12/31/2014	
CCP	Private - PSD	SO <sub>2</sub>	Annual	5.2	µg/m <sup>3</sup>	1/1/2010	12/31/2014	
CCP	Private - PSD	CO	1-Hour	1.15	mg/m <sup>3</sup>	1/1/2014	12/31/2014	l
CCP	Private - PSD	CO	8-Hour	1.15	mg/m <sup>3</sup>	1/1/2014	12/31/2014	l
CCP	Private - PSD	NO <sub>2</sub>	1-Hour	206.8	µg/m <sup>3</sup>	1/1/2010	12/31/2014	i
CCP	Private - PSD	NO <sub>2</sub>	Annual	20.6	µg/m <sup>3</sup>	1/1/2010	12/31/2014	
CCP	Private - PSD	O <sub>3</sub>	8-Hour	0.055	ppm	1/1/2010	12/31/2014	
CCP	Private - PSD	PM <sub>10</sub>	24-Hour	60.0	µg/m <sup>3</sup>	1/1/2010	12/31/2014	l
CCP	Private - PSD	PM <sub>2.5</sub>	24-Hour	22.5	µg/m <sup>3</sup>	1/1/2010	12/31/2014	l
CCP	Private - PSD	PM <sub>2.5</sub>	Annual	3.7	µg/m <sup>3</sup>	1/1/2010	12/31/2014	l
DS-1F	Private - PSD	SO <sub>2</sub>	1-Hour	8.7	µg/m <sup>3</sup>	7/1/2012	6/30/2013	
DS-1F	Private - PSD	SO <sub>2</sub>	3-Hour	6.4	µg/m <sup>3</sup>	7/1/2012	6/30/2013	
DS-1F	Private - PSD	SO <sub>2</sub>	24-Hour	3.0	µg/m <sup>3</sup>	7/1/2012	6/30/2013	
DS-1F	Private - PSD	SO <sub>2</sub>	Annual	0.4	µg/m <sup>3</sup>	7/1/2012	6/30/2013	
DS-1F	Private - PSD	CO	1-Hour	1.360	mg/m <sup>3</sup>	7/1/2012	6/30/2013	
DS-1F	Private - PSD	CO	8-Hour	0.173	mg/m <sup>3</sup>	7/1/2012	6/30/2013	
DS-1F	Private - PSD	NO <sub>2</sub>	1-Hour	61.9	µg/m <sup>3</sup>	7/1/2012	6/30/2013	
DS-1F	Private - PSD	NO <sub>2</sub>	Annual	4	µg/m <sup>3</sup>	7/1/2012	6/30/2013	
DS-1F	Private - PSD	O <sub>3</sub>	8-Hour	0.051	ppmv	7/1/2012	6/30/2013	
DS-1F	Private - PSD	PM <sub>10</sub>	24-Hour	47	µg/m <sup>3</sup>	7/1/2012	6/30/2013	

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TABLE 1  
Existing Ambient Air Quality Data in the Project Vicinity

Monitoring Station	Monitor Type	Pollutant	Averaging Period	Monitored Maximum Concentration		Date Range		Footnotes
						Start	End	
DS-1F	Private - PSD	PM <sub>2.5</sub>	24-Hour	11	µg/m <sup>3</sup>	7/1/2012	6/30/2013	
DS-1F	Private - PSD	PM <sub>2.5</sub>	Annual	2.8	µg/m <sup>3</sup>	7/1/2012	6/30/2013	
A-Pad	Private - PSD	SO <sub>2</sub>	1-Hour	22.20	µg/m <sup>3</sup>	1/1/2010	12/31/2014	I
A-Pad	Private - PSD	SO <sub>2</sub>	3-Hour	20.96	µg/m <sup>3</sup>	1/1/2010	12/31/2014	I
A-Pad	Private - PSD	SO <sub>2</sub>	24-Hour	8.12	µg/m <sup>3</sup>	1/1/2010	12/31/2014	I
A-Pad	Private - PSD	SO <sub>2</sub>	Annual	1.8	µg/m <sup>3</sup>	1/1/2010	12/31/2014	I
A-Pad	Private - PSD	NO <sub>2</sub>	1-Hour	471.4	µg/m <sup>3</sup>	1/1/2010	12/31/2014	i, I
A-Pad	Private - PSD	NO <sub>2</sub>	Annual	6.2	µg/m <sup>3</sup>	1/1/2010	12/31/2014	I
A-Pad	Private - PSD	O <sub>3</sub>	8-Hour	0.056	ppmv	1/1/2010	12/31/2014	I
Nuiqsut	Private - under review	SO <sub>2</sub>	1-Hour	7.07	µg/m <sup>3</sup>	1/1/2014	12/31/2014	
Nuiqsut	Private - under review	SO <sub>2</sub>	3-Hour	6.81	µg/m <sup>3</sup>	1/1/2014	12/31/2014	
Nuiqsut	Private - under review	SO <sub>2</sub>	24-Hour	4.72	µg/m <sup>3</sup>	1/1/2014	12/31/2014	
Nuiqsut	Private - PSD	SO <sub>2</sub>	Annual	0.3	µg/m <sup>3</sup>	1/1/2013	12/31/2013	
Nuiqsut	Private - under review	CO	1-Hour	1.15	mg/m <sup>3</sup>	1/1/2014	12/31/2014	
Nuiqsut	Private - under review	CO	8-Hour	1.15	mg/m <sup>3</sup>	1/1/2014	12/31/2014	
Nuiqsut	Private - under review	NO <sub>2</sub>	1-Hour	84.30	µg/m <sup>3</sup>	1/1/2014	12/31/2014	
Nuiqsut	Private - under review	NO <sub>2</sub>	Annual	3.76	µg/m <sup>3</sup>	1/1/2014	12/31/2014	
Nuiqsut	Private - under review	O <sub>3</sub>	8-Hour	0.054	ppm	1/1/2014	12/31/2014	
Nuiqsut	Private - under review	PM <sub>10</sub>	24-Hour	70	µg/m <sup>3</sup>	1/1/2014	12/31/2014	

