

**RFI 014  
Pebble Project EIS**

**Request for Information**

<b>Title/Subject:</b>	<b>Mine Site Geotechnical Data: GIS Layers and TSF Coverage</b>
<b>Requestor:</b>	<b>Nancy Darigo/Cecil Ulrich/Courtney Brozovsky, AECOM</b>
<b>Date Transmitted:</b>	<b>4/26/18</b>
<b>Recipient:</b>	<b>Pebble Limited Partnership</b>
<b>Response Requested by:</b>	<b>5/3/2018</b>
<b>Rationale:</b>	EBD/SEBD Chapters 3 and 6 provide figures showing geotechnical data collected at the Mine Site, but GIS layers with the locations of these data are not available in the current GIS data log, and some test pit data are missing from EBD Appendix 6A. A preliminary review indicates that little or no geotechnical data may be available in certain areas of the TSF. Geotechnical information forms the basis of dam foundation design and stability analysis, and is required under the Alaska Dam Safety Program. The information is needed in GIS to correlate to current mine plan details in order to evaluate the adequacy of data coverage for embankment stability impacts.
<b>Describe the Information Requested and Level of Detail:</b>	<ul style="list-style-type: none"> <li>• Provide GIS layer(s) with test pits, geotechnical drillholes, and seismic line locations for the Mine Study Area (e.g., those shown on EBD Chap.6, Figures 6-3, 6-5, and 6-8; and SEBD Chapter 3, Figures 3-4 and 3-6).</li> <li>• Provide test pit data that is missing from the pdf file of EBD Chapter 6, Appendix 6A: pages 5 to 16 of Appendix 6A are not in the pdf.</li> <li>• Clarify what geotechnical data exists for the TSF South, Internal, and East Embankments and pyritic tailings storage cell. If data are lacking for embankment-specific design and stability analysis, collect additional drillhole data at these locations, and/or provide plans for additional data collection as design progresses.</li> </ul>

**Recipient Response Form**

<b>Date Received from USACE:</b>	<b>4/27/2018</b>
<b>Response from Recipient (Describe Information Requested to the Level of Detail Requested; Provide Attachments as Needed):</b>	1) GIS data (geodatabase) attached for test pit, geotechnical drill hole, and seismic line locations. 2) See attached pdf of EBD Chapter 6 – Appendix 6A 3) The proposed project has been updated and a revised footprint will be provided by 5/30/18. The 2018 site investigation program will include drilling and associated test work for all embankments where data is not currently available. Preliminary results are expected in September 2018.
<b>List Number and Type of Response Attachments:</b>	1. GeotechnicalLocations.gdb 2. EBD Chapter 6 – Appendix 6A.pdf
<b>Date Returned to USACE:</b>	<b>05/11/2018</b>

**AECOM Intake Form**

<b>Date Response was Received:</b>	<b>5/14/2018</b>
<b>Received by (Name):</b>	<b>POA Special Projects</b>
<b>Describe any Follow-up Related to this RFI</b>	<b>None at this time; pending receipt of updated project data mentioned in response above.</b>

<b>(Communications, Clarifications):</b>	
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APPENDIX 6A  
Test Pit Investigations Summary, 2004 through 2008

Test Pit #	Coordinates <sup>A</sup>		Elevation (ft)	Location of Test Pit	Total Depth (ft)	From (ft)	To (ft)	Material <sup>B</sup>	Geomorphology
	Northing (ft)	Easting (ft)							
TP04-01	2,119,517	1,366,560	915	South Fork Kaktuli River Area	7.9	0.7	7.9	SILT - some sand, some gravel, frequent cobbles.	Colluvium/Till
TP04-02	2,120,853	1,365,680	824	South Fork Kaktuli River Area	10.8	0.2	1.1	SAND and GRAVEL - trace silt occasional cobbles.	Glaciofluvial
						1.1	10.8	sandy GRAVEL - trace silt, frequent cobbles.	
TP04-03	2,120,232	1,369,126	945	South Fork Kaktuli River Area	9.2	0.3	7.2	clayey SILT - some sand, some gravel, occasional cobbles.	Glacial Drift/Till
						7.2	9.2	clayey, gravelly SAND - trace silt, occasional cobbles.	
TP04-04	2,123,748	1,363,586	974	South Fork Kaktuli River Area	9.2	0.5	4.3	PEAT - some silt, some sand, trace clay.	
						4.3	9.2	silty SAND - some gravel, frequent cobbles.	
TP04-05	2,124,204	1,366,349	840	South Fork Kaktuli River Area	8.2	0.6	2.8	PEAT - some silt, some sand, some gravel.	Glaciofluvial
						2.8	8.2	SAND and GRAVEL - some silt, occasional cobbles.	
TP04-06	2,122,931	1,364,202	801	South Fork Kaktuli River Area	10.5	1.2	6.9	SILT - some sand, some gravel, trace clay.	Glacial Drift/Till, Glaciofluvial
						6.9	10.5	silty SAND and GRAVEL - occasional cobbles.	
TP04-07	2,122,981	1,381,469	896	South Fork Kaktuli River Area	8.5	1.5	8.5	SAND and GRAVEL - trace silt, occasional cobbles.	Glaciofluvial/Outwash
TP04-08	2,119,602	1,383,670	833	South Fork Kaktuli River Area	9.5	2.0	7.9	SAND and GRAVEL - occasional cobbles.	Glaciofluvial
						7.9	9.5	SILT - some clay, trace gravel.	
TP04-09	2,126,255	1,383,320	889	South Fork Kaktuli River Area	8.9	2.6	8.9	SAND and GRAVEL - trace silt, frequent cobble.	Glaciofluvial
TP04-10	2,119,966	1,391,944	1,004	South Fork Kaktuli River Area	9.2	0.0	9.2	SILT and CLAY - some sand, some gravel.	Glacial Till
TP04-11	2,122,026	1,383,630	965	South Fork Kaktuli River Area	10.5	2.0	10.5	sandy GRAVEL - trace silt, well graded.	Glaciofluvial/Outwash
TP04-12	2,122,133	1,393,523	906	South Fork Kaktuli River Area	7.9	1.0	3.6	GRAVEL - trace sand, trace silt, trace clay, well graded.	Glacial Drift/Till, Glaciofluvial
						3.6	7.2	SAND and GRAVEL - some silt.	
						7.2	7.9	BEDROCK - volcanic, purplish-brown, highly weathered.	
TP04-13	2,123,882	1,396,758	919	South Fork Kaktuli River Area	9.2	1.6	4.3	SILT - trace sand, trace gravel.	Outwash Plain/Till
						4.3	9.2	sandy GRAVEL - trace silt, well graded.	
TP04-14	2,128,136	1,405,742	958	South Fork Kaktuli River Area	8.5	0.3	8.5	GRAVEL - some clay, some sand, some silt, poorly graded.	Glacial Drift/Till
TP04-15	2,126,548	1,381,458	1,017	South Fork Kaktuli River Area	6.4	1.0	3.9	sandy GRAVEL - some clay, trace silt, well graded.	Glaciofluvial
						3.9	5.9	SILT and GRAVEL - some sand, well graded.	
						5.9	6.4	BEDROCK - volcanic, grey, highly weathered.	
TP04-16	2,134,533	1,399,499	1,014	Area A, Southern Upland Area	9.5	1.1	5.6	SILT and SAND - some gravel, poorly graded.	Glacial Drift/Till, Glaciofluvial
						5.6	9.5	SAND and GRAVEL - trace silt.	
TP04-17	2,133,285	1,397,906	951	Area A, Southern Upland Area	8.9	1.3	4.6	SILT - some sand, some gravel, trace clay.	Glacial Drift/Till
TP04-18	2,148,254	1,407,551	1,178	Area A, Lower/Mid Side Slopes	4.6	2.3	4.6	COBBLES and GRAVEL - some silt.	Solifluction/Glacial Drift/Bedrock
TP04-19	2,148,310	1,405,388	948	Area A, Valley Bottom	9.8	2.6	9.8	SAND and GRAVEL - some silt, gradational layering.	Glaciofluvial/Glaciolacustrine
TP04-20	2,148,410	1,402,220	988	Area A, Valley Bottom	8.9	4.6	8.9	CLAY - some silt, trace sand, organic peat lenses.	Glaciolacustrine
TP04-21	2,145,963	1,406,457	1,079	Area A, Lower/Mid Side Slopes	8.9	1.3	8.9	clayey SAND and GRAVEL - trace silt, well graded.	Glacial Drift/Till
TP04-22	2,146,405	1,399,411	1,139	Area A, Lower/Mid Side Slopes	5.2	1.6	5.2	GRAVEL and SAND - some silt, trace clay, well graded.	Solifluction/Glacial Drift
TP04-23	2,148,464	1,399,945	1,093	Area A, Lower/Mid Side Slopes	9.5	1.3	9.5	silty SAND and GRAVEL - trace clay.	Glacial Drift/Till
TP04-24	2,136,927	1,392,479	988	Area J	8.5	2.0	5.6	SAND and GRAVEL - gradational layering and particle orientation.	Glaciofluvial/Glacial Drift
						5.6	8.5	SAND - some silt, visible layering.	
TP04-25	2,140,162	1,393,027	965	Area J	5.6	1.3	4.6	Sandy GRAVEL - trace silt, well graded, gradational layering.	Glaciofluvial
						4.6	5.6	SAND and GRAVEL - some silt.	
TP04-26	2,127,906	1,383,348	988	South Fork Kaktuli River Area	9.2	0.5	6.6	SILT - some sand, some gravel, trace clay.	Glacial Drift/Till
						6.6	8.5	GRAVEL and SAND - some silt, well graded.	
						8.5	9.2	COBBLES - some sand, some gravel.	
TP04-27	2,142,593	1,392,561	1,188	Area J	9.2	3.8	9.2	gravelly SAND - some clay, trace silt, poorly graded.	Glacial Drift/Till
TP04-28	2,144,095	1,393,401	1,060	Area J	5.2	2.0	4.9	SAND - some gravel, occasional cobble.	Fluvial/Glaciofluvial
						4.9	5.2	COBBLES - 0.1-0.4m in diameter.	

Test Pit #	Coordinates <sup>A</sup>		Elevation (ft)	Location of Test Pit	Total Depth (ft)	From (ft)	To (ft)	Material <sup>B</sup>	Geomorphology
	Northing (ft)	Easting (ft)							
TP04-29	2,137,590	1,398,330	1,132	Area A, Southern Upland Area	7.9	1.1	7.9	GRAVEL - some sand, trace silt, well graded, angular particles.	Glacial Drift
TP04-30	2,133,658	1,403,932	1,096	Area A, Southern Upland Area	8.2	2.0	4.9	SILT and SAND - trace gravel, trace clay.	Glacial Drift/Till
						4.9	8.2	SAND and GRAVEL - trace silt, occasional cobbles.	
TP04-31	2,134,661	1,392,782	984	Area J	8.9	0.7	8.9	sandy GRAVEL - some silt, occasional cobbles, well graded.	Glacial Drift/Till
TP04-32	2,135,064	1,389,905	1,106	Area J	8.9	2.0	3.0	SILT and SAND - trace gravel, poorly graded.	Colluvium
						3.0	6.2	sandy GRAVEL - some silt, angular particles.	
						6.2	8.9	GRAVEL - some sand, trace silt, angular particles.	
TP04-33	2,130,059	1,400,958	1,070	South Fork Kaktuli River Area	9.8	1.3	5.9	sandy GRAVEL - some silt, occasional cobble, well graded.	Outwash /Glacial Drift
						5.9	7.5	SAND - trace silt, trace gravel, well graded.	
						7.5	9.8	SAND and GRAVEL - trace silt, occasional cobbles, well graded.	
TP04-34	2,134,276	1,405,091	955	Area A, Southern Upland Area	8.2	0.2	8.2	SAND and GRAVEL - some silt, angular particles.	Glacial Drift
TP04-35	2,135,318	1,376,771	1,030	Area L	8.2	1.6	8.2	gravelly SAND - some clay, some silt, occasional cobble.	Glacial Drift/Till
TP04-36	2,135,346	1,379,264	1,066	Area L	8.5	2.3	8.5	SAND - some gravel, some silt, trace clay.	Glacial Drift/Till
TP04-37	2,168,502	1,402,576	1,358	Upper Talarik Creek Area	9.8	1.6	9.8	GRAVEL and SAND - some silt, well graded.	Glacial Drift/Till
TP04-38	2,172,154	1,407,266	1,184	Upper Talarik Creek Area	8.9	4.3	8.9	silty SAND - some gravel, trace clay.	Outwash
TP04-39	2,172,631	1,408,447	1,198	Upper Talarik Creek Area	7.2	0.3	7.2	SAND and GRAVEL - some clay, trace silt, well graded.	Glacial Drift/Till
TP04-40	2,169,863	1,404,662	1,102	Upper Talarik Creek Area	8.5	1.6	8.5	trace gravel, trace silt, some gradational layering.	Outwash
TP04-41	2,167,255	1,399,503	1,463	Upper Talarik Creek Area	9.2	1.3	9.2	SAND and GRAVEL - some silt, trace clay, occasional cobbles.	Glacial Drift/Till
TP04-42	2,168,374	1,396,920	1,319	Area E	9.2	1.3	5.9	SAND - some silt, trace gravel, well graded.	Glaciofluvial/Drift/Till
						5.9	9.2	sandy GRAVEL - some clay, trace silt, well graded.	
TP04-43	2,165,996	1,395,899	1,463	Area E	9.2	1.6	9.2	SAND and GRAVEL - some silt, coarsening with depth.	Outwash
TP04-44	2,170,881	1,395,573	1,188	North Fork Kaktuli River Area	8.5	0.2	3.0	SAND - trace silt, trace gravel, well graded.	Glaciofluvial/Lacustrine
						3.0	3.8	silty CLAY - some sand, very hard.	
						3.8	5.9	SAND - fine grained, some silt, poorly graded.	
						5.9	8.5	SAND and CLAY - fine grained, some silt, poorly graded.	
TP04-45	2,172,685	1,394,620	1,145	North Fork Kaktuli River Area	7.9	0.3	7.9	SAND - some silt, trace gravel, poorly graded.	Outwash
TP04-46	2,163,989	1,387,095	1,319	Area E	7.9	1.6	7.9	SAND - medium grained, some gravel, poorly graded.	Outwash
TP04-47	2,169,371	1,386,416	1,119	North Fork Kaktuli River Area	7.9	0.3	0.6	silty SAND and GRAVEL - well graded.	Glaciofluvial
						0.6	7.9	GRAVEL - some sand, trace silt, well graded.	
TP04-48	2,132,502	1,401,495	1,227	Area A, Southern Upland Area	7.9	0.3	7.2	sandy silty GRAVEL - trace clay, well graded.	Glacial Drift/Till Bedrock
						7.2	7.9	BEDROCK - highly weathered.	
TP04-49	2,121,260	1,397,664	929	South Fork Kaktuli River Area	8.2	0.6	2.3	silty SAND and GRAVEL - some cobbles.	Outwash/Glacial Drift
						2.3	6.9	SAND and GRAVEL - some cobbles.	
						6.9	8.2	SAND - medium grained, some gravel, poorly graded.	
TP04-50	2,126,340	1,401,778	925	South Fork Kaktuli River Area	7.9	0.3	1.6	gravelly SAND - poorly graded.	Glacial Drift/Till
						1.6	7.9	silty SAND - fine grained, trace clay, poorly graded.	
TP04-51	2,128,786	1,407,094	1,037	South Fork Kaktuli River Area	6.9	0.3	6.9	SAND - some gravel, trace silt.	Glacial Drift
TP04-52	2,131,634	1,408,334	1,030	South Fork Kaktuli River Area	7.9	0.3	7.9	SAND and GRAVEL - some silt, some cobbles.	Glaciofluvial
TP04-53	2,132,802	1,408,336	919	South Fork Kaktuli River Area	7.9	0.3	1.6	SAND - medium to fine grained, some silt.	Glaciofluvial
						1.6	3.0	SAND and GRAVEL - frequent cobble, well graded.	
						3.0	3.3	SAND - medium grained, poorly graded.	
						3.3	4.6	SAND and GRAVEL - poorly graded.	
						4.6	4.9	SAND - medium grained, poorly graded.	
						4.9	7.9	SAND and GRAVEL - medium to coarse grained sand, well graded.	
TP04-54	2,175,384	1,385,610	1,312	North Fork Kaktuli River Area	7.9	0.3	0.6	SAND - fine grained, some gravel, some silt, poorly graded.	Glacial Drift/Till
						0.6	7.9	gravelly SAND - trace fines, gravel content decreases with depth.	
TP04-55	2,178,455	1,386,460	1,342	North Fork Kaktuli River Area	3			ABANDONED TEST PIT.	Abandoned location - water

