

	ALASKA PIPELINE PROJECT DRAFT RESOURCE REPORT 7 SOIL RESOURCES APPENDIX 7B	USAG-UR-SGREG-000010 DECEMBER 2011 REVISION 0
	FERC Docket No. PF09-11-000	

APPENDIX 7B SUMMARY AND MILEPOSTED DATA TABLES BASED ON NRCS STATSGO2 SOIL MAPPING

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TABLE 7B-1

Alaska Pipeline Project

Selected Physical and Interpretative Characteristics of STATSGO2 Soil Map Component Soils along the Point Thomson Gas Transmission Pipeline and the Alaska Mainline ^a

Component Name ^b	Map Unit Composition ^c	Length within Map Unit ^d	Range in Slope ^e			Land Capability Subclass ^f	Hydric Rating ^g	Drainage Class ^h	Surface Texture ⁱ	Subsurface Texture ^j
			Low	High	Average					
PT Pipeline; 58.4 Miles Total										
Map Unit s9323: Typic Haploturbels-Typic Aquiturbels; 13.7 Miles, 390.2 acres.										
Typic Aquiturbels	65	8.90	0	3	1.5		No	Somewhat poorly drained	Gravelly silt loam	Consolidated permafrost (ice-rich)
Typic Aquiturbels	10	1.37	0	3	1.5		No	Poorly drained	Loamy fine sand	Consolidated permafrost (ice-rich)
Typic Aquiturbels	10	1.37	0	3	1.5		Yes	Poorly drained	Silt loam	Consolidated permafrost (ice-rich)
Typic Haploturbels	10	1.37	1	3	2.0		No	Well-drained	Very gravelly sandy loam	Weathered bedrock
Typic Fibristels	2	0.27	0	1	0.5		Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Riverwash	1	0.14	0	3	1.5	8w	Yes		Gravelly sand	Stratified extremely gravelly coarse sand to gravelly sand
Typic Histoturbels	1	0.14	0	3	1.5	7w	Yes	Poorly drained	Peat	Consolidated permafrost (ice-rich)
Typic Psammiturbels	1	0.14	1	16	8.5		No	Well-drained	Fine sand	Consolidated permafrost (ice-rich)
Map Unit s9389: Typic Histoturbels-Typic Haploturbels-Typic Fibristels-Typic Aquiturbels-Ruptic Histic Aquiturbels; 44.6 Miles, 105.9 acres.										
Typic Aquiturbels	30	13.38	1	8	4.5		Yes	Poorly drained	Silt loam	Consolidated permafrost (ice-rich)
Typic Histoturbels	25	11.15	1	16	8.5	7w	Yes	Poorly drained	Peat	Consolidated permafrost (ice-rich)
Ruptic Histic Aquiturbels	20	8.92	1	16	8.5	7w	Yes	Poorly drained	Peat	Consolidated permafrost (ice-rich)
Typic Fibristels	10	4.46	0	3	1.5		Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Typic Haploturbels	10	4.46	1	16	8.5		No	Well-drained	Very gravelly sandy loam	Weathered bedrock

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Selected Physical and Interpretative Characteristics of STATSGO2 Soil Map Component Soils along the Point Thomson Gas Transmission Pipeline and the Alaska Mainline ^a

Component Name ^b	Map Unit Composition ^c	Length within Map Unit ^d	Range in Slope ^e			Land Capability Subclass ^f	Hydric Rating ^g	Drainage Class ^h	Surface Texture ⁱ	Subsurface Texture ^j
	Percent	Miles	Low	High	Average					
Typic Aquiturbels	3	1.34	0	3	1.5		No	Somewhat poorly drained	Very gravelly silt loam	Consolidated permafrost (ice- rich)
Typic Psammenturbels	2	0.89	1	16	8.5		No	Well-drained	Fine sand	Consolidated permafrost (ice- rich)
Alaska Mainline; 745.1 Miles Total										
Map Unit s9250: Typic Histoturbels-Typic Eutrocryepts-Typic Aquiturbels; 29.7 Miles, 647.2 acres										
Typic Histoturbels	60	17.79	1	16	8.5	6w	Yes	Very poorly drained	Peat	Consolidated permafrost (ice- rich)
Typic Aquiturbels	15	4.45	1	16	8.5		Yes	Poorly drained	Silt loam	Consolidated permafrost (ice- rich)
Typic Eutrocryepts	10	2.97	1	16	8.5	3e	No	Well-drained	Silt loam	Silt loam
Aeric Cryaquepts	5	1.48	1	16	8.5	4s	No	Somewhat poorly drained	Silt loam	Silt loam
Typic Fibristels	5	1.48	0	1	0.5	7w	Yes	Very poorly drained	Peat	Consolidated permafrost (ice- rich)
Typic Cryofluvents	3	0.89	0	3	1.5	3w	No	Well-drained	Silt loam	Stratified fine sand to silt loam
Typic Cryorthents	2	0.59	1	16	8.5	3e	No	Well-drained	Silt loam	Stratified very gravelly sand to sand
Map Unit s9252: Typic Histoturbels-Typic Haplocryods-Typic Eutrocryepts-Typic Aquiturbels; 25.4 Miles, 549.7 acres.										
Typic Histoturbels	60	15.23	1	16	8.5	7w	Yes	Poorly drained	Peat	Consolidated permafrost (ice- rich)
Typic Aquiturbels	10	2.54	20	65	42.5	7s	Yes	Poorly drained	Very gravelly silt loam	Consolidated permafrost (ice- rich)
Typic Eutrocryepts	10	2.54	20	65	42.5	7e	No	Well-drained	Silt loam	Variable
Typic Haplocryods	10	2.54	20	65	42.5		No	Well-drained	Silt loam	Weathered bedrock
Aeric Cryaquepts	5	1.27	1	16	8.5		No	Somewhat poorly drained	Silt loam	Silt loam
Typic Fibristels	3	0.76	0	1	0.5		Yes	Very poorly drained	Peat	Consolidated permafrost (ice- rich)

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Component Name ^b	Map Unit Composition ^c	Length within Map Unit ^d	Range in Slope ^e			Land Capability Subclass ^f	Hydric Rating ^g	Drainage Class ^h	Surface Texture ⁱ	Subsurface Texture ^j
	Percent	Miles	Low	High	Average					
Humic Dystrocrypts	1	0.25	20	65	42.5		No	Well-drained	Very gravelly silt loam	Consolidated permafrost (ice-rich)
Typic Cryorthents	1	0.25	20	65	42.5	7e	No	Somewhat poorly drained	Very gravelly silt loam	Consolidated permafrost (ice-rich)
Map Unit s9255; Typic Histoturbels-Typic Aquiturbels; 50.7 Miles, 1150.2 acres.										
Typic Histoturbels	70	35.47	1	16	8.5	7w	Yes	Poorly drained	Peat	Consolidated permafrost (ice-rich)
Typic Aquiturbels	10	10.13	1	16	8.5		Yes	Poorly drained	Silt loam	Consolidated permafrost (ice-rich)
Typic Aquiturbels	2	1.01	0	3	1.5		No	Somewhat poorly drained	Very gravelly sandy loam	Consolidated permafrost (ice-rich)
Typic Cryorthents	2	1.01	1	15	8.0		No	Well-drained	Very gravelly sandy loam	Weathered bedrock
Typic Cryorthents	2	1.01	1	16	8.5		No	Well-drained	Silt loam	Consolidated permafrost (ice-rich)
Typic Eutrocrypts	2	1.01	20	65	42.5	7e	No	Well-drained	Gravelly sandy loam	Very gravelly sandy loam
Typic Fibristels	2	1.01	0	1	0.5		Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Map Unit s9256; Typic Histoturbels-Typic Aquiturbels; 41.8, 879.7 acres.										
Typic Histoturbels	70	29.23	1	16	8.5	7w	Yes	Poorly drained	Peat	Consolidated permafrost (ice-rich)
Typic Aquiturbels	10	8.35	1	16	8.5		Yes	Poorly drained	Silt loam	Consolidated permafrost (ice-rich)
Typic Aquiturbels	2	0.84	0	3	1.5		No	Somewhat poorly drained	Gravelly silt loam	Consolidated permafrost (ice-rich)
Typic Fibristels	2	0.84	0	1	0.5		Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Typic Haploturbels	2	0.84	1	15	8.0		No	Well-drained	Very gravelly sandy loam	Weathered bedrock

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Selected Physical and Interpretative Characteristics of STATSGO2 Soil Map Component Soils along the Point Thomson Gas Transmission Pipeline and the Alaska Mainline ^a

