



LABERGE ENVIRONMENTAL
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Date Received: 16-SEP-16
Report Date: 21-DEC-16 09:03 (MT)
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Client Phone: 867-668-6838

Certificate of Analysis

Lab Work Order #: L1829672
Project P.O. #: NOT SUBMITTED
Job Reference: CLINTON CREEK
C of C Numbers: 14-470676, 14-470677, 14-470939
Legal Site Desc:

Comments: ADDITIONAL 21-OCT-16 13:36

Taryn Williams, B.Sc.
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ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1829672-1 SOIL 06-SEP-16 E-1A	L1829672-2 SOIL 06-SEP-16 E-1B	L1829672-3 SOIL 06-SEP-16 E-1C	L1829672-4 SOIL 06-SEP-16 E-2A	L1829672-5 SOIL 06-SEP-16 E-2B
Grouping	Analyte					
BULK						
Asbestos/Quartz/ Other Fibres	Asbestos: Actinolite (%) Asbestos By Point Count (%) Other Fibres: Cellulose (%) Asbestos: Chrysotile (%) Other Fibres: MMVF (%) Mica (%) Asbestos: Tremolite (%)	 1-5 1-5 Trace <1	 1-5 1-5 Trace <1	 Trace <1 1-5 Trace <1	 Trace <1 1-5 Trace <1	 1-5 Trace <1

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1829672-6	L1829672-7	L1829672-8	L1829672-9	L1829672-10
Description	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Sampled Date	06-SEP-16	06-SEP-16	06-SEP-16	06-SEP-16	06-SEP-16	06-SEP-16
Sampled Time						
Client ID	E-2C	E-3A	E-3B	E-3C	E-4A	
Grouping	Analyte					
BULK						
Asbestos/Quartz/ Other Fibres	Asbestos: Actinolite (%) Asbestos By Point Count (%) Other Fibres: Cellulose (%) Asbestos: Chrysotile (%) Other Fibres: MMVF (%) Mica (%) Asbestos: Tremolite (%)	 1-5 Trace <1	 1-5 1-5 1-5	 1-5 Trace <1 1-5	 1-5 1-5 Trace <1	 1-5 1-5 Trace <1

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1829672-11 SOIL 06-SEP-16 E-4B	L1829672-12 SOIL 06-SEP-16 E-4C	L1829672-13 SOIL 06-SEP-16 E-8A	L1829672-14 SOIL 06-SEP-16 E-8B	L1829672-15 SOIL 06-SEP-16 E-8C
Grouping	Analyte					
BULK						
Asbestos/Quartz/ Other Fibres	Asbestos: Actinolite (%)			0.10	0.10	0.10
	Asbestos By Point Count (%)					
	Other Fibres: Cellulose (%)			1-5	1-5	1-5
	Asbestos: Chrysotile (%)	1-5	1-5	0.10		
	Other Fibres: MMVF (%)			Trace <1	Trace <1	Trace <1
	Mica (%)	1-5	Trace <1	1-5	1-5	1-5
	Asbestos: Tremolite (%)					0.10

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1829672-16 SOIL 06-SEP-16 PORCUPINE CR-A	L1829672-17 SOIL 06-SEP-16 PORCUPINE CR-B	L1829672-18 SOIL 06-SEP-16 PORCUPINE CR-C	L1829672-19 SOIL 06-SEP-16 R-1A	L1829672-20 SOIL 06-SEP-16 R-1B
Grouping	Analyte					
BULK						
Asbestos/Quartz/ Other Fibres	Asbestos: Actinolite (%) Asbestos By Point Count (%) Other Fibres: Cellulose (%) Asbestos: Chrysotile (%) Other Fibres: MMVF (%) Mica (%) Asbestos: Tremolite (%)	 1-5 Trace <1	 1-5 Trace <1	 1-5 Trace <1	 <0.10 Trace <1 Trace <1 1-5	 <0.10 Trace <1 1-5

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1829672-21 SOIL 06-SEP-16 R-1C	L1829672-22 SOIL 06-SEP-16 R-2A	L1829672-23 SOIL 06-SEP-16 R-2B	L1829672-24 SOIL 06-SEP-16 R-2C	L1829672-25 SOIL 06-SEP-16 R-3A
Grouping	Analyte					
BULK						
Asbestos/Quartz/ Other Fibres	Asbestos: Actinolite (%) Asbestos By Point Count (%) Other Fibres: Cellulose (%) Asbestos: Chrysotile (%) Other Fibres: MMVF (%) Mica (%) Asbestos: Tremolite (%)	 <0.10 Trace <1 Trace <1 1-5	 0.10 1-5 Trace <1 1-5	 0.10 Trace <1 Trace <1 1-5	 <0.10 Trace <1 Trace <1 1-5	 1-5 1-5 Trace <1 1-5

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1829672-26 SOIL 06-SEP-16 R-3B	L1829672-27 SOIL 06-SEP-16 R-3C	L1829672-28 SOIL 06-SEP-16 R-4A	L1829672-29 SOIL 06-SEP-16 R-4B	L1829672-30 SOIL 06-SEP-16 R-4C
Grouping	Analyte					
BULK						
Asbestos/Quartz/ Other Fibres	Asbestos: Actinolite (%) Asbestos By Point Count (%) Other Fibres: Cellulose (%) Asbestos: Chrysotile (%) Other Fibres: MMVF (%) Mica (%) Asbestos: Tremolite (%)	 <.1 Trace <1 Trace <1 1-5	 1-5 0.10 1-5	 0.20 1-5	 <0.10 Trace <1 1-5	 0.10 Trace <1 1-5

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1829672-31 SOIL 06-SEP-16 R-6A	L1829672-32 SOIL 06-SEP-16 R-6B	L1829672-33 SOIL 06-SEP-16 R-6C	L1829672-34 SOIL 06-SEP-16 E-6A	L1829672-35 SOIL 06-SEP-16 E-6B
Grouping	Analyte					
BULK						
Asbestos/Quartz/ Other Fibres	Asbestos: Actinolite (%) Asbestos By Point Count (%) Other Fibres: Cellulose (%) Asbestos: Chrysotile (%) Other Fibres: MMVF (%) Mica (%) Asbestos: Tremolite (%)	 Trace <1 0.10 Trace <1	 <0.10 Trace <1 Trace <1 1-5	 <0.10 Trace <1 Trace <1 1-5	 Trace <1 0.50 1-5	 0.80 1-5

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID	L1829672-36			
	Description	SOIL			
	Sampled Date	06-SEP-16			
	Sampled Time				
	Client ID	E-6C			
Grouping	Analyte				
BULK					
Asbestos/Quartz/ Other Fibres	Asbestos: Actinolite (%)				
	Asbestos By Point Count (%)				
	Other Fibres: Cellulose (%)				
	Asbestos: Chrysotile (%)	1-5			
	Other Fibres: MMVF (%)				
	Mica (%)	5-10			
	Asbestos: Tremolite (%)				