Test Pit #	Coordinates <sup>A</sup>		Elevation (ft)	Location of Test Pit	Total Depth (ft)	From (ft)	To (ft)	Material <sup>B</sup>	Geomorphology
	Northing (ft)	Easting (ft)							
TP04-56	2,178,234	1,386,158	1,339	North Fork Koktuli River Area	7.9	0.3	0.6	SAND - medium grained, some gravel, some silt, poorly graded.	Glacial Drift/Till
						0.6	7.9	SAND - some clay, some silt, well graded.	
TP04-57	2,181,170	1,387,406	1,368	North Fork Koktuli River Area	6.9	0.3	6.9	SAND - medium grained, some gravel, poorly graded.	Glacial Drift
TP04-58	2,163,561	1,383,328	1,312	Area G	7.9	0.3	0.6	SAND - medium grained, some silt, poorly graded.	Glacial Drift
						0.6	7.9	SAND and GRAVEL - trace fines, well graded.	
TP04-59	2,162,266	1,385,592	1,430	Area G	7.9	0.5	0.8	SAND and SILT - fine grained, poorly graded.	Glacial Drift
						0.8	2.3	SAND - medium and coarse grained, some gravel, poorly graded.	
						2.3	7.9	sandy GRAVEL - some silt, trace clay, well graded.	
TP04-60	2,164,853	1,380,614	1,378	Area G	7.9	0.3	7.9	GRAVEL - some silt, some sand, well graded.	Colluvium/Drift
TP04-61	2,151,177	1,371,202	1,700	Area G	5.2	1.3	5.2	sandy GRAVEL - trace silt, well graded.	Glacial Drift/Till
TP04-62	2,150,814	1,373,019	1,549	Area G	7.2	0.5	7.2	SAND and GRAVEL - some silt, frequent cobbles, well graded.	Glacial Drift/Till
TP04-63	2,164,043	1,375,247	1,526	Area G	5.9	1.3	5.9	SAND - medium grained, some gravel, poorly graded.	Glacial Drift
TP04-64	2,150,389	1,375,132	1,585	Area G	8.9	1.0	2.3	SAND - some silt, well graded.	Glacial Drift
						2.3	6.9	SAND - fine to medium grained, poorly graded.	
						6.9	8.9	gravelly SAND - some clay, trace silt, well graded.	
TP04-65	2,160,860	1,385,876	1,709	Area G	5.6	0.3	5.6	SAND - some gravel, well graded becoming poorly graded.	Glacial Drift
TP04-66	2,147,898	1,369,637	1,795	Area L	7.9	0.5	7.9	SAND - some gravel, trace silt.	Glacial Drift
TP04-67	2,161,021	1,398,705	1,581	Area E	7.5	1.0	7.5	SAND - some gravel, some to trace silt, well graded.	Glacial Drift/Till
TP04-68	2,161,138	1,397,577	1,421	Area E	8.2	0.6	7.9	SAND - medium to fine grained, some angular gravel.	Glaciofluvial
						7.9	8.2	COBBLE and GRAVEL - angular.	
TP04-69	2,160,521	1,397,157	1,430	Area E	7.9	0.3	0.8	GRAVEL - clean, poorly graded, rounded.	Glaciofluvial
						0.8	7.9	SAND and GRAVEL - trace silt, well graded.	
TP04-70	2,159,565	1,396,393	1,480	Area E	7.9	0.3	7.9	SAND - some silt, some gravel.	Glacial Drift/Till
TP04-71	2,158,549	1,396,077	1,578	Area E	7.9	0.3	0.5	GRAVEL - clean, poorly graded, angular to subrounded.	Glacial Drift/Till
						0.5	7.2	clayey SAND - fine grained, some silt, trace gravel, poorly graded.	
						7.2	7.9	SAND - fine grained, some silt, poorly graded.	
TP04-72	2,156,911	1,395,583	1,509	Area E	7.9	0.8	7.9	clayey SAND - some silt, trace gravel, poorly graded.	Glacial Drift/Till
TP04-73	2,155,573	1,395,216	1,490	Area E	7.9	0.6	7.9	SAND - some silt, trace clay.	Glacial Drift/Till
TP04-74	2,154,872	1,395,089	1,493	Area E	8.4	0.3	0.8	GRAVEL - clean, poorly graded, rounded.	Glaciofluvial
						0.8	3.6	SAND - some silt.	
						3.6	8.4	gravelly clayey SAND - medium to fine grained, some silt.	
TP04-75	2,154,177	1,394,900	1,424	Area E	8.2	0.3	8.2	SAND - some silt, some gravel, poorly graded.	Glacial Drift
TP04-76	2,156,402	1,403,631	1,014	Mineral Deposit Area	9.5	0.5	7.5	sand SILT - some gravel, some clay.	Glacial alluvial
						7.5	9.5	silty, sandy GRAVEL - trace clay, occasional cobbles.	
TP04-77	2,158,581	1,403,818	1,023	Mineral Deposit Area	9.2	0.3	2.3	sandy SILT - trace clay, trace gravel.	Glacial alluvial
						2.3	9.2	sandy GRAVEL - trace silt, frequent cobbles.	
TP04-78	2,160,187	1,405,435	996	Mineral Deposit Area	9.2	0.3	5.9	silty SAND and GRAVEL - trace clay, well graded.	Glacial alluvial
						5.9	9.2	gravelly SAND - trace silt, trace clay.	
TP04-79	2,157,221	1,407,006	1,009	Mineral Deposit Area	6.2	0.3	6.2	SAND and GRAVEL some silt, trace clay, well graded.	Ablation till
TP04-80	2,155,210	1,405,084	1,001	Mineral Deposit Area	9.2	0.2	7.9	SAND and GRAVEL - occasional cobbles, well graded.	Glaciofluvial - esker/braided stream
						7.9	9.2	sandy GRAVEL - trace silt, poorly graded.	
TP04-81	2,153,281	1,398,851	1,189	Area A, Lower/Mid Side Slopes	7.5	0.3	6.9	GRAVEL and SAND - some silt, trace clay, occasional cobbles.	Glaciofluvial
						6.9	7.5	gravelly SAND - some silt, trace clay.	
TP04-82	2,152,947	1,401,081	1,069	Area A, Lower/Mid Side Slopes	7.9	0.3	6.9	gravelly SAND - some silt, isolated cobbles.	Glacial alluvial
						6.9	7.9	silty, gravelly SAND - trace clay, well graded.	
TP04-83	2,150,449	1,398,809	1,188	Area A, Lower/Mid Side Slopes	7.5	0.6	2.3	silty SAND - some gravel, some clay.	Glacial alluvial
						2.3	7.5	GRAVEL and SAND - some silt, trace clay, frequent cobbles.	

Test Pit #	Coordinates <sup>A</sup>		Elevation (ft)	Location of Test Pit	Total Depth (ft)	From (ft)	To (ft)	Material <sup>B</sup>	Geomorphology
	Northing (ft)	Easting (ft)							
TP04-84	2,150,479	1,401,027	1,096	Area A, Lower/Mid Side Slopes	9.8	0.3	9.8	silty, gravelly SAND - some clay, well graded.	Recessional/lateral moraine - till
TP04-85	2,144,636	1,399,628	1,216	Area A, Lower/Mid Side Slopes	8.9	0.3	5.9	gravelly SAND - some silt, trace clay, well graded.	Colluvial
						5.9	8.9	clayey SILT - trace sand, trace gravel with depth, poorly graded.	Alluvial fan/outwash
TP04-86	2,144,456	1,402,040	999	Area A, Valley Bottom	6.9	0.4	3.9	silty SAND - Topsoil.	Alluvial
						3.9	6.9	silty, gravelly SAND - some clay.	Glaciolacustrine
TP04-87	2,144,350	1,405,487	1,077	Area A, Lower/Mid Side Slopes	9.2	1.6	9.2	sandy, silty GRAVEL - trace clay, well graded.	Lateral moraine
TP04-88	2,141,533	1,404,745	1,076	Area A, Lower/Mid Side Slopes	8.9	1.1	8.9	silty SAND and GRAVEL - some clay.	Glacial alluvial
TP04-89	2,142,390	1,403,029	996	Area A, Valley Bottom	6.1	2.7	4.3	silty SAND - Organic soil.	Alluvial
						4.3	6.1	SILT and CLAY - some sand, trace gravel.	Glaciolacustrine
TP04-90	2,141,482	1,400,907	1,124	Area A, Lower/Mid Side Slopes	8.2	0.6	7.2	silty SAND - some gravel, well graded.	Glacial alluvial
						7.2	8.2	sandy GRAVEL - trace silt, poorly graded.	
TP04-91	2,130,145	1,380,137	973	Area L	9.2	2.0	9.2	silty, gravelly SAND - trace clay, occasional cobble.	Ablation till/lateral moraine
TP04-92	2,128,937	1,374,901	1,018	Area L	7.5	2.6	5.6	silty, gravelly SAND - trace clay.	Glaciolacustrine
						5.6	7.5	sandy, silty GRAVEL - trace clay, frequent cobbles.	
TP04-93	2,131,676	1,382,874	1,012	Area L	9.2	1.6	9.2	gravelly, silty SAND - trace clay, occasional cobbles.	Recessional/lateral moraine - till
TP04-94	2,132,206	1,379,942	1,042	Area L	8.2	2.0	8.2	gravelly SAND - some silt, trace clay.	Glaciolacustrine/colluvial
TP04-95	2,133,570	1,379,183	1,100	Area L	8.9	1.4	5.4	silty, sandy GRAVEL - trace clay.	Alluvial
						5.4	8.9	sandy GRAVEL - some silt, trace clay.	
TP04-96	2,133,731	1,376,411	1,107	Area L	9.2	0.2	9.2	sandy GRAVEL - some silt.	Colluvial
TP04-97	2,137,572	1,377,580	993	Area L	8.8	1.3	8.2	silty SAND - fine grained, trace clay, trace gravel.	Ablation till
						8.2	8.8	gravelly, silty SAND - trace clay, well graded.	
TP04-98	2,139,821	1,376,332	1,007	Area L	7.8	0.8	7.8	GRAVEL and SAND - trace silt, occasional cobble.	Glacial alluvial
TP04-99	2,140,882	1,378,377	1,035	Area L	8	0.8	7.5	GRAVEL and SAND - some silt, frequent cobble.	Glacial alluvial
						7.2	8.0	sandy GRAVEL - some silt, trace clay, well graded.	
TP04-100	2,142,307	1,374,263	1,118	Area L	7.9	0.6	7.9	gravelly SAND - some silt, isolated cobble.	Glacial alluvial
TP04-101	2,156,109	1,377,507	1,360	Area G	9.2	3.6	9.2	silty SAND - some gravel, trace clay, well graded.	Glaciolacustrine
TP04-102	2,157,985	1,381,312	1,333	Area G	8.9	1.3	8.9	gravelly SAND - some silt, trace clay, occasional cobbles.	Colluvial
TP04-103	2,159,224	1,379,737	1,290	Area G	8.2	0.4	8.2	silty SAND - some gravel, some clay.	Alluvial
TP04-104	2,161,563	1,378,980	1,306	Area G	8.2	2.2	7.2	silty SAND - some gravel, trace clay, few cobbles.	Glacial alluvial
						7.2	8.2	sandy SILT - some gravel, trace clay.	
TP04-105	2,161,650	1,381,722	1,326	Area G	9.2	0.6	8.2	sandy GRAVEL - some silt, trace clay, well graded.	Alluvial fan/outwash
						8.2	9.2	sandy SILT - some clay, some gravel.	
TP04-106	2,163,697	1,381,261	1,302	Area G	6.6	1.5	5.9	silty SAND - some gravel, trace clay, occasional cobbles.	Ablation till
						5.9	6.6	GRAVEL - some silt, some sand, occasional cobble.	
TP04-107	2,166,787	1,380,893	1,155	North Fork Koktuli River Area	6.9	0.3	6.2	sandy GRAVEL -fine sand, some silt, isolated cobbles.	Glacial alluvial
						6.2	6.9	GRAVEL - some sand, trace silt, poorly graded.	
TP04-108	2,165,951	1,384,246	1,177	North Fork Koktuli River Area	9.2	0.6	8.2	SAND - some gravel, some silt, occasional cobbles.	Ablation till/moraine
						8.2	9.2	sandy GRAVEL - some silt, some clay, well graded.	
TP05-109	2,132,551	1,387,586	948	Area J	5.0	0.0	1.5	SILT - some sand, trace gravel.	Glaciofluvial
						1.5	5.0	SAND - some gravel, occasional cobbles, trace silt, well graded.	
TP05-110	2,133,819	1,399,795	907	Area A, Southern Upland Area	4.5	0.0	4.5	SAND - some gravel, occasional cobbles, well graded.	Kettled Moraine
TP05-111	2,135,551	1,398,669	1,038	Area A, Southern Upland Area	5.0	0.0	5.0	SILT and SAND - some gravel, occasional cobbles, trace clay, well graded, subrounded to rounded.	Kettled Moraine
TP05-112	2,133,807	1,404,678	953	Area A, Southern Upland Area	5.0	0.5	2.0	SILT and SAND - some gravel, occasional cobbles, well graded.	Outwash Sands and Gravels
						2.0	5.0	SAND and GRAVEL - isolated cobbles, well graded.	
TP05-113	2,134,481	1,404,750	1,065	Area A, Southern Upland Area	5.0	0.0	2.0	silty SAND - some gravel and cobbles, subangular to rounded.	Moraine
						2.0	5.0	gravelly SAND, occasional cobbles, subangular to rounded.	
TP05-114	2,144,476	1,410,972	1,526	Area A, Upper Side Slopes	4.0	0.5	4.0	SAND and GRAVEL - some silt, occasional boulders, subangular, well graded.	Blockfield
TP05-115	2,148,948	1,406,819	1,003	Area A, Valley Bottom	5.0	0.3	5.0	SAND and GRAVEL - occasional cobbles & boulders, well graded, subangular to subrounded.	Moraine