Component Name ^b	Map Unit Composition ^c	Length within Map Unit ^d	Range in Slope ^e			Land Capability Subclass ^f	Hydric Rating ^g	Drainage Class ^h	Surface Texture ⁱ	Subsurface Texture ^j
	Percent	Miles	Low	High	Average					
Typic Haploturbels	2	0.84	1	16	8.5		No	Well-drained	Silt loam	Consolidated permafrost (ice-rich)
Typic Haploturbels	2	0.84	20	65	42.5	7e	No	Well-drained	Gravelly sandy loam	Very gravelly sandy loam
Map Unit s9258; Typic Histoturbels-Typic Fibristels-Typic Cryofluvents; 47.8 Miles, 1017.5 acres.										
Typic Histoturbels	45	21.51	0	1	0.5	6w	Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Typic Cryofluvents	35	16.73	0	3	1.5	3w	No	Well-drained	Silt loam	Stratified fine sand to silt loam
Typic Fibristels	15	7.17	0	1	0.5	7w	Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Typic Cryorthents	5	2.39	0	3	1.5		No		Silt loam	Silt loam
Map Unit s9269; Typic Histoturbels-Typic Fibristels; 11.7 Miles, 257.5 acres.										
Typic Histoturbels	55	6.41	1	16	8.5	6w	Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Typic Fibristels	40	4.66	0	1	0.5	7w	Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Typic Cryofluvents	5	0.58	0	3	1.5	3w	No	Well-drained	Silt loam	Stratified fine sand to silt loam
Map Unit s9322; Typic Haploturbels-Typic Aquiturbels; 22.9 Miles, 477.5 acres.										
Typic Aquiturbels	65	14.88	0	3	1.5		No	Somewhat poorly drained	Gravelly silt loam	Consolidated permafrost (ice-rich)
Typic Aquiturbels	10	2.29	0	3	1.5		No	Poorly drained	Loamy fine sand	Consolidated permafrost (ice-rich)
Typic Aquiturbels	10	2.29	0	3	1.5		Yes	Poorly drained	Silt loam	Consolidated permafrost (ice-rich)
Typic Haploturbels	10	2.29	1	3	2.0		No	Well-drained	Very gravelly sandy loam	Weathered bedrock
Typic Fibristels	2	0.46	0	1	0.5		Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Riverwash	1	0.23	0	3	1.5	8w	Yes		Gravelly sand	Stratified extremely gravelly coarse sand to gravelly sand

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Component Name ^b	Map Unit Composition ^c Percent	Length within Map Unit ^d Miles	Range in Slope ^e			Land Capability Subclass ^f	Hydric Rating ^g	Drainage Class ^h	Surface Texture ⁱ	Subsurface Texture ^j
			Low	High	Average					
Typic Histoturbels	1	0.23	0	3	1.5	7w	Yes	Poorly drained	Peat	Consolidated permafrost (ice-rich)
Typic Psammenturbels	1	0.23	1	16	8.5		No	Well-drained	Fine sand	Consolidated permafrost (ice-rich)
Map Unit s9323; Typic Haploturbels-Typic Aquiturbels; 45.9 Miles, 857.4 acres.										
Typic Aquiturbels	65	29.82	0	3	1.5		No	Somewhat poorly drained	Gravelly silt loam	Consolidated permafrost (ice-rich)
Typic Aquiturbels	10	4.59	0	3	1.5		No	Poorly drained	Loamy fine sand	Consolidated permafrost (ice-rich)
Typic Aquiturbels	10	4.59	0	3	1.5		Yes	Poorly drained	Silt loam	Consolidated permafrost (ice-rich)
Typic Haploturbels	10	4.59	1	3	2.0		No	Well-drained	Very gravelly sandy loam	Weathered bedrock
Typic Fibristels	2	0.92	0	1	0.5		Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Riverwash	1	0.46	0	3	1.5	8w	Yes		Gravelly sand	Stratified extremely gravelly coarse sand to gravelly sand
Typic Histoturbels	1	0.46	0	3	1.5	7w	Yes	Poorly drained	Peat	Consolidated permafrost (ice-rich)
Typic Psammenturbels	1	0.46	1	16	8.5		No	Well-drained	Fine sand	Consolidated permafrost (ice-rich)
Map Unit s9328; Typic Histoturbels-Typic Cryorthents-Typic Aquiturbels-Humic Eutrocryepts; 3.8 miles, 97.0 acres.										
Typic Aquiturbels	35	1.34	20	65	42.5	7s	Yes	Poorly drained	Silt loam	Consolidated permafrost (ice-rich)
Typic Cryorthents	20	0.77	20	65	42.5	7e	No	Somewhat poorly drained	Gravelly silt loam	Consolidated permafrost (ice-rich)
Humic Eutrocryepts	15	0.58	20	65	42.5		No	Well-drained	Very gravelly silt loam	Consolidated permafrost (ice-rich)
Typic Histoturbels	15	0.58	20	65	42.5		Yes	Very poorly drained	Peat	Weathered bedrock

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Component Name ^b	Map Unit Composition ^c	Length within Map Unit ^d	Range in Slope ^e			Land Capability Subclass ^f	Hydric Rating ^g	Drainage Class ^h	Surface Texture ⁱ	Subsurface Texture ^j
			Low	High	Average					
	Percent	Miles	Percent							
Rough mountainous land	5	0.19	0	99	49.5	8s	No		Variable	Variable
Ruptic Histic Aquiturbels	5	0.19	20	65	42.5		Yes	Poorly drained	Peat	Consolidated permafrost (ice-rich)
Typic Haplocryolls	2	0.08	20	65	42.5		No	Well-drained	Gravelly silt loam	Consolidated permafrost (ice-rich)
Humic Lithic Eutrocryepts	1	0.04	20	65	42.5		No	Well-drained	Gravelly silt loam	Unweathered bedrock
Lithic Haplocryolls	1	0.04	20	65	42.5		No	Well-drained	Very flaggy silt loam	Unweathered bedrock
Typic Eutrocryepts	1	0.04	20	65	42.5		No	Well-drained	Gravelly silt loam	Very gravelly coarse sand
Map Unit s9322; Typic Histoturbels-Typic Dystrocryepts-Typic Cryorthents-Typic Aquiturbels; 16.0 Miles, 477.5 acres.										
Typic Aquiturbels	40	6.40	20	65	42.5	7w	No	Somewhat poorly drained	Gravelly silt loam	Consolidated permafrost (ice-rich)
Typic Dystrocryepts	30	4.80	20	65	42.5		No	Well-drained	Gravelly silt loam	Gravelly silt loam
Typic Cryorthents	10	1.60	20	65	42.5	7e	No	Somewhat poorly drained	Gravelly silt loam	Consolidated permafrost (ice-rich)
Typic Histoturbels	10	1.60	20	65	42.5	7w	Yes	Very poorly drained	Peat	Weathered bedrock
Typic Histoturbels	5	0.80	3	16	9.5	6w	Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Typic Dystrocryepts	2	0.32	20	65	42.5		No	Well-drained	Gravelly silt loam	Very gravelly coarse sand
Typic Haplocryods	2	0.32	20	60	40.0		No	Well-drained	Silt loam	Very gravelly sandy loam
Aeric Cryaquepts	1	0.16	1	16	8.5		No	Somewhat poorly drained	Silt loam	Silt loam
Map Unit s9347; Typic Histoturbels-Typic Eutrocryepts-Typic Dystrocryepts-Aeric Cryaquepts; 54.6 Miles, 1190.6 acres.										
Typic Eutrocryepts	35	19.12	20	65	42.5	7e	No	Well-drained	Silt loam	Variable
Typic Histoturbels	25	13.65	1	16	8.5	6w	Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Typic Dystrocryepts	15	8.19	20	65	42.5		No	Well-drained	Gravelly silt loam	Very gravelly coarse sand

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Selected Physical and Interpretative Characteristics of STATSGO2 Soil Map Component Soils along the Point Thomson Gas Transmission Pipeline and the Alaska Mainline ^a