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1829672-19 SOIL 06-SEP-16 R-1A	L1829672-20 SOIL 06-SEP-16 R-1B	L1829672-21 SOIL 06-SEP-16 R-1C	L1829672-24 SOIL 06-SEP-16 R-2C	L1829672-26 SOIL 06-SEP-16 R-3B
Grouping	Analyte					
SOIL						
Physical Tests	Loss On Ignition @ 420 C (%)	6	9	14	6	6
Particle Size	% Gravel (>2mm) (%)	<1.0	<1.0	<1.0	<1.0	8.1
	% Sand (2.00mm - 1.00mm) (%)	1.3	<1.0	<1.0	<1.0	<1.0
	% Sand (1.00mm - 0.50mm) (%)	1.9	<1.0	<1.0	<1.0	<1.0
	% Sand (0.50mm - 0.25mm) (%)	5.9	<1.0	<1.0	<1.0	<1.0
	% Sand (0.25mm - 0.125mm) (%)	9.5	1.1	<1.0	<1.0	<1.0
	% Sand (0.125mm - 0.063mm) (%)	9.4	7.2	3.7	13.0	<1.0
	% Silt (0.063mm - 0.0312mm) (%)	33.3	40.2	40.9	39.6	34.3
	% Silt (0.0312mm - 0.004mm) (%)	34.2	45.5	48.7	41.0	47.3
	% Clay (<4um) (%)	3.8	5.8	6.3	5.5	9.4
	Texture	Silt loam	Silt	Silt	Silt loam / Silt	Silt
Metals	Aluminum (Al) (mg/kg)	10300	11000	11100	11800	12700
	Antimony (Sb) (mg/kg)	1.48	1.33	1.35	1.42	0.80
	Arsenic (As) (mg/kg)	13.2	10.9	11.6	11.2	7.95
	Barium (Ba) (mg/kg)	172	228	269	265	419
	Beryllium (Be) (mg/kg)	0.32	0.36	0.39	0.36	0.38
	Bismuth (Bi) (mg/kg)	<0.20	<0.20	<0.20	<0.20	<0.20
	Boron (B) (mg/kg)	<5.0	<5.0	<5.0	<5.0	<5.0
	Cadmium (Cd) (mg/kg)	0.691	0.849	1.04	0.359	0.437
	Calcium (Ca) (mg/kg)	6070	8500	11100	6520	7100
	Chromium (Cr) (mg/kg)	38.9	33.4	35.5	34.5	28.5
	Cobalt (Co) (mg/kg)	13.2	11.3	12.1	10.7	9.48
	Copper (Cu) (mg/kg)	31.3	33.0	38.9	20.9	26.0
	Iron (Fe) (mg/kg)	28300	24200	25300	22500	22500
	Lead (Pb) (mg/kg)	13.1	14.2	14.4	8.66	10.1
	Lithium (Li) (mg/kg)	9.4	9.0	9.3	10.4	11.3
	Magnesium (Mg) (mg/kg)	7540	6200	6590	5660	5550
	Manganese (Mn) (mg/kg)	646	498	606	434	412
	Mercury (Hg) (mg/kg)	0.150	0.191	0.221	0.0351	0.0748
	Molybdenum (Mo) (mg/kg)	4.96	3.78	3.85	0.99	1.54
	Nickel (Ni) (mg/kg)	46.2	37.6	41.1	38.5	29.9
	Phosphorus (P) (mg/kg)	787	732	767	740	660
	Potassium (K) (mg/kg)	700	780	810	550	870
	Selenium (Se) (mg/kg)	1.78	1.90	2.30	0.55	0.87
	Silver (Ag) (mg/kg)	0.23	0.35	0.45	0.11	0.17
	Sodium (Na) (mg/kg)	75	141	131	182	216

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1829672-29 SOIL 06-SEP-16 R-4B	L1829672-32 SOIL 06-SEP-16 R-6B	L1829672-33 SOIL 06-SEP-16 R-6C	
Grouping	Analyte				
SOIL					
Physical Tests	Loss On Ignition @ 420 C (%)	2	11	10	
Particle Size	% Gravel (>2mm) (%)	<1.0	6.2	<1.0	
	% Sand (2.00mm - 1.00mm) (%)	2.3	<1.0	<1.0	
	% Sand (1.00mm - 0.50mm) (%)	6.0	<1.0	<1.0	
	% Sand (0.50mm - 0.25mm) (%)	10.2	<1.0	<1.0	
	% Sand (0.25mm - 0.125mm) (%)	9.5	3.8	2.3	
	% Sand (0.125mm - 0.063mm) (%)	15.8	8.6	8.0	
	% Silt (0.063mm - 0.0312mm) (%)	26.4	30.6	35.6	
	% Silt (0.0312mm - 0.004mm) (%)	25.7	41.3	45.7	
	% Clay (<4um) (%)	3.8	9.2	8.2	
	Texture	Silt loam / Sandy loam	Silt loam	Silt	
Metals	Aluminum (Al) (mg/kg)	9290	16400	18100	
	Antimony (Sb) (mg/kg)	1.84	0.68	0.69	
	Arsenic (As) (mg/kg)	18.5	9.80	10.5	
	Barium (Ba) (mg/kg)	246	272	280	
	Beryllium (Be) (mg/kg)	0.27	0.49	0.47	
	Bismuth (Bi) (mg/kg)	<0.20	<0.20	<0.20	
	Boron (B) (mg/kg)	<5.0	<5.0	<5.0	
	Cadmium (Cd) (mg/kg)	0.784	0.396	0.406	
	Calcium (Ca) (mg/kg)	7680	8560	9230	
	Chromium (Cr) (mg/kg)	48.5	37.9	40.1	
	Cobalt (Co) (mg/kg)	13.2	13.3	14.3	
	Copper (Cu) (mg/kg)	27.3	28.8	30.5	
	Iron (Fe) (mg/kg)	27100	28200	29800	
	Lead (Pb) (mg/kg)	10.7	9.85	10.1	
	Lithium (Li) (mg/kg)	10.2	15.2	14.3	
	Magnesium (Mg) (mg/kg)	8230	7940	8420	
	Manganese (Mn) (mg/kg)	639	540	626	
	Mercury (Hg) (mg/kg)	0.0631	0.0615	0.0581	
	Molybdenum (Mo) (mg/kg)	3.17	0.80	0.85	
	Nickel (Ni) (mg/kg)	77.3	33.6	35.8	
	Phosphorus (P) (mg/kg)	992	644	686	
	Potassium (K) (mg/kg)	440	1320	1440	
	Selenium (Se) (mg/kg)	1.48	0.48	0.49	
	Silver (Ag) (mg/kg)	0.19	0.14	0.14	
	Sodium (Na) (mg/kg)	102	232	257	

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1829672-19	L1829672-20	L1829672-21	L1829672-24	L1829672-26
		Description	SOIL	SOIL	SOIL	SOIL	SOIL
		Sampled Date	06-SEP-16	06-SEP-16	06-SEP-16	06-SEP-16	06-SEP-16
		Sampled Time					
		Client ID	R-1A	R-1B	R-1C	R-2C	R-3B
Grouping	Analyte						
SOIL							
Metals	Strontium (Sr) (mg/kg)		41.6	53.6	63.9	41.8	47.8
	Thallium (Tl) (mg/kg)		0.102	0.136	0.136	0.075	0.109
	Tin (Sn) (mg/kg)		<2.0	<2.0	<2.0	<2.0	<2.0
	Titanium (Ti) (mg/kg)		266	338	286	419	467
	Uranium (U) (mg/kg)		1.18	1.30	1.47	1.06	1.53
	Vanadium (V) (mg/kg)		34.8	37.1	37.8	42.0	42.7
	Zinc (Zn) (mg/kg)		117	98.5	99.9	67.9	84.2
	Zirconium (Zr) (mg/kg)		3.0	2.7	3.3	1.7	2.6

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L1829672-29	L1829672-32	L1829672-33		
		Description	SOIL	SOIL	SOIL		
		Sampled Date	06-SEP-16	06-SEP-16	06-SEP-16		
		Sampled Time					
		Client ID	R-4B	R-6B	R-6C		
Grouping	Analyte						
SOIL							
Metals	Strontium (Sr) (mg/kg)		47.6	54.3	54.7		
	Thallium (Tl) (mg/kg)		0.073	0.121	0.126		
	Tin (Sn) (mg/kg)		<2.0	<2.0	<2.0		
	Titanium (Ti) (mg/kg)		311	786	874		
	Uranium (U) (mg/kg)		0.771	1.50	1.54		
	Vanadium (V) (mg/kg)		34.0	54.6	59.3		
	Zinc (Zn) (mg/kg)		102	93.2	99.8		
	Zirconium (Zr) (mg/kg)		2.7	2.5	2.6		