Test Pit #	Coordinates <sup>A</sup>		Elevation (ft)	Location of Test Pit	Total Depth (ft)	From (ft)	To (ft)	Material <sup>B</sup>	Geomorphology
	Northing (ft)	Easting (ft)							
TP05-116	2,149,767	1,406,026	983	Area A, Valley Bottom	3.0	0.0	3.0	silty SAND, some gravel, occasional cobbles, rounded clasts.	Glaciolacustrine
TP05-117	2,149,480	1,401,836	994	Area A, Valley Bottom	5.0	0.5	5.0	silty SAND, some gravel, occasional cobbles, silt lenses, well graded, rounded.	Glaciolacustrine
TP05-118	2,148,894	1,399,981	1,130	Area A, Lower/Mid Side Slopes	5.0	1.0	5.0	SILT, some sand, some clay, well graded.	Glaciolacustrine
TP05-119	2,150,022	1,400,964	1,102	Area A, Lower/Mid Side Slopes	4.5	0.6	3.0	gravelly SAND, some silt, some clay, occasional cobbles, poorly graded, subangular.	Kettled Moraine
						3.0	4.5	clayey SILT, some sand, some gravel, poorly graded, rusty brown, moist.	
TP05-120	2,150,394	1,400,295	1,110	Area A, Lower/Mid Side Slopes	4.5	3.0	4.5	silty clayey SAND, some gravel, trace cobbles, poorly graded, subangular.	Kettled Moraine
TP05-121	2,150,880	1,400,371	1,150	Area A, Lower/Mid Side Slopes	3.0	1.0	3.0	silty SAND - trace clay, fine to medium grained.	Kettled Moraine
TP05-122	2,150,948	1,400,981	1,120	Area A, Lower/Mid Side Slopes	4.5	0.5	4.5	gravelly SAND, some silt, trace clay, fine to medium grained, well graded, subangular to subrounded.	Kettled Moraine
TP05-123	2,150,872	1,401,712	1,038	Area A, Lower/Mid Side Slopes	5.0	1.0	5.0	SAND and GRAVEL, some silt, trace clay, occasional cobbles (3-4"dia), well graded, subrounded.	Kettled Moraine
TP05-124	2,151,408	1,401,642	1,015	Area A, Lower/Mid Side Slopes	5.0	2.0	5.0	silty clayey SAND, trace gravel, poorly graded.	Glaciolacustrine
TP05-125	2,152,155	1,403,167	980	Area A, Valley Bottom	1.0	0.5	1.0	PEAT - orange/brown, moist to saturated.	Glaciolacustrine
TP05-126	2,151,048	1,405,012	978	East Deposit Area	5.0	2.0	5.0	sandy SILT, some clay, trace gravel, occasional cobbles, well graded, subangular to subrounded.	Glaciolacustrine
TP05-127	2,150,229	1,408,178	1,027	East Deposit Area	5.0	0.1	5.0	SAND and SILT, occasional cobbles to boulders, trace clay, clast rich, subangular to subrounded.	Kettled Moraine
TP05-128	2,150,582	1,408,747	1,009	East Deposit Area	6.0	0.5	6.0	silty SAND, frequent gravel to cobbles, well graded, poorly sorted, subrounded.	Kettled Moraine/Moraine
TP05-129	2,152,025	1,405,220	985	East Deposit Area	6.0	4.0	6.0	clayey SAND, some gravel, well graded, well sorted.	Glaciolacustrine
TP05-130	2,152,562	1,406,430	990	East Deposit Area	5.5	0.3	5.5	Coarse SAND and GRAVEL, well graded, subrounded to rounded.	Kettled Moraine/Outwash Sands and
TP05-131	2,153,482	1,404,525	731	East Deposit Area	5.0	0.0	5.0	SAND and GRAVEL, trace silt, frequent cobbles, coarse grained, well graded, subrounded.	Outwash Sands and Gravels
TP05-132	2,154,091	1,404,221	978	Mineral Deposit Area	5.5	0.5	5.5	SAND and GRAVEL, trace silt, finer sand near surface grading to coarser with depth, rounded.	Outwash Sands and Gravels
TP05-133	2,154,604	1,404,742	1,001	Mineral Deposit Area	5.0	0.0	5.0	SAND and GRAVEL, trace silt, frequent cobbles, coarse grained, well graded, subrounded.	Outwash Sands and Gravels
TP05-134	2,155,395	1,405,813	991	Mineral Deposit Area	3.5	1.4	3.5	silty gravelly SAND, trace clay, medium to fine grained, well sorted.	Kettled Moraine
TP05-135	2,155,508	1,407,882	1,024	Mineral Deposit Area	4.0	0.5	4.0	silty gravelly SAND, some clay, occasional cobbles & boulders, poorly graded, subrounded to subangular.	Kettled Moraine
TP05-136	2,155,890	1,405,106	973	Mineral Deposit Area	4.0	0.5	1.5	sandy SILT - some gravel, rounded, trace cobble.	Outwash Sands and Gravels
						1.5	4.0	SAND and GRAVEL, trace silt, coarse grained, occasional cobbles, rounded, poorly graded.	
TP05-137	2,155,165	1,404,372	1,000	Mineral Deposit Area	5.5	0.5	5.5	SAND and GRAVEL, trace silt, coarse grained, well graded, rounded.	Outwash Sands and Gravels
TP05-139	2,153,672	1,401,559	1,050	Mineral Deposit Area	5.5	0.5	2.0	silty SAND, trace gravel, fine to medium grained, poorly graded, sub-angular to subrounded.	Moraine
						2.0	5.5	gravelly SAND, some silt, trace clay, medium to coarse grained, well graded, subangular to subrounded.	
TP05-140	2,155,314	1,400,349	1,131	Mineral Deposit Area	4.0	0.5	2.0	silty SAND, some gravel, some clay, poorly graded.	Moraine
						2.0	4.0	silty SAND, trace cobble, well graded, subangular, brown with pockets of reddish brown sand.	
TP05-141	2,155,785	1,403,083	1,080	Mineral Deposit Area	3.0	1.0	3.0	sandy SILT - some clay, fine grained.	Moraine
TP05-142	2,156,743	1,404,794	988	Mineral Deposit Area	4.0	0.5	2.5	SAND and GRAVEL, trace silt, coarse grained, rounded, poorly graded.	Outwash Sands and Gravels
						2.5	4.0	GRAVEL and SAND, same as above, but increased gravel content.	
TP05-143	2,157,389	1,405,323	1,017	Mineral Deposit Area	4.5	0.0	4.5	SAND and GRAVEL, trace silt, trace cobble, well graded, subangular to rounded.	Outwash Sands and Gravels
TP05-144	2,157,783	1,408,773	915	East Deposit Area	1.0	0.0	1.0	ORGANIC, black, saturated.	Moraine
TP05-145	2,158,684	1,407,158	1,020	Mineral Deposit Area	3.0	0.5	3.0	silty SAND - very fine grained, poorly graded.	Moraine
TP05-146	2,158,508	1,405,057	1,030	Mineral Deposit Area	2.5	1.0	2.5	silty SAND - fine grained.	Kettled Moraine
TP05-147	2,158,615	1,404,136	1,030	Mineral Deposit Area	5.5	0.5	1.5	silty gravelly SAND, trace clay, fine grained, poorly graded, subrounded to rounded.	Outwash Sands and Gravels
						1.5	5.5	SAND and GRAVEL, trace silt, occasional cobbles, poorly graded, subrounded to rounded.	
TP05-148	2,158,856	1,402,692	1,125	Mineral Deposit Area	5.5	0.5	3.0	sandy SILT, some gravel, trace clay, poorly graded, subangular.	Moraine
						3.0	5.5	gravelly silty SAND, trace clay, poorly graded.	
TP05-149	2,157,046	1,401,091	1,185	Mineral Deposit Area	3.0	1.0	3.0	silty SAND, some clay, trace gravel, poorly graded.	Moraine
TP05-150	2,160,092	1,401,098	1,435	Mineral Deposit Area	5.0	1.0	3.5	silty gravelly SAND, some clay, poorly graded, subangular to subrounded.	Moraine
						3.5	5.0	silty SAND- as above, increasing gravel content.	
TP05-151	2,161,283	1,403,016	1,160	Upper Talarik Creek Area	5.5	1.5	3.0	SILT, some sand and clay, trace organics.	Moraine
						3.0	5.5	sandy SILT, some gravel, trace clay.	
TP05-152	2,160,515	1,404,311	1,049	Mineral Deposit Area	5.0	1.0	5.0	sandy SILT, some clay, trace gravel, well graded, subrounded.	Moraine
TP05-153	2,159,042	1,410,460	850	East Deposit Area	1.5	0.3	1.5	CLAY, trace silt and sand, poorly graded.	Moraine
TP05-154	2,160,675	1,408,614	935	Upper Talarik Creek Area	3.0	0.5	3.0	SILT, some sand and clay, trace gravel, well graded, subangular.	Moraine

Test Pit #	Coordinates <sup>A</sup>		Elevation (ft)	Location of Test Pit	Total Depth (ft)	From (ft)	To (ft)	Material <sup>B</sup>	Geomorphology
	Northing (ft)	Easting (ft)							
TP05-155	2,161,711	1,406,610	984	Upper Talarik Creek Area	6.0	0.0	0.5	GRAVEL - subrounded.	Moraine
						0.5	3.0	SAND, some silt, trace gravel, fine to medium grained, poorly graded, subrounded.	
						3.0	6.0	gravelly SAND, trace silt, trace clay, coarse grained, subrounded, loose, dry.	
TP05-156	2,160,600	1,397,162	1,423	Area E	6.0	1.0	4.0	silty SAND, some silty clay, fine to medium grained, well graded, subrounded.	Moraine
						4.0	6.0	silty SAND, trace gravel, medium grained, well graded, subrounded, compacted, stratified.	
TP05-157	2,160,593	1,396,489	1,410	Area E	3.0	1.0	3.0	silty CLAY, well graded, soft, low plasticity.	Solifluction/Glaciolacustrine
TP05-158	2,160,113	1,396,159	1,442	Area E	5.0	0.8	5.0	gravelly SAND, some large cobbles and gravel, coarse grained, poorly graded, subrounded to angular.	Moraine
TP05-159	2,160,026	1,396,974	1,393	Area E	5.0	0.5	5.0	GRAVEL, some silt, coarse grained, poorly graded, subangular to angular.	Moraine
TP05-160	2,159,116	1,396,446	1,508	Area E	6.0	1.0	3.0	SAND and GRAVEL, subangular to sharp corners, loose, poorly graded.	Moraine
						3.0	6.0	SAND and GRAVEL, trace silt, trace clay, becoming more angular with depth.	
TP05-161	2,159,166	1,396,084	1,523	Area E	5.0	0.5	5.0	GRAVEL, trace sand, trace silt, fine to medium grained, poorly graded, subangular.	Moraine
TP05-162	2,159,293	1,395,584	1,498	Area E	8.0	0.5	4.0	silty SAND, trace gravel, fine grained, well graded, rounded.	Moraine
						4.0	8.0	SAND and GRAVEL, trace silt, trace clay, frequent cobbles.	
TP05-163	2,158,351	1,395,325	1,535	Area E	6.0	0.5	3.5	silty gravelly SAND, trace clay, well graded, angular to subangular.	Moraine
						3.5	6.0	silty gravelly SAND, same as above with increasing gravel and cobbles.	
TP05-164	2,158,284	1,395,701	1,539	Area E	6.0	0.3	2.5	gravelly SAND, trace silt, fine grained, poorly graded, angular.	Moraine
						2.5	6.0	GRAVEL and SAND, trace cobble and boulder, coarse grained, poorly graded, angular.	
TP05-165	2,158,160	1,396,382	1,530	Area E	6.0	0.5	1.5	silty SAND, some gravel and cobbles, occasional boulders, angular to subrounded.	Moraine
						1.5	6.0	SAND, some gravel, trace cobble and boulder, angular to subangular.	
TP05-166	2,157,625	1,395,921	1,558	Area E	2.0	0.5	2.0	silty SAND, some gravel and cobble, trace clay, angular to subangular.	Moraine
TP05-167	2,157,725	1,395,407	1,540	Area E	5.0	0.5	1.0	COBBLES, some gravel and sand, trace silt, angular, poorly graded.	Moraine
						1.0	3.0	sandy SILT, some gravel, trace cobble, well graded, occasional boulder.	
						3.0	5.0	silty sandy GRAVEL, some clay, increasing gravel and cobble with depth.	
TP05-168	2,157,319	1,395,013	1,491	Area E	6.0	1.0	6.0	SAND, some silt, some gravel, medium to coarse grained, poorly graded.	Moraine
TP05-169	2,157,295	1,395,630	1,551	Area E	4.0	0.5	2.0	silty SAND, some gravel, trace cobble, poorly graded, subangular to subrounded.	Moraine
						2.0	4.0	gravelly silty SAND, increased gravel content with depth.	
TP05-170	2,157,218	1,396,183	1,514	Area E	3.0	0.5	3.0	SAND, some silt, trace gravel, trace clay, subrounded.	Moraine
TP05-171	2,156,574	1,396,110	1,505	Area E	3.0	0.5	3.0	SILT, some clay and sand, trace gravel and cobble, subrounded to rounded.	Moraine
TP05-172	2,156,557	1,395,392	1,514	Area E	6.0	1.0	2.0	SAND, some gravel, trace silt, subrounded to rounded.	Moraine
						2.0	6.0	SAND and GRAVEL, some silt, trace clay, occasional cobble (3.5" diameter).	
TP05-173	2,156,715	1,394,789	1,460	Area E	6.0	1.5	6.0	SAND, some gravel, occasional cobbles and boulders, poorly graded, subangular to subrounded.	Moraine
TP05-174	2,156,268	1,394,980	1,521	Area E	3.5	1.0	3.5	silty SAND, some gravel and clay, well graded.	Moraine
TP05-175	2,156,225	1,395,597	1,510	Area E	4.0	0.5	4.0	gravelly SAND, some silt, subangular to subrounded.	Moraine
TP05-176	2,155,723	1,395,572	1,468	Area E	3.0	1.5	3.0	sandy SILT, trace gravel and clay, poorly graded.	Moraine
TP05-177	2,155,653	1,395,107	1,492	Area E	3.0	1.0	3.0	silty SAND, some gravel, trace clay, well graded, subrounded.	Moraine
TP05-178	2,153,825	1,391,288	1,398	Area J	3.0	0.0	1.0	sandy GRAVEL, trace cobbles, trace silt, trace clay, subangular to rounded.	Moraine
						1.0	3.0	silty sandy GRAVEL- some clay, subrounded.	
TP08-179	2,154,220	1,407,214	981	East Deposit Area	4.5	0.67	2	SAND and GRAVEL, trace silt/clay, frequent cobbles, rare boulders, subrounded to subangular clasts up to boulder size, well graded, non plastic, brown, moist.	Glaciofluvial
						2	4.5	Gravelly SAND, some silt/clay, trace cobbles, fine and medium sand, subrounded to subangular, lenses of coarse gravel, up to cobble size clasts, well graded, non plastic, brown, moist.	
TP08-180	2,152,854	1,408,027	994	East Deposit Area	5	0.67	5	GRAVEL, some sand, trace silt/clay, trace cobbles, cobble content increases with depth, coarse grained, subrounded to subangular, clasts up to cobble size, poorly graded, non plastic, brown, moist.	Glaciofluvial
TP08-181	2,151,373	1,409,003	1,028	East Deposit Area	5.5	0.5	5.5	Sandy GRAVEL, trace cobbles, trace silt/clay, cobble content increases with depth, coarse grained, subangular, poorly graded, non plastic, light brown, moist.	Glaciofluvial
TP08-182	2,151,485	1,408,258	994	East Deposit Area	5.5	1	3.5	Gravelly SAND and SILT, trace clay, angular clasts up to gravel size, poorly graded, non plastic, light brown, moist.	Glaciolacustrine
						3.5	5.5	Sandy GRAVEL, trace silt/clay, trace cobbles, cobble content increases with depth, coarse grained, subangular, poorly graded, non plastic, light brown, moist.	Glaciofluvial