Component Name ^b	Map Unit Composition ^c Percent	Length within Map Unit ^d Miles	Range in Slope ^e			Land Capability Subclass ^f	Hydric Rating ^g	Drainage Class ^h	Surface Texture ⁱ	Subsurface Texture ^j
			Low	High	Average					
Aeric Cryaquepts	10	5.46	1	16	8.5	4s	No	Somewhat poorly drained	Silt loam	silt loam
Typic Cryorthents	5	2.73	20	65	42.5	7e	No	Well-drained	Silt loam	Stratified very gravelly sand to sand
Typic Fibristels	5	2.73	0	1	0.5	7w	Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Typic Histoturbels	5	2.73	20	65	42.5	7w	Yes	Very poorly drained	Peat	Weathered bedrock
Map Unit s9350; Typic Histoturbels-Typic Eutrocryepts-Typic Cryopsamments; 50.0 Miles, 1109.8 acres.										
Typic Eutrocryepts	35	17.51	1	16	8.5		No	Well-drained	Silt loam	Fine sand
Typic Histoturbels	30	15.01	0	1	0.5		Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Typic Cryopsamments	25	12.51	20	65	42.5		No	Excessively drained	Fine sandy loam	Sand
Typic Fibristels	5	2.50	0	1	0.5	7w	Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Typic Haplocryods	3	1.50	1	16	8.5		No	Well-drained	Silt loam	Fine sand
Typic Cryofluvents	2	1.00	0	3	1.5	3w	No	Well-drained	Loamy fine sand	Stratified fine sand to silt loam
Typic Eutrocryepts (s9352)	45.6									
Typic Eutrocryepts	90	41.08	1	16	8.5	4s	No	Well-drained	Silt loam	Very gravelly sand
Typic Aquiturbels	5	2.28	1	16	8.5		Yes	Poorly drained	Silt loam	Consolidated permafrost (ice-rich)
Typic Cryopsamments	5	2.28	1	16	8.5		No	Excessively drained	Silt loam	Sand
Map Unit s9358; Typic Histoturbels-Typic Eutrocryepts-Aeric Cryaquepts; 25.1 Miles, 556.8 acres.										
Typic Eutrocryepts	35	8.79	1	16	8.5	4s	No	Well-drained	Silt loam	Very gravelly sand
Aeric Cryaquepts	25	6.28	1	16	8.5	4s	No	Somewhat poorly drained	Silt loam	Silt loam

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	Percent	Miles	Low	High	Average					
Typic Histoturbels	20	5.02	1	16	8.5	6w	Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Typic Aquiturbels	5	1.26	1	16	8.5		Yes	Poorly drained	Silt loam	Consolidated permafrost (ice-rich)
Typic Cryopsamments	5	1.26	1	16	8.5		No	Excessively drained	Silt loam	Sand
Typic Hemistels	4	1.00	0	1	0.5	7w	Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Typic Eutrocryepts	3	0.75	1	16	8.5	3e	No	Well-drained	Silt loam	Silt loam
Typic Fibristels	3	0.75	0	1	0.5	7w	Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Map Unit s9361; Typic Histoturbels-Typic Dystrocryepts; 9.3 miles, 237.6 acres.										
Typic Dystrocryepts	65	6.19	20	65	42.5		No	Well-drained	Gravelly silt loam	Very gravelly coarse sand
Typic Dystrocryepts	10	0.95	20	65	42.5		No	Well-drained	Gravelly silt loam	Gravelly silt loam
Typic Histoturbels	10	0.95	20	65	42.5	7w	Yes	Very poorly drained	Peat	Weathered bedrock
Lithic Dystrocryepts	5	0.48	20	65	42.5		No	Well-drained	Very gravelly sandy loam	Unweathered bedrock
Typic Cryorthents	3	0.29	1	16	8.5	3e	No	Well-drained	Silt loam	Stratified very gravelly sand to sand
Typic Dystrocryepts	3	0.29	1	16	8.5	3e	No	Well-drained	Silt loam	Silt loam
Typic Cryofluvents	2	0.19	0	3	1.5	3w	No	Well-drained	Silt loam	Stratified fine sand to silt loam
Typic Fibristels	2	0.19	0	1	0.5	7w	Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Map Unit s9362; Typic Histoturbels-Typic Eutrocryepts; 3.5 Miles, 78.4 acres.										
Typic Eutrocryepts	65	2.26	20	65	42.5		No	Well-drained	Gravelly silt loam	Very gravelly coarse sand
Typic Eutrocryepts	10	0.35	20	65	42.5		No	Well-drained	Gravelly silt loam	Gravelly silt loam
Typic Histoturbels	10	0.35	20	65	42.5	7w	Yes	Very poorly drained	Peat	Weathered bedrock

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Component Name ^b	Map Unit Composition ^c	Length within Map Unit ^d	Range in Slope ^e			Land Capability Subclass ^f	Hydric Rating ^g	Drainage Class ^h	Surface Texture ⁱ	Subsurface Texture ^j
	Percent	Miles	Low	High	Average					
Lithic Eutrocryepts	5	0.17	20	65	42.5		No	Well-drained	Very gravelly sandy loam	Unweathered bedrock
Typic Cryorthents	3	0.10	1	16	8.5	3e	No	Well-drained	Silt loam	Stratified very gravelly sand to sand
Typic Eutrocryepts	3	0.10	1	16	8.5	3e	No	Well-drained	Silt loam	Silt loam
Typic Cryofluvents	2	0.07	0	3	1.5	3w	No	Well-drained	Silt loam	Stratified fine sand to silt loam
Typic Fibristels	2	0.07	0	1	0.5	7w	Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Map Unit s9366; Typic Histoturbels-Typic Dystrocryepts-Aquic Cryorthents; 89.3 Miles, 1914.2 acres.										
Typic Dystrocryepts	30	26.80	20	65	42.5		No	Well-drained	Gravelly silt loam	Very gravelly coarse sand
Typic Histoturbels	25	22.34	1	16	8.5	6w	Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Aquic Cryorthents	10	8.93	20	65	42.5		No	Moderately well-drained	Silt loam	Unweathered bedrock
Typic Histoturbels	10	8.93	20	65	42.5	7w	Yes	Very poorly drained	Peat	Weathered bedrock
Typic Cryorthents	3	2.68	20	65	42.5		No	Somewhat poorly drained	Very gravelly silt loam	Consolidated permafrost (ice-rich)
Aeric Cryaquepts	2	1.79	1	16	8.5	4s	No	Somewhat poorly drained	Silt loam	Silt loam
Andic Dystrocryepts	2	1.79	20	65	42.5	7e	No	Well-drained	Silt loam	Unweathered bedrock
Humic Dystrocryepts	2	1.79	20	65	42.5		No	Well-drained	Very gravelly silt loam	Consolidated permafrost (ice-rich)
Rough mountainous land	2	1.79	0	99	49.5	8s	No		Variable	Variable
Typic Aquiturbels	2	1.79	1	16	8.5		No	Somewhat poorly drained	Very gravelly silt loam	Consolidated permafrost (ice-rich)
Typic Aquiturbels	2	1.79	20	65	42.5		Yes	Poorly drained	Peat	Consolidated permafrost (ice-rich)
Typic Cryofluvents	2	1.79	0	3	1.5	3w	No	Well-drained	Silt loam	Stratified fine sand to silt loam

TABLE 7B-1

Alaska Pipeline Project
Selected Physical and Interpretative Characteristics of STATSGO2 Soil Map Component Soils along the Point Thomson Gas Transmission Pipeline and the Alaska Mainline ^a

Component Name ^b	Map Unit Composition ^c	Length within Map Unit ^d	Range in Slope ^e			Land Capability Subclass ^f	Hydric Rating ^g	Drainage Class ^h	Surface Texture ⁱ	Subsurface Texture ^j
	Percent	Miles	Low	High	Average					
Typic Cryorthents	2	1.79	20	65	42.5		No	Well-drained	Very gravelly silt loam	Variable
Typic Dystricrypts	2	1.79	20	65	42.5		No	Well-drained	Gravelly silt loam	Gravelly silt loam
Typic Dystricrypts	2	1.79	20	65	42.5		No	Well-drained	Silt loam	Very gravelly coarse sand
Typic Haplocryods	2	1.79	20	65	42.5		No	Well-drained	Silt loam	Very gravelly sandy loam
Map Unit s9367; Typic Histoturbels-Typic Dystricrypts-Lithic Dystricrypts; 16.7 Miles, 372.6 acres.										
Typic Dystricrypts	45	7.52	20	65	42.5		No	Well-drained	Gravelly silt loam	Very gravelly coarse sand
Typic Histoturbels	30	5.01	20	65	42.5	7w	Yes	Very poorly drained	Peat	Weathered bedrock
Lithic Dystricrypts	10	1.67	20	65	42.5		No	Well-drained	Very gravelly sandy loam	Unweathered bedrock
Humic Dystricrypts	3	0.50	20	65	42.5		No	Well-drained	Very gravelly silt loam	Consolidated permafrost (ice-rich)
Rough mountainous land	3	0.50	0	99	49.5	8s	No		Variable	Variable
Typic Aquiturbels	3	0.50	20	65	42.5		No	Somewhat poorly drained	Gravelly silt loam	Consolidated permafrost (ice-rich)
Typic Haplocryods	3	0.50	20	65	42.5		No	Well-drained	Silt loam	Very gravelly sandy loam
Typic Histoturbels	3	0.50	1	16	8.5	6w	Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Map Unit s9369; Typic Histoturbels-Typic Eutricrypts-Lithic Eutricrypts; 13.5 Miles, 301.9 acres.										
Typic Eutricrypts	45	6.09	20	65	42.5		No	Well-drained	Gravelly silt loam	Very gravelly coarse sand
Typic Histoturbels	30	4.06	20	65	42.5	7w	Yes	Very poorly drained	Peat	Weathered bedrock
Lithic Eutricrypts	10	1.35	20	65	42.5		No	Well-drained	Very gravelly sandy loam	Unweathered bedrock
Humic Eutricrypts	3	0.41	20	65	42.5		No	Well-drained	Very gravelly silt loam	Consolidated permafrost (ice-rich)
Rough mountainous land	3	0.41	0	99	49.5	8s	No		Variable	Variable