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1829672-1 SOIL 06-SEP-16 E-1A	L1829672-2 SOIL 06-SEP-16 E-1B	L1829672-3 SOIL 06-SEP-16 E-1C	L1829672-4 SOIL 06-SEP-16 E-2A	L1829672-5 SOIL 06-SEP-16 E-2B
Grouping	Analyte					
WASTE						
Metals	Aluminum (Al) (mg/kg wwt)	4980	5200	4570	3580	5160
	Antimony (Sb) (mg/kg wwt)	4.84	5.69	4.79	3.22	4.08
	Arsenic (As) (mg/kg wwt)	17.3	20.9	16.8	14.3	15.7
	Barium (Ba) (mg/kg wwt)	369	223	241	74.2	165
	Beryllium (Be) (mg/kg wwt)	0.30	0.37	0.31	0.24	0.30
	Bismuth (Bi) (mg/kg wwt)	<0.20	0.21	<0.20	<0.20	<0.20
	Boron (B) (mg/kg wwt)	16.3	14.8	19.9	16.6	17.3
	Cadmium (Cd) (mg/kg wwt)	1.01	1.36	1.01	0.752	0.849
	Calcium (Ca) (mg/kg wwt)	16800	22200	17500	14100	13400
	Chromium (Cr) (mg/kg wwt)	264	266	269	258	248
	Cobalt (Co) (mg/kg wwt)	29.4	31.3	28.2	25.4	24.1
	Copper (Cu) (mg/kg wwt)	28.1	35.4	30.6	21.1	27.9
	Iron (Fe) (mg/kg wwt)	30200	36100	32900	28100	26600
	Lead (Pb) (mg/kg wwt)	11.2	13.6	11.4	9.68	10.0
	Lithium (Li) (mg/kg wwt)	6.0	7.1	6.1	4.5	7.3
	Magnesium (Mg) (mg/kg wwt)	37100	31900	36200	35400	33600
	Manganese (Mn) (mg/kg wwt)	682	950	503	655	351
	Mercury (Hg) (mg/kg wwt)	0.273	0.251	0.262	0.105	0.169
	Molybdenum (Mo) (mg/kg wwt)	4.65	7.19	5.92	3.93	4.95
	Nickel (Ni) (mg/kg wwt)	448	452	408	425	362
	Phosphorus (P) (mg/kg wwt)	818	1040	715	491	597
	Potassium (K) (mg/kg wwt)	520	530	480	270	510
	Selenium (Se) (mg/kg wwt)	2.82	3.99	3.20	2.24	2.41
	Silver (Ag) (mg/kg wwt)	0.25	0.34	0.26	0.18	0.23
	Sodium (Na) (mg/kg wwt)	65	51	<50	<50	53
	Strontium (Sr) (mg/kg wwt)	86.9	107	86.1	67.3	71.9
	Thallium (Tl) (mg/kg wwt)	0.184	0.203	0.162	0.079	0.132
	Tin (Sn) (mg/kg wwt)	<2.0	<2.0	<2.0	<2.0	<2.0
	Titanium (Ti) (mg/kg wwt)	55.3	48.2	35.4	29.8	61.4
	Uranium (U) (mg/kg wwt)	1.44	1.72	1.34	1.17	1.32
	Vanadium (V) (mg/kg wwt)	21.1	22.5	19.7	16.3	18.9
	Zinc (Zn) (mg/kg wwt)	83.4	112	92.3	82.0	80.4
	Zirconium (Zr) (mg/kg wwt)	5.0	5.4	6.9	4.2	7.4

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1829672-6 SOIL 06-SEP-16 E-2C	L1829672-7 SOIL 06-SEP-16 E-3A	L1829672-8 SOIL 06-SEP-16 E-3B	L1829672-9 SOIL 06-SEP-16 E-3C	L1829672-10 SOIL 06-SEP-16 E-4A
Grouping	Analyte					
WASTE						
Metals	Aluminum (Al) (mg/kg wwt)	5470	7570	7650	7590	6180
	Antimony (Sb) (mg/kg wwt)	4.34	1.18	1.23	1.30	2.15
	Arsenic (As) (mg/kg wwt)	17.4	7.81	7.38	8.26	10.8
	Barium (Ba) (mg/kg wwt)	190	184	185	215	217
	Beryllium (Be) (mg/kg wwt)	0.34	0.23	0.23	0.25	0.23
	Bismuth (Bi) (mg/kg wwt)	<0.20	<0.20	<0.20	<0.20	<0.20
	Boron (B) (mg/kg wwt)	18.1	<5.0	5.2	5.3	10.1
	Cadmium (Cd) (mg/kg wwt)	1.02	0.501	0.473	0.485	0.525
	Calcium (Ca) (mg/kg wwt)	17000	3540	3350	3640	7650
	Chromium (Cr) (mg/kg wwt)	264	28.5	54.6	52.4	171
	Cobalt (Co) (mg/kg wwt)	27.0	8.12	9.32	10.2	21.7
	Copper (Cu) (mg/kg wwt)	32.5	23.0	21.3	23.8	20.7
	Iron (Fe) (mg/kg wwt)	30600	18400	18300	20700	26600
	Lead (Pb) (mg/kg wwt)	12.0	9.99	9.22	9.93	7.77
	Lithium (Li) (mg/kg wwt)	7.9	6.2	6.5	7.4	6.9
	Magnesium (Mg) (mg/kg wwt)	36900	5050	7720	7000	20200
	Manganese (Mn) (mg/kg wwt)	547	298	272	316	527
	Mercury (Hg) (mg/kg wwt)	0.175	0.080	0.071	0.080	0.081
	Molybdenum (Mo) (mg/kg wwt)	6.02	4.42	4.87	4.98	3.65
	Nickel (Ni) (mg/kg wwt)	418	39.9	69.9	65.6	246
	Phosphorus (P) (mg/kg wwt)	769	621	578	658	557
	Potassium (K) (mg/kg wwt)	510	710	700	790	460
	Selenium (Se) (mg/kg wwt)	2.85	1.51	1.47	1.54	1.83
	Silver (Ag) (mg/kg wwt)	0.26	0.19	0.18	0.17	0.17
	Sodium (Na) (mg/kg wwt)	<50	96	99	88	61
	Strontium (Sr) (mg/kg wwt)	83.9	29.7	28.8	30.1	48.1
	Thallium (Tl) (mg/kg wwt)	0.154	0.074	0.073	0.074	0.072
	Tin (Sn) (mg/kg wwt)	<2.0	<2.0	<2.0	<2.0	<2.0
	Titanium (Ti) (mg/kg wwt)	49.0	203	248	257	185
	Uranium (U) (mg/kg wwt)	1.66	0.963	0.999	0.994	0.963
	Vanadium (V) (mg/kg wwt)	20.5	26.1	26.9	28.7	24.2
	Zinc (Zn) (mg/kg wwt)	91.5	85.5	80.8	87.3	82.3
	Zirconium (Zr) (mg/kg wwt)	7.3	4.0	4.3	5.2	4.1

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1829672-11 SOIL 06-SEP-16 E-4B	L1829672-12 SOIL 06-SEP-16 E-4C	L1829672-13 SOIL 06-SEP-16 E-8A	L1829672-14 SOIL 06-SEP-16 E-8B	L1829672-15 SOIL 06-SEP-16 E-8C
Grouping	Analyte					
WASTE						
Metals	Aluminum (Al) (mg/kg wwt)	6380	5340	3880	5660	4340
	Antimony (Sb) (mg/kg wwt)	1.11	1.42	0.29	0.49	0.25
	Arsenic (As) (mg/kg wwt)	9.19	7.32	18.1	5.12	13.4
	Barium (Ba) (mg/kg wwt)	172	153	54.4	88.4	90.6
	Beryllium (Be) (mg/kg wwt)	0.25	0.20	0.12	0.15	0.14
	Bismuth (Bi) (mg/kg wwt)	<0.20	<0.20	<0.20	<0.20	<0.20
	Boron (B) (mg/kg wwt)	5.9	6.2	<5.0	<5.0	<5.0
	Cadmium (Cd) (mg/kg wwt)	0.577	0.512	0.084	0.119	0.266
	Calcium (Ca) (mg/kg wwt)	6080	5560	1870	2870	2130
	Chromium (Cr) (mg/kg wwt)	73.2	75.2	10.5	16.9	10.7
	Cobalt (Co) (mg/kg wwt)	11.5	10.1	4.12	6.15	6.82
	Copper (Cu) (mg/kg wwt)	21.2	16.7	13.0	9.77	12.7
	Iron (Fe) (mg/kg wwt)	18800	15200	8830	14600	14800
	Lead (Pb) (mg/kg wwt)	8.00	6.15	2.55	3.62	6.22
	Lithium (Li) (mg/kg wwt)	6.4	5.0	3.7	6.0	4.4
	Magnesium (Mg) (mg/kg wwt)	11100	10800	2370	3600	2660
	Manganese (Mn) (mg/kg wwt)	405	367	239	323	347
	Mercury (Hg) (mg/kg wwt)	0.084	0.069	<0.050	<0.050	0.071
	Molybdenum (Mo) (mg/kg wwt)	3.41	2.41	0.34	0.72	0.75
	Nickel (Ni) (mg/kg wwt)	110	108	9.80	12.6	15.3
	Phosphorus (P) (mg/kg wwt)	597	483	269	326	331
	Potassium (K) (mg/kg wwt)	480	410	420	490	500
	Selenium (Se) (mg/kg wwt)	1.64	1.38	<0.20	0.35	0.77
	Silver (Ag) (mg/kg wwt)	0.19	0.15	<0.10	<0.10	<0.10
	Sodium (Na) (mg/kg wwt)	80	72	90	87	77
	Strontium (Sr) (mg/kg wwt)	39.7	37.2	12.9	21.6	13.3
	Thallium (Tl) (mg/kg wwt)	0.076	0.060	<0.050	<0.050	<0.050
	Tin (Sn) (mg/kg wwt)	<2.0	<2.0	<2.0	<2.0	<2.0
	Titanium (Ti) (mg/kg wwt)	126	178	196	224	196
	Uranium (U) (mg/kg wwt)	0.885	0.795	0.459	0.562	0.581
	Vanadium (V) (mg/kg wwt)	23.2	20.1	15.6	20.3	16.9
	Zinc (Zn) (mg/kg wwt)	74.0	57.5	27.8	37.2	75.4
	Zirconium (Zr) (mg/kg wwt)	3.6	2.4	<1.0	1.0	<1.0

