

APPENDIX H

Private and Public Water Wells Within 500 Feet of the Alaska LNG Project

APPENDIX H: PRIVATE AND PUBLIC WATER WELLS WITHIN 500 FEET OF THE ALASKA LNG PROJECT

List of Tables

Table H-1	Public Water Wells Within 500 Feet and Private Water Wells Within 150 Feet of Project Facilities	H-1
-----------	--	-----

TABLE H-1

Public Water Wells Within 500 feet and Private Water Wells Within 150 feet of Project Facilities

Milepost	Distance (feet) and Direction to Well	Borough/Census Area	WELTS Well Log ID	Well Use ^a	Hole Depth (feet)	Static Water Level ^b (feet)
Gas Treatment Facilities						
N/A	N/A	N/A	N/A	N/A	N/A	N/A
Mainline Facilities						
279.0	0/E	Yukon-Koyukuk Census Area	25091	Commercial	48	43
352.5	3/NNW	Yukon-Koyukuk Census Area	25092	Commercial	800	606
352.5	3/NNW	Yukon-Koyukuk Census Area	25093	Commercial	275	195
444.7	0/E	Fairbanks North Star Borough	35728	Domestic	155	123
444.7	0/E	Fairbanks North Star Borough	35908	Domestic	155	123
444.9	25/S	Fairbanks North Star Borough	29035	Domestic	56	34
445.2	0/E	Fairbanks North Star Borough	7817	Observation/Monitoring	18	4
526.0	24/S	Denali Borough	42793	Domestic	181	186
536.5	138/NNW	Denali Borough	49893	Public Supply	190	86
536.5	114/N	Denali Borough	45136	Public Supply	104	52
536.5	114/N	Denali Borough	49913	Commercial	150	100
536.8	12/NE	Denali Borough	29041	Public Supply	220	79
633.5	249/W	Matanuska-Susitna Borough	23554	Public Supply	159	108
633.5	249/W	Matanuska-Susitna Borough	23555	Public Supply	139	103
641.0	0/E	Matanuska-Susitna Borough	3791	Public Supply	64	10
664.8	0/E	Matanuska-Susitna Borough	152	Domestic	185	120
664.8	0/E	Matanuska-Susitna Borough	12318	Domestic	40	13
664.8	0/E	Matanuska-Susitna Borough	27261	Domestic	43	21
664.8	0/E	Matanuska-Susitna Borough	27302	Domestic	71	64
664.8	0/E	Matanuska-Susitna Borough	27310	Domestic	58	38
799.2	10/NW	Kenai Peninsula Borough	48293	Domestic	265	180
799.2	10/NW	Kenai Peninsula Borough	48294	Domestic	265	180
800.6	116/SE	Kenai Peninsula Borough	18201	Observation/Monitoring	100	12
804.4	0/E	Kenai Peninsula Borough	19533	Observation/Monitoring	37	32
804.4	0/E	Kenai Peninsula Borough	19509	Observation/Monitoring	44	39
804.4	0/E	Kenai Peninsula Borough	19532	Observation/Monitoring	37	27
804.5	0/E	Kenai Peninsula Borough	19510	Observation/Monitoring	34	29
804.5	0/E	Kenai Peninsula Borough	19512	Observation/Monitoring	34	29
804.5	0/E	Kenai Peninsula Borough	19507	Test/Exploratory	39	29
804.7	122/S	Kenai Peninsula Borough	16772	Observation/Monitoring	87	100
804.7	122/S	Kenai Peninsula Borough	16784	Test/Exploratory	198	32
805.4	85/S	Kenai Peninsula Borough	17058	Domestic	55	35
805.8	41/WSW	Kenai Peninsula Borough	17826	Domestic	136	68

TABLE H-1 (cont'd)