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TABLE 1  
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Monitoring Station	Monitor Type	Pollutant	Averaging Period	Monitored Maximum Concentration		Date Range		Footnotes
						Start	End	
Nuiqsut	Private - PSD	PM <sub>2.5</sub>	24-Hour	11.3	µg/m <sup>3</sup>	1/1/2013	12/31/2013	
Nuiqsut	Private - under review	PM <sub>2.5</sub>	Annual	2.1	µg/m <sup>3</sup>	1/1/2014	12/31/2014	
Point Thomson	Private - PSD	SO <sub>2</sub>	1-Hour	75.9	µg/m <sup>3</sup>	9/1/2009	8/31/2010	
Point Thomson	Private - PSD	SO <sub>2</sub>	3-Hour	65.5	µg/m <sup>3</sup>	9/1/2009	8/31/2010	
Point Thomson	Private - PSD	SO <sub>2</sub>	24-Hour	23.5	µg/m <sup>3</sup>	9/1/2009	8/31/2010	
Point Thomson	Private - PSD	SO <sub>2</sub>	Annual	2.6	µg/m <sup>3</sup>	9/1/2009	8/31/2010	
Point Thomson	Private - PSD	CO	1-Hour	0.0022	mg/m <sup>3</sup>	9/1/2009	8/31/2010	
Point Thomson	Private - PSD	CO	8-Hour	0.0013	mg/m <sup>3</sup>	9/1/2009	8/31/2010	
Point Thomson	Private - PSD	NO <sub>2</sub>	1-Hour	188	µg/m <sup>3</sup>	3/1/2010	2/28/2011	i
Point Thomson	Private - PSD	NO <sub>2</sub>	Annual	7.5	µg/m <sup>3</sup>	3/1/2010	2/28/2011	
Point Thomson	Private - PSD	O <sub>3</sub>	8-Hour	0.047	ppmv	3/1/2010	2/28/2011	
Point Thomson	Private - Not PSD	PM <sub>10</sub>	24-Hour	66.5	µg/m <sup>3</sup>	9/1/2009	8/31/2010	
Point Thomson	Private - PSD	PM <sub>2.5</sub>	24-Hour	22	µg/m <sup>3</sup>	12/1/2009	11/30/2010	
Point Thomson	Private - PSD	PM <sub>2.5</sub>	Annual	2.6	µg/m <sup>3</sup>	12/1/2009	11/30/2010	
Badami	Private - PSD	NO <sub>2</sub>	1-Hour	73.38	µg/m <sup>3</sup>	12/1/2009	12/31/2010	
Badami	Private - PSD	PM <sub>2.5</sub>	24-Hour	12	µg/m <sup>3</sup>	12/1/2009	12/31/2010	
Umiat	Private - PSD	SO <sub>2</sub>	1-Hour	6.29	µg/m <sup>3</sup>	7/1/2013	6/30/2014	l
Umiat	Private - PSD	SO <sub>2</sub>	3-Hour	5.50	µg/m <sup>3</sup>	7/1/2013	6/30/2014	l
Umiat	Private - PSD	SO <sub>2</sub>	24-Hour	5.4	µg/m <sup>3</sup>	7/1/2013	6/30/2014	l
Umiat	Private - PSD	SO <sub>2</sub>	Annual	0.5	µg/m <sup>3</sup>	7/1/2013	6/30/2014	l
Umiat	Private - PSD	CO	1-Hour	0.573	mg/m <sup>3</sup>	7/1/2013	6/30/2014	l
Umiat	Private - PSD	CO	8-Hour	0.458	mg/m <sup>3</sup>	7/1/2013	6/30/2014	l
Umiat	Private - PSD	NO <sub>2</sub>	1-Hour	87.12	µg/m <sup>3</sup>	7/1/2013	6/30/2014	l