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L1829672-16 SOIL 06-SEP-16 PORCUPINE CR-A	L1829672-17 SOIL 06-SEP-16 PORCUPINE CR-B	L1829672-18 SOIL 06-SEP-16 PORCUPINE CR-C	L1829672-22 SOIL 06-SEP-16 R-2A	L1829672-23 SOIL 06-SEP-16 R-2B
Grouping	Analyte					
WASTE						
Metals	Aluminum (Al) (mg/kg wwt)	2590	4490	2460	6000	6260
	Antimony (Sb) (mg/kg wwt)	2.16	2.45	4.73	1.42	3.21
	Arsenic (As) (mg/kg wwt)	11.9	13.5	17.5	9.43	15.9
	Barium (Ba) (mg/kg wwt)	121	119	55.0	147	159
	Beryllium (Be) (mg/kg wwt)	0.15	0.24	0.19	0.20	0.25
	Bismuth (Bi) (mg/kg wwt)	<0.20	<0.20	<0.20	<0.20	<0.20
	Boron (B) (mg/kg wwt)	8.6	15.4	21.4	<5.0	<5.0
	Cadmium (Cd) (mg/kg wwt)	0.509	0.727	1.26	0.238	0.355
	Calcium (Ca) (mg/kg wwt)	8940	16800	31700	3180	2010
	Chromium (Cr) (mg/kg wwt)	150	250	279	22.1	40.0
	Cobalt (Co) (mg/kg wwt)	15.4	21.3	25.2	6.96	12.9
	Copper (Cu) (mg/kg wwt)	13.7	19.5	22.5	12.8	19.2
	Iron (Fe) (mg/kg wwt)	17200	24100	26500	13700	22300
	Lead (Pb) (mg/kg wwt)	4.61	6.46	6.39	5.61	9.69
	Lithium (Li) (mg/kg wwt)	3.4	6.0	4.0	5.5	7.6
	Magnesium (Mg) (mg/kg wwt)	19500	31400	38900	3470	6340
	Manganese (Mn) (mg/kg wwt)	238	362	404	380	761
	Mercury (Hg) (mg/kg wwt)	0.091	0.090	0.155	<0.050	<0.050
	Molybdenum (Mo) (mg/kg wwt)	2.07	2.47	4.50	0.89	2.16
	Nickel (Ni) (mg/kg wwt)	234	361	474	30.8	92.8
	Phosphorus (P) (mg/kg wwt)	333	499	516	384	473
	Potassium (K) (mg/kg wwt)	240	390	210	380	460
	Selenium (Se) (mg/kg wwt)	1.37	1.66	2.26	0.42	0.78
	Silver (Ag) (mg/kg wwt)	0.13	0.14	0.28	<0.10	<0.10
	Sodium (Na) (mg/kg wwt)	<50	98	<50	93	<50
	Strontium (Sr) (mg/kg wwt)	44.6	83.0	123	22.8	19.1
	Thallium (Tl) (mg/kg wwt)	0.077	0.093	0.114	<0.050	0.051
	Tin (Sn) (mg/kg wwt)	<2.0	<2.0	<2.0	<2.0	<2.0
	Titanium (Ti) (mg/kg wwt)	65.5	116	29.4	206	107
	Uranium (U) (mg/kg wwt)	0.567	0.914	1.17	0.591	0.732
	Vanadium (V) (mg/kg wwt)	12.0	20.9	13.2	22.6	21.8
	Zinc (Zn) (mg/kg wwt)	45.5	65.4	85.5	43.5	71.9
	Zirconium (Zr) (mg/kg wwt)	2.9	2.4	3.9	1.4	2.6

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID Description Sampled Date Sampled Time Client ID	L1829672-25 SOIL 06-SEP-16 R-3A	L1829672-27 SOIL 06-SEP-16 R-3C	L1829672-28 SOIL 06-SEP-16 R-4A	L1829672-30 SOIL 06-SEP-16 R-4C	L1829672-31 SOIL 06-SEP-16 R-6A
Grouping	Analyte						
WASTE							
Metals	Aluminum (Al) (mg/kg wwt)	4300	7360	6640	7380	10100	
	Antimony (Sb) (mg/kg wwt)	0.94	0.47	1.55	1.72	0.44	
	Arsenic (As) (mg/kg wwt)	3.15	4.71	14.3	17.5	6.57	
	Barium (Ba) (mg/kg wwt)	125	243	169	175	153	
	Beryllium (Be) (mg/kg wwt)	0.17	0.24	0.20	0.23	0.26	
	Bismuth (Bi) (mg/kg wwt)	<0.20	<0.20	<0.20	<0.20	<0.20	
	Boron (B) (mg/kg wwt)	6.3	<5.0	<5.0	<5.0	<5.0	
	Cadmium (Cd) (mg/kg wwt)	0.293	0.270	0.595	0.717	0.222	
	Calcium (Ca) (mg/kg wwt)	4970	4170	5370	5470	7370	
	Chromium (Cr) (mg/kg wwt)	68.1	17.3	36.1	40.2	26.3	
	Cobalt (Co) (mg/kg wwt)	6.96	5.72	9.86	10.9	7.76	
	Copper (Cu) (mg/kg wwt)	13.4	15.7	21.2	23.1	16.1	
	Iron (Fe) (mg/kg wwt)	9870	13800	19700	21900	17600	
	Lead (Pb) (mg/kg wwt)	3.51	6.19	8.36	9.14	6.45	
	Lithium (Li) (mg/kg wwt)	3.8	7.3	7.6	9.1	9.4	
	Magnesium (Mg) (mg/kg wwt)	9960	3300	5700	6700	4870	
	Manganese (Mn) (mg/kg wwt)	173	229	494	640	364	
	Mercury (Hg) (mg/kg wwt)	0.051	0.075	0.063	0.054	<0.050	
	Molybdenum (Mo) (mg/kg wwt)	0.51	0.91	2.68	2.60	0.52	
	Nickel (Ni) (mg/kg wwt)	82.8	18.2	58.1	70.0	20.7	
	Phosphorus (P) (mg/kg wwt)	290	459	768	905	479	
	Potassium (K) (mg/kg wwt)	410	520	380	440	780	
	Selenium (Se) (mg/kg wwt)	0.80	0.56	1.29	1.42	0.34	
	Silver (Ag) (mg/kg wwt)	<0.10	0.12	0.19	0.16	0.12	
	Sodium (Na) (mg/kg wwt)	70	127	64	79	154	
	Strontium (Sr) (mg/kg wwt)	29.6	29.2	35.9	37.4	41.1	
	Thallium (Tl) (mg/kg wwt)	<0.050	0.063	0.056	0.063	0.068	
	Tin (Sn) (mg/kg wwt)	<2.0	<2.0	<2.0	<2.0	<2.0	
	Titanium (Ti) (mg/kg wwt)	104	169	146	220	457	
	Uranium (U) (mg/kg wwt)	2.55	0.914	0.591	0.794	0.696	
	Vanadium (V) (mg/kg wwt)	13.9	24.8	24.8	27.4	34.0	
	Zinc (Zn) (mg/kg wwt)	38.6	50.4	73.0	83.9	60.1	
	Zirconium (Zr) (mg/kg wwt)	1.6	2.1	2.8	3.3	1.6	