Test Pit #	Coordinates <sup>A</sup>		Elevation (ft)	Location of Test Pit	Total Depth (ft)	From (ft)	To (ft)	Material <sup>B</sup>	Geomorphology
	Northing (ft)	Easting (ft)							
TP08-183	2,151,143	1,406,616	984	East Deposit Area	4	0.5	4	Sandy GRAVEL, trace silt/clay, trace cobble, cobble content increases with depth, coarse grained, subrounded to subangular clasts, poorly graded, non plastic, medium brown, moist.	Glaciofluvial
TP08-184	2,151,190	1,404,033	972	Area A, Valley Bottom	5.5	0	4.5	Silty SAND, poorly graded, moist, peat and vegetation roots throughout, dark brown.	Topsoil
						4.5	5.5	Sandy GRAVEL, some silt, trace clay, subrounded clasts up to gravel size, well graded, non plastic, light grey, moist to wet.	Glaciofluvial
TP08-185	2,152,221	1,404,483	963	East Deposit Area	6	0	2.5	PEAT with some orangey brown topsoil, frozen ground from 1' to 2', organic smell.	Peat
						2.5	5	Sandy SILT, fine grained, poorly graded, light grey, strong organic smell, peat root inclusions to 5'.	Glaciolacustrine
						5	6	Sandy SILT, some clay, trace gravel, subrounded clasts up to gravel size, poorly graded, medium plasticity, light grey, moist to wet.	
TP08-186	2,153,135	1,403,131	994	Area A, Valley Bottom	6	1	6	Sandy GRAVEL, trace silt/clay, coarse grained, subrounded to subangular clasts of varying rock type, up to cobble size, sand content decreases with depth, poorly graded, non plastic, orange-brown, moist.	Glaciofluvial
TP08-187	2,154,689	1,403,117	1,028	Mineral Deposit Area	5	1	5	Sandy GRAVEL, some silt, trace clay, trace cobbles increasing with depth and small boulders at 5', subangular clasts up to boulder size, sand content increases @3.5', well graded, non plastic, brown, moist.	Glaciofluvial
TP08-188	2,156,211	1,402,334	1,066	Mineral Deposit Area	2.5	0	2	Gravelly SAND, some silt/clay, angular to subangular clasts, up to cobble size, gap graded, low plasticity, dark brown, vegetation roots throughout, moist.	Topsoil
						2	2.5	GRAVEL and SAND, trace silt/clay, trace cobbles, angular to subangular clasts up to cobble size, well graded, non plastic, light brown, moist to wet.	Glaciofluvial
TP08-189	2,154,735	1,401,458	1,063	Mineral Deposit Area	5.5	1	5.5	GRAVEL and SAND, trace silt/clay, trace cobbles, angular to subangular, clasts up to cobble size, cobble content increases with depth, well graded, non plastic, medium brown with rust coloured seams from 1.5 to 2.5', moist to damp.	Glaciofluvial
TP08-190	2,154,692	1,399,879	1,169	Mineral Deposit Area	5.5	1	5.5	Sandy GRAVEL, some silt, trace clay, trace cobbles, trace boulders, subangular clasts of various rock types, up to boulder size, mostly gravel size, well graded, low plasticity, sand content increases with depth, rust coloured seams throughout, brown, moist.	Glacial Drift
TP08-191	2,155,868	1,408,696	1,032	Mineral Deposit Area	5	1	5	Sandy GRAVEL, some cobbles, some silt, trace clay, subangular clasts up to cobble size, cobble content increases with depth, well graded, non plastic, light brown, moist.	Glacial Drift
TP08-192	2,158,101	1,399,679	1,248	Mineral Deposit Area	5	0.5	5	Gravelly SAND, some silt, some clay, trace cobbles, subangular clasts up to cobble size, well graded, medium plasticity, brown, moist.	Glacial Drift
TP08-193	2,158,349	1,401,885	1,220	Mineral Deposit Area	5.5	0.5	5.5	Gravelly, sandy SILT, some clay, angular to subangular, clasts up to cobble size, well graded, medium plasticity, light brown, moist.	Glacial Drift
TP08-194	2,160,464	1,401,926	1,189	Mineral Deposit Area	6	1	4	Silty, sandy GRAVEL, trace clay, subrounded to subangular clasts up to gravel size, well graded, low plasticity, light brown, root inclusions to 4', moist.	Glacial Drift
						4	6	Silty, sandy GRAVEL, trace clay, trace cobbles, subangular clasts up to cobble size, well graded, high plasticity, dark brown, moist.	
TP08-195	2,157,382	1,404,591	1,007	Mineral Deposit Area	6	0	6	GRAVEL, some cobbles, some sand, trace silt/clay, some root inclusions from 0 to 1' depth, coarse, subrounded to subangular, some rounded clasts, clasts of various rock types up to cobble size, sand decreases with depth, well graded, non plastic, light brown, moist to dry.	Glaciofluvial
TP08-196	2,156,416	1,406,807	1,074	Mineral Deposit Area	4.5	1.5	4.5	Sandy, silty GRAVEL, trace clay, angular to subangular, clasts up to cobble size, well graded, cobble content increases with depth, low plasticity, light brown, moist.	Glacial Drift
TP08-197	2,155,908	1,409,239	938	East Deposit Area	5.5	0.5	5.5	Cobbly, sandy SILT, some gravel, some clay, subangular to subrounded, clasts up to boulder size, gap graded, medium plasticity, light brown-grey, dense, wet.	Glaciolacustrine
TP08-198	2,157,765	1,411,140	848	East Deposit Area	4.5	0	2.5	PEAT, small amounts of silt and clay, trace gravel, subangular to subrounded, clasts up to gravel size, poorly graded, low to medium plasticity, orange-dark brown, organic smell, vegetation roots, moist.	Topsoil
						2.5	4.5	Clayey SILT, some gravel, some sand, subangular clasts up to cobble size, poorly graded, medium plasticity, dark grey, wet.	Glaciolacustrine
TP08-199	2,157,297	1,413,227	849	East Deposit Area	6	0.5	6	SAND and SILT, trace clay, fine sand, subrounded clasts up to gravel size, poorly graded, medium plasticity, non plastic, brown, some root inclusions to 3', moist to 4.5', then moisture content increases.	Glaciolacustrine
TP08-200	2,159,205	1,412,920	843	Upper Talarik Creek Area	6	0.5	6	Gravelly, sandy, clayey SILT, trace cobbles, angular to subangular, clasts up to cobble size, gap graded, medium plasticity, medium brown, moist.	Glaciolacustrine
TP08-201	2,159,254	1,410,767	845	Upper Talarik Creek Area	5	1	5	Sandy, clayey, gravelly SILT, trace cobbles, angular to subangular clasts up to cobble size, clasts of various rock types, frozen layers to 4 ft depth, poorly graded, medium plasticity, dark grey with rust coloured layers throughout, moist where not frozen.	Glaciolacustrine

Test Pit #	Coordinates <sup>A</sup>		Elevation (ft)	Location of Test Pit	Total Depth (ft)	From (ft)	To (ft)	Material <sup>B</sup>	Geomorphology
	Northing (ft)	Easting (ft)							
TP08-202	2,159,511	1,407,969	949	Mineral Deposit Area	6	1	4	Clayey, sandy SILT, trace gravel, trace cobbles, frozen at 2 to 4 ft depth, subrounded, clasts up to cobble size, gap graded, low plasticity, greyish orange-brown, stratified, moist.	Glaciolacustrine
						4	6	SAND, some cobbles, some gravel, some silt, trace clay, frozen to 5.5 ft depth, subangular clasts up to cobble size, well graded, medium plasticity, light brown, stratified, moist.	
TP08-203	2,160,952	1,406,831	922	Upper Talarik Creek Area	5	0.5	5	Sandy SILT, some gravel, trace clay, trace cobbles, coarse sand, silt content slightly increases with depth, angular to subangular, up to cobble size clasts, poorly to gap graded, low plasticity, brown with frequent orange-brown seams, at 2.5 ft depth a thin dark brown layer ~1 cm thick, root inclusions to 2', moist to wet.	Glaciolacustrine
TP08-204	2,161,971	1,409,881	907	Upper Talarik Creek Area	4	1	4	Silty, clayey SAND, trace gravel, trace cobbles, fine sand, subrounded clasts up to cobble size, poorly graded, low plasticity, grey-brown, moist, frozen zones.	Glaciolacustrine
TP08-205	2,161,537	1,410,975	872	Upper Talarik Creek Area	3.5	0.5	3.5	Sandy GRAVEL, some silt, trace cobbles, trace clay, subrounded to subangular, clasts up to rare boulder size, well graded, low plasticity, brown, moist.	Glacial Drift
TP08-206	2,161,628	1,415,060	827	Upper Talarik Creek Area	5.5	0	1.5	Silty SAND, trace gravel, subrounded to subangular, clasts up to gravel size, poorly graded, low plasticity, dark brown to orange brown, vegetation roots and peat throughout, moist.	Topsoil
						1.5	2.67	Clayey SILT, some sand, no clasts, frozen with many ice crystals present, poorly graded, high plasticity, light grey-brown with dark/brown seam from 2.5 to 2.67', some peat inclusions, moist.	Glaciolacustrine
						2.67	5.5	Silty CLAY, trace sand, trace gravel, subangular to subrounded, clasts up to gravel size, poorly graded, medium plasticity, brown with some iron oxide staining, moist.	
TP08-207	2,162,367	1,413,844	820	Upper Talarik Creek Area	6.25	0	1.5	PEAT, dark brown and orange brown, organic smell, root inclusions throughout, moist.	Peat
						1.5	5.5	Sandy, clayey SILT, trace gravel, frozen, angular to subangular clasts up to gravel size, poorly graded, low to medium plasticity, light brown and grey, moist to wet when thawed.	Glaciolacustrine
						5.5	6	Silty SAND, some clay, trace gravel, fine sand, angular to subangular, clasts up to gravel size, poorly graded, low plasticity, brown, moist, frozen.	
						6	6.25	Sandy, clayey SILT, fine sand, no clasts, poorly graded, medium plasticity, green-grey, moist.	
TP08-208	2,163,721	1,413,023	890	Upper Talarik Creek Area	6	0	3	PEAT, dark brown to orange brown, moist to wet.	Peat
						3	6	Gravelly SAND, some silt, trace clay, trace cobbles, subangular to subrounded, clasts up to cobble size, becoming coarser with depth, well graded, low plasticity, light green-grey, some rust coloured seams throughout, moist.	Glacial Drift
TP08-209	2,164,266	1,411,942	971	Upper Talarik Creek Area	6	0.5	3.5	Sandy SILT, some clay, trace gravel, trace cobbles, frozen, subangular clasts up to cobble size, poorly graded, medium plasticity, light brown with rust coloured seams throughout.	Glaciolacustrine
						3.5	5	SAND and GRAVEL, some silt/clay, subangular clasts up to gravel size, well graded, low plasticity, light brown, moist.	Glacial Drift
						5	6	Sandy, silty GRAVEL, some clay, trace cobbles, subrounded, clasts up to boulder size, well graded, medium plasticity, brown, moist.	
TP08-210	2,165,820	1,409,776	1,079	Upper Talarik Creek Area	5.5	1	5.5	Gravelly, silty SAND, trace clay, trace cobbles, subangular, clasts up to boulder size, cobble frequency increases with depth, well graded, low plasticity, brown, moist.	Glacial Drift
TP08-211	2,164,862	1,407,885	1,040	Upper Talarik Creek Area	5.5	0.5	3	Sandy SILT, some gravel, trace cobbles, subangular, up to cobble sized clasts, poorly graded, no to low plasticity, brown, vegetation roots present, moist.	Glaciolacustrine
						3	5.5	Silty SAND, some clay, trace gravel, trace cobbles, subangular, few clasts up to cobble size, gravel and cobbles increase with depth, poorly graded, low plasticity, light brown, moist.	
TP08-212	2,165,906	1,408,274	1,064	Upper Talarik Creek Area	5	0.5	4	Sandy, gravelly SILT, trace clay, angular to subangular, few boulder size clasts, most gravel and cobble size, gap graded, high plasticity, brown, root vegetation, moist.	Glaciolacustrine
						4	5	Sandy, gravelly SILT, trace clay, angular to subangular, more boulder size clasts, most gravel and cobble size, gap graded, medium plasticity, light brown, moist.	
TP08-213	2,166,951	1,407,232	1,069	Upper Talarik Creek Area	6	0.5	3.5	Silty SAND, trace clay, trace gravel, trace cobbles, fine sand, rounded to subrounded, clasts up to cobble size, poorly graded, low plasticity, orange-brown, moist.	Glaciolacustrine
						3.5	4.5	Silty SAND, trace clay, trace gravel, trace cobbles, more gravel and cobbles present, cobble content increases with depth, fine sand, rounded to subangular, gap graded, low plasticity, light brown, moist.	
						4.5	6	Sandy GRAVEL, trace silt/clay, coarse grained gravel, subangular to rounded, clasts up to boulder size, poorly graded, low plasticity, brown, moist.	Glaciofluvial Outwash

Test Pit #	Coordinates <sup>A</sup>		Elevation (ft)	Location of Test Pit	Total Depth (ft)	From (ft)	To (ft)	Material <sup>B</sup>	Geomorphology
	Northing (ft)	Easting (ft)							
TP08-214	2,167,012	1,406,481	1,059	Upper Talarik Creek Area	6	0.5	2.5	Cobbly SAND, some silt, some gravel, trace clay, subangular to subrounded, clasts up to cobble size, gap graded, non plastic, light brown, moist.	Glaciofluvial Outwash
						2.5	4.5	Gravelly, sandy COBBLES, some silt, trace clay, subangular, clasts up to cobble size, gap graded, low plasticity, brown, moist.	
						4.5	6	Sandy GRAVEL, some cobbles, some silt, trace clay, trace boulders, subangular to subrounded, clasts up to boulder size, low plasticity, well graded, brown, moist.	
TP08-215	2,167,774	1,405,846	1,054	Upper Talarik Creek Area	6	0.5	2	Silty SAND, some gravel, trace clay, fine, subangular clasts up to gravel size, gap graded, non plastic, brown, compact, moist.	Glacial Drift
						2	3	Silty, gravelly SAND, coarse grained, trace clay, subangular, well graded, low plasticity, orange-brown, moist.	Glacial Drift
						3	6	Sandy GRAVEL, trace silt/clay, subangular to subrounded, clasts up to gravel size, poorly graded, light brown, moist.	Glaciofluvial Outwash
TP08-216	2,166,822	1,403,711	1,261	Upper Talarik Creek Area	6	0	1.5	Sandy, gravelly SILT, some clay, subangular clasts up to gravel size, well graded, low to medium plasticity, dark orange-brown, moist.	Topsoil
						1.5	6	Sandy, gravelly SILT, some clay, trace cobbles , subangular clasts up to cobble size, poorly graded, low to medium plasticity, light brown-grey, some dark brown silt seams at 4 ft depth, some root inclusions, moist.	Colluvium
TP08-217	2,168,001	1,403,845	1,159	Upper Talarik Creek Area	6	0.5	6	Gravelly, sandy SILT, trace cobbles, trace clay, angular to subangular, clasts of various rock types up to cobble size, cobbles increasing with depth, well graded, low plasticity, light brown to orange-brown, moist.	Colluvium
TP08-218	2,168,657	1,402,072	1,225	Upper Talarik Creek Area	5.5	1	2.5	Silty, gravelly SAND, coarse sand, subangular, clasts up to gravel size, well graded, low plasticity, light brown, root inclusions throughout, dry to damp.	Glacial Drift
						2.5	5.5	Silty SAND, some gravel, some clay, trace cobbles, subrounded, up to cobble size clasts, frequency of cobbles increases with depth, poorly graded, low plasticity, light brown, moist to wet.	
TP08-219	2,166,912	1,401,678	1,422	Upper Talarik Creek Area	5	1	5	Sandy GRAVEL, some silt, trace clay, trace cobbles, trace boulders, subangular, up to boulder size clasts, well graded, low plasticity, light brown, root inclusions to 2.5', moist.	Glacial Drift
TP08-220	2,162,609	1,401,446	1,398	Upper Talarik Creek Area	5.5	0.5	5.5	Silty, gravelly SAND, some clay, trace cobbles, trace boulders, subangular, clasts up to boulder size, poorly graded, low plasticity, brown, moist.	Glacial Drift
TP08-221	2,161,765	1,399,261	1,548	Area E	4.5	1	4.5	Sandy, silty GRAVEL, trace clay, trace cobbles, subangular, clasts up to cobbles, well graded, low plasticity, brown, moist, moisture content increases at 3.5 ft depth.	Glacial Drift
TP08-222	2,165,406	1,398,742	1,568	Upper Talarik Creek Area	5	0.5	5	Sandy GRAVEL, some silt, trace clay, trace cobbles, angular to subangular, clasts up to cobble size, well graded, low plasticity, light brown, root inclusions, moist, possible frost wedged bedrock.	Glacial Drift
TP08-223	2,165,006	1,397,151	1,735	Area E	4	1	4	Gravelly COBBLES, trace sand, trace silt/clay, gravel is mainly coarse, angular, clasts up to boulder size, poorly graded, non plastic, light brown, moist, possible frost wedged bedrock.	Glacial Drift
TP08-224	2,164,401	1,396,187	1,578	Area E	5.5	0.5	5.5	GRAVEL, some sand, some silt, trace clay, rounded to angular, clasts up to cobble and boulder size, poorly graded, non plastic, light brown, moist.	Glacial Drift
TP08-225	2,162,986	1,395,904	1,435	Area E	5	0.67	2.75	GRAVEL and COBBLES, some silt/clay, trace sand, angular to subangular, clasts up to cobble size, gap graded, medium plasticity, brown, moist.	Glaciofluvial Outwash
						2.75	5	GRAVEL, some silt, some sand, trace clay, angular to subangular, clasts up to cobble size, gap graded, low plasticity, brown, moist.	
TP08-226	2,161,049	1,395,400	1,394	Area E	5.5	1	5.5	Gravelly, sandy SILT, trace clay, trace cobbles, subrounded, clasts up to cobble size, well graded, low plasticity, light brown, moist.	Glacial Drift
TP08-227	2,159,095	1,394,718	1,468	Area E	5.5	0.75	5.5	Gravelly, silty SAND, some clay, trace cobbles, subrounded, clasts up to large cobble size, well graded, low plasticity, brown, moist.	Colluvium
TP08-228	2,157,835	1,394,049	1,435	Area E	5	0	3.5	PEAT, high organic content, dark brown, organic smell, moist.	Peat
						3.5	5	Sandy, silty GRAVEL, trace clay, trace cobbles, subangular to subrounded, clasts up to cobble size, gap graded, non plastic, grey, moist.	Colluvium
TP08-229	2,157,228	1,393,147	1,402	Area E	4.75	0	2.5	PEAT, high organic content, dark brown, smells highly organic, moist to wet.	Peat
						2.5	3.25	Silty SAND, some gravel, some clay, subrounded, clasts up to gravel size, poorly graded, low plasticity, grey, moist.	Glacial Drift
						3.25	4.75	Gravelly, silty SAND, some clay, subrounded, clasts up to gravel size, well graded, low plasticity, light brown, moist.	
TP08-230	2,156,054	1,392,400	1,387	Area E	4	0	2	PEAT, high organic content, dark brown, moist to wet.	Peat
						2	4	Silty, gravelly SAND, trace clay, trace cobbles, fine gravel, gravel content increasing with depth, subrounded, clasts up to cobble size, poorly graded, non plastic, light grey, moist to wet.	Glacial Drift