Public Water Wells Within 500 feet and Private Water Wells Within 150 feet of Project Facilities						
Milepost	Distance (feet) and Direction to Well	Borough/Census Area	WELTS Well Log ID	Well Use ^a	Hole Depth (feet)	Static Water Level ^b (feet)
Liquefaction Facilities						
806.2	0/E	Kenai Peninsula Borough	17102	Commercial	75	15
806.2	0/E	Kenai Peninsula Borough	5788	Observation/Monitoring	145	67
806.2	0/E	Kenai Peninsula Borough	17080	Observation/Monitoring	85	21
806.2	0/E	Kenai Peninsula Borough	17081	Observation/Monitoring	155	21
806.2	0/E	Kenai Peninsula Borough	17082	Observation/Monitoring	110	20
806.2	0/E	Kenai Peninsula Borough	17089	Observation/Monitoring	149	40
806.2	0/E	Kenai Peninsula Borough	17090	Observation/Monitoring	154	40
806.2	0/E	Kenai Peninsula Borough	17093	Observation/Monitoring	63	N/A
806.2	0/E	Kenai Peninsula Borough	17094	Observation/Monitoring	42	N/A
806.2	0/E	Kenai Peninsula Borough	17096	Observation/Monitoring	80	15
806.2	0/E	Kenai Peninsula Borough	17097	Observation/Monitoring	62	N/A
806.2	0/E	Kenai Peninsula Borough	17098	Observation/Monitoring	42	N/A
806.2	0/E	Kenai Peninsula Borough	17099	Observation/Monitoring	64	N/A
806.2	0/E	Kenai Peninsula Borough	17100	Observation/Monitoring	65	N/A
806.2	0/E	Kenai Peninsula Borough	17103	Observation/Monitoring	77	15
806.2	0/E	Kenai Peninsula Borough	17079	Other/Abandoned	155	N/A
806.2	0/E	Kenai Peninsula Borough	1562	Test/Exploratory	150	59
806.2	0/E	Kenai Peninsula Borough	17077	Test/Exploratory	155	20
806.2	0/E	Kenai Peninsula Borough	17083	Test/Exploratory	157	27
806.2	0/E	Kenai Peninsula Borough	17084	Test/Exploratory	90	19
806.2	0/E	Kenai Peninsula Borough	17085	Test/Exploratory	150	69
806.2	0/E	Kenai Peninsula Borough	17086	Test/Exploratory	152	40
806.2	0/E	Kenai Peninsula Borough	17087	Test/Exploratory	150	19
806.2	0/E	Kenai Peninsula Borough	17088	Test/Exploratory	148	75
806.2	0/E	Kenai Peninsula Borough	17091	Test/Exploratory	148	68
806.2	0/E	Kenai Peninsula Borough	17092	Test/Exploratory	160	40
806.2	0/E	Kenai Peninsula Borough	17095	Test/Exploratory	68	27
806.2	0/E	Kenai Peninsula Borough	17101	Test/Exploratory	280	64
806.2	145/S	Kenai Peninsula Borough	2599	Test/Exploratory	136	65
806.2	145/S	Kenai Peninsula Borough	17012	Test/Exploratory	145	40
806.2	145/S	Kenai Peninsula Borough	17013	Test/Exploratory	159	26
806.2	146/S	Kenai Peninsula Borough	17011	Observation/Monitoring	408	69
806.3	146/S	Kenai Peninsula Borough	17017	Test/Exploratory	200	45
806.5	0/E	Kenai Peninsula Borough	17114	Domestic	60	45
806.5	0/E	Kenai Peninsula Borough	17111	Domestic	56	48
806.5	0/E	Kenai Peninsula Borough	17522	Domestic	100	56
806.5	0/E	Kenai Peninsula Borough	17113	Public Supply	195	76

TABLE H-1 (cont'd)