ALS ENVIRONMENTAL ANALYTICAL REPORT

	Sample ID Description Sampled Date Sampled Time Client ID	L1829672-34 SOIL 06-SEP-16 E-6A	L1829672-35 SOIL 06-SEP-16 E-6B	L1829672-36 SOIL 06-SEP-16 E-6C	
Grouping	Analyte				
WASTE					
Metals	Aluminum (Al) (mg/kg wwt)	6020	5580	5530	
	Antimony (Sb) (mg/kg wwt)	0.99	1.10	1.55	
	Arsenic (As) (mg/kg wwt)	9.46	10.8	16.3	
	Barium (Ba) (mg/kg wwt)	130	124	161	
	Beryllium (Be) (mg/kg wwt)	0.18	0.18	0.19	
	Bismuth (Bi) (mg/kg wwt)	<0.20	<0.20	<0.20	
	Boron (B) (mg/kg wwt)	<5.0	<5.0	<5.0	
	Cadmium (Cd) (mg/kg wwt)	0.290	0.326	0.391	
	Calcium (Ca) (mg/kg wwt)	4680	3960	4140	
	Chromium (Cr) (mg/kg wwt)	36.8	42.3	72.7	
	Cobalt (Co) (mg/kg wwt)	8.70	8.85	13.4	
	Copper (Cu) (mg/kg wwt)	15.9	17.3	19.5	
	Iron (Fe) (mg/kg wwt)	15500	16200	20800	
	Lead (Pb) (mg/kg wwt)	7.92	7.87	9.07	
	Lithium (Li) (mg/kg wwt)	5.8	5.0	5.5	
	Magnesium (Mg) (mg/kg wwt)	6140	6860	11600	
	Manganese (Mn) (mg/kg wwt)	382	362	632	
	Mercury (Hg) (mg/kg wwt)	<0.050	<0.050	0.050	
	Molybdenum (Mo) (mg/kg wwt)	1.62	1.77	2.54	
	Nickel (Ni) (mg/kg wwt)	50.3	60.2	108	
	Phosphorus (P) (mg/kg wwt)	545	540	518	
	Potassium (K) (mg/kg wwt)	480	490	500	
	Selenium (Se) (mg/kg wwt)	0.71	0.78	1.02	
	Silver (Ag) (mg/kg wwt)	<0.10	0.11	0.11	
	Sodium (Na) (mg/kg wwt)	79	62	<50	
	Strontium (Sr) (mg/kg wwt)	28.2	25.5	27.9	
	Thallium (Tl) (mg/kg wwt)	0.054	0.055	0.057	
	Tin (Sn) (mg/kg wwt)	<2.0	<2.0	<2.0	
	Titanium (Ti) (mg/kg wwt)	207	158	121	
	Uranium (U) (mg/kg wwt)	0.604	0.676	0.836	
	Vanadium (V) (mg/kg wwt)	23.0	20.7	21.6	
	Zinc (Zn) (mg/kg wwt)	58.0	61.9	77.7	
	Zirconium (Zr) (mg/kg wwt)	2.2	2.1	3.5	

Reference Information

Test Method References:

ALS Test Code	Matrix	Test Description	Method Reference**
ASBESTOS-BULK-ED	Bulk	Bulk Asbestos Content	NIOSH 9002-Polarized Microscopy
<p>Bulk samples are examined under a stereoscopic microscope. Individual fibers or fibre bundles are mounted in refractive index liquids and are observed under a polarized light microscope with a special dispersion staining objective. The dispersion staining colours are compared to reference samples of known asbestiforms.</p> <p>Note: For non-friable organically bound asbestos (eg. floor tile) Polarized Light microscopy is not a definitive technique when negative results are obtained. Transmission electron microscopy is recommended to confirm the asbestos in these materials.</p> <p>Asbestos results reported as <1% indicates that no asbestos fibers were observed.</p>			
ASBESTOS-PTCT-ED	Bulk	Quantitation of asbestos by point count	EPA/600/R-93/116
<p>Bulk samples are examined under a stereoscopic microscope. Individual fibers or fiber bundles are mounted in refractive index liquids and are observed under a polarized light microscope, with a special dispersion staining objective. The dispersion staining colors are compared to reference samples of known asbestiforms.</p> <p>Polarized microscopy is not a definitive technique for negative results for non-friable organically bound material (i.e.floor tiles). Transmission electron microscopy is recommended to confirm the asbestos in these materials.</p> <p>Asbestos results reported as <0.10% indicates that no asbestos fibers were observed.</p>			
HG-200.2-CVAA-ED	Soil	Mercury in Soil by CVAAS	EPA 200.2/1631E (Mod)
<p>Soil samples are digested with nitric and hydrochloric acids, followed by analysis by CVAAS.</p>			
HG-WET-200.2-CVAA-ED	Waste	Mercury (Hg) in waste	EPA 200.2/245.1
<p>Waste samples are prepared for analysis by mixing to homogenize the as-received waste, then subsampling. The subsample is digested according to the EPA 200.2 method, using nitric and hydrochloric acids. Analysis is carried out by cold vapour atomic absorption. Results are reported on a wet basis (not corrected for any moisture content).</p>			
LOI-420-SK	Soil	Loss on Ignition @ 420 C	CSSS (1978) METHOD 3.81
<p>The dry-ash method involves the removal of organic matter by combustion at 420OC for 2 hours. Samples are dried prior to combustion.</p> <p>Reference: McKeague, J.A. Soil Sampling and Methods of Analysis. Can. Soc. Soil Sci.(1978) method 3.81</p>			
MET-200.2-CCMS-ED	Soil	Metals in Soil by CRC ICPMS	EPA 200.2/6020A (mod)
<p>Soil samples are digested with nitric and hydrochloric acids, followed by analysis by CRC ICPMS.</p> <p>Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that may be environmentally available. This method does not dissolve all silicate materials and may result in a partial extraction. depending on the sample matrix, for some metals, including, but not limited to Al, Ba, Be, Cr, Sr, Ti, Tl, and V.</p>			
MET-WET200.2-CCMS-ED	Waste	Metals in Waste by CRC ICPMS	EPA 200.2/6020A
<p>This analysis is carried out using procedures from CSR Analytical Method: "Strong Acid Leachable Metals (SALM) in Soil", BC Ministry of Environment, 26 June 2009, and procedures adapted from EPA Method 200.2. The sample is manually homogenized, dried at 60 degrees Celsius, sieved through a 2 mm (10 mesh) sieve, and a representative subsample of the dry material is weighed. The sample is then digested at 95 degrees Celsius for 2 hours by block digester using concentrated nitric and hydrochloric acids. Instrumental analysis is by inductively coupled plasma - mass spectrometry (EPA Method 6020A).</p> <p>Method Limitation: This method is not a total digestion technique. It is a very strong acid digestion that is intended to dissolve those metals that may be environmentally available. By design, elements bound in silicate structures are not normally dissolved by this procedure as they are not usually mobile in the environment.</p>			
PSA-PIPET-DETAIL-SK	Soil	Particle size - Sieve and Pipette	SSIR-51 METHOD 3.2.1
<p>Particle size distribution is determined by a combination of techniques. Dry sieving is performed for coarse particles, wet sieving for sand particles and the pipette sedimentation method for clay particles.</p> <p>Reference:</p> <p>Burt, R. (2009). Soil Survey Field and Laboratory Methods Manual. Soil Survey Investigations Report No. 5. Method 3.2.1.2.2. United States Department of Agriculture Natural Resources Conservation Service.</p>			

** ALS test methods may incorporate modifications from specified reference methods to improve performance.

The last two letters of the above test code(s) indicate the laboratory that performed analytical analysis for that test. Refer to the list below:

Laboratory Definition Code	Laboratory Location
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ALS ENVIRONMENTAL - EDMONTON, ALBERTA, CANADA

Reference Information

ED SK

ALS ENVIRONMENTAL - SASKATOON, SASKATCHEWAN, CANADA

Chain of Custody Numbers:

14-470676 14-470677 14-470939

GLOSSARY OF REPORT TERMS

Surrogate - A compound that is similar in behaviour to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

mg/kg - milligrams per kilogram based on dry weight of sample.

mg/kg wwt - milligrams per kilogram based on wet weight of sample.

mg/kg lwt - milligrams per kilogram based on lipid-adjusted weight of sample.

mg/L - milligrams per litre.

< - Less than.

D.L. - The reported Detection Limit, also known as the Limit of Reporting (LOR).

N/A - Result not available. Refer to qualifier code and definition for explanation.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical results in unsigned test reports with the DRAFT watermark are subject to change, pending final QC review.