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Monitoring Station	Monitor Type	Pollutant	Averaging Period	Monitored Maximum Concentration		Date Range		Footnotes
						Start	End	
Umiat	Private - PSD	NO <sub>2</sub>	Annual	2.5	µg/m <sup>3</sup>	7/1/2013	6/30/2014	l
Umiat	Private - PSD	O <sub>3</sub>	8-Hour	0.051	ppm	7/1/2013	6/30/2014	l
Umiat	Private - PSD	PM <sub>10</sub>	24-Hour	35.6	µg/m <sup>3</sup>	7/1/2013	6/30/2014	l
Umiat	Private - PSD	PM <sub>2.5</sub>	24-Hour	9	µg/m <sup>3</sup>	7/1/2013	6/30/2014	l
Umiat	Private - PSD	PM <sub>2.5</sub>	Annual	2.3	µg/m <sup>3</sup>	7/1/2013	6/30/2014	l
<b>INTERIOR ALASKA AND THE ALASKA RANGE</b>								
Gates of the Arctic IMPROVE	IMPROVE	PM <sub>10</sub>	24-Hour	38.3	µg/m <sup>3</sup>	1/11/2011	12/31/2013	b, c, l
Gates of the Arctic IMPROVE	IMPROVE	PM <sub>2.5</sub>	24-Hour	35.1	µg/m <sup>3</sup>	1/11/2011	12/31/2013	c, d, l
Gates of the Arctic IMPROVE	IMPROVE	PM <sub>2.5</sub>	Annual	2.8	µg/m <sup>3</sup>	1/11/2011	12/31/2013	c, l
Livengood	Private - PSD	PM <sub>2.5</sub>	24-Hour	21.8	µg/m <sup>3</sup>	1/9/2011	1/8/2012	l
Livengood	Private - PSD	PM <sub>2.5</sub>	Annual	2.4	µg/m <sup>3</sup>	1/9/2011	1/8/2012	l
Fairbanks NCore	NCore	SO <sub>2</sub>	1-Hour	146.5	µg/m <sup>3</sup>	1/1/2012	12/31/2014	
Fairbanks NCore	NCore	SO <sub>2</sub>	3-Hour	131	µg/m <sup>3</sup>	1/1/2012	12/31/2012	
Fairbanks NCore	NCore	SO <sub>2</sub>	24-Hour	85.9	µg/m <sup>3</sup>	1/1/2012	12/31/2012	
Fairbanks NCore	NCore	SO <sub>2</sub>	Annual	33.2	µg/m <sup>3</sup>	1/1/2014	12/31/2014	
Fairbanks NCore	NCore	CO	1-Hour	5.41	mg/m <sup>3</sup>	1/1/2012	12/31/2012	
Fairbanks NCore	NCore	CO	8-Hour	3.21	mg/m <sup>3</sup>	1/1/2013	12/31/2013	
Fairbanks NCore	NCore	O <sub>3</sub>	8-Hour	0.056	ppmv	1/1/2014	12/31/2014	
Fairbanks NCore	NCore	PM <sub>10</sub>	24-Hour	111	µg/m <sup>3</sup>	1/1/2013	12/31/2013	b, c
Fairbanks NCore	NCore	PM <sub>2.5</sub>	24-Hour	79.3	µg/m <sup>3</sup>	1/1/2013	12/31/2013	c, d
Fairbanks NCore	NCore	PM <sub>2.5</sub>	Annual	11.7	µg/m <sup>3</sup>	1/1/2013	12/31/2013	c



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Monitoring Station	Monitor Type	Pollutant	Averaging Period	Monitored Maximum Concentration		Date Range		Footnotes
						Start	End	
Fairbanks State Office Building	SLAMS	PM <sub>2.5</sub>	24-Hour	83.2	µg/m <sup>3</sup>	1/1/2010	12/31/2010	c, d
Fairbanks State Office Building	SLAMS	PM <sub>2.5</sub>	Annual	13.2	µg/m <sup>3</sup>	1/1/2010	12/31/2010	c, e
Denali NPS	CASTNET	O <sub>3</sub>	8-Hour	0.064	ppmv	1/1/2014	12/31/2014	
Denali NPS	IMPROVE	PM <sub>10</sub>	24-Hour	18.8	µg/m <sup>3</sup>	1/1/2012	12/31/2014	b, c, l
Denali NPS	IMPROVE	PM <sub>2.5</sub>	24-Hour	14.1	µg/m <sup>3</sup>	1/1/2012	12/31/2014	c, l
Denali NPS	IMPROVE	PM <sub>2.5</sub>	Annual	1.45	µg/m <sup>3</sup>	1/1/2012	12/31/2014	c, l
Trapper Creek IMPROVE	IMPROVE	PM <sub>10</sub>	24-Hour	33.4	µg/m <sup>3</sup>	1/1/2012	12/31/2014	b, c, l
Trapper Creek IMPROVE	IMPROVE	PM <sub>2.5</sub>	24-Hour	11.2	µg/m <sup>3</sup>	1/1/2012	12/31/2014	c, l
Trapper Creek IMPROVE	IMPROVE	PM <sub>2.5</sub>	Annual	1.7	µg/m <sup>3</sup>	1/1/2012	12/31/2014	c, l
Donlin Creek	Private - PSD	SO <sub>2</sub>	3-Hour	5.33	µg/m <sup>3</sup>	1/1/2008	12/31/2008	
Donlin Creek	Private - PSD	SO <sub>2</sub>	24-Hour	5.33	µg/m <sup>3</sup>	1/1/2008	12/31/2008	
Donlin Creek	Private - PSD	SO <sub>2</sub>	Annual	<1.333	µg/m <sup>3</sup>	1/1/2008	12/31/2008	
Donlin Creek	Private - PSD	CO	1-Hour	0.7	mg/m <sup>3</sup>	1/1/2008	12/31/2008	
Donlin Creek	Private - PSD	CO	8-Hour	0.3	mg/m <sup>3</sup>	1/1/2008	12/31/2008	
Donlin Creek	Private - PSD	NO <sub>2</sub>	1-Hour	26.32	µg/m <sup>3</sup>	12/1/2010, 4/17/2012	11/30/2011, 4/16/2013	l, m
Donlin Creek	Private - PSD	NO <sub>2</sub>	Annual	1.91	µg/m <sup>3</sup>	12/1/2010, 4/17/2012	11/30/2011, 4/16/2013	l, m
Donlin Creek	Private - PSD	O <sub>3</sub>	8-Hour	0.054	ppmv	12/1/2010, 4/17/2012	11/30/2011, 4/16/2013	m
Donlin Creek	Private - PSD	PM <sub>10</sub>	24-Hour	15	µg/m <sup>3</sup>	1/1/2008	12/31/2008	
Donlin Creek	Private - PSD	PM <sub>2.5</sub>	24-Hour	12	µg/m <sup>3</sup>	1/1/2008	12/31/2008	
Donlin Creek	Private - PSD	PM <sub>2.5</sub>	Annual	2.3	µg/m <sup>3</sup>	1/1/2008	12/31/2008	