Test Pit #	Coordinates <sup>A</sup>		Elevation (ft)	Location of Test Pit	Total Depth (ft)	From (ft)	To (ft)	Material <sup>B</sup>	Geomorphology
	Northing (ft)	Easting (ft)							
TP08-231	2,155,555	1,394,355	1,468	Area E	5	0	1.5	Gravelly SAND, some silt, trace cobbles, subangular, small to large cobbles, poorly graded, non plastic, dark brown, moist.	Topsoil
						1.5	3.75	SAND, some gravel, some silt, trace clay, trace cobbles, fine to medium sand, sand content increasing with depth, subangular, clasts up to cobble size, poorly graded, non plastic, brown with few light orange-brown lenses, trace organics at top of interval, moist.	Glacial Drift
						3.75	5	Cobbly, gravelly SAND, some silt/clay, trace boulders, subangular, clasts up to boulder size, well graded, non-plastic, orange-brown, moist.	
TP08-232	2,149,883	1,392,158	1,213	Area J	5.5	1	5.5	Sandy, gravelly SILT, trace clay, trace cobble, subangular, clasts up to cobble size, gap graded, non plastic, brown, trace organic content, moist.	Colluvium
TP08-233	2,150,905	1,393,154	1,651	Area J	5.25	0.5	1	Sandy SILT, some gravel, trace cobble, subangular, clasts up to cobble content, poorly graded, non plastic, brown, some organics, damp.	Glacial Drift
						1	5.25	Silty/clayey, gravelly SAND, trace cobbles, few boulders, subangular, clasts up to boulder size, increasing cobble and boulder content with depth, poorly graded, non plastic, brown, moist.	
TP08-234	2,152,479	1,391,498	1,412	Area J	6	0	2.5	Silty SAND, trace gravel and cobble, subangular to subrounded, clasts increasing to some gravel and cobble at 2', poorly graded, non plastic, highly organic, organic smell, peat and vegetation roots throughout, dark brown, moist.	Topsoil
						2.5	3.75	Silty, sandy GRAVEL, some cobbles, trace clay, subangular to subrounded, clasts up to cobble size, well graded, non plastic, dark grey/brown, trace organics, moist to wet.	Glacial Drift
						3.75	6	Gravelly, silty SAND, trace clay, subangular to subrounded, clasts up to gravel size, poorly graded, low plasticity, grey, moist.	
TP08-235	2,153,644	1,390,014	1,483	Area J	5	0	1.5	Silty SAND, some gravel, trace cobbles, subrounded to subangular, clasts up to cobble size, well graded, non plastic, brown, lots of organics, moist.	Topsoil
						1.5	4	GRAVEL and SAND, some silt, trace clay, sand is mainly medium and fine grained, subrounded to subangular, clasts up to gravel size, coarsening with depth, well graded, non plastic, brown to orange-brown, moist.	Colluvium
						4	5	Sandy, silty GRAVEL, some cobbles, trace clay, mainly coarse gravel, subangular to subrounded, clasts up to cobble size, gap graded, non plastic, brown, damp.	
TP08-236	2,154,419	1,388,776	1,679	Area J	4	0	1.5	Silty SAND, many cobbles and few boulders, subangular, clasts up to boulder size, poorly graded, non plastic, dark brown, high organic content, moist.	Topsoil
						1.5	4	Silty SAND, trace gravel, trace clay, trace cobbles, mainly fine and coarse sand, increasing gravel and cobble content with depth, subangular, clasts up to cobble size, poorly graded, no to low plasticity, brown, damp.	Colluvium
TP08-237	2,153,245	1,385,477	1,807	Area G	6	0.5	3.25	SAND and SILT, some gravel, trace clay, trace cobbles, subangular, clasts up to cobble size, poorly graded, low plasticity, brown to orange-brown, moist.	Colluvium
						3.25	6	Cobbly SILT, some gravel, some clay, some sand, few boulders, subangular to subrounded, clasts up to boulder size, gap graded, low plasticity, brown, moist.	
TP08-238	2,160,017	1,387,136	1,735	Area E	4.5	0.25	4.5	Silty, gravelly SAND, trace cobbles, trace clay, mainly fine to medium grained sand, increasing cobble and gravel content with depth, few boulders, subangular, clasts up to boulder size, well graded, low plasticity, brown, trace organics, moist.	Colluvium
TP08-239	2,158,671	1,388,581	1,551	Area E	6	0.5	5.25	Silty SAND, trace gravel, trace clay, trace cobbles, fine to medium grained sand, subangular to subrounded, clasts up to cobble size, cobbles increasing with depth, poorly graded, non plastic, brown, trace organics, moist.	Colluvium
						5.25	6	Gravelly, silty SAND, trace clay, trace cobbles, subangular, clasts up to cobble size, well graded, non plastic, brown, moist.	
TP08-240	2,157,392	1,388,468	1,625	Area E	5	0	1.5	Cobbles, some gravel, some sand, some silt, subangular, clasts up to cobble size, dark brown, poorly graded, non plastic, organic content, moist.	Topsoil
						1.5	5	Gravelly COBBLES, some silt, some sand, varying amounts of silt and sand with depth, trace clay, subangular, clasts up to cobble size, poorly graded, non plastic, brown, moist.	Colluvium
TP08-241	2,157,028	1,389,653	1,569	Area E	5.75	0.5	3.75	Cobbly, gravelly SAND, fine to medium sand, some silt/clay, subangular, clasts up to cobble size, fines increasing with depth, gap graded, non plastic, brown, trace organics, moist.	Colluvium
						3.75	5.75	Gravelly SAND, some silt, some cobbles, trace clay, mainly coarse gravel, mainly fine to medium sand, subangular, gap graded, non plastic, brown, moist.	
TP08-242	2,157,797	1,391,162	1,368	Area E	6	0	1.5	Silty SAND, trace gravel and cobbles, subrounded, clasts up to cobble size, poorly graded, non plastic, dark brown, smells organic, highly organic, moist.	Topsoil
						1.5	6	Sandy, silty GRAVEL, trace cobbles, trace clay, gravel increasing with depth, subrounded, clasts up to cobble size, well graded, low plasticity, brown, moist.	Colluvium

Test Pit #	Coordinates <sup>A</sup>		Elevation (ft)	Location of Test Pit	Total Depth (ft)	From (ft)	To (ft)	Material <sup>B</sup>	Geomorphology
	Northing (ft)	Easting (ft)							
TP08-243	2,156,260	1,391,134	1,455	Area E	5	1	3.5	Gravelly COBBLES, cobble content increasing with depth, some silt, some sand, trace clay, few boulders, subangular to subrounded, clasts up to boulder size, poorly graded, non plastic, brown, moist.	Colluvium
						3.5	5	GRAVEL, some sand, some cobbles, some silt/clay, subangular, clasts up to cobble size, poorly graded, non plastic, brown, moist.	
TP08-244	2,160,374	1,391,906	1,333	Area E	5.5	0.75	5.5	Silty SAND, some gravel, trace clay, trace organics and cobbles, subangular, clasts up to cobble size, poorly graded, low plasticity, brown, moist.	Glacial Drift
TP08-245	2,159,667	1,392,782	1,397	Area E	5	0.5	3	Sandy, silty GRAVEL, trace clay, trace cobbles, subangular to subrounded, clasts up to cobble size, well graded, low plasticity, brown, moist.	Glacial Drift
						3	5	Sandy GRAVEL, some cobbles, trace silt/clay, subrounded to subangular, clasts up to cobble size, poorly graded, non plastic, brown, moist.	
TP08-246	2,160,392	1,393,469	1,389	Area E	5	0.5	2.75	Sandy, silty GRAVEL, trace clay, trace cobbles, subrounded, clasts up to cobble size, well graded, low plasticity, brown, moist.	Glacial Drift
						2.75	5	Silty, sandy GRAVEL, trace clay, trace cobbles, increased gravel and cobbles with depth, subrounded, gap graded, low plasticity, brown, moist.	
TP08-247	2,161,707	1,393,885	1,353	Area E	5	0.5	1.5	Sandy GRAVEL, trace to some silt, subrounded, clasts up to gravel size, poorly graded, low to no plasticity, brown, some organics present, moist.	Glacial Drift
						1.5	3.5	Sandy, silty GRAVEL, trace clay, trace cobbles, subangular to subrounded, clasts up to cobble size, well graded, low plasticity, brown, moist.	
						3.5	5	Sandy GRAVEL, some silt, trace clay, trace cobbles, subangular to subrounded, clasts up to cobble size, gap graded, low plasticity, brown, moist.	
TP08-248	2,163,351	1,393,810	1,361	Area E	5	1	5	Gravelly, silty SAND, trace clay, subangular to subrounded, clasts up to gravel size, well graded, non plastic, brown, moist.	Glacial Drift
TP08-249	2,165,302	1,395,020	1,401	Area E	5.5	0	1.5	Silty, gravelly SAND, trace cobbles and boulders, subangular to subrounded clasts up to boulder size, well graded, non plastic, brown, moist.	Topsoil
						1.5	3.5	SAND and GRAVEL, some silt, trace clay, trace cobble, increasing sand with depth, subangular to subrounded, clasts up to cobble size, well graded, non plastic, brown, moist.	Glacial Drift
						3.5	5.5	Gravelly SAND, some silt, trace clay, trace cobbles, subangular to subrounded, clasts up to cobble size, well graded, non plastic, brown, moist.	
TP08-250	2,166,055	1,393,399	1,199	Area E	5.25	0	1.5	Sandy GRAVEL, trace silt/clay, some cobbles, subrounded to subangular, clasts up to cobble size, poorly graded, non plastic, dark brown, organics, moist.	Topsoil
						1.5	5.25	Sandy GRAVEL, trace silt/clay, trace cobbles, trace boulders, cobbles and gravel increasing with depth, subrounded, clasts up to boulder size, poorly graded, non plastic, brown, moist.	Glacial Drift
TP08-251	2,165,132	1,392,435	1,240	Area E	5.5	1	5.5	GRAVEL and SAND, some silt, trace clay, trace cobbles, boulder at 5.5 ft, subangular to subrounded, clasts up to boulder size, well graded, non plastic, brown, trace organics at top, moist.	Glacial Drift
TP08-252	2,164,836	1,391,397	1,238	Area E	5.5	0	1.25	SAND, some gravel, trace cobble, subangular, clasts up to cobble size, well graded, non plastic, dark brown, organics, moist.	Topsoil
						1.25	5.5	Sandy GRAVEL, some silt, trace clay, trace cobbles, trace boulders, subangular, clasts up to boulder size, well graded, low plasticity, brown, trace organics, moist.	Glacial Drift
TP08-253	2,164,813	1,388,285	1,246	Area E	5.75	0	1.5	SAND, some silt, some gravel, subangular to subrounded, clasts up to gravel size, poorly graded, non plastic, dark brown, highly organic, vegetation roots, moist.	Topsoil
						1.5	4.5	Sandy SILT, some gravel, trace clay, trace cobbles, fine sand, subrounded to subangular, clasts up to cobble size, largest 20cm diameter, poorly graded, non plastic, brown, trace organics, moist.	Glacial Drift
						4.5	5.75	Sandy, silty GRAVEL, trace clay, trace cobbles, subangular, clasts up to cobble size, well graded, non plastic, brown, moist.	
TP08-254	2,163,309	1,389,754	1,376	Area E	6	1	4.5	Gravelly, silty SAND, trace clay, trace cobbles, subangular to subrounded, well graded, low plasticity, brown, moist.	Glacial Drift
						4.5	6	Sandy GRAVEL, some cobbles, some silt, trace clay, subangular to subrounded, clasts up to cobble size, poorly graded, low plasticity, brown, moist.	
TP08-255	2,162,938	1,390,456	1,371	Area E	5.5	0	1.75	Cobbly, silty SAND, some gravel, subrounded to subangular, clasts up to cobble size, well graded, low plasticity, dark brown, vegetation roots, moist.	Topsoil
						1.75	3.25	Sandy GRAVEL, some silt, trace clay, trace cobble, subangular to subrounded, clasts up to cobble size, few lenses of orange-brown silt/clay, well graded, low plasticity, brown, moist.	Glacial Drift
						3.25	5.5	Sandy, silty GRAVEL, trace clay, subangular, clasts up to gravel size, well graded, low plasticity, brown, moist.	