TABLE 7B-1

Alaska Pipeline Project
Selected Physical and Interpretative Characteristics of STATSGO2 Soil Map Component Soils along the Point Thomson Gas Transmission Pipeline and the Alaska Mainline ^a

Component Name ^b	Map Unit Composition ^c Percent	Length within Map Unit ^d Miles	Range in Slope ^e			Land Capability Subclass ^f	Hydric Rating ^g	Drainage Class ^h	Surface Texture ⁱ	Subsurface Texture ^j
			Low	High	Average					
Typic Aquiturbels	3	0.41	20	65	42.5		No	Somewhat poorly drained	Gravelly silt loam	Consolidated permafrost (ice-rich)
Typic Haplocryods	3	0.41	20	65	42.5		No	Well-drained	Silt loam	Very gravelly sandy loam
Typic Histoturbels	3	0.41	1	16	8.5	6w	Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Map Unit s9371; Typic Histoturbels-Typic Eutrocryepts-Typic Dystrocryepts-Aeric Cryaquepts; 53.5 Miles, 1174.7 acres.										
Typic Eutrocryepts	30	16.05	20	65	42.5		No	Well-drained	Silt loam	Weathered bedrock
Typic Histoturbels	20	10.70	1	16	8.5	6w	Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Aeric Cryaquepts	15	8.03	1	16	8.5	4s	No	Somewhat poorly drained	Silt loam	Silt loam
Typic Dystrocryepts	15	8.03	20	65	42.5		No	Well-drained	Silt loam	Weathered bedrock
Typic Eutrocryepts	10	5.35	1	16	8.5	4e	No	Well-drained	Silt loam	Silt loam
Typic Histoturbels	5	2.68	20	65	42.5	7w	Yes	Very poorly drained	Peat	Weathered bedrock
Aquic Cryorthents	2	1.07	20	65	42.5		No	Moderately well-drained	Silt loam	Unweathered bedrock
Typic Cryopsamments	2	1.07	20	65	42.5		No	Excessively drained	Fine sandy loam	Sand
Typic Fibristels	1	0.54	0	1	0.5	7w	Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Map Unit s9389; Typic Histoturbels-Typic Haploturbels-Typic Fibristels-Typic Aquiturbels-Ruptic Histic Aquiturbels; 16.2 miles, 303.3 acres.										
Typic Aquiturbels	30	4.85	1	8	4.5		Yes	Poorly drained	Silt loam	Consolidated permafrost (ice-rich)
Typic Histoturbels	25	4.05	1	16	8.5	7w	Yes	Poorly drained	Peat	Consolidated permafrost (ice-rich)
Ruptic Histic Aquiturbels	20	3.24	1	16	8.5	7w	Yes	Poorly drained	Peat	Consolidated permafrost (ice-rich)
Typic Fibristels	10	1.62	0	3	1.5		Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)

TABLE 7B-1

Alaska Pipeline Project
Selected Physical and Interpretative Characteristics of STATSGO2 Soil Map Component Soils along the Point Thomson Gas Transmission Pipeline and the Alaska Mainline ^a

Component Name ^b	Map Unit Composition ^c	Length within Map Unit ^d	Range in Slope ^e			Land Capability Subclass ^f	Hydric Rating ^g	Drainage Class ^h	Surface Texture ⁱ	Subsurface Texture ^j
	Percent	Miles	Low	High	Average					
Typic Haploturbels	10	1.62	1	16	8.5		No	Well-drained	Very gravelly sandy loam	Weathered bedrock
Typic Aquiturbels	3	0.49	0	3	1.5		No	Somewhat poorly drained	Very gravelly silt loam	Consolidated permafrost (ice-rich)
Typic Psammiturbels	2	0.32	1	16	8.5		No	Well-drained	Fine sand	Consolidated permafrost (ice-rich)
Map Unit s9396; Typic Molliturbels-Typic Aquiturbels-Lithic Haploturbels; 27.2 miles, 592.3 acres.										
Typic Molliturbels	35	9.52	20	65	42.5		No	Well-drained	Gravelly silt loam	Consolidated permafrost (ice-rich)
Typic Aquiturbels	20	5.44	20	65	42.5		No	Poorly drained	Mucky silt loam	Consolidated permafrost (ice-rich)
Typic Aquiturbels	15	4.08	20	65	42.5	7s	Yes	Poorly drained	Very gravelly silt loam	Consolidated permafrost (ice-rich)
Lithic Haploturbels	10	2.72	20	65	42.5		No	Well-drained	Flaggy silt loam	Unweathered bedrock
Typic Aquiturbels	10	2.72	1	16	8.5		Yes	Poorly drained	Silt loam	Consolidated permafrost (ice-rich)
Rubble land	4	1.09	0	99	49.5	8s	No	Excessively drained	Fragmental material	Fragmental material
Rough mountainous land	3	0.82	0	99	49.5	8s	No		Variable	Variable
Typic Fibristels	3	0.82	0	1	0.5		Yes	Very poorly drained	Peat	Consolidated permafrost (ice-rich)
Map Unit s9405; Rough mountainous land; 22.6 Miles, 535.2 acres.										
Rough mountainous land	100	22.64	0	99	49.5	8s	No		Variable	Variable
Map Unit s9409; Typic Aquiturbels-Rough mountainous land-Lithic Cryorthents; 22.0 Miles, 516.7 acres.										
Rough mountainous land	45	9.92	0	99	49.5	8s	No		Variable	Variable
Lithic Cryorthents	25	5.51	20	65	42.5		No	Well-drained	Flaggy silt loam	Unweathered bedrock
Typic Aquiturbels	10	2.20	20	65	42.5	7s	Yes	Poorly drained	Very gravelly silt loam	Consolidated permafrost (ice-rich)
Humic Eutrocrepts	3	0.66	20	65	42.5		No	Well-drained	Very gravelly silt loam	Consolidated permafrost (ice-rich)

TABLE 7B-1

Alaska Pipeline Project

Selected Physical and Interpretative Characteristics of STATSGO2 Soil Map Component Soils along the Point Thomson Gas Transmission Pipeline and the Alaska Mainline ^a

Component Name ^b	Map Unit Composition ^c	Length within Map Unit ^d	Range in Slope ^e			Land Capability Subclass ^f	Hydric Rating ^g	Drainage Class ^h	Surface Texture ⁱ	Subsurface Texture ^j
	Percent	Miles	Low	High	Average					
Lithic Cryaquepts	3	0.66	20	65	42.5		No	Poorly drained	Silt loam	Unweathered bedrock
Lithic Eutrocrypts	3	0.66	20	65	42.5		No	Well-drained	Very gravelly sandy loam	Unweathered bedrock
Lithic Haplocryods	3	0.66	20	65	42.5		No	Well-drained	Sandy loam	Unweathered bedrock
Typic Haplocryods	3	0.66	20	65	42.5		No	Well-drained	Silt loam	Very gravelly sandy loam
Typic Haplocryolls	3	0.66	20	65	42.5		No	Well-drained	Gravelly silt loam	Consolidated permafrost (ice-rich)
Typic Histoturbels	2	0.44	1	16	8.5	7w	Yes	Poorly drained	Peat	Consolidated permafrost (ice-rich)

^a Data summarized from queries of the Natural Resources Conservation Service (NRCS) STATSGO2 soil attribute database for Alaska. Data are provided for the Point Thomson Gas Transmission Pipeline and the Alaska Mainline separately. Map units indicated in bold. Cumulative miles within each map unit are provided with the map unit.

^b The Alaska STATSGO2 database provides component soils by their taxonomic name according to the NRCS soil classification system.

^c Percent of map unit indicates the representative percent of an individual component soil series contained within the map unit. The database is designed so that all component soils sum to 100% of the map unit.

^e Slope ranges provided in percent slope and are given as low, high, and average values. Note that several map units have very large ranges in slope.

^f Land capability class as used by the NRCS. Higher numbers indicate more severe limitations on use. Subclass modifiers indicate the type of limitation: W= wetness, S = limiting soil physical or chemical characteristic, E - erosion. Not all map unit component soils have a listed Land Capability Subclass.

^g Hydric soil as determined by the NRCS.

^h Drainage class as determined by the NRCS.

ⁱ Texture of the soil surface using the U.S. Department of Agriculture (USDA) textural classification.

^j Texture of the lowest layer in the soil using the USDA textural classification. Note the presence of consolidated, ice-rich permafrost is indicated.