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TABLE 1 Existing Ambient Air Quality Data in the Project Vicinity								
Monitoring Station	Monitor Type	Pollutant	Averaging Period	Monitored Maximum Concentration	Date Range		Footnotes	
					Start	End		
<b>SOUTHCENTRAL ALASKA AND COOK INLET</b>								
Palmer	SPM	PM <sub>10</sub>	24-Hour	376	µg/m <sup>3</sup>	1/1/2014	12/31/2014	b, c, h
Palmer	SPM	PM <sub>2.5</sub>	24-Hour	29.1	µg/m <sup>3</sup>	1/1/2014	12/31/2014	c, h
Palmer	SPM	PM <sub>2.5</sub>	Annual	4.25	µg/m <sup>3</sup>	1/1/2012	12/31/2012	c, h
Wasilla	SPM	O <sub>3</sub>	8-Hour	0.054	ppmv	1/1/2014	12/31/2014	h, k
Wasilla	SPM	PM <sub>10</sub>	24-Hour	127	µg/m <sup>3</sup>	1/1/2014	12/31/2014	b, c, h
Wasilla	SPM	PM <sub>2.5</sub>	24-Hour	45.9	µg/m <sup>3</sup>	1/1/2012	12/31/2012	c, d, h
Wasilla	SPM	PM <sub>2.5</sub>	Annual	6.50	µg/m <sup>3</sup>	1/1/2011	12/31/2011	c, h
Butte	SPM	PM <sub>10</sub>	24-Hour	117	µg/m <sup>3</sup>	1/1/2014	12/31/2014	b, c, h
Butte	SPM	PM <sub>2.5</sub>	24-Hour	56.4	µg/m <sup>3</sup>	1/1/2014	12/31/2014	c, d, h
Butte	SPM	PM <sub>2.5</sub>	Annual	7.94	µg/m <sup>3</sup>	1/1/2014	12/31/2014	c, h
Eagle River - Parkgate	SLAMS	CO	1-Hour	8.13	mg/m <sup>3</sup>	1/1/2012	12/31/2012	j
Eagle River - Parkgate	SLAMS	CO	8-Hour	3.09	mg/m <sup>3</sup>	1/1/2012	12/31/2012	j
Eagle River - Parkgate	SLAMS	O <sub>3</sub>	8-Hour	0.05	ppmv	1/1/2010	12/31/2010	
Eagle River - Parkgate	SLAMS	PM <sub>10</sub>	24-Hour	207	µg/m <sup>3</sup>	1/1/2010	12/31/2010	b, c, f
Eagle River - Parkgate	SLAMS	PM <sub>2.5</sub>	24-Hour	41.5	µg/m <sup>3</sup>	1/1/2014	12/31/2014	c, d
Eagle River - Parkgate	SLAMS	PM <sub>2.5</sub>	Annual	5.46	µg/m <sup>3</sup>	1/1/2012	12/31/2012	c
DHSS	SPM	CO	1-Hour	7.45	mg/m <sup>3</sup>	1/1/2012	12/31/2012	h, j
DHSS	SPM	CO	8-Hour	3.44	mg/m <sup>3</sup>	1/1/2012	12/31/2012	h, j
DHSS	SPM	PM <sub>10</sub>	24-Hour	179	µg/m <sup>3</sup>	1/1/2010	12/31/2010	g, h
DHSS	SPM	PM <sub>2.5</sub>	24-Hour	24.9	µg/m <sup>3</sup>	1/1/2012	12/31/2012	c, h
DHSS	SPM	PM <sub>2.5</sub>	Annual	4.90	µg/m <sup>3</sup>	1/1/2012	12/31/2012	c, h
Garden Site	SLAMS/CSN	CO	1-Hour	7.96	mg/m <sup>3</sup>	1/1/2012	12/31/2014	j, l