Test Pit #	Coordinates <sup>A</sup>		Elevation (ft)	Location of Test Pit	Total Depth (ft)	From (ft)	To (ft)	Material <sup>B</sup>	Geomorphology
	Northing (ft)	Easting (ft)							
TP08-256	2,161,798	1,388,974	1,477	Area E	6	0	2	Gravelly, silty SAND, trace clay, trace cobbles, subangular to subrounded, clasts up to gravel size, well graded, low plasticity, dark brown, vegetation roots throughout, moist.	Topsoil
						2	4	Gravelly, silty SAND, trace clay, trace cobbles, subangular to subrounded, clasts up to cobble size, well graded, low plasticity, light brown, trace organics, moist.	Colluvium
						4	6	Gravelly, silty SAND, trace clay, trace cobbles, subangular to subrounded, clasts up to cobble size, gravel content increases with depth, well graded, low plasticity, brown, moist.	
TP08-257	2,161,316	1,388,050	1,591	Area E	5	0	1.25	Sandy GRAVEL, some silt, some cobbles and boulders, angular to subangular, clasts up to boulder size, well graded, non plastic, dark brown, root vegetation, moist.	Topsoil
						1.25	5	Sandy GRAVEL, some silt, some cobbles, trace clay, trace boulders, subangular, clasts up to boulder size, well graded, non plastic, brown, moist.	Colluvium
TP08-258	2,162,035	1,387,967	1,463	Area E	5.25	0	1.75	PEAT, some cobbles, subangular, dark brown, high organic content, moist.	Peat
						1.75	5.25	Silty SAND, some gravel, trace clay, trace cobbles, decreasing silt content with depth to 4', subangular, clasts up to cobble size, poorly graded, non plastic, brown, moist.	Colluvium
TP08-259	2,163,010	1,388,139	1,386	Area E	5	0.5	5	Gravelly, silty SAND, trace clay, trace cobbles, silt content decreases with depth, subangular to subrounded, clasts up to boulder size, well graded, non plastic, brown, trace organics, moist.	Colluvium
TP08-260	2,161,897	1,386,630	1,497	Area G	5.25	1	3	Sandy, silty GRAVEL, trace clay, mainly coarse gravel, trace cobbles, subangular, clasts up to cobble size, poorly graded, brown, trace organics, moist.	Colluvium
						3	5.25	Silty GRAVEL, some sand, some cobbles, trace clay, trace boulders, subangular, clasts up to boulder size, sand decreasing with depth, poorly graded, moist.	
TP08-261	2,162,264	1,384,827	1,398	Area G	3.75	0	1.5	PEAT, trace cobble and gravel, subangular, clasts up to cobble size, dark brown, smells organic, wet.	Peat
						1.5	3.75	Gravelly, silty SAND, trace clay, trace cobble, subangular, clasts up to cobble size, gap graded, low plasticity, grey, wet.	Colluvium
TP08-262	2,162,605	1,384,333	1,448	Area G	5.5	0	1.5	PEAT, some sand, some gravel, subangular to subrounded, clasts up to gravel size, dark brown, vegetation roots, moist.	Peat
						1.5	4	Silty SAND, trace gravel, trace clay, fine sand, subangular to subrounded, clasts up to gravel size, poorly graded, non plastic, brown to orange-brown, trace organics, moist.	Colluvium
						4	5.5	GRAVEL, some silt, some sand, some cobbles, trace clay, subangular to subrounded, clasts up to cobble size, gap graded, non plastic, brown, wet.	
TP08-263	2,160,794	1,383,597	1,464	Area G	5.5	0.5	4	Silty SAND, some gravel, trace clay, subangular to subrounded, clasts up to gravel size, poorly graded, non plastic, brown, trace organics, moist.	Colluvium
						4	5.5	Gravelly, silty SAND, some cobbles, trace clay, lacking coarse sand and fine gravels, subangular to subrounded, clasts up to cobble size, gap graded, non plastic, brown, wet.	
TP08-264	2,162,203	1,383,588	1,359	Area G	5	0	1.5	PEAT, highly organic, vegetation roots, smells organic, dark brown, moist.	Peat
						1.5	3	Sandy SILT, trace clay, highly organic, fine sand, subrounded to subangular, clasts up to sand size, poorly graded, low to no plasticity, brown, moist.	Colluvium
						3	5	Cobbly, sandy GRAVEL, some silt/clay, subrounded to subangular, clasts up to cobble size, poorly graded, non plastic, orange-brown, moist.	
TP08-265	2,161,327	1,382,497	1,397	Area G	5	1	1.5	Gravelly SAND, some silt, subangular, clasts up to gravel size, poorly graded, low to no plasticity, grey, moist.	Colluvium
						1.5	3	Silty, sandy GRAVEL, trace clay, trace cobbles, subangular, clasts up to cobble size, gap graded, low plasticity, grey, moist.	
						3	5	Gravelly COBBLES, some sand, some silt, trace clay, subangular, clasts up to cobble size, poorly graded, low plasticity, brown, wet.	Glacial Drift
TP08-266	2,163,286	1,378,896	1,477	Area G	5	0.5	5	Sandy SILT, some gravel, some clay, angular to subangular, clasts up to gravel size, poorly graded, no plasticity, dark brown, root inclusions, moist.	Colluvium
TP08-267	2,162,879	1,379,690	1,398	Area G	5.5	0.25	2.5	Sandy, silty GRAVEL, trace clay, subangular to subrounded, clasts up to gravel size, well graded, non plastic, brown, moist.	Glacial Drift
						2.5	5	Gravelly, silty SAND, trace clay, trace cobbles, sand coarsening with depth, subangular, clasts up to cobble size, well graded, non plastic, brown, moist.	
						5	5.5	Sandy, silty GRAVEL, trace clay, trace cobble, subangular, clasts up to cobble size, well graded, low plasticity, brown, moist.	
TP08-268	2,164,043	1,380,043	1,394	Area G	5	0.25	5	Silty GRAVEL, some sand, trace clay, trace cobbles, angular to subangular, clasts up to cobble size, gap graded, low plasticity, light brown, moist.	Glacial Drift

Test Pit #	Coordinates <sup>A</sup>		Elevation (ft)	Location of Test Pit	Total Depth (ft)	From (ft)	To (ft)	Material <sup>B</sup>	Geomorphology
	Northing (ft)	Easting (ft)							
TP08-269	2,164,254	1,381,536	1,318	Area G	5	0.25	5	Silty, sandy GRAVEL, trace clay, trace cobbles, sand content increases with depth, subangular, clasts up to cobble size, well graded, non plastic, brown, trace organics, moist.	Colluvium
TP08-270	2,163,301	1,381,327	1,247	Area G	4.25	0.5	4.25	GRAVEL, some sand, trace silt/clay, trace cobbles, few boulders, subangular, clasts up to boulder size, poorly graded, non plastic, brown, trace organics, moist.	Glaciofluvial
TP08-271	2,158,598	1,373,746	1,809	Area G	4.75	0	1.5	Gravelly SAND, some silt, some cobbles, some boulders, subangular, clasts up to boulder size, well graded, no to low plasticity, dark brown, vegetation roots, moist.	Topsoil
						1.5	4.75	Gravelly SAND, some silt, some cobbles, trace boulders, trace clay, subangular, clasts up to boulder size, well graded, low plasticity, brown, trace organics, moist.	Glacial Drift
TP08-272	2,161,017	1,374,017	1,648	Area G	2.25	1	2.25	COBBLES & BOULDERS, some silt, some sand, subangular to subrounded, clasts up to boulder size, gap graded, low plasticity, brown, some organics, moist.	Colluvium - Frost Wedged Bedrock
TP08-273	2,159,544	1,375,653	1,622	Area G	5	0.25	5	Sandy, clayey SILT, trace gravel, trace cobbles, subangular, clasts up to cobble size, poorly graded, low plasticity, brown, moist, increasing moisture content with depth, frozen at 4' depth to 5'.	Colluvium
TP08-274	2,159,882	1,376,750	1,499	Area G	5.5	0	1.25	PEAT, dark brown, high organic content, organic smell, moist.	Peat
						1.25	3.5	Silty SAND, fine to medium sand, trace gravel, trace clay, trace cobbles, trace boulders, subangular, clasts up to boulder size, poorly graded, non plastic, grey, moist.	Colluvium
						3.5	5.5	Silty SAND, some gravel, trace cobbles, trace clay, subangular, clasts up to cobble size, poorly graded, non plastic, brown to orange-brown, moist.	
TP08-275	2,158,418	1,376,999	1,543	Area G	5.5	1	3	Sandy, gravelly SILT, trace clay, trace cobbles, subangular, clasts up to cobble size, poorly graded, non plastic, brown, moist.	Colluvium
						3	5.5	Sandy, gravelly SILT, some cobbles, cobble content increases at bottom, rare boulder, trace clay, subangular, clasts up to boulder size, well graded, non plastic, brown, moist.	
TP08-276	2,157,723	1,378,004	1,399	Area G	5.5	0	1.5	PEAT, dark brown, vegetation roots, moist to wet.	Peat
						1.5	5	SAND, some silt, some gravel, trace clay, trace cobbles, gravel increases with depth, subrounded to subangular, clasts up to cobble size, poorly graded, non plastic, grey, trace organics, moist to wet.	Colluvium
						5	5.5	Silty SAND, trace clay, trace gravel, subangular to subrounded, clasts up to gravel size, poorly graded, non plastic, brown, trace organics, wet.	
TP08-277	2,160,269	1,378,734	1,354	Area G	5.5	0	2	PEAT, dark brown, vegetation roots, high organic content, smells organic, moist.	Peat
						2	3	GRAVEL, some silt, some sand, some clay, subangular to subrounded, clasts up to gravel size, gap graded, low to medium plasticity, grey, moist.	Colluvium
						3	5.5	GRAVEL, some sand, some silt, trace clay, subangular to subrounded, clasts up to gravel size, poorly graded, low plasticity, brown, moist to wet.	
TP08-278	2,158,175	1,383,626	1,530	Area G	5.75	0	1.75	Gravelly SAND, some silt, some cobbles, trace clay, subrounded to subangular, clasts up to cobble size, well graded, non plastic, dark brown, high organic content, root vegetation, moist to wet.	Topsoil
						1.75	5.75	Gravelly SAND, gravel decreasing slightly with depth, some silt, some cobbles, trace clay, fine and medium sand, subrounded to subangular, clasts up to cobble size, well graded, non plastic, grey to brown, moist to wet.	Glacial Drift
TP08-279	2,158,617	1,382,424	1,408	Area G	5	0.5	2.5	Sandy, gravelly SILT, trace clay, subangular to subrounded, clasts up to gravel size, poorly graded, non plastic, brown to orange-brown, moist.	Colluvium
						2.5	5	Silty, sandy GRAVEL, trace clay, trace cobbles, increasing gravel and cobble content with depth, subangular to subrounded, gap graded, non plastic, orange-brown, moist to wet.	
TP08-280	2,157,272	1,382,253	1,402	Area G	5.5	1	3	Sandy SILT, some gravel, trace clay, trace cobbles, subangular to subrounded, clasts up to cobble size, poorly graded, non plastic, brown, moist.	Colluvium
						3	5.5	Gravelly, silty SAND, fine and medium sand, trace clay, trace cobbles, subangular, clasts up to cobble size, gap graded, non plastic, orange-brown, moist to wet.	
TP08-281	2,156,651	1,383,093	1,495	Area G	2.5	0.25	2.5	SAND & GRAVEL, fine and medium sand, some silt, trace clay, trace cobbles, subangular to subrounded, clasts up to cobble size, gap graded, non plastic, brown, wet.	Glacial Drift
TP08-282	2,155,666	1,382,523	1,438	Area G	5.75	0.5	3.75	Sandy GRAVEL, some silt, trace clay, trace cobbles, coarse gravel, subangular, clasts up to cobble size, poorly graded, non plastic, brown, wet.	Glacial Drift
						3.75	5.75	Silty, gravelly SAND, some cobbles, trace clay, subangular to subrounded, clasts up to cobble size, gap graded, non plastic, orange-brown, moist to wet.	

Test Pit #	Coordinates <sup>A</sup>		Elevation (ft)	Location of Test Pit	Total Depth (ft)	From (ft)	To (ft)	Material <sup>B</sup>	Geomorphology
	Northing (ft)	Easting (ft)							
TP08-283	2,154,477	1,381,950	1,479	Area G	5.5	0	1.5	Silty SAND, trace fine gravel, trace clay, subangular, clasts up to gravel size, poorly graded, non plastic, dark brown, vegetation roots, moist.	Topsoil
						1.5	3.5	Silty SAND, some gravel, trace clay, subangular, clasts up to gravel size, poorly graded, non plastic, grey to brown, moist.	Colluvium
						3.5	5.5	Sandy, silty GRAVEL, trace clay, trace cobbles, subangular, clasts up to cobble size, gap graded, low plasticity, grey, moist.	Glacial Drift
TP08-284	2,155,297	1,381,011	1,448	Area G	5.25	0.5	5.25	Silty, sandy GRAVEL, gravel increasing with depth, trace clay, trace cobbles, subangular to subrounded, clasts up to cobble size, gap graded, non plastic, light brown, moist.	Glacial Drift
TP08-285	2,156,724	1,379,432	1,320	Area G	4.5	1	4.5	Gravelly, silty SAND, trace clay, trace cobbles, subangular to subrounded, clasts up to cobble size, well graded, brown, moist.	Glacial Drift
TP08-286	2,150,529	1,369,297	1,858	Area G	5.25	0.5	5.25	Silty, gravelly SAND, some cobbles, trace clay, trace boulders, subangular, clasts up to boulder size (2ft diam.), poorly graded, non plastic, brown, moist.	Colluvium
TP08-287	2,149,188	1,369,411	1,786	Area L	3	0.5	3	Gravelly SAND, some silt, trace clay, trace cobbles and trace boulders towards top of interval, subrounded to subangular, clasts up to boulder size, well graded, non plastic, brown, moist.	Colluvium
TP08-288	2,148,756	1,371,285	1,594	Area L	4	0	2	Sandy, gravelly SILT, trace clay, some cobbles, subangular to subrounded, clasts up to cobble size, poorly graded, non plastic, dark brown, vegetation roots, moist.	Topsoil
						2	4	Sandy, gravelly SILT, trace clay, trace cobbles, subangular to subrounded, clasts up to cobble size, poorly graded, non plastic, light brown, moist.	Colluvium
TP08-289	2,149,525	1,371,688	1,664	Area L	5	0.5	5	Sandy, silty GRAVEL, trace clay, trace cobbles, subangular to subrounded, clasts up to cobble size, well graded, low plasticity, light brown, moist.	Colluvium
TP08-290	2,148,509	1,373,746	1,569	Area L	5	1	2.5	Cobbly GRAVEL, trace sand, trace silt/clay, angular, clasts up to cobble size, poorly graded, non plastic, brown, damp.	Glacial Drift
						2.5	5	Silty, gravelly SAND, trace clay, trace cobbles, angular to subrounded, clasts up to cobble size, well graded, low to medium plasticity, light brown, moist.	
TP08-291	2,147,760	1,373,464	1,558	Area L	5	0.5	5	Gravelly SAND, some silt/clay, trace cobbles, cobbles increase with depth, angular to subrounded, clasts up to cobble size, well graded, non plastic, light brown, moist.	Glacial Drift
TP08-292	2,143,573	1,372,264	1,505	Area L	4	0.5	4	Sandy GRAVEL, some silt, trace clay, trace cobbles, trace boulders, sand content increases with depth and gravel/cobble content decreases with depth, angular to subangular, clasts up to boulder size, well graded, non plastic, brown, moist.	Glacial Drift
TP08-293	2,140,606	1,370,820	1,700	Area L	2	0	1.5	COBBLES and BOULDERS, some silt, some sand, subangular to subrounded, clasts up to boulder size, poorly graded, no to low plasticity, brown, vegetation roots, moist.	Topsoil
						1.5	2	Cobbly GRAVEL, some silt, some sand, trace clay, subrounded, clasts up to cobble size, poorly graded, low plasticity, brown, moist.	Colluvium
TP08-294	2,140,549	1,372,619	1,417	Area L	5	0.5	5	SAND and SILT, trace gravel, trace clay, trace cobbles at 3 ft, sand coarsening with depth, subrounded, clasts up to cobble size, poorly graded, non plastic, light brown, moist.	Colluvium
TP08-295	2,137,442	1,372,156	1,514	Area L	6	0.5	2.5	SAND and SILT, trace clay, trace gravel, subrounded to subangular, poorly graded, non plastic, light brown to orange brown, moist.	Colluvium
						2.5	6	GRAVEL and SAND, some silt/clay, trace cobbles, subangular, clasts up to cobble size, poorly graded, non plastic, light brown, moist.	Glacial Drift
TP08-296	2,142,327	1,376,718	1,313	Area L	5	1	3	Sandy GRAVEL, some silt, trace clay, trace cobbles, subangular, clasts up to cobble size, poorly graded, non plastic, brown, moist.	Glacial Drift
						3	5	Silty/clayey GRAVEL, some cobbles, some sand, mainly coarse gravel, subangular, clasts up to cobble size, poorly graded, non plastic, light brown, moist.	
TP08-297	2,140,641	1,376,805	1,108	Area L	4.5	0	0.5	Gravelly SAND, some silt, trace cobbles, fines content decreases with depth, subrounded, clasts up to cobble size, well graded, non plastic, dark brown, vegetation roots, moist.	Topsoil
						0.5	2.5	Gravelly SAND, some silt, trace cobbles, fines content decreases with depth, subrounded, clasts up to cobble size, well graded, non plastic, brown, moist.	Glacial Drift
						2.5	4.5	GRAVEL, some sand, some silt/clay, trace cobbles, subangular, clasts up to cobble size, poorly graded, non plastic, moist, water content decreases slightly with depth, moist to dry.	
TP08-298	2,139,690	1,375,321	1,105	Area L	6	0.5	3	SAND and GRAVEL, some silt, trace clay, trace cobbles, cobble content increases slightly with depth, subangular, clasts up to cobble size, well graded, non plastic, orange-brown with some grey layers, moist.	Glacial Drift
						3	6	Gravelly SAND, some silt, some cobbles, trace clay, subangular, clasts up to cobble size, well graded, low plasticity, grey, moist.	