TABLE 7B-2

Alaska Pipeline Project
Miles of Selected Soil Limitations for each STATSGO2 Soil Map Unit Polygon Crossed by the Point Thomson Gas Transmission Pipeline and the Alaska Mainline

Milepost		Highly Erodible ^b							
Begin	End	STATSGO2 Map Unit ^a	Construction Season	Total Length	Water	Wind	Hydric ^c	Compaction-Prone ^d	Droughty ^e
Miles									
PTGP									
North Slope Borough									
0.0	38.2	s9389	W	38.2		12.21	32.44	33.58	4.58
38.2	51.9	s9323	W	13.7		1.51	1.92	10.69	1.51
51.9	57.3	s9389	W	5.5		1.76	4.67	4.83	0.66
57.3	58.4	s9389	W	1.1		0.34	0.90	0.93	0.13
Alaska Mainline									
North Slope Borough									
0.0	16.2	s9389	W	16.2		5.18	13.75	14.24	1.94
16.2	55.0	s9323	W	38.8		4.27	5.43	30.28	4.27
55.0	62.1	s9323	W	7.1		0.78	0.99	5.50	0.78
62.1	62.9	s9322	W	0.8		0.09	0.12	0.66	0.09
62.9	64.4	s9322	W	1.5		0.17	0.21	1.19	0.17
64.4	71.5	s9256	W	7.1	0.14	0.71	6.49	6.63	0.28
71.5	82.3	s9322	W	10.8		1.19	1.52	8.45	1.19
82.3	107.0	s9256	W	24.7	0.49	2.47	22.74	23.24	0.99
107.0	110.0	s9322	W	3.0		0.33	0.41	2.31	0.33
110.0	116.7	s9322	W	6.7		0.74	0.94	5.24	0.74
116.7	124.1	s9396	W	7.4	6.43	1.48	2.07	3.55	
124.1	134.1	s9256	W	10.0	0.20	1.00	9.18	9.38	0.40
134.1	145.8	s9396	W	11.7	10.18	2.34	3.28	5.62	
145.8	153.9	s9396	W	8.1	7.07	1.63	2.28	3.90	
153.9	164.5	s9405	W	10.6	10.58				
164.5	172.6	s9405	S	8.1	8.14				
172.6	176.6	s9405	S	3.9	3.92				
176.6	180.0	s9328	S	3.4	3.44	0.55	1.89	2.58	

TABLE 7B-2

Alaska Pipeline Project
Miles of Selected Soil Limitations for each STATSGO2 Soil Map Unit Polygon Crossed by the Point Thomson Gas Transmission Pipeline and the Alaska Mainline

Milepost		Highly Erodible ^b							
Begin	End	STATSGO2 Map Unit ^a	Construction Season	Total Length	Water	Wind	Hydric ^c	Compaction-Prone ^d	Droughty ^e
Miles									
180.0	180.4	s9328	S	0.4	0.40	0.06	0.22	0.30	
180.4	184.8	s9409	S	4.4	4.31	1.49	0.53	0.66	0.26
Yukon-Koyukuk Census Area									
184.8	202.4	s9409	S	17.6	17.30	6.00	2.12	2.65	1.06
202.4	231.6	s9255	S	29.2	0.58	2.92	26.83	27.41	1.17
231.6	253.1	s9255	W	21.5	0.43	2.15	19.79	20.22	0.86
253.1	254.6	s9252	W	1.5	0.47	0.24	1.08	1.17	
254.6	259.8	s9252	W	5.2	1.66	0.83	3.80	4.11	
259.8	261.5	s9252	W	1.7	0.55	0.27	1.24	1.35	
261.5	275.0	s9369	W	13.5	13.13	2.17	4.47	4.87	1.35
275.0	285.3	s9250	W	10.3		0.52	8.25	8.77	
285.3	285.7	s9366	W	0.4	0.25	0.05	0.13	0.16	
285.7	291.1	s9366	S	5.4	3.75	0.71	2.01	2.39	
291.1	293.7	s9250	S	2.5		0.13	2.01	2.14	
293.7	312.4	s9366	S	18.8	12.95	2.44	6.94	8.26	
312.4	313.8	s9366	W	1.3	0.92	0.17	0.49	0.59	
313.8	314.6	s9332	W	0.9	0.85	0.37	0.13	0.57	
314.6	326.1	s9332	S	11.5	11.38	4.94	1.72	7.59	
326.1	326.8	s9332	W	0.7	0.68	0.29	0.10	0.45	
326.8	329.8	s9332	S	3.0	2.94	1.28	0.45	1.96	
329.8	329.8	s9366	S	0.1	0.04	0.01	0.02	0.03	
329.8	337.3	s9366	W	7.4	5.14	0.97	2.75	3.27	
337.3	337.6	s9366	S	0.3	0.24	0.04	0.13	0.15	
337.6	340.0	s9366	W	2.4	1.65	0.31	0.88	1.05	
340.0	342.1	s9366	S	2.1	1.44	0.27	0.77	0.92	
342.1	345.2	s9366	W	3.2	2.18	0.41	1.17	1.39	
345.2	347.8	s9366	S	2.5	1.75	0.33	0.94	1.12	

TABLE 7B-2

Alaska Pipeline Project
Miles of Selected Soil Limitations for each STATSGO2 Soil Map Unit Polygon Crossed by the Point Thomson Gas Transmission Pipeline and the Alaska Mainline

Milepost		Highly Erodible ^b							
Begin	End	STATSGO2 Map Unit ^a	Construction Season	Total Length	Water	Wind	Hydric ^c	Compaction-Prone ^d	Droughty ^e
Miles									
347.8	347.9	s9366	W	0.1	0.07	0.01	0.04	0.04	
347.9	348.8	s9366	S	0.9	0.64	0.12	0.34	0.41	
348.8	349.7	s9366	W	0.9	0.60	0.11	0.32	0.38	
349.7	372.5	s9347	W	22.8	13.70	10.27	7.99	10.27	
372.5	373.1	s9347	S	0.6	0.38	0.28	0.22	0.28	
373.1	373.4	s9347	W	0.2	0.14	0.10	0.08	0.10	
373.4	374.8	s9347	S	1.5	0.90	0.67	0.52	0.67	
374.8	375.0	s9347	W	0.2	0.09	0.07	0.05	0.07	
375.0	376.4	s9347	S	1.4	0.83	0.62	0.48	0.62	
376.4	376.8	s9347	W	0.4	0.25	0.19	0.15	0.19	
376.8	377.1	s9347	S	0.3	0.17	0.13	0.10	0.13	
377.1	377.3	s9347	W	0.2	0.15	0.11	0.09	0.11	
377.3	379.8	s9347	S	2.5	1.51	1.13	0.88	1.13	
379.8	385.9	s9347	W	6.1	3.66	2.74	2.13	2.74	
385.9	388.4	s9347	S	2.5	1.48	1.11	0.86	1.11	
388.4	391.8	s9347	W	3.4	2.05	1.53	1.19	1.53	
391.8	397.9	s9347	S	6.1	3.67	2.75	2.14	2.75	
397.9	399.3	s9347	W	1.4	0.84	0.63	0.49	0.63	
399.3	400.6	s9347	S	1.3	0.76	0.57	0.44	0.57	
400.6	400.9	s9347	W	0.3	0.16	0.12	0.09	0.12	
400.9	404.3	s9347	S	3.4	2.05	1.53	1.19	1.53	
404.3	404.3	s9347	W	0.0	0.01	0.00	0.00	0.00	
404.3	407.4	s9269	W	3.2			3.00	3.00	
407.4	407.9	s9269	S	0.4			0.41	0.41	
407.9	411.1	s9366	S	3.2	2.21	0.42	1.19	1.41	
411.1	412.6	s9366	W	1.5	1.02	0.19	0.55	0.65	
412.6	413.3	s9366	S	0.7	0.51	0.10	0.27	0.32	

TABLE 7B-2

Alaska Pipeline Project
Miles of Selected Soil Limitations for each STATSGO2 Soil Map Unit Polygon Crossed by the Point Thomson Gas Transmission Pipeline and the Alaska Mainline