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TABLE 1  
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Monitoring Station	Monitor Type	Pollutant	Averaging Period	Monitored Maximum Concentration		Date Range		Footnotes
						Start	End	
Garden Site	SLAMS/CSN	CO	8-Hour	5.04	mg/m <sup>3</sup>	1/1/2012	12/31/2014	j, l
Garden Site	SLAMS/CSN	O <sub>3</sub>	8-Hour	0.05	ppmv	1/1/2011	12/31/2011	
Garden Site	SLAMS/CSN	PM <sub>10</sub>	24-Hour	113	µg/m <sup>3</sup>	1/1/2010	12/31/2010	b, c
Garden Site	SLAMS/CSN	PM <sub>2.5</sub>	24-Hour	57.7	µg/m <sup>3</sup>	1/1/2014	12/31/2014	c, d
Garden Site	SLAMS/CSN	PM <sub>2.5</sub>	Annual	6.73	µg/m <sup>3</sup>	1/1/2012	12/31/2012	c
Turnagain	SLAMS	CO	1-Hour	9.39	mg/m <sup>3</sup>	1/1/2010	12/31/2010	j
Turnagain	SLAMS	CO	8-Hour	7.90	mg/m <sup>3</sup>	1/1/2010	12/31/2010	j
Tudor Road	SPM	PM <sub>10</sub>	24-Hour	256	µg/m <sup>3</sup>	1/1/2013	12/31/2013	b, c, h
International Station Power Plant (ISPP)	Private - PSD	NO <sub>2</sub>	1-Hour	222.60	µg/m <sup>3</sup>	9/1/2011	8/31/2012	i
ISPP	Private - PSD	NO <sub>2</sub>	Annual	28.22	µg/m <sup>3</sup>	9/1/2011	8/31/2012	
ISPP	Private - PSD	O <sub>3</sub>	8-Hour	0.048	ppmv	9/1/2011	8/31/2012	
Agrium	Private - PSD	O <sub>3</sub>	8-Hour	0.0609	ppmv	4/1/2014	10/31/2014	
Agrium	Private - PSD	PM <sub>10</sub>	24-Hour	113.7	µg/m <sup>3</sup>	10/1/2013	9/30/2014	
Agrium	Private - PSD	PM <sub>2.5</sub>	24-Hour	70.7	µg/m <sup>3</sup>	10/1/2013	9/30/2014	a, d
Agrium	Private - PSD	PM <sub>2.5</sub>	Annual	3.6	µg/m <sup>3</sup>	10/1/2013	9/30/2014	
Kenai Peninsula Borough Bldg	SLAMS	PM <sub>10</sub>	24-Hour	131	µg/m <sup>3</sup>	1/1/2012	12/31/2012	b, c
Kenai Peninsula Borough Bldg	SLAMS	PM <sub>2.5</sub>	24-Hour	8.7	µg/m <sup>3</sup>	1/1/2012	12/31/2012	c
Kenai Peninsula Borough Bldg	SLAMS	PM <sub>2.5</sub>	Annual	0.939	µg/m <sup>3</sup>	1/1/2012	12/31/2012	c
Swanson River	Private - PSD	CO	1-Hour	2.5	mg/m <sup>3</sup>	5/1/2008	4/30/2009	
Swanson River	Private - PSD	CO	8-Hour	1.1	mg/m <sup>3</sup>	5/1/2008	4/30/2009	
Swanson River	Private - PSD	NO <sub>2</sub>	Annual	13.2	µg/m <sup>3</sup>	5/1/2008	4/30/2009	

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TABLE 1  
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Monitoring Station	Monitor Type	Pollutant	Averaging Period	Monitored Maximum Concentration		Date Range		Footnotes
						Start	End	
Tuxedni IMPROVE	IMPROVE	PM <sub>10</sub>	24-Hour	35.2	µg/m <sup>3</sup>	1/1/2014	12/31/2014	b, c
Tuxedni IMPROVE	IMPROVE	PM <sub>2.5</sub>	24-Hour	14.5	µg/m <sup>3</sup>	1/1/2014	12/31/2014	c
Tuxedni IMPROVE	IMPROVE	PM <sub>2.5</sub>	Annual	1.91	µg/m <sup>3</sup>	1/1/2014	12/31/2014	c
Nikiski LNG	Private - PSD	SO <sub>2</sub>	1-Hour	8.12	µg/m <sup>3</sup>	1/1/2015	12/31/2015	l
Nikiski LNG	Private - PSD	SO <sub>2</sub>	3-Hour	4.98	µg/m <sup>3</sup>	1/1/2015	12/31/2015	l
Nikiski LNG	Private - PSD	SO <sub>2</sub>	24-Hour	2.36	µg/m <sup>3</sup>	1/1/2015	12/31/2015	l
Nikiski LNG	Private - PSD	SO <sub>2</sub>	Annual	0.00	µg/m <sup>3</sup>	1/1/2015	12/31/2015	l
Nikiski LNG	Private - PSD	CO	1-Hour	1.145	mg/m <sup>3</sup>	1/1/2015	12/31/2015	l
Nikiski LNG	Private - PSD	CO	8-Hour	1.145	mg/m <sup>3</sup>	1/1/2015	12/31/2015	l
Nikiski LNG	Private - PSD	NO <sub>2</sub>	1-Hour	35.7	µg/m <sup>3</sup>	1/1/2015	12/31/2015	l
Nikiski LNG	Private - PSD	NO <sub>2</sub>	Annual	2.63	µg/m <sup>3</sup>	1/1/2015	12/31/2015	l
Nikiski LNG	Private - PSD	O <sub>3</sub>	8-Hour	0.050	ppmv	1/1/2015	12/31/2015	l
Nikiski LNG	Private - PSD	PM <sub>10</sub>	24-Hour	39.5	µg/m <sup>3</sup>	1/1/2015	12/31/2015	l
Nikiski LNG	Private - PSD	PM <sub>2.5</sub>	24-Hour	23.6	µg/m <sup>3</sup>	1/1/2015	12/31/2015	l
Nikiski LNG	Private - PSD	PM <sub>2.5</sub>	Annual	3.7	µg/m <sup>3</sup>	1/1/2015	12/31/2015	l