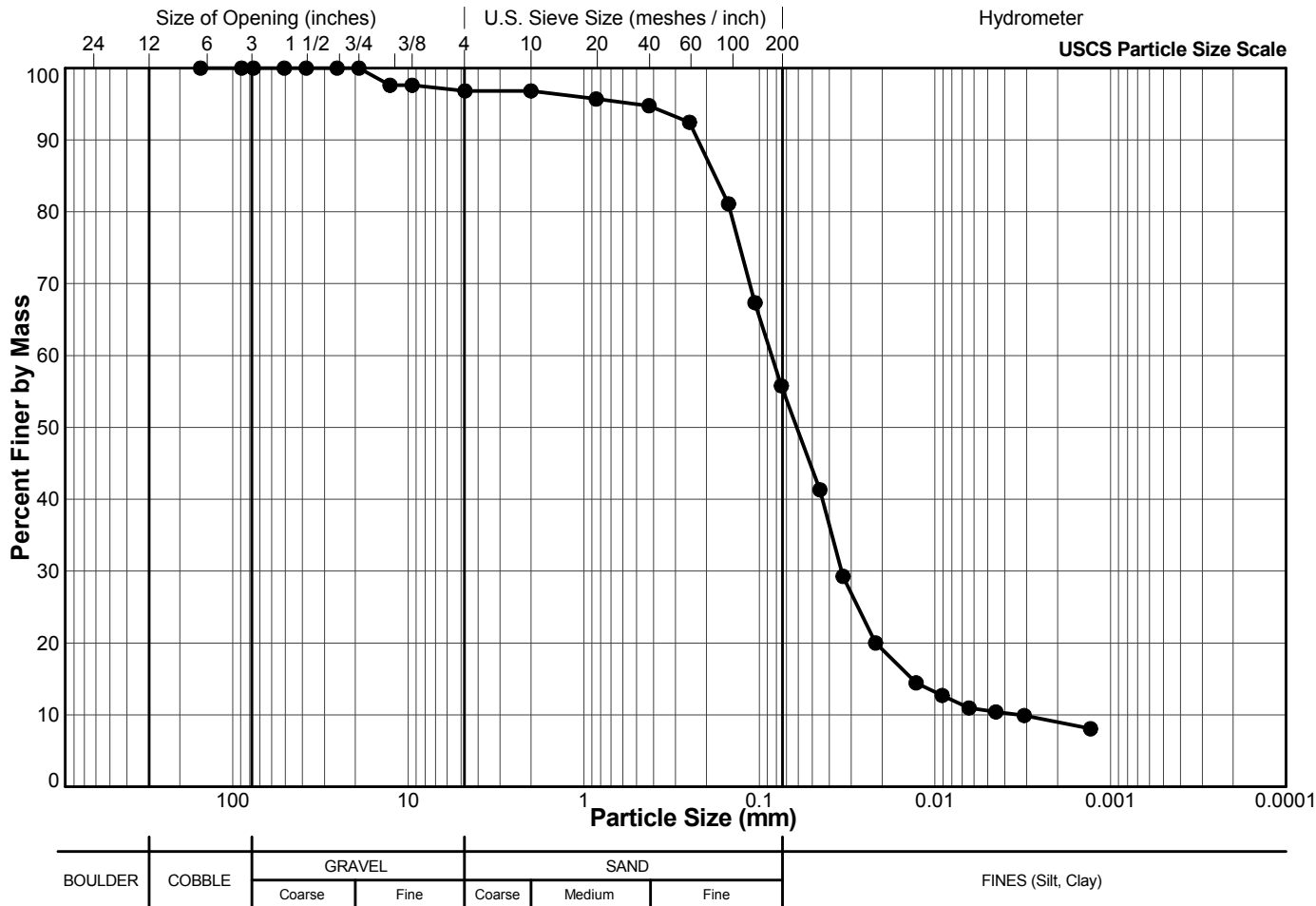


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: E-1A
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	100.0
1/2"	12.7	97.6
3/8"	9.5	97.6
#4 US MESH	4.75	96.8
#10 US MESH	2	96.8
#20 US MESH	0.85	95.7
#40 US MESH	0.425	94.8
#60 US MESH	0.25	92.5
#100 US MESH	0.15	81.1
#140 US MESH	0.106	67.4
#200 US MESH	0.075	55.8
	0.0452	41.3
	0.0334	29.3
	0.0218	20.0
	0.0128	14.4
	0.0091	12.7
	0.0064	11.0
	0.0045	10.4
	0.0031	9.9
	0.0013	8.1

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

LH/OA

11/8/2016

LH

11/15/2016

Tech

Date

Checked

Date

National IM Server:GINT GAL NATIONALIM Unique Project ID:1467 Output Form: LAB PARTICLE SIZE (W/ GRADATIONS) 2015 Ihu 15/11/16

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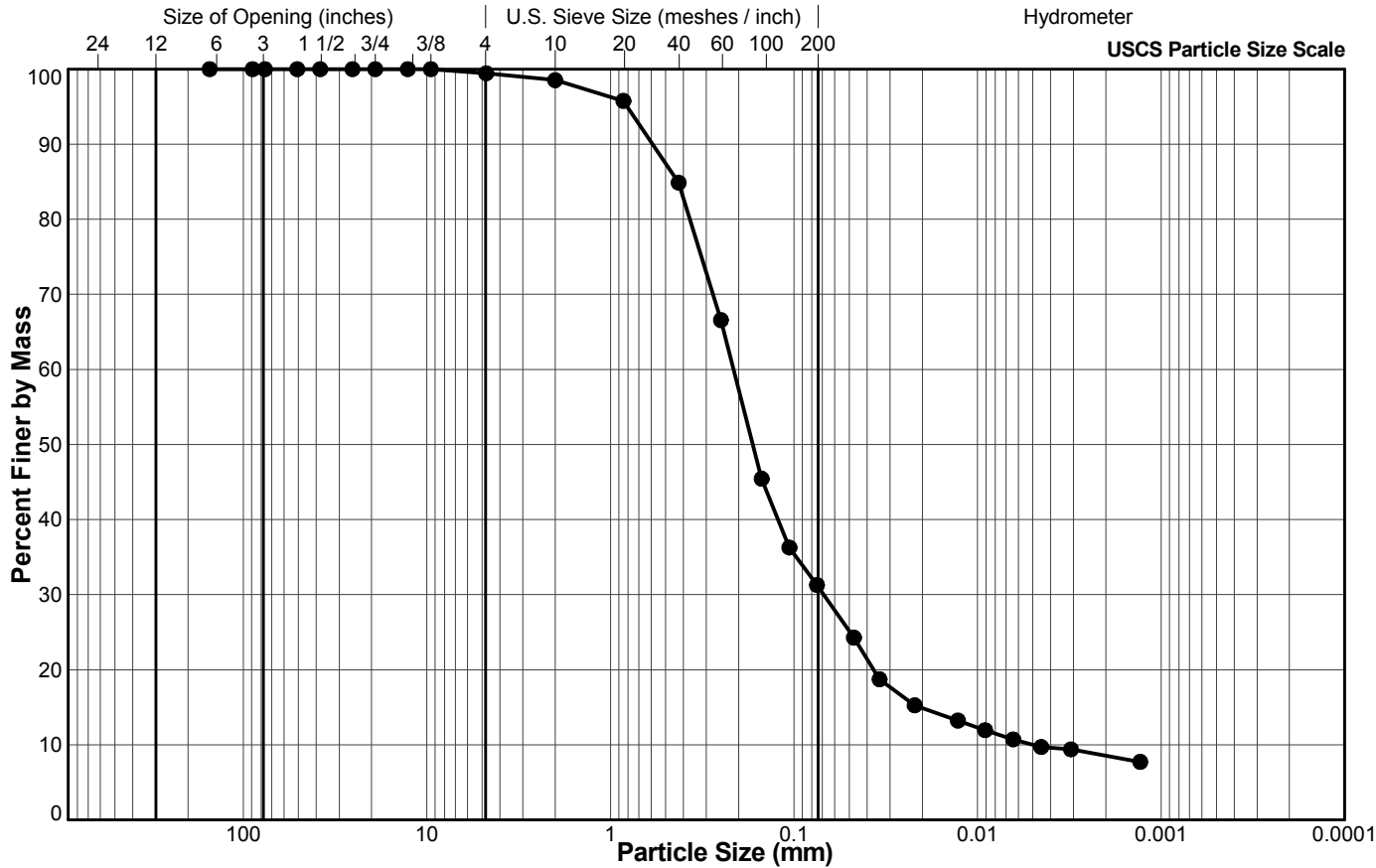


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: E-1B
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	100.0
1/2"	12.7	100.0
3/8"	9.5	100.0
#4 US MESH	4.75	99.4
#10 US MESH	2	98.5
#20 US MESH	0.85	95.8
#40 US MESH	0.425	84.9
#60 US MESH	0.25	66.6
#100 US MESH	0.15	45.4
#140 US MESH	0.106	36.3
#200 US MESH	0.075	31.3
	0.0472	24.3
	0.0342	18.7
	0.0220	15.3
	0.0128	13.2
	0.0091	11.9
	0.0064	10.7
	0.0045	9.7
	0.0031	9.4
	0.0013	7.7