Milepost		Highly Erodible ^b							
Begin	End	STATSGO2 Map Unit ^a	Construction Season	Total Length	Water	Wind	Hydric ^c	Compaction-Prone ^d	Droughty ^e
Miles									
413.3	414.9	s9366	W	1.6	1.11	0.21	0.60	0.71	
414.9	417.6	s9366	S	2.7	1.85	0.35	0.99	1.18	
417.6	423.9	s9269	S	6.3			6.02	6.02	
423.9	425.4	s9269	W	1.5			1.39	1.39	
425.4	425.6	s9269	S	0.3			0.26	0.26	
425.6	430.1	s9366	S	4.4	3.05	0.57	1.63	1.94	
Fairbanks North Star Borough									
430.1	437.7	s9366	S	7.6	5.27	0.99	2.82	3.36	
437.7	450.0	s9366	W	12.3	8.49	1.60	4.55	5.41	
450.0	452.1	s9366	W	2.1	1.48	0.28	0.79	0.94	
452.1	467.5	s9371	W	15.4	9.85	3.85	4.00	6.31	0.31
467.5	470.1	s9258	W	2.6		0.13	1.56	1.56	
470.1	471.1	s9258	W	0.9		0.05	0.57	0.57	
471.1	472.8	s9371	W	1.7	1.09	0.43	0.44	0.70	0.03
472.8	473.1	s9371	W	0.3	0.20	0.08	0.08	0.13	0.01
473.1	474.0	s9258	W	0.9		0.04	0.52	0.52	
474.0	487.2	s9258	W	13.2		0.66	7.93	7.93	
487.2	488.6	s9258	W	1.4		0.07	0.84	0.84	
488.6	503.2	s9371	W	14.6	9.36	3.66	3.80	6.00	0.29
503.2	505.0	s9252	W	1.8	0.57	0.28	1.30	1.40	
505.0	506.7	s9252	W	1.7	0.53	0.27	1.22	1.32	
506.7	518.2	s9371	W	11.5	7.38	2.88	3.00	4.73	0.23
Southeast Fairbanks Census Area									
518.2	524.6	s9371	W	6.4	4.09	1.60	1.66	2.62	0.13
524.6	525.6	s9252	W	1.0	0.32	0.16	0.72	0.78	
525.6	526.3	s9258	W	0.7		0.03	0.41	0.41	

TABLE 7B-2

Alaska Pipeline Project
Miles of Selected Soil Limitations for each STATSGO2 Soil Map Unit Polygon Crossed by the Point Thomson Gas Transmission Pipeline and the Alaska Mainline

Milepost		Highly Erodible ^b							
Begin	End	STATSGO2 Map Unit ^a	Construction Season	Total Length	Water	Wind	Hydric ^c	Compaction-Prone ^d	Droughty ^e
Miles									
526.3	547.2	s9258	W	20.9		1.05	12.56	12.56	
547.2	552.2	s9352	W	5.0		4.77	0.25	0.25	
552.2	555.7	s9362	W	3.5	3.13	0.52	0.42	0.42	0.17
555.7	560.0	s9358	W	4.3		2.80	1.38	2.45	
560.0	577.2	s9358	S	17.2		11.17	5.50	9.79	
577.2	579.5	s9358	S	2.3		1.51	0.74	1.33	
579.5	580.8	s9358	S	1.3		0.84	0.41	0.74	
580.8	586.8	s9367	S	6.0	5.78	0.95	1.97	2.15	0.60
586.8	590.3	s9371	S	3.6	2.28	0.89	0.93	1.46	0.07
590.3	596.5	s9258	S	6.2		0.31	3.74	3.74	
596.5	597.7	s9367	S	1.1	1.09	0.18	0.37	0.41	0.11
597.7	598.6	s9258	S	0.9		0.05	0.55	0.55	
598.6	608.2	s9367	S	9.6	9.34	1.54	3.18	3.46	0.96
608.2	625.0	s9352	S	16.8		15.94	0.84	0.84	
625.0	629.0	s9352	S	4.0		3.82	0.20	0.20	
629.0	631.6	s9361	S	2.6	2.35	0.39	0.31	0.31	0.13
631.6	632.3	s9352	S	0.7		0.64	0.03	0.03	
632.3	639.2	s9361	S	6.9	6.21	1.04	0.83	0.83	0.35
639.2	657.6	s9352	S	18.4		17.46	0.92	0.92	
657.6	658.4	s9352	W	0.8		0.73	0.04	0.04	
658.4	660.2	s9250	W	1.9		0.09	1.49	1.58	
660.2	667.7	s9250	S	7.5		0.38	6.00	6.38	
667.7	668.0	s9250	S	0.3		0.02	0.25	0.26	
668.0	668.4	s9350	S	0.4	0.10	0.15	0.13	0.13	0.10
668.4	669.1	s9250	S	0.6		0.03	0.51	0.54	
669.1	673.7	s9350	S	4.6	1.16	1.86	1.62	1.62	1.25
673.7	680.2	s9250	S	6.5		0.33	5.21	5.54	

TABLE 7B-2

Alaska Pipeline Project
Miles of Selected Soil Limitations for each STATSGO2 Soil Map Unit Polygon Crossed by the Point Thomson Gas Transmission Pipeline and the Alaska Mainline

Milepost		Highly Erodible ^b							
Begin	End	STATSGO2 Map Unit ^a	Construction Season	Total Length	Water	Wind	Hydric ^c	Compaction-Prone ^d	Droughty ^e
Miles									
680.2	685.1	s9350	S	4.8	1.21	1.94	1.69	1.69	1.31
685.1	690.5	s9350	S	5.4	1.36	2.18	1.91	1.91	1.47
690.5	692.5	s9350	W	2.0	0.49	0.78	0.68	0.68	0.53
692.5	693.3	s9366	W	0.9	0.61	0.12	0.33	0.39	
693.3	714.1	s9350	W	20.8	5.19	8.31	7.27	7.27	5.61
714.1	715.5	s9350	W	1.4	0.35	0.55	0.48	0.48	0.37
715.5	717.5	s9350	W	2.0	0.49	0.79	0.69	0.69	0.53
717.5	718.2	s9350	W	0.8	0.19	0.30	0.26	0.26	0.20
718.2	722.1	s9252	W	3.8	1.23	0.62	2.81	3.04	
722.1	727.6	s9366	W	5.6	3.83	0.72	2.06	2.44	
727.6	735.5	s9350	W	7.9	1.97	3.16	2.76	2.76	2.13
735.5	744.2	s9252	W	8.7	2.79	1.39	6.36	6.88	
744.2	745.1	s9366	W	0.9	0.62	0.12	0.33	0.40	

^a STATSGO2 map unit symbol. For more information on individual soil components within a map unit, see Table 7B-1.

^b Highly water-erodible soils are in land capability subclasses 4e through 8e and have slopes greater than 9%. Highly wind-erodible soils include soils in wind erodibility groups 1 and 2.

^c As designated by the Natural Resources Conservation Service.

^d Includes soils that have sandy loam or finer textures (or peat) and are in somewhat poor, poor, and very poor drainage classes.

^e Includes coarse-textured soils (sandy loams or coarser) that are moderately well- to excessively drained.

TABLE 7B-3

Alaska Pipeline Project
Milepost Breakdown of Topsoil Depth, and Slope Class Along the Point Thomson Gas Transmission Pipeline and the Alaska Mainline

Milepost		Topsoil Depth (inch increment) ^b							Slope Class ^c		
Begin	End	STATSGO2 Map Unit ^a	Construction Season	Total Length	0-6	>6-12	>18	Shallow Organic	0-5	>5-15	>25
Miles											
Point Thomson Gas Transmission Pipeline											
North Slope Borough											
0.0	38.2	s9389	W	38.2	0.76	24.80	4.96	7.63	16.41	21.75	
38.2	51.9	s9323	W	13.7	1.64	2.88	9.18		13.56	0.14	
51.9	57.3	s9389	W	5.5	0.11	3.57	0.71	1.10	2.36	3.13	
57.3	58.4	s9389	W	1.1	0.02	0.69	0.14	0.21	0.45	0.60	
Alaska Mainline											
North Slope Borough											
0.0	16.2	s9389	W	16.2	0.32	10.52	2.10	3.24	6.96	9.22	
16.2	55.0	s9323	W	38.8	4.66	8.15	26.01		38.43	0.39	
55.0	62.1	s9323	W	7.1	0.85	1.48	4.73		6.98	0.07	
62.1	62.9	s9322	W	0.8	0.10	0.18	0.57		0.84	0.01	
62.9	64.4	s9322	W	1.5	0.18	0.32	1.03		1.51	0.02	
64.4	71.5	s9256	W	7.1	0.14	6.49	0.42		0.28	6.63	0.14
71.5	82.3	s9322	W	10.8	1.30	2.28	7.26		10.73	0.11	
82.3	107.0	s9256	W	24.7	0.49	22.74	1.48		0.99	23.24	0.49
107.0	110.0	s9322	W	3.0	0.36	0.62	1.98		2.93	0.03	
110.0	116.7	s9322	W	6.7	0.81	1.41	4.50		6.66	0.07	
116.7	124.1	s9396	W	7.4	4.95	2.22	0.22		0.22	0.74	6.43
124.1	134.1	s9256	W	10.0	0.20	9.18	0.60		0.40	9.38	0.20
134.1	145.8	s9396	W	11.7	7.84	3.51	0.35		0.35	1.17	10.18
145.8	153.9	s9396	W	8.1	5.44	2.44	0.24		0.24	0.81	7.07