Test Pit #	Coordinates <sup>A</sup>		Elevation (ft)	Location of Test Pit	Total Depth (ft)	From (ft)	To (ft)	Material <sup>B</sup>	Geomorphology
	Northing (ft)	Easting (ft)							
TP08-299	2,136,740	1,376,166	1,117	Area L	5	0.25	2	SAND, some gravel, trace silt, trace cobbles, fines content increases and sand content decreases with depth, subangular, clasts up to cobble size, poorly graded, no to low plasticity, grey-brown with some orange-brown layers, moist.	Colluvium
						2	5	Sandy SILT, some gravel, trace clay, subangular to subrounded, clasts up to gravel size, poorly graded, low plasticity, dark brown to orangey brown with one grey seam, moist.	
TP08-300	2,135,245	1,375,476	1,258	Area L	3	0.5	3	Silty, gravelly SAND, trace clay, trace cobbles, trace boulders, fine and medium sand, subangular, clasts up to cobble size, well graded, non plastic, brown, moist.	Glacial Drift
TP08-301	2,134,805	1,377,419	997	Area L	4.5	1	4.5	Silty, sandy GRAVEL, trace clay, some cobbles, gravel and cobbles increase at 2 ft depth, subrounded, clasts up to cobble size, gap graded, non plastic, light brown, damp.	Glacial Drift
TP08-302	2,134,775	1,380,137	1,233	Area L	4	0.25	4	Sandy SILT, some cobbles, some gravel, trace clay, trace boulders, many cobbles/boulders encountered at 3 ft depth, subangular, clasts up to boulder size, gap graded, non plastic, moist to wet.	Colluvium
TP08-303	2,134,692	1,378,729	1,049	Area L	6	0.5	3	Silty, gravelly SAND, trace clay, trace cobbles, gravel content increases at 2.5 ft depth, subangular, clasts up to cobble size, poorly graded, non plastic, orange-brown with some rusty layers, damp.	Glacial Drift
						3	6	Silty, gravelly SAND, trace clay, trace cobbles, subangular, clasts up to cobble size, poorly graded, non plastic, grey brown, damp.	
TP08-304	2,135,502	1,379,236	1,064	Area L	5	0.5	5	Silty, gravelly SAND, trace clay, trace cobble, subrounded, clasts up to cobble size, poorly graded, non plastic, brown to rust-brown, moist.	Colluvium
TP08-305	2,136,884	1,378,465	1,008	Area L	5	0	5	Sandy GRAVEL, some silt/clay, trace cobbles, trace boulders, sand coarsening with depth, subrounded, clasts up to boulder size, poorly graded, non plastic, brown-grey, moist.	Glacial Drift
TP08-306	2,139,143	1,377,888	1,118	Area L	5	0	0.5	Gravelly, silty SAND, trace clay, subangular, clasts up to gravel size, well graded, low plasticity, dark brown, root vegetation, moist.	Topsoil
						0.5	1.5	Gravelly, silty SAND, trace clay, subangular, clasts up to gravel size, well graded, non plastic, brown, moist.	Colluvium
						1.5	3	Sandy, gravelly SILT, trace clay, subangular, clasts up to gravel size, poorly graded, low plasticity, brown to orange-brown, moist.	
						3	5	GRAVEL and SAND, some silt, trace clay, trace cobbles, subrounded, clasts up to cobble size, well graded, low plasticity, grey, moist.	Glacial Drift
TP08-307	2,139,102	1,379,971	1,297	Area L	4	0.5	1.5	Gravelly, sandy SILT, trace clay, subangular, clasts up to gravel size, poorly graded, low plasticity, brown, moist.	Colluvium
						1.5	4	GRAVEL, some sand, trace silt/clay, trace cobbles, subangular, clasts up to cobble size, poorly graded, low plasticity, brown, moist.	Glacial Drift
TP08-308	2,141,003	1,383,325	1,386	Area L	5	0.5	5	Cobbly, sandy GRAVEL, some silt, trace clay, angular to subrounded, clasts up to cobble size, well graded, non plastic, grey-brown, moist.	Alluvium
TP08-309	2,141,256	1,384,140	1,584	Area L	4	0.5	3	Sandy GRAVEL, some silt, some cobbles, trace clay, subangular to subrounded, clasts up to cobble size, well graded, low plasticity, brown, moist.	Colluvium
						3	4	Gravelly SAND, some silt, trace clay, trace cobbles, subangular to subrounded, clasts up to cobble size, well graded, low plasticity, grey, moist to wet at bottom.	
TP08-310	2,141,476	1,385,357	1,822	Area L	5	0.5	5	Gravelly SAND, some silt, trace clay, trace cobbles, subrounded to rounded, clasts up to cobble size, well graded, brown to rust-brown, orange-brown silt/clay seam at approximately 4', moist.	Colluvium
TP08-311	2,139,954	1,384,521	1,645	Area L	5.5	0.25	3	Gravelly SAND, some silt, trace clay, trace cobbles, trace boulders, subrounded, clasts up to boulder size, well graded, low plasticity, brown, moist.	Colluvium
						3	5.5	SAND, some silt, some gravel, some clay, subrounded, clasts up to gravel size, poorly graded, low plasticity, grey, moist.	
TP08-312	2,139,095	1,383,947	1,491	Area L	5.5	0.25	5.5	Sandy, silty GRAVEL, trace clay, trace cobbles, subrounded to subangular, clasts up to cobble size, gap graded, non plastic, brown, moist to wet at bottom of interval.	Colluvium
TP08-313	2,137,975	1,383,234	1,400	Area L	5	0.5	5	Sandy GRAVEL, some silt, trace clay, trace cobbles, subangular, clasts up to cobble size, gap graded, medium plasticity, brown, moist to damp.	Colluvium
TP08-314	2,136,913	1,382,474	1,233	Area L	5	0.5	5	Gravelly, sandy SILT, trace clay, trace cobbles, angular to subangular, clasts up to cobble size, poorly graded, medium plasticity, brown, moist.	Colluvium
TP08-315	2,132,487	1,378,471	971	Area L	4.5	0	4.5	Sandy GRAVEL, sand lense at 4 ft, trace silt/clay, trace cobbles, subrounded, clasts up to cobble size, poorly graded, non plastic, brown-grey, moist.	Glacial Drift

Test Pit #	Coordinates <sup>A</sup>		Elevation (ft)	Location of Test Pit	Total Depth (ft)	From (ft)	To (ft)	Material <sup>B</sup>	Geomorphology
	Northing (ft)	Easting (ft)							
TP08-316	2,131,004	1,378,312	846	Area L	6	0.5	5	Sandy SILT, trace clay, fine sand, some thin sandy layers, trace gravel, subrounded, rare clasts up to gravel size, poorly graded, non plastic, brown, moist.	Colluvium
						5	6	Silty SAND, trace clay, fine and medium sand, trace gravel, subangular to subrounded, rare clasts up to gravel size, poorly graded, non plastic, brown, moist.	
TP08-317	2,144,498	1,407,731	1,516	Area A, Upper Side Slopes	4	0	2	Sandy GRAVEL, some silt, some cobbles, trace boulders, trace clay, angular to subangular, clasts up to boulder size, gap graded, non plastic, dark brown, vegetation roots, moist.	Topsoil
						2	4	Sandy GRAVEL, some silt, some cobbles, trace boulders, trace clay, angular to subangular, clasts up to boulder size, gap graded, non plastic, brown, moist.	Colluvium
TP08-318	2,143,580	1,409,536	1,246	Area A, Upper Side Slopes	4	0.5	1	SILT, some cobbles, some sand, angular to subangular, clasts up to cobble size, gap graded, low to medium plasticity, brown, moist to wet.	Colluvium
						1	4	Clayey SILT, some sand, trace gravel, subrounded, clasts up to gravel size, poorly graded, medium plasticity, brown, moist to wet, water seeping into test pit from sand layer at 3ft.	

**NOTES:**      A) NAD 83, Alaska State Planes, Zone 5; coordinates obtained from handheld GPS.  
                  B) 0.0 to X.X feet (ft) is topsoil/surface organic material — the descriptions are usually not included in this table, consult individual test pit logs for details.  
                  C) No test pits were excavated in 2006 or 2007.

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## Preliminary Results

Drillhole #	Coordinates			Drill Hole Size	Total Depth	Depth to Highly Weathered	Depth to Moderately Weathered	Standard Penetration Test/Overburden GRAB					Preliminary Lithology
	N	W	Elev.					SPT/ Shelby Sample #	Test Interval		Recovery	Est. N Value	
	(°)	(°)	(ft)						From (ft)	To (ft)			
GH18-387S	59.89473	155.33490	1480	6" casing to 60', HWT to 63.5', HQ to 191.6'	191.6	53	65	SPT #1	0.0	2.0	12.0	16	Kaskanak Batholith
								SPT #2	5.0	7.0	13.0	17	
								SPT #3	10.0	12.0	3.0	15	
								SPT #4	15.0	17.0	10	23	
								SPT #5	20.0	22.0	13.0	50	
								SPT #6	25.0	27.0	17.0	47	
								SPT #7	30.0	32.0	16.5	48	
								SPT #8	35.0	37.0	12.0	39	
								SPT #9	40.0	42.0	19.5	28	
								SPT #10	45.0	47.0	19.0	21	
								SPT #11	50.0	52.0	14.0	63	
								SPT #12	55.0	20.0	21.5	89	
								SPT #13	60.0	61.3	13.0	Refusal	
								GRAB #1	18.0	19.0	-	-	
								GRAB #2	28.0	30.0	-	-	
GRAB #3	44.0	45.0	-	-									
GRAB #4	57.0	58.5	-	-									
GH18-388S	59.92327	155.40125	1132	6" casing to 35', HWT to 49.5', HQ to 121.5'	121.5	47	56	SPT #1	0.0	2.0	4.0	14	Basalt/ Gabbro
								SPT #2	5.0	7.0	20.0	35	
								SPT #3	10.0	12.0	12.0	69	
								SPT #4	15.0	17.0	7.0	23	
								SPT #5	20.0	22.0	18.0	23	
								SPT #6	25.0	27.0	12.5	52	
								SPT #7	30.0	31.9	15.0	Refusal	
								GRAB #1	1	2	-	-	
								GRAB #2	3.9	5.0	-	-	
								GRAB #3	8.5	10.0	-	-	
								GRAB #4	13.0	15.0	-	-	
								GRAB #5	24.0	25.0	-	-	
								GRAB #6	28.5	30.0	-	-	

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## Preliminary Results

Drillhole #	Coordinates			Drill Hole Size	Total Depth	Depth to Highly Weathered	Depth to Moderately Weathered	Standard Penetration Test/Overburden GRAB					Preliminary Lithology
	N	W	Elev.					SPT/ Shelby Sample #	Test Interval		Recover y	Est. N Value	
	(°)	(°)	(ft)						From (ft)	To (ft)			
GH18-389S	59.91639	155.37251	1243	6" casing to 35', HWT to 35.5', HQ to TBD'	TBD	41.3	41.5	SPT #1	0.0	2.0	9.0	13	Granodiorite
								SPT #2	5.0	7.0	19.2	18	
								SPT #3	9.0	11.0	21.0	29	
								SPT #4	14.5	16.5	11.5	20	
								SPT #5	20.0	22.0	17.5	31	
								SPT #6	25.0	27.0	16.0	30	
								SPT #7	30.0	30.5	5.0	Refusa l	
								SPT #8	35.0	35.5	0.0	Refusa l	
								GRAB #1	7.0	9.0	-	-	
								GRAB #2	18.6	20.0	-	-	
GRAB #3	27.0	29.0	-	-									
GH18-390S	59.92548	155.37753	1102	6" casing to 30 ft, HWT to 32 ft, HQ to 106.5 ft	106.5	16	30	SPT #1	0.0	2.0	22.0	6	Granodiorite
								SPT #2	5.0	7.0	21.0	29	
								SPT #3	10.0	10.8	9.0	Refusa l	
								SPT #4	15.0	17.0	16.0	36	
								SPT #5	20.0	20.7	6.0	Refusa l	
								SPT #6	25.0	25.5	6.0	Refusa l	
								SPT #7	30.0	30.3	4.0	Refusa l	
								GRAB #1	6.5	8.0	-	-	
								GRAB #2	18.5	19.0	-	-	
								UCS #01	37.2	38.1	-	-	
								UCS #02	61.5	62.3	-	-	
								UCS #03	78.4	79.7	-	-	
								GH18-391	59.89529	155.39064	1923	PQ Casing to 19.5 ft, HQ3 to 201 ft	
UCS #2	5.0	7.0	19.2	18									
UCS #3	9.0	11.0	21.0	29									
UCS #4	14.5	16.5	11.5	20									

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## Preliminary Results

Drillhole #	Coordinates			Drill Hole Size	Total Depth	Depth to Highly Weathered	Depth to Moderately Weathered	Standard Penetration Test/Overburden GRAB					Preliminary Lithology	
	N	W	Elev.					SPT/ Shelby Sample #	Test Interval		Recovery	Est. N Value		
	(°)	(°)	(ft)						From (ft)	To (ft)				(in)
GH18-392S	59.92592	155.40785	1106	6" casing to 71.5 ft, HWT to 72.5 ft, HQ3 to TBD	146.5	30	86	SPT #1	0.0	2.0	20.0	24	Tertiary Volcaniclastic Breccia/Conglomerate	
								SPT #2	5.0	7.0	21.0	19		
								SPT #3	10.0	12.0	17.0	24		
								SPT #4	15.0	17.0	12.0	18		
								SPT #5	20.0	22.0	9.0	41		
								SPT #6	25.0	26.5	10.0	Refusal		
								SPT #7	30.0	31.0	12.0	Refusal		
								SPT #8	35.0	35.5	6.0	Refusal		
								SPT #9	40.0	40.5	6.0	Refusal		
								SPT #10	45.0	45.5	6.0	Refusal		
								SPT #11	50.0	50.5	6.0	Refusal		
								SPT #12	55.0	55.5	6.0	Refusal		
								SPT #13	60.0	60.5	6.0	Refusal		
								SPT #14	65.0	65.3	4.0	Refusal		
								GRAB #1	2.5	4.5	-	-		
								GRAB #2	8.0	10.0	-	-		
								GRAB #3	16.0	17.0	-	-		
								GRAB #4	26.0	27.0	-	-		
								GRAB #5	41.5	43.0	-	-		
								GRAB #6	53.0	54.0	-	-		
								GRAB #7	56.0	57.5	-	-		
								GRAB #8	65.0	67.0	-	-		
								UCS #01	113.0	114.0	-	-		
UCS #02	137.8	138.8	-	-										
GH18-393	59.89443	155.47017	2097	PQ Casing to 14 ft, HQ3 to 203 ft	203	1	3	UCS #1	-	-	-	-	Granodiorite	
								UCS #2	-	-	-	-		
								UCS #2	-	-	-	-		