Public Water Wells Within 500 feet and Private Water Wells Within 150 feet of Project Facilities						
Milepost	Distance (feet) and Direction to Well	Borough/Census Area	WELTS Well Log ID	Well Use ^a	Hole Depth (feet)	Static Water Level ^b (feet)
806.6	0/E	Kenai Peninsula Borough	17115	Commercial	96	N/A
806.6	0/E	Kenai Peninsula Borough	17136	Domestic	58	58
806.6	0/E	Kenai Peninsula Borough	13558	Observation/Monitoring	69	64
806.6	0/E	Kenai Peninsula Borough	13563	Observation/Monitoring	72	68
806.6	0/E	Kenai Peninsula Borough	13564	Observation/Monitoring	69	62
806.6	0/E	Kenai Peninsula Borough	13566	Observation/Monitoring	70	N/A
806.6	0/E	Kenai Peninsula Borough	13567	Observation/Monitoring	71	N/A
806.6	0/E	Kenai Peninsula Borough	17127	Observation/Monitoring	71	N/A
806.6	0/E	Kenai Peninsula Borough	17129	Observation/Monitoring	70	N/A
806.6	0/E	Kenai Peninsula Borough	17131	Observation/Monitoring	0	66
806.6	0/E	Kenai Peninsula Borough	20719	Observation/Monitoring	73	67
806.6	0/E	Kenai Peninsula Borough	20722	Observation/Monitoring	73	64
806.6	0/E	Kenai Peninsula Borough	17250	Public Supply	195	N/A
806.6	0/E	Kenai Peninsula Borough	17132	Test/Exploratory	75	N/A
806.6	0/E	Kenai Peninsula Borough	17133	Test/Exploratory	75	N/A
806.6	0/E	Kenai Peninsula Borough	17137	Test/Exploratory	61	58
806.6	0/E	Kenai Peninsula Borough	17138	Test/Exploratory	103	88
806.6	0/E	Kenai Peninsula Borough	17193	Test/Exploratory	15	None
806.6	119/E	Kenai Peninsula Borough	17126	Observation/Monitoring	164	95
806.6	0/E	Kenai Peninsula Borough	17104	Test/Exploratory	450	100
806.6	0/E	Kenai Peninsula Borough	17108	Domestic	55	N/A
806.6	0/E	Kenai Peninsula Borough	17109	Domestic	66	50
806.6	0/E	Kenai Peninsula Borough	17110	Domestic	69	50
806.6	0/E	Kenai Peninsula Borough	24786	Commercial	75	51
806.6	0/E	Kenai Peninsula Borough	24787	Commercial	74	27
806.6	0/E	Kenai Peninsula Borough	24790	Commercial	140	65
806.6	0/E	Kenai Peninsula Borough	24788	Other/Abandoned	157	N/A
806.6	0/E	Kenai Peninsula Borough	17078	Test/Exploratory	152	19
806.6	0/E	Kenai Peninsula Borough	17105	Test/Exploratory	151	35
806.6	0/E	Kenai Peninsula Borough	17106	Test/Exploratory	150	54
806.6	0/E	Kenai Peninsula Borough	17107	Test/Exploratory	150	60
806.6	0/E	Kenai Peninsula Borough	24789	Test/Exploratory	160	67
806.6	0/E	Kenai Peninsula Borough	25669	Commercial	140	80
806.6	0/E	Kenai Peninsula Borough	25670	Commercial	100	60
806.6	0/E	Kenai Peninsula Borough	17112	Domestic	60	40
806.6	0/E	Kenai Peninsula Borough	17139	Domestic	105	95
806.6	0/E	Kenai Peninsula Borough	17147	Domestic	48	30
806.6	0/E	Kenai Peninsula Borough	17149	Domestic	52	45

TABLE H-1 (cont'd)

Public Water Wells Within 500 feet and Private Water Wells Within 150 feet of Project Facilities