TABLE 7B-3

Alaska Pipeline Project
Milepost Breakdown of Topsoil Depth, and Slope Class Along the Point Thomson Gas Transmission Pipeline and the Alaska Mainline

Milepost						Topsoil Depth (inch increment) ^b			Slope Class ^c		
Begin	End	STATSGO2 Map Unit ^a	Construction Season	Total Length	0-6	>6-12	>18	Shallow Organic	0-5	>5-15	>25
Miles											
153.9	164.5	s9405	W	10.6	10.58						10.58
164.5	172.6	s9405	S	8.1	8.14						8.14
172.6	176.6	s9405	S	3.9	3.92						3.92
176.6	180.0	s9328	S	3.4	2.20	1.07		0.17			3.44
180.0	180.4	s9328	S	0.4	0.25	0.12		0.02			0.40
180.4	184.8	s9409	S	4.4	4.04	0.35				0.09	4.31
Yukon-Koyukuk Census Area											
184.8	202.4	s9409	S	17.6	16.24	1.41				0.35	17.30
202.4	231.6	s9255	S	29.2	1.75	26.24	1.17		1.17	27.41	0.58
231.6	253.1	s9255	W	21.5	1.29	19.36	0.86		0.86	20.22	0.43
253.1	254.6	s9252	W	1.5	0.53	0.90	0.04		0.04	0.96	0.47
254.6	259.8	s9252	W	5.2	1.87	3.17	0.16		0.16	3.38	1.66
259.8	261.5	s9252	W	1.7	0.61	1.04	0.05		0.05	1.11	0.55
261.5	275.0	s9369	W	13.5	7.31	5.82	0.41			0.41	13.13
275.0	285.3	s9250	W	10.3	1.03	2.58	6.70		0.83	9.49	
285.3	285.7	s9366	W	0.4	0.21	0.05	0.10		0.01	0.11	0.25
285.7	291.1	s9366	S	5.4	3.21	0.76	1.47		0.11	1.58	3.75
291.1	293.7	s9250	S	2.5	0.25	0.63	1.64		0.20	2.32	
293.7	312.4	s9366	S	18.8	11.07	2.63	5.07		0.38	5.44	12.95
312.4	313.8	s9366	W	1.3	0.79	0.19	0.36		0.03	0.39	0.92
313.8	314.6	s9332	W	0.9	0.73		0.13			0.05	0.81



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TABLE 7B-3

Alaska Pipeline Project
Milepost Breakdown of Topsoil Depth, and Slope Class Along the Point Thomson Gas Transmission Pipeline and the Alaska Mainline

Milepost				Total Length	Topsoil Depth (inch increment) ^b				Slope Class ^c		
Begin	End	STATSGO2 Map Unit ^a	Construction Season		0-6	>6-12	>18	Shallow Organic	0-5	>5-15	>25
314.6	326.1	s9332	S	11.5	9.77		1.72			0.69	10.81
326.1	326.8	s9332	W	0.7	0.58		0.10			0.04	0.64
326.8	329.8	s9332	S	3.0	2.53		0.45			0.18	2.79
329.8	329.8	s9366	S	0.1	0.03	0.01	0.02		0.00	0.02	0.04
329.8	337.3	s9366	W	7.4	4.39	1.04	2.01		0.15	2.16	5.14
337.3	337.6	s9366	S	0.3	0.20	0.05	0.09		0.01	0.10	0.24
337.6	340.0	s9366	W	2.4	1.41	0.33	0.64		0.05	0.69	1.65
340.0	342.1	s9366	S	2.1	1.23	0.29	0.56		0.04	0.60	1.44
342.1	345.2	s9366	W	3.2	1.87	0.44	0.85		0.06	0.92	2.18
345.2	347.8	s9366	S	2.5	1.50	0.36	0.69		0.05	0.74	1.75
347.8	347.9	s9366	W	0.1	0.06	0.01	0.03		0.00	0.03	0.07
347.9	348.8	s9366	S	0.9	0.54	0.13	0.25		0.02	0.27	0.64
348.8	349.7	s9366	W	0.9	0.51	0.12	0.23		0.02	0.25	0.60
349.7	372.5	s9347	W	22.8	14.84	1.14	6.85		1.14	7.99	13.70
372.5	373.1	s9347	S	0.6	0.41	0.03	0.19		0.03	0.22	0.38
373.1	373.4	s9347	W	0.2	0.15	0.01	0.07		0.01	0.08	0.14
373.4	374.8	s9347	S	1.5	0.97	0.07	0.45		0.07	0.52	0.90
374.8	375.0	s9347	W	0.2	0.10	0.01	0.05		0.01	0.05	0.09
375.0	376.4	s9347	S	1.4	0.90	0.07	0.41		0.07	0.48	0.83
376.4	376.8	s9347	W	0.4	0.27	0.02	0.12		0.02	0.15	0.25
376.8	377.1	s9347	S	0.3	0.18	0.01	0.09		0.01	0.10	0.17
377.1	377.3	s9347	W	0.2	0.16	0.01	0.07		0.01	0.09	0.15

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TABLE 7B-3

Alaska Pipeline Project
Milepost Breakdown of Topsoil Depth, and Slope Class Along the Point Thomson Gas Transmission Pipeline and the Alaska Mainline

Milepost						Topsoil Depth (inch increment) ^b			Slope Class ^c		
Begin	End	STATSGO2 Map Unit ^a	Construction Season	Total Length	0-6	>6-12	>18	Shallow Organic	0-5	>5-15	>25
Miles											
377.3	379.8	s9347	S	2.5	1.64	0.13	0.76		0.13	0.88	1.51
379.8	385.9	s9347	W	6.1	3.96	0.30	1.83		0.30	2.13	3.66
385.9	388.4	s9347	S	2.5	1.60	0.12	0.74		0.12	0.86	1.48
388.4	391.8	s9347	W	3.4	2.22	0.17	1.02		0.17	1.19	2.05
391.8	397.9	s9347	S	6.1	3.98	0.31	1.84		0.31	2.14	3.67
397.9	399.3	s9347	W	1.4	0.91	0.07	0.42		0.07	0.49	0.84
399.3	400.6	s9347	S	1.3	0.82	0.06	0.38		0.06	0.44	0.76
400.6	400.9	s9347	W	0.3	0.17	0.01	0.08		0.01	0.09	0.16
400.9	404.3	s9347	S	3.4	2.22	0.17	1.02		0.17	1.19	2.05
404.3	404.3	s9347	W	0.0	0.01	0.00	0.00		0.00	0.00	0.01
404.3	407.4	s9269	W	3.2	0.16		3.00		1.42	1.74	
407.4	407.9	s9269	S	0.4	0.02		0.41		0.20	0.24	
407.9	411.1	s9366	S	3.2	1.89	0.45	0.86		0.06	0.93	2.21
411.1	412.6	s9366	W	1.5	0.87	0.21	0.40		0.03	0.43	1.02
412.6	413.3	s9366	S	0.7	0.44	0.10	0.20		0.01	0.21	0.51
413.3	414.9	s9366	W	1.6	0.95	0.23	0.43		0.03	0.47	1.11
414.9	417.6	s9366	S	2.7	1.58	0.37	0.72		0.05	0.78	1.85
417.6	423.9	s9269	S	6.3	0.32		6.02		2.85	3.49	
423.9	425.4	s9269	W	1.5	0.07		1.39		0.66	0.80	
425.4	425.6	s9269	S	0.3	0.01		0.26		0.12	0.15	
425.6	430.1	s9366	S	4.4	2.61	0.62	1.19		0.09	1.28	3.05

Fairbanks North Star Borough

TABLE 7B-3

Alaska Pipeline Project

Milepost Breakdown of Topsoil Depth, and Slope Class Along the Point Thomson Gas Transmission Pipeline and the Alaska Mainline