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## Preliminary Results

Drillhole #	Coordinates			Drill Hole Size	Total Depth	Depth to Highly Weathered	Depth to Moderately Weathered	Standard Penetration Test/Overburden GRAB					Preliminary Lithology
	N	W	Elev.					SPT/ Shelby Sample #	Test Interval		Recover y (in)	Est. N Value	
	(°)	(°)	(ft)						From (ft)	To (ft)			
GH18-394S	59.92335	155.41428	1171	No 6" casing, HWT to 7.1 ft, HQ to 76.5 ft	76.5	3	4	SPT #1	0.0	2.0	9.5	3	Tertiary basalt and flow breccia
								SPT #2	2.0	5.0	1.0	Refusa l	
								UCS #1	20.1	21.4	-	-	
								UCS #2	57.3	58.2	-	-	
								UCS #3	71.5	72.9	-	-	
GH18-395S	59.92477	155.40662	1198	6" casing to 30 ft, HQ3 TO 141.5 ft	141.5	30	76	SPT #1	0.0	2.0	24.0	23	Tertiary Basalt
								SPT #2	5.0	7.0	10.0	44	
								SPT #3	10.0	12.0	11.0	16	
								SPT #4	15.0	17.0	15.0	24	
								SPT #5	20.0	22.0	16.0	46	
								SPT #6	25.0	27.0	22.0	80	
								SPT #7	30.0	30.5	0.0	Refusa l	
								GRAB #1	0.0	2.0	-	-	
								GRAB #2	12.0	13.5	-	-	
GH18-396S	59.92629	155.40990	1063	6" casing to 30 ft, 4.5" Flat-face sonic bit to 190 ft	190	30	75	UCS #1	128.0	129.0	-	-	Volcaniclastic Breccia and Basalt flows
								SPT #1	0.0	2.0	19.5	15	
								SPT #2	5.0	7.0	17.0	32	
								SPT #3	10.0	12.0	16.5	74	
								SPT #4	15.0	17.0	2.5	Refusa l	
								SPT #5	20.0	22.0	17.0	37	
								SPT #6	25.0	27.0	3.5	Refusa l	
								SPT #7	29.0	31.0	0.0	Refusa l	
								SPT #8	35.0	37.0	18.0	Refusa l	
								GRAB #1	19.0	20.0	-	-	
								Airlift Test 1	-	-	-	-	
								Airlift Test 2	-	-	-	-	
								Airlift Test 3	-	-	-	-	

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## Preliminary Results

Drillhole #	Coordinates			Drill Hole Size	Total Depth	Depth to Highly Weathered	Depth to Moderately Weathered	Standard Penetration Test/Overburden GRAB					Preliminary Lithology
	N	W	Elev.					SPT/ Shelby Sample #	Test Interval		Recovery (in)	Est. N Value	
	(°)	(°)	(ft)						From (ft)	To (ft)			
GH18-397	59.89916	155.49272	2022	PQ Casing to 20 ft, HQ3 to TBD	201	N/A	9	UCS #1	47.7	48.8	TBD	TBD	Granodiorite
								UCS #2	133.9	135.2	TBD	TBD	
								UCS #3	169.9	171.2	TBD	TBD	
GH18-398S	59.92636	155.40991	1116	6" Casing to 30 ft, HQ3 to 101.5 ft (EOH), reamed to 101.5 ft with 4.5" Flat-faced sonic bit.	101.5	30	61	SPT #1	0.0	2.0	20.0	6	Volcaniclastic Breccia and Basalt flows
								SPT #2	5.0	7.0	17.5	14	
								SPT #3	10.0	12.0	11.0	46	
								SPT #4	15.0	15.3	1.5	Refusal	
								SPT #5	20.0	22.0	17.5	41	
								SPT #6	25.0	25.8	10.0	Refusal	
								SPT #7	30.0	30.3	3.5	Refusal	
								GRAB #1	4.0	5.0	-	-	
								GRAB #2	8.0	10.0	-	-	
								GRAB #3	12.0	14.0	-	-	
GH18-399S	59.92603	155.40749	1077	6" Casing to 25 ft, HWT to 29.5 ft, HQ3 to 141.5 ft (EOH)	141.5	17	28	SPT #1	0.0	2.0	14.0	27	Volcaniclastic Breccia and Basalt
								SPT #2	5.0	7.0	21.0	14	
								SPT #3	10.0	12.0	9.0	40	
								SPT #4	15.0	17.0	13.0	19	
								SPT #5	20.0	21.9	15.0	Refusal	
								SPT #6	25.0	26.0	12.0	Refusal	
								SPT #7	28.0	28.1	1.0	Refusal	
								GRAB #1	1.5	4.0	-	-	
								GRAB #2	8.0	10.0	-	-	
								GRAB #3	12.5	15.0	-	-	
GH18-400	59.89941	155.45226	1831	HWT casing to 65 ft, HQ3	250	48	68	UCS #1	94.7	95.7	TBD	TBD	Granodiorite
								UCS #2	119.0	120.0	TBD	TBD	

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## Preliminary Results

Drillhole #	Coordinates			Drill Hole Size	Total Depth	Depth to Highly Weathered	Depth to Moderately Weathered	Standard Penetration Test/Overburden GRAB					Preliminary Lithology
	N	W	Elev.					SPT/ Shelby Sample #	Test Interval		Recovery y (in)	Est. N Value	
	(°)	(°)	(ft)						From (ft)	To (ft)			
GH18-401S	59.93326	155.36990	1119	6" Casing to 40 ft, HWT to 50 ft, HQ3 to 171, HWT over drilled to 171 ft	171	46	56	SPT #1	0.0	2.0	16.0	29	Basalt
								SPT #2	5.0	7.0	19.0	37	
								SPT #3	10.0	12.0	11.0	54	
								SPT #4	15.0	17.0	17.0	10	
								SPT #5	20.0	22.0	18.0	16	
								SPT #6	25.0	27.0	10.0	24	
								SPT #7	30.0	32.0	0.0	21	
								SPT #8	35.0	37.0	20.0	70	
								GRAB #1	7.5	9.5	-	-	
								GRAB #2	12.0	15.0	-	-	
								GRAB #3	17.5	20.0	-	-	
								GRAB #4	27.5	29.5	-	-	
GH18-402	59.90042	155.43907	1629	HWT casing to 9 ft, HQ3 to 252 ft	252	9	9	UCS #1	128.7	129.7	-	-	Granodiorite
								UCS #1	34.0	35.4	TBD	TBD	
								UCS #2	92.0	93.3	TBD	TBD	
								UCS #3	135.0	136.0	TBD	TBD	
GH18-403S	59.93322	155.36992	1109	6" Casing to 55 ft, 4.5" Flat face bit to 150 ft	150	45	-						Basalt
GH18-404	59.90042	155.43907	1629	6" casing to 55 ft, HQ3 to 252 ft	252	9	9	UCS #1	34.0	35.4	TBD	TBD	Granodiorite
								UCS #2	92.0	93.3	TBD	TBD	
								UCS #3	135.0	136.0	TBD	TBD	



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## Preliminary Results

Drillhole #	Coordinates			Drill Hole Size	Total Depth	Depth to Highly Weathered	Depth to Moderately Weathered	Standard Penetration Test/Overburden GRAB					Preliminary Lithology
	N	W	Elev.					SPT/ Shelby Sample #	Test Interval		Recovery y (in)	Est. N Value	
	(°)	(°)	(ft)						From (ft)	To (ft)			
GH18-405S	59.93326	155.36990	1119	6" Casing to 40 ft, HWT to 50 ft, HQ3 to 171, HWT over drilled to 171 ft	171	36.3	56	SPT #1	0.0	2.0	16.0	29	Basalt
								SPT #2	5.0	7.0	19.0	37	
								SPT #3	10.0	12.0	11.0	54	
								SPT #4	15.0	17.0	17.0	10	
								SPT #5	20.0	22.0	18.0	16	
								SPT #6	25.0	27.0	10.0	24	
								SPT #7	30.0	32.0	0.0	21	
								SPT #8	35.0	37.0	20.0	70	
								GRAB #1	7.5	9.5	-	-	
								GRAB #2	12.0	15.0	-	-	
								GRAB #3	17.5	20.0	-	-	
								GRAB #4	27.5	29.5	-	-	
								GRAB #5	30.0	32.0	-	-	
UCS #1	128.7	129.7	-	-									
GH18-406S	59.92593	155.40754	1106	6" Casing to 30 ft, HWT to 32.5 ft, HQ3 to 151.5 ft	151.5	26	30	UCS #1	118.8	120.1	-	-	Basalt
GH18-407S	59.92908	155.38058	334	6" Casing to 55.5 ft, HWT to 56.5 ft, HQ3 to 201.5 ft	201.5	50	55	SPT #1	0.0	2.0	14.0	5	Basalt
								SPT #2	5.0	7.0	17.0	17	
								SPT #3	10.0	12.0	16.0	Refusa l	
								SPT #4	15.0	17.0	16.0	20	
								SPT #5	20.0	22.0	10.0	25	
								SPT #6	25.0	25.8	5.0	Refusa l	
								SPT #7	30.0	32.0	16.5	40	
								SPT #8	35.0	37.0	15.5	34	
								SPT #9	40.0	42.0	9.5	18.0	
								SPT #10	45.0	47.0	15.0	32.0	
								SPT #11	50.0	51.2	12.0	Refusa l	
								GRAB #1	19.2	20.0	-	-	
								GRAB #2	29.0	30.0	-	-	
UCS #1	195.1	196.5	-	-									

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## Preliminary Results

Drillhole #	Coordinates			Drill Hole Size	Total Depth	Depth to Highly Weathered	Depth to Moderately Weathered	Standard Penetration Test/Overburden GRAB					Preliminary Lithology
	N	W	Elev.					SPT/ Shelby Sample #	Test Interval		Recovery	Est. N Value	
	(°)	(°)	(ft)						From (ft)	To (ft)			
GH18-408S	59.92902	155.38040	329	6" Casing to 70 ft, HWT to 70.5 ft, HQ3 to 90 ft	90.0	67	70	-	-	-	-	-	Basalt
GH18-409S	59.92993	155.37622	337	6" Casing to 15.5 ft, HWT to 16.5 ft, HQ3 to 101.6 ft	101.6	16	32.5	SPT #1	0.0	2.0	23.0	51	Basalt
								SPT #2	5.0	7.0	18.0	61	Basalt
								SPT #3	10.0	11.5	17.0	Refusa 	
								SPT #4	15.0	16.3	15.0	Refusa 	
								GRAB #1	5.0	6.4	-	-	
GH18-410S	59.92999	155.35976	345	6" Casing to 50.5 ft, HWT to 51.5 ft, HQ3 to 116.5 ft	116.5	47	51	SPT #1	0.0	2.0	13.5	6	Gabbro
								SPT #2	5.0	7.0	14.0	22	
								SPT #3	10.0	12.0	12.0	72	
								SPT #4	15.0	17.0	10.0	23	
								SPT #5	20.0	22.0	10.5	20	
								SPT #6	25.0	27.0	12.0	Refusa 	
								SPT #7	27.0	29.0	0.5	Refusa 	
GH18-411S	59.93002	155.35956	314	6" Casing to 45.5 ft, HWT to 46.5 ft, HQ3 to 115 ft	115	41	45	SPT #1	0.0	2.0	14.0	12	Gabbro
								SPT #2	5.0	7.0	21.0	34	
								SPT #3	10.0	12.0	13.0	27	
								SPT #4	15.0	17.0	11.0	22	
								SPT #5	20.0	22.0	8.0	12	
								SPT #6	25.0	27.0	2.0	19	
								SPT #7	30.0	32.0	10.5	11	
								SPT #8	35.0	35.5	5.0	Refusa 	
								SPT #9	40.0	40.3	0.0	Refusa 	
GRAB #1	43.5	45.0	-	-									

# 2018 PLP Drill Program

## Preliminary Results

Drillhole #	Coordinates			Drill Hole Size	Total Depth	Depth to Highly Weathered	Depth to Moderately Weathered	Standard Penetration Test/Overburden GRAB					Preliminary Lithology
	N	W	Elev.					SPT/ Shelby Sample #	Test Interval		Recovery	Est. N Value	
	(°)	(°)	(ft)						From (ft)	To (ft)			
GH18-412S	59.92913	155.92913	332	6" Casing to 60.5 ft, HWT to 61.5 ft, HQ3 to 121.5 ft	121.5	58	60	SPT #1	0.0	2.0	10.5	8	Gabbro
								SPT #2	5.0	7.0	13.0	24	
								SPT #3	10.0	12.0	11.5	14	
								SPT #4	15.0	17.0	2.0	20	
								SPT #5	20.0	22.0	9.5	17	
								SPT #6	25.0	27.0	0.5	20	
								SPT #7	30.0	32.0	9.0	21	
								SPT #8	35.0	37.0	12.5	25	
								SPT #9	40.0	42.0	14.0	37	
								SPT #10	45.0	47.0	16.0	43	
								SPT #11	50.0	52.0	16.0	38	
								SPT #12	55.0	57.0	13.0	49	
								GRAB #1	29.0	30.0	-	-	
								GRAB #2	37.5	39.0	-	-	
GH18-413S	59.93015	-155.93015	391	6" Casing to 90 ft, HWT to 92 ft, HQ3 to 240.5 ft	240.5	85	90	SPT #1	0.0	2.0	14	14	Granodiorite
								SPT #2	5.0	7.0	24	35	
								SPT #3	10.0	12.0	19	45	
								SPT #4	15.0	17.0	21	96	
								SPT #5	20.0	22.0	24	90	
								SPT #6	25.0	27.0	20	43	
								SPT #7	30.0	32.0	24	40	
								SPT #8	35.0	36.3	13	Refusa I	
								SPT #9	40.0	42.0	15	82	
								SPT #10	45.0	45.9	11	Refusa I	
								SPT #11	50.0	51.4	16	Refusa I	
								SPT #12	55.0	57.0	18	41	
								SPT #13	60.0	61.4	16	Refusa I	
								SPT #14	65.0	67.0	23	49	
								SPT #15	70.0	72.0	16	63	
								SPT #16	75.0	77.0	24	50	
								SPT #17	80.0	81.3	25	Refusa I	
								SPT #18	85.0	85.3	5	Refusa I	
								SPT #19	90.0	96.5	6.5	Refusa I	
								GRAB #1	9.0	10.0	-	-	
								GRAB #2	19.0	20.0	-	-	
								GRAB #3	21.5	23.5	-	-	
								GRAB #4	37.0	38.5	-	-	
								GRAB #5	46.0	48.5	-	-	
GRAB #6	57.0	59.0	-	-									
GRAB #7	66.0	68.0	-	-									
GRAB #8	82.0	84.0	-	-									

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## Preliminary Results

Drillhole #	Coordinates			Drill Hole Size	Total Depth	Depth to Highly Weathered	Depth to Moderately Weathered	Standard Penetration Test/Overburden GRAB					Preliminary Lithology
	N	W	Elev.					SPT/ Shelby Sample #	Test Interval		Recovery y (in)	Est. N Value	
	(°)	(°)	(ft)						From (ft)	To (ft)			
GH18-414S	59.90398	-155.33859	299	HQ3	161.7	39	77	SPT #1	0.0	2.0	4	1	Granodiorite
								SPT #2	5.0	7.0	15	11	
								SPT #3	10.0	12.0	11	18	
								SPT #4	15.0	17.0	11	11	
								SPT #5	20.0	22.0	16	10	
								SPT #6	25.0	27.0	19	14	
								SPT #7	30.0	32.0	13	12	
								SPT #8	35.0	37.0	21	37	
								SPT #9	40.0	41.9	20	Refusal	
								SPT #10	45.0	46.3	16	Refusal	
								GRAB #1	5.5	6.5	-	-	
								GRAB #2	17	19	-	-	
								GRAB #3	32	34	-	-	
								UCS #1	88.3	89	-	-	
								UCS #2	92	92.7	-	-	