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

LH/OA

11/8/2016

LH

11/15/2016

Tech

Date

Checked

Date

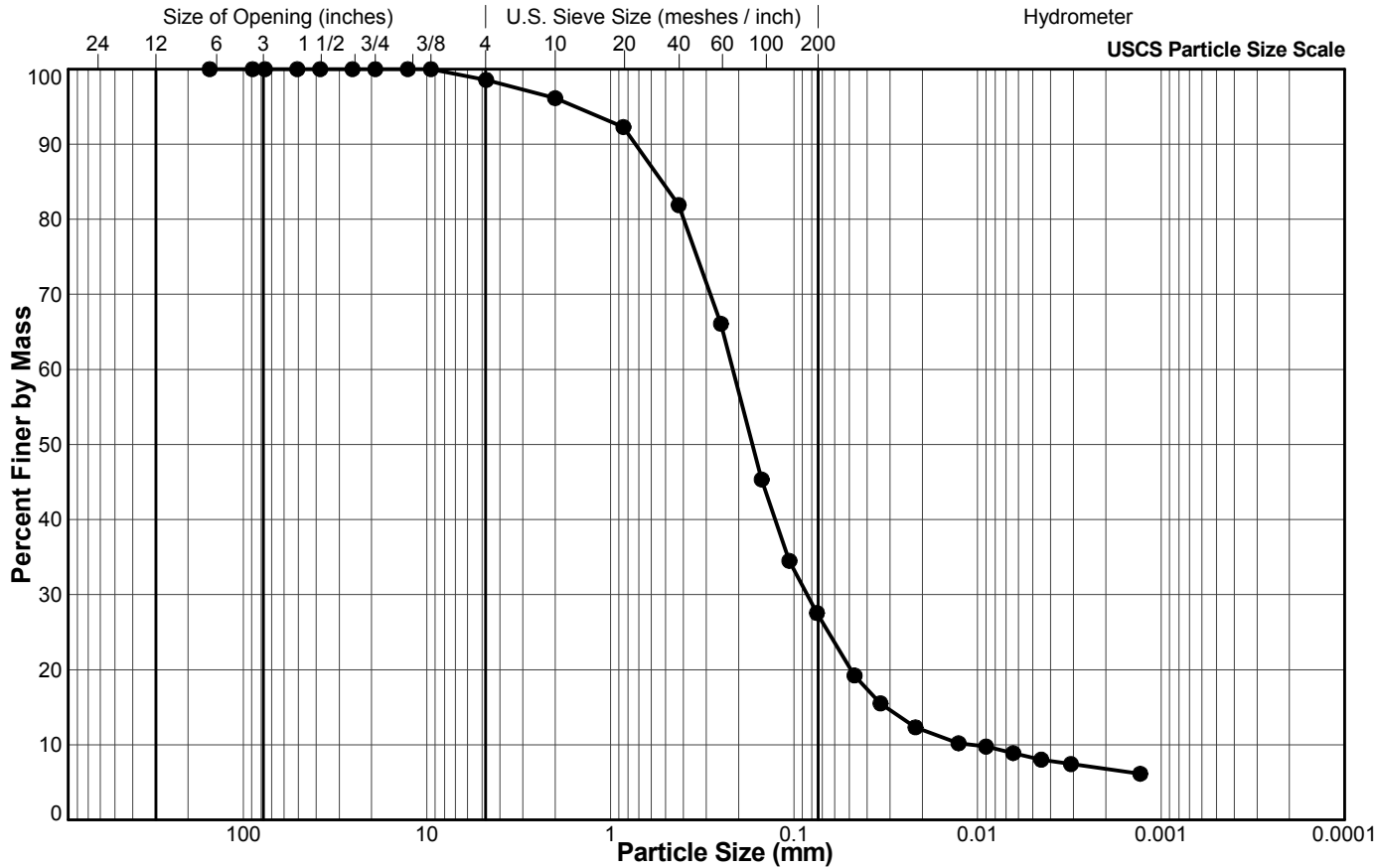


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: E-1C
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	100.0
1/2"	12.7	100.0
3/8"	9.5	100.0
#4 US MESH	4.75	98.6
#10 US MESH	2	96.1
#20 US MESH	0.85	92.3
#40 US MESH	0.425	81.9
#60 US MESH	0.25	66.1
#100 US MESH	0.15	45.3
#140 US MESH	0.106	34.5
#200 US MESH	0.075	27.6
	0.0468	19.2
	0.0338	15.5
	0.0218	12.3
	0.0127	10.2
	0.0090	9.8
	0.0064	8.9
	0.0045	8.0
	0.0031	7.4
	0.0013	6.1

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

LH/OA

11/8/2016

LH

11/15/2016

Tech

Date

Checked

Date

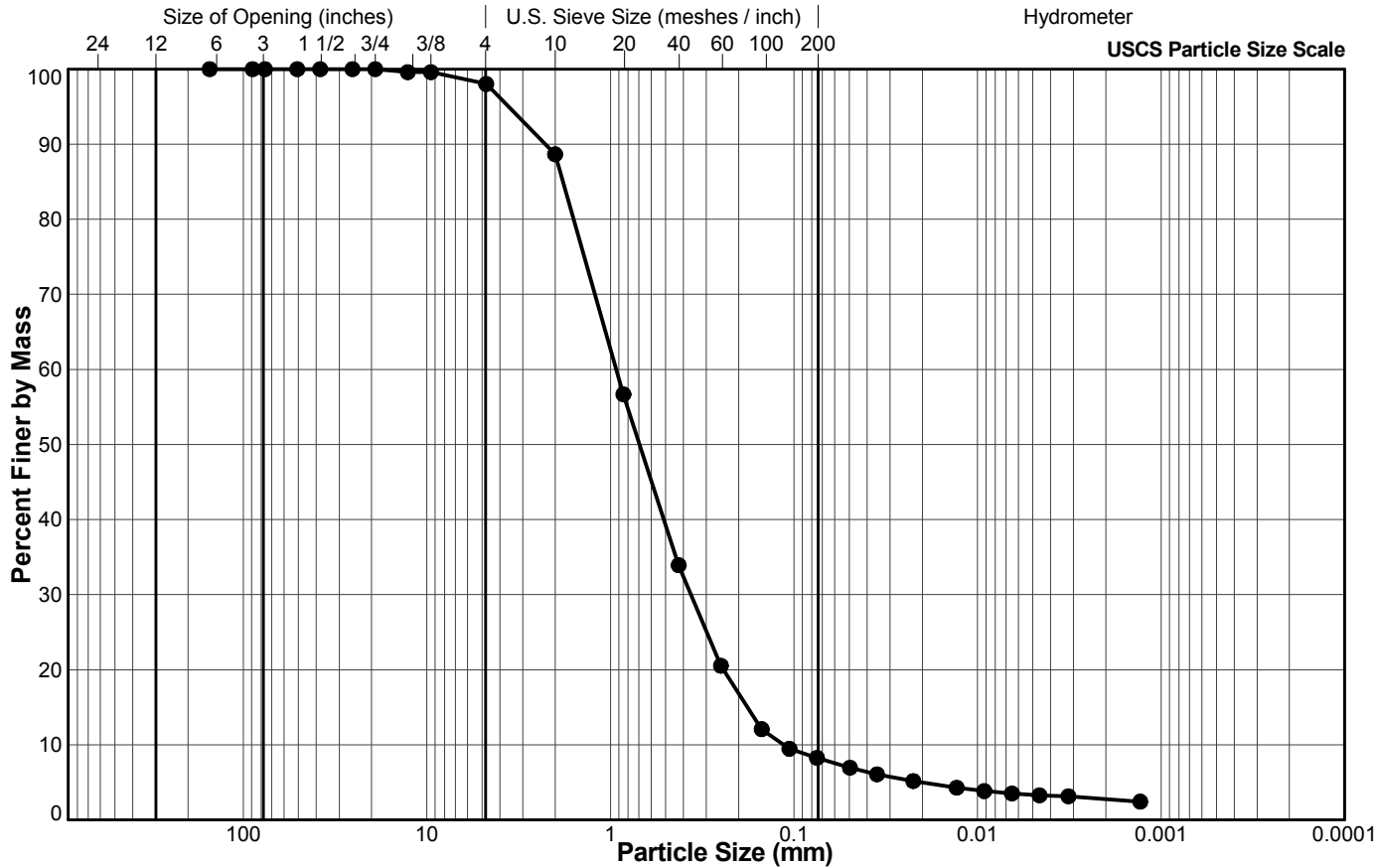


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: E-2A
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	100.0
1/2"	12.7	99.6
3/8"	9.5	99.6
#4 US MESH	4.75	98.0
#10 US MESH	2	88.7
#20 US MESH	0.85	56.7
#40 US MESH	0.425	33.9
#60 US MESH	0.25	20.5
#100 US MESH	0.15	12.1
#140 US MESH	0.106	9.5
#200 US MESH	0.075	8.3
	0.0496	6.9
	0.0353	6.1
	0.0224	5.2
	0.0130	4.3
	0.0092	3.8
	0.0065	3.5
	0.0046	3.3
	0.0032	3.1
	0.0013	2.4