Milepost				Total Length	Topsoil Depth (inch increment) ^b			Slope Class ^c			
Begin	End	STATSGO2 Map Unit ^a	Construction Season		0-6	>6-12	>18	Shallow Organic	0-5	>5-15	>25
					Miles						
430.1	437.7	s9366	S	7.6	4.50	1.07	2.06		0.15	2.21	5.27
437.7	450.0	s9366	W	12.3	7.26	1.72	3.32		0.25	3.57	8.49
450.0	452.1	s9366	W	2.1	1.27	0.30	0.58		0.04	0.62	1.48
452.1	467.5	s9371	W	15.4	11.39	0.77	3.23		0.15	6.92	8.31
467.5	470.1	s9258	W	2.6	1.04		1.56		2.60		
470.1	471.1	s9258	W	0.9	0.38		0.57		0.95		
471.1	472.8	s9371	W	1.7	1.26	0.09	0.36		0.02	0.77	0.92
472.8	473.1	s9371	W	0.3	0.23	0.02	0.07		0.00	0.14	0.17
473.1	474.0	s9258	W	0.9	0.35		0.52		0.87		
474.0	487.2	s9258	W	13.2	5.29		7.93		13.22		
487.2	488.6	s9258	W	1.4	0.56		0.84		1.41		
488.6	503.2	s9371	W	14.6	10.83	0.73	3.07		0.15	6.58	7.90
503.2	505.0	s9252	W	1.8	0.64	1.08	0.05		0.05	1.15	0.57
505.0	506.7	s9252	W	1.7	0.60	1.02	0.05		0.05	1.08	0.53
506.7	518.2	s9371	W	11.5	8.53	0.58	2.42		0.12	5.19	6.23
Southeast Fairbanks Census Area											
518.2	524.6	s9371	W	6.4	4.73	0.32	1.34		0.06	2.88	3.45
524.6	525.6	s9252	W	1.0	0.36	0.61	0.03		0.03	0.64	0.32
525.6	526.3	s9258	W	0.7	0.27		0.41		0.68		
526.3	547.2	s9258	W	20.9	8.37		12.56		20.93		
547.2	552.2	s9352	W	5.0	4.77	0.25				5.02	
552.2	555.7	s9362	W	3.5	2.78	0.63	0.07		0.14	0.21	3.13

TABLE 7B-3

Alaska Pipeline Project
Milepost Breakdown of Topsoil Depth, and Slope Class Along the Point Thomson Gas Transmission Pipeline and the Alaska Mainline

Milepost				Total Length	Topsoil Depth (inch increment) ^b			Slope Class ^c			
Begin	End	STATSGO2 Map Unit ^a	Construction Season		0-6	>6-12	>18	Shallow Organic	0-5	>5-15	>25
555.7	560.0	s9358	W	4.3	2.80	0.34	1.16		0.30	4.01	
560.0	577.2	s9358	S	17.2	11.17	1.37	4.64		1.20	15.98	
577.2	579.5	s9358	S	2.3	1.51	0.19	0.63		0.16	2.16	
579.5	580.8	s9358	S	1.3	0.84	0.10	0.35		0.09	1.20	
580.8	586.8	s9367	S	6.0	3.22	2.56	0.18			0.18	5.78
586.8	590.3	s9371	S	3.6	2.64	0.18	0.75		0.04	1.60	1.92
590.3	596.5	s9258	S	6.2	2.49		3.74		6.23		
596.5	597.7	s9367	S	1.1	0.61	0.48	0.03			0.03	1.09
597.7	598.6	s9258	S	0.9	0.37		0.55		0.92		
598.6	608.2	s9367	S	9.6	5.20	4.14	0.29			0.29	9.34
608.2	625.0	s9352	S	16.8	15.94	0.84				16.78	
625.0	629.0	s9352	S	4.0	3.82	0.20				4.02	
629.0	631.6	s9361	S	2.6	2.09	0.47	0.05		0.10	0.16	2.35
631.6	632.3	s9352	S	0.7	0.64	0.03				0.67	
632.3	639.2	s9361	S	6.9	5.52	1.24	0.14		0.28	0.41	6.21
639.2	657.6	s9352	S	18.4	17.46	0.92				18.38	
657.6	658.4	s9352	W	0.8	0.73	0.04				0.77	
658.4	660.2	s9250	W	1.9	0.19	0.46	1.21		0.15	1.71	
660.2	667.7	s9250	S	7.5	0.75	1.88	4.88		0.60	6.90	
667.7	668.0	s9250	S	0.3	0.03	0.08	0.20		0.02	0.28	
668.0	668.4	s9350	S	0.4	0.25	0.11	0.02		0.14	0.15	0.10
668.4	669.1	s9250	S	0.6	0.06	0.16	0.41		0.05	0.59	

TABLE 7B-3

Alaska Pipeline Project
Milepost Breakdown of Topsoil Depth, and Slope Class Along the Point Thomson Gas Transmission Pipeline and the Alaska Mainline

Milepost				Total Length	Topsoil Depth (inch increment) ^b				Slope Class ^c		
					0-6	>6-12	>18	Shallow Organic	0-5	>5-15	>25
Begin	End	STATSGO2 Map Unit ^a	Construction Season		Miles						
669.1	673.7	s9350	S	4.6	3.02	1.39	0.23		1.72	1.76	1.16
673.7	680.2	s9250	S	6.5	0.65	1.63	4.24		0.52	6.00	
680.2	685.1	s9350	S	4.8	3.14	1.45	0.24		1.79	1.84	1.21
685.1	690.5	s9350	S	5.4	3.54	1.63	0.27		2.02	2.07	1.36
690.5	692.5	s9350	W	2.0	1.27	0.59	0.10		0.72	0.74	0.49
692.5	693.3	s9366	W	0.9	0.52	0.12	0.24		0.02	0.26	0.61
693.3	714.1	s9350	W	20.8	13.50	6.23	1.04		7.69	7.89	5.19
714.1	715.5	s9350	W	1.4	0.90	0.42	0.07		0.51	0.53	0.35
715.5	717.5	s9350	W	2.0	1.28	0.59	0.10		0.73	0.75	0.49
717.5	718.2	s9350	W	0.8	0.49	0.23	0.04		0.28	0.29	0.19
718.2	722.1	s9252	W	3.8	1.39	2.35	0.12		0.12	2.50	1.23
722.1	727.6	s9366	W	5.6	3.28	0.78	1.50		0.11	1.61	3.83
727.6	735.5	s9350	W	7.9	5.13	2.37	0.39		2.92	3.00	1.97
735.5	744.2	s9252	W	8.7	3.14	5.31	0.26		0.26	5.66	2.79
744.2	745.1	s9366	W	0.9	0.53	0.13	0.24		0.02	0.26	0.62

^a STATSGO2 map unit symbol. For more information on individual soil components within a map unit, see Table 7B-1.

^b Topsoil includes the surface soil horizon as indicated in the STATSGO2 database and any included organic and duff layers. Topsoil depths were calculated for each component soil series and placed into the appropriate depth increment. The lengths of the component soils within each group were summed to get the mileage estimates for the whole map unit.

^c Average slope class for each component soil in the map unit was placed into the applicable slope class. The lengths of the component soils within each group were summed to get the mileage estimates for the whole map unit.

TABLE 7B-4

Alaska Pipeline Project
Soil limitations for Access Roads Planned for the Point Thomson Gas Transmission Pipeline and Alaska Mainline ^a

Access Road Name	Season ^b	STATSGO2 Map Unit	Total Length	Highly Erodible ^c		Hydric ^d	Compaction- Prone ^e	Droughty ^f	Thaw- Sensitive ^g
				Water	Wind				
				Feet					
PTGTP									
TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
APP Mainline									
TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

^a

Access roads were provided as GIS line features by APP. The STATSGO2 soil map unit(s) for the access roads were determined by spatial query of the GIS data.

^b

Season of construction was evaluated by including as winter construction all roads that involved building up ice as the type of modification/construction procedure.

^c

Highly water-erodible soils are in land capability subclasses 4e through 8e and have slopes greater than 9%. Highly wind erodible soils includes soils in wind erodibility groups 1 and 2.

^d

As designated by the NRCS.

^e

Includes soils that have sandy loam or finer textures (or peat) and are in somewhat poor, poor, and very poor drainage classes.

^f

Includes coarse-textured soils (sandy loams or coarser) that are moderately well to excessively drained.

^g

Includes all soils that are in the Gellisol soil order (indicating permafrost in the soil profile) that are somewhat poorly drained, poorly drained, and very poorly drained.

TABLE 7B-5

**Alaska Pipeline Project
Topsoil Depth and Slope Class Soil Characteristics Associated with
Access Roads for the Point Thomson Gas Transmission Pipeline and the Alaska Mainline ^a**

Access Road Name	Constr. Season ^b	STATSGO 2 Map Unit	Topsoil Depth (inch increment) ^c				Slope Class ^d			
			Total Length	0-6	>6-12	>18	Shallow Organic	0-5	>5-15	>25
			Feet							
Point Thomson Gas Transmission Pipeline										
TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Alaska Mainline										
TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD	TBD

^a Access roads were provided as Geographic Information System line features by the Alaska Pipeline Project. The STATSGO2 soil map unit(s) for the access roads were determined by spatial query of the GIS data.

^b Season of construction was evaluated by including as winter construction all roads that involved building up ice as the type of modification/construction procedure.

^c Topsoil includes the surface soil horizon as indicated in the STATSGO2 database and any included organic and duff layers. Topsoil depths were calculated for each component soil series and placed into the appropriate depth increment. The lengths of the component soils within each group were summed to get the footage estimates for the whole map unit.

^d Average slope class for each component soil in the map unit was placed into the applicable slope class. The lengths of the component soils within each group were summed to get the footage estimates for the whole map unit.