Milepost	Distance (feet) and Direction to Well	Borough/Census Area	WELTS Well Log ID	Well Use ^a	Hole Depth (feet)	Static Water Level ^b (feet)
806.6	0/E	Kenai Peninsula Borough	17150	Domestic	70	54
806.6	0/E	Kenai Peninsula Borough	17151	Domestic	50	N/A
806.6	0/E	Kenai Peninsula Borough	17467	Domestic	55	130
806.6	0/E	Kenai Peninsula Borough	17592	Domestic	46	21
806.6	0/E	Kenai Peninsula Borough	17823	Domestic	105	35
806.6	0/E	Kenai Peninsula Borough	18237	Domestic	338	130
806.6	0/E	Kenai Peninsula Borough	18242	Domestic	240	110
806.6	0/E	Kenai Peninsula Borough	18253	Domestic	61	44
806.6	0/E	Kenai Peninsula Borough	18279	Domestic	55	45
806.6	0/E	Kenai Peninsula Borough	18570	Domestic	63	47
806.6	0/E	Kenai Peninsula Borough	18656	Domestic	40	28
806.6	0/E	Kenai Peninsula Borough	18688	Domestic	53	40
806.6	0/E	Kenai Peninsula Borough	19955	Domestic	88	58
806.6	0/E	Kenai Peninsula Borough	19957	Domestic	0	None
806.6	0/E	Kenai Peninsula Borough	22387	Domestic	72	N/A
806.6	0/E	Kenai Peninsula Borough	22388	Domestic	68	N/A
806.6	0/E	Kenai Peninsula Borough	22389	Domestic	67	N/A
806.6	0/E	Kenai Peninsula Borough	22390	Domestic	52	40
806.6	0/E	Kenai Peninsula Borough	19334	Observation/Monitoring	50	38
806.6	0/E	Kenai Peninsula Borough	19339	Observation/Monitoring	50	40
806.6	0/E	Kenai Peninsula Borough	19340	Observation/Monitoring	50	39
806.6	0/E	Kenai Peninsula Borough	45055	Observation/Monitoring	97	69
806.6	0/E	Kenai Peninsula Borough	175	Other/Abandoned	69	50
806.6	0/E	Kenai Peninsula Borough	17134	Public Supply	90	55
806.6	0/E	Kenai Peninsula Borough	17135	Public Supply	104	80
806.6	0/E	Kenai Peninsula Borough	17148	Public Supply	54	N/A
806.6	0/E	Kenai Peninsula Borough	19956	Public Supply	109	89
806.6	6/W	Kenai Peninsula Borough	17466	Domestic	48	25
806.6	65/NW	Kenai Peninsula Borough	3013	Domestic	120	103

Source: ADNR, 2017h

N/A = Not available; WELTS = Well Log Tracking System

^a Well uses are defined as follows:

- Abandoned = A well whose use has been permanently discontinued and has not been properly decommissioned.
- Beneficial = A well used to withdraw water for drinking water, agriculture, aquaculture, industrial, water recreation, and growth and propagation of fish, shellfish, aquatic life, and wildlife.
- Commercial = A well used to withdraw water for motel, hotel, restaurant, office building, other commercial facilities, and military and nonmilitary institution use.
- Domestic = A well used to withdraw water for indoor household purposes such as drinking, food preparation, bathing, washing clothes and dishes, and flushing toilets; and outdoor purposes such as watering lawns and gardens.

TABLE H-1 (cont'd)

Public Water Wells Within 500 feet and Private Water Wells Within 150 feet of Project Facilities						
Milepost	Distance (feet) and Direction to Well	Borough/Census Area	WELTS Well Log ID	Well Use ^a	Hole Depth (feet)	Static Water Level ^b (feet)
	<ul style="list-style-type: none"> • Exploration = A well drilled to determine the properties of groundwater, including depth and chemical and biological characteristics. • Industrial = A well used to withdraw water for fabrication, processing, washing, and cooling. Includes industries such as chemical and allied products, food, mining, paper and allied products, petroleum refining, and steel. • Livestock = A well used to withdraw water for livestock watering, feedlots, dairy operations, and other on-farm needs. • Observation/Monitoring = A well used to determine the physical, chemical, biological, or radiological properties of groundwater. • Private = A well used to withdraw water to serve one single-family residence or duplex. • Public supply = A well used to withdraw water by public and private water suppliers to furnish water to at least 25 people or have a minimum of 15 connections. Public suppliers provide water for a variety of uses, such as domestic, commercial, industrial, thermoelectric-power, and public water use. • Test = A well used to determine the sustained producing capability and recovery rate of a water bearing zone. 					
^b	Static water level refers to the level of water in a well under normal, undisturbed, non-pumping conditions.					