Sources: ADEC 2015b; ADEC 2015c; ADEC 2015d; ADEC 2015e; ADEC 2015f; ADEC 2015g; ADEC 2014a; ADEC 2014b; AES 2016a; AES 2016b; AES 2016c; AMEC 2012; Enviroplan 2014; Enviroplan 2013a; Enviroplan 2013b; Enviroplan 2012; Enviroplan 2011a; Enviroplan 2011b; Enviroplan 2009a; Enviroplan 2009b; ERG 2014a; ERG 2014b; ERG 2014c; EPA 2015b; EPA 2011b; MACTEC 2011; MACTEC 2009a; MACTEC 2009b; MOA 2013; SLR 2015a; SLR 2015b; SLR 2015c; SLR 2015d; SLR 2011a; SLR 2011b.

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TABLE 1 Existing Ambient Air Quality Data in the Project Vicinity							
Monitoring Station	Monitor Type	Pollutant	Averaging Period	Monitored Maximum Concentration	Date Range		Footnotes
					Start	End	
<p><sup>a</sup> The final findings report attributes this value to emissions from the Funny River wild land fire (ADEC 2014b).</p> <p><sup>b</sup> For agency-operated monitors, PM<sub>10</sub> values adjusted to standard temperature and pressure (STP) are presented when available.</p> <p><sup>c</sup> When available, data collected by continuous monitors are presented instead of data collected by filter monitors.</p> <p><sup>d</sup> This one-year value is not a violation of the 24-hour PM<sub>2.5</sub> NAAQS and AAAQS because those standards are attained when the three-year average of the annual 98<sup>th</sup> percentile 24-hour concentration is less than or equal to 35 µg/m<sup>3</sup>.</p> <p><sup>e</sup> This one-year value is not a violation of the annual PM<sub>2.5</sub> NAAQS or the annual PM<sub>2.5</sub> AAAQS because those standards are attained when the three-year average of the annual arithmetic mean concentration is less than or equal to the respective standard.</p> <p><sup>f</sup> An exceptional event waiver request has been submitted to EPA addressing this value. The second highest 24-hour value for 2010 was 92 µg/m<sup>3</sup>.</p> <p><sup>g</sup> An exceptional event waiver request has been submitted to EPA addressing this value. The second highest 24-hour value for 2010 was 89 µg/m<sup>3</sup>.</p> <p><sup>h</sup> The SPM data are not are not to be used for NAAQS compliance demonstrations (EPA 2009).</p> <p><sup>i</sup> This one-year value is not a violation of the 1-hour NO<sub>2</sub> NAAQS and AAAQS because those standards are attained when the three-year average of the annual, 98<sup>th</sup> percentile, daily maximum 1-hour NO<sub>2</sub> concentration is less than or equal to the standard.</p> <p><sup>j</sup> This CO monitor was operated seasonally. Data for a given calendar year were collected from January through March and October through December.</p> <p><sup>k</sup> This value has an observation percentage (data capture rate) of 75 percent. Wasilla is the only Matanuska-Susitna Valley monitor at which ozone data was collected, so this value is presented even though the annual observation percentage is less than 80 percent.</p> <p><sup>l</sup> Data from this monitor are used as representative background data. See Table 2.</p> <p><sup>m</sup> Data were collected during two discrete one-year monitoring periods.</p>							

Table 2 Representative Background Ambient Air Quality Data									
Monitoring Station	Monitor Type	Pollutant	Air Quality Concentrations			Date Range		Footnotes	
			Standard	Background Form	Monitored Background Concentration	Start	End		
Alaska North Slope									
CCP	Private - PSD	CO	40	mg/m <sup>3</sup>	Maximum 1 Hour Average	1.15	1/1/2014	12/31/2014	
CCP	Private - PSD	CO	10	mg/m <sup>3</sup>	Maximum 8 Hour Average	1.15	1/1/2014	12/31/2014	

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**Table 2  
Representative Background Ambient Air Quality Data**

Monitoring Station	Monitor Type	Pollutant	Air Quality Concentrations			Date Range		Footnotes	
			Standard	Background Form	Monitored Background Concentration	Start	End		
CCP	Private - PSD	PM <sub>10</sub>	150	µg/m <sup>3</sup>	Maximum 24 Hour Average	50.0	1/1/2014	12/31/2014	
CCP	Private - PSD	PM <sub>2.5</sub>	35	µg/m <sup>3</sup>	24 Hour Average (98 <sup>th</sup> Percentile)	15	1/1/2014	12/31/2014	
CCP	Private - PSD	PM <sub>2.5</sub>	12	µg/m <sup>3</sup>	Annual Average (Average of Quarterly Mean)	3.7	1/1/2014	12/31/2014	
A-Pad	Private - PSD	SO <sub>2</sub>	196	µg/m <sup>3</sup>	Daily Maximum 1 Hour Average (99 <sup>th</sup> Percentile)	9.39	1/1/2010	12/31/2014	
A-Pad	Private - PSD	SO <sub>2</sub>	1,300	µg/m <sup>3</sup>	Maximum 3 Hour Average	20.96	1/1/2010	12/31/2014	
A-Pad	Private - PSD	SO <sub>2</sub>	365	µg/m <sup>3</sup>	Maximum 24 Hour Average	8.12	1/1/2010	12/31/2014	
A-Pad	Private - PSD	SO <sub>2</sub>	80	µg/m <sup>3</sup>	Annual Average	1.8	1/1/2010	12/31/2014	
A-Pad	Private - PSD	NO <sub>2</sub>	188	µg/m <sup>3</sup>	Daily Maximum 1 Hour Average (98 <sup>th</sup> Percentile)	61.69	1/1/2009	12/31/2013	
A-Pad	Private - PSD	NO <sub>2</sub>	100	µg/m <sup>3</sup>	Annual Average	6.0	1/1/2009	12/31/2013	
A-Pad	Private - PSD	O <sub>3</sub>	0.070	ppmv	4 <sup>th</sup> Highest Daily Maximum 8 Hour Average	0.056	1/1/2010	12/31/2014	
Umiat	Private - PSD	SO <sub>2</sub>	196	µg/m <sup>3</sup>	Daily Maximum 1 Hour Average (99 <sup>th</sup> Percentile)	5.2	7/1/2013	6/30/2014	
Umiat	Private - PSD	SO <sub>2</sub>	1,300	µg/m <sup>3</sup>	Maximum 3 Hour Average	5.5	7/1/2013	6/30/2014	
Umiat	Private - PSD	SO <sub>2</sub>	365	µg/m <sup>3</sup>	Maximum 24 Hour Average	5.4	7/1/2013	6/30/2014	
Umiat	Private - PSD	SO <sub>2</sub>	80	µg/m <sup>3</sup>	Annual Average	0.5	7/1/2013	6/30/2014	
Umiat	Private - PSD	CO	40	mg/m <sup>3</sup>	Maximum 1 Hour Average	0.573	7/1/2013	6/30/2014	
Umiat	Private - PSD	CO	10	mg/m <sup>3</sup>	Maximum 8 Hour Average	0.458	7/1/2013	6/30/2014	

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Table 2 Representative Background Ambient Air Quality Data									
Monitoring Station	Monitor Type	Pollutant	Air Quality Concentrations			Date Range		Footnotes	
			Standard	Background Form	Monitored Background Concentration	Start	End		
Umiat	Private - PSD	NO <sub>2</sub>	188	µg/m <sup>3</sup>	Daily Maximum 1 Hour Average (98 <sup>th</sup> Percentile)	61.2	7/1/2013	6/30/2014	
Umiat	Private - PSD	NO <sub>2</sub>	100	µg/m <sup>3</sup>	Annual Average	2.5	7/1/2013	6/30/2014	
Umiat	Private - PSD	O <sub>3</sub>	0.070	ppmv	4 <sup>th</sup> Highest Daily Maximum 8 Hour Average	0.050	7/1/2013	6/30/2014	
Umiat	Private - PSD	PM <sub>10</sub>	150	µg/m <sup>3</sup>	Maximum 24 Hour Average	35.6	7/1/2013	6/30/2014	
Umiat	Private - PSD	PM <sub>2.5</sub>	35	µg/m <sup>3</sup>	24 Hour Average (98 <sup>th</sup> Percentile)	7.1	7/1/2013	6/30/2014	
Umiat	Private - PSD	PM <sub>2.5</sub>	12	µg/m <sup>3</sup>	Annual Average (Average of Quarterly Mean)	2.3	7/1/2013	6/30/2014	
Interior Alaska and the Alaska Range									
Gates of the Arctic IMPROVE	IMPROVE	PM <sub>10</sub>	150	µg/m <sup>3</sup>	Maximum 24 Hour Average	38.3	1/11/2011	12/31/2013	
Gates of the Arctic IMPROVE	IMPROVE	PM <sub>2.5</sub>	35	µg/m <sup>3</sup>	24 Hour Average (98 <sup>th</sup> Percentile)	11.8	1/11/2011	12/31/2013	
Gates of the Arctic IMPROVE	IMPROVE	PM <sub>2.5</sub>	12	µg/m <sup>3</sup>	Annual Average (Average of Quarterly Mean)	2.8	1/11/2011	12/31/2013	
Livengood	Private - PSD	PM <sub>2.5</sub>	35	µg/m <sup>3</sup>	24 Hour Average (98 <sup>th</sup> Percentile)	10.2	1/9/2011	1/8/2012	
Livengood	Private - PSD	PM <sub>2.5</sub>	12	µg/m <sup>3</sup>	Annual Average (Average of Quarterly Mean)	2.4	1/9/2011	1/8/2012	
Denali NPS	IMPROVE	PM <sub>10</sub>	150	µg/m <sup>3</sup>	Maximum 24 Hour Average	18.8	1/1/2012	12/31/2014	

<b>Table 2 Representative Background Ambient Air Quality Data</b>									
Monitoring Station	Monitor Type	Pollutant	Air Quality Concentrations			Date Range		Footnotes	
			Standard	Background Form	Monitored Background Concentration	Start	End		
Denali NPS	IMPROVE	PM <sub>2.5</sub>	35	µg/m <sup>3</sup>	24 Hour Average (98 <sup>th</sup> Percentile)	6.7	1/1/2012	12/31/2014	
Denali NPS	IMPROVE	PM <sub>2.5</sub>	12	µg/m <sup>3</sup>	Annual Average (Average of Quarterly Mean)	1.5	1/1/2012	12/31/2014	
Trapper Creek IMPROVE	IMPROVE	PM <sub>10</sub>	150	µg/m <sup>3</sup>	Maximum 24 Hour Average	33.4	1/1/2012	12/31/2014	
Trapper Creek IMPROVE	IMPROVE	PM <sub>2.5</sub>	35	µg/m <sup>3</sup>	24 Hour Average (98 <sup>th</sup> Percentile)	5.6	1/1/2012	12/31/2014	
Trapper Creek IMPROVE	IMPROVE	PM <sub>2.5</sub>	12	µg/m <sup>3</sup>	Annual Average (Average of Quarterly Mean)	1.7	1/1/2012	12/31/2014	
Donlin Creek	Private - PSD	NO <sub>2</sub>	188	µg/m <sup>3</sup>	Daily Maximum 1 Hour Average (98 <sup>th</sup> Percentile)	15.5	12/1/2010 4/17/2012	11/30/2011 4/16/2013	a
Donlin Creek	Private - PSD	NO <sub>2</sub>	100	µg/m <sup>3</sup>	Annual Average	1.9	12/1/2010, 4/17/2012	11/30/2011, 4/16/2013	b
Garden Site	SLAMS/CSN	CO	40	mg/m <sup>3</sup>	Maximum 1 Hour Average	7.96	1/1/2012	12/31/2014	
Garden Site	SLAMS/CSN	CO	10	mg/m <sup>3</sup>	Maximum 8 Hour Average	5.04	1/1/2012	12/31/2014	
Southcentral Alaska and Cook Inlet									
Nikiski LNG	Private - PSD	SO <sub>2</sub>	196	µg/m <sup>3</sup>	Daily Maximum 1 Hour Average (99 <sup>th</sup> Percentile)	5.0	1/1/2015	12/31/2015	
Nikiski LNG	Private - PSD	SO <sub>2</sub>	1,300	µg/m <sup>3</sup>	Maximum 3 Hour Average	5.0	1/1/2015	12/31/2015	



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Table 2 Representative Background Ambient Air Quality Data									
Monitoring Station	Monitor Type	Pollutant	Air Quality Concentrations			Date Range		Footnotes	
			Standard	Background Form	Monitored Background Concentration	Start	End		
Nikiski LNG	Private - PSD	SO <sub>2</sub>	365	µg/m <sup>3</sup>	Maximum 24 Hour Average	2.4	1/1/2015	12/31/2015	
Nikiski LNG	Private - PSD	SO <sub>2</sub>	80	µg/m <sup>3</sup>	Annual Average	0.0	1/1/2015	12/31/2015	
Nikiski LNG	Private - PSD	CO	40	mg/m <sup>3</sup>	Maximum 1 Hour Average	1.145	1/1/2015	12/31/2015	
Nikiski LNG	Private - PSD	CO	10	mg/m <sup>3</sup>	Maximum 8 Hour Average	1.145	1/1/2015	12/31/2015	
Nikiski LNG	Private - PSD	NO <sub>2</sub>	188	µg/m <sup>3</sup>	Daily Maximum 1 Hour Average (98 <sup>th</sup> Percentile)	32.3	1/1/2015	12/31/2015	
Nikiski LNG	Private - PSD	NO <sub>2</sub>	100	µg/m <sup>3</sup>	Annual Average	2.6	1/1/2015	12/31/2015	
Nikiski LNG	Private - PSD	O <sub>3</sub>	0.070	ppmv	4 <sup>th</sup> Highest Daily Maximum 8 Hour Average	0.047	1/1/2015	12/31/2015	
Nikiski LNG	Private - PSD	PM <sub>10</sub>	150	µg/m <sup>3</sup>	Maximum 24 Hour Average	40	1/1/2015	12/31/2015	
Nikiski LNG	Private - PSD	PM <sub>2.5</sub>	35	µg/m <sup>3</sup>	24 Hour Average (98 <sup>th</sup> Percentile)	12	1/1/2015	12/31/2015	
Nikiski LNG	Private - PSD	PM <sub>2.5</sub>	12	µg/m <sup>3</sup>	Annual Average (Average of Quarterly Mean)	3.7	1/1/2015	12/31/2015	

<sup>a</sup> The background 1-hour NO<sub>2</sub> value is represented by the two-year average of the 98<sup>th</sup> –percentile of the annual distribution of daily maximum 1-hour NO<sub>x</sub> concentrations.

<sup>b</sup> The background annual NO<sub>2</sub> value is represented by the maximum annual average NO<sub>2</sub> concentration collected during two discrete one-year monitoring periods.

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