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

LH/OA

11/9/2016

LH

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Tech

Date

Checked

Date

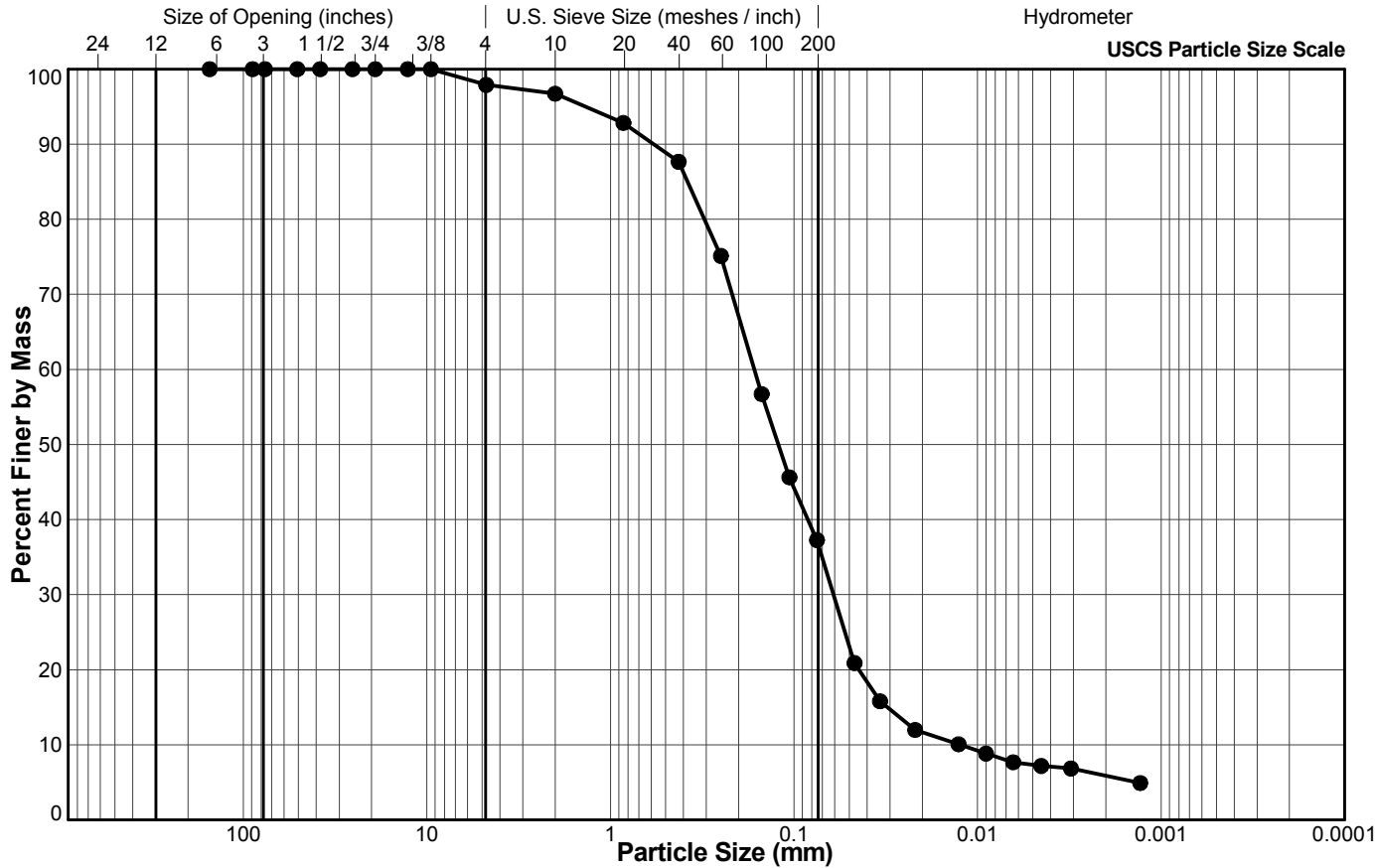


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: E-2B
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	100.0
1/2"	12.7	100.0
3/8"	9.5	100.0
#4 US MESH	4.75	97.9
#10 US MESH	2	96.7
#20 US MESH	0.85	92.8
#40 US MESH	0.425	87.7
#60 US MESH	0.25	75.1
#100 US MESH	0.15	56.7
#140 US MESH	0.106	45.6
#200 US MESH	0.075	37.3
	0.0468	20.9
	0.0340	15.8
	0.0219	12.0
	0.0127	10.1
	0.0090	8.8
	0.0064	7.7
	0.0045	7.2
	0.0031	6.8
	0.0013	4.9

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

LH/OA

11/9/2016

LH

11/15/2016

Tech

Date

Checked

Date

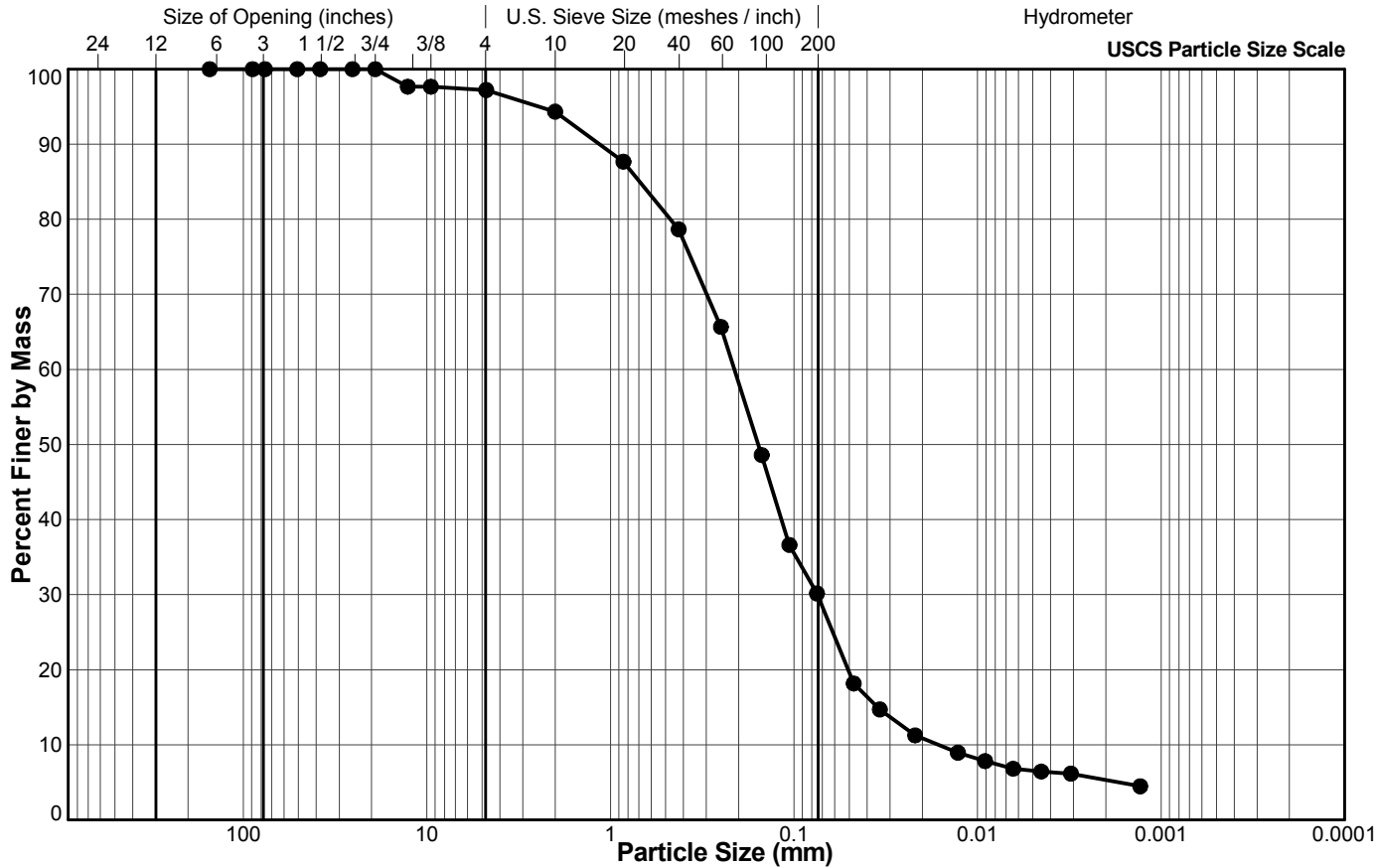


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: E-2C
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	100.0
1/2"	12.7	97.7
3/8"	9.5	97.7
#4 US MESH	4.75	97.2
#10 US MESH	2	94.3
#20 US MESH	0.85	87.7
#40 US MESH	0.425	78.7
#60 US MESH	0.25	65.7
#100 US MESH	0.15	48.6
#140 US MESH	0.106	36.6
#200 US MESH	0.075	30.2
	0.0473	18.2
	0.0341	14.7
	0.0219	11.3
	0.0128	8.9
	0.0091	7.8
	0.0064	6.8
	0.0045	6.4
	0.0031	6.2
	0.0013	4.5

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

LH/OA

11/8/2016

LH

11/15/2016

Tech

Date

Checked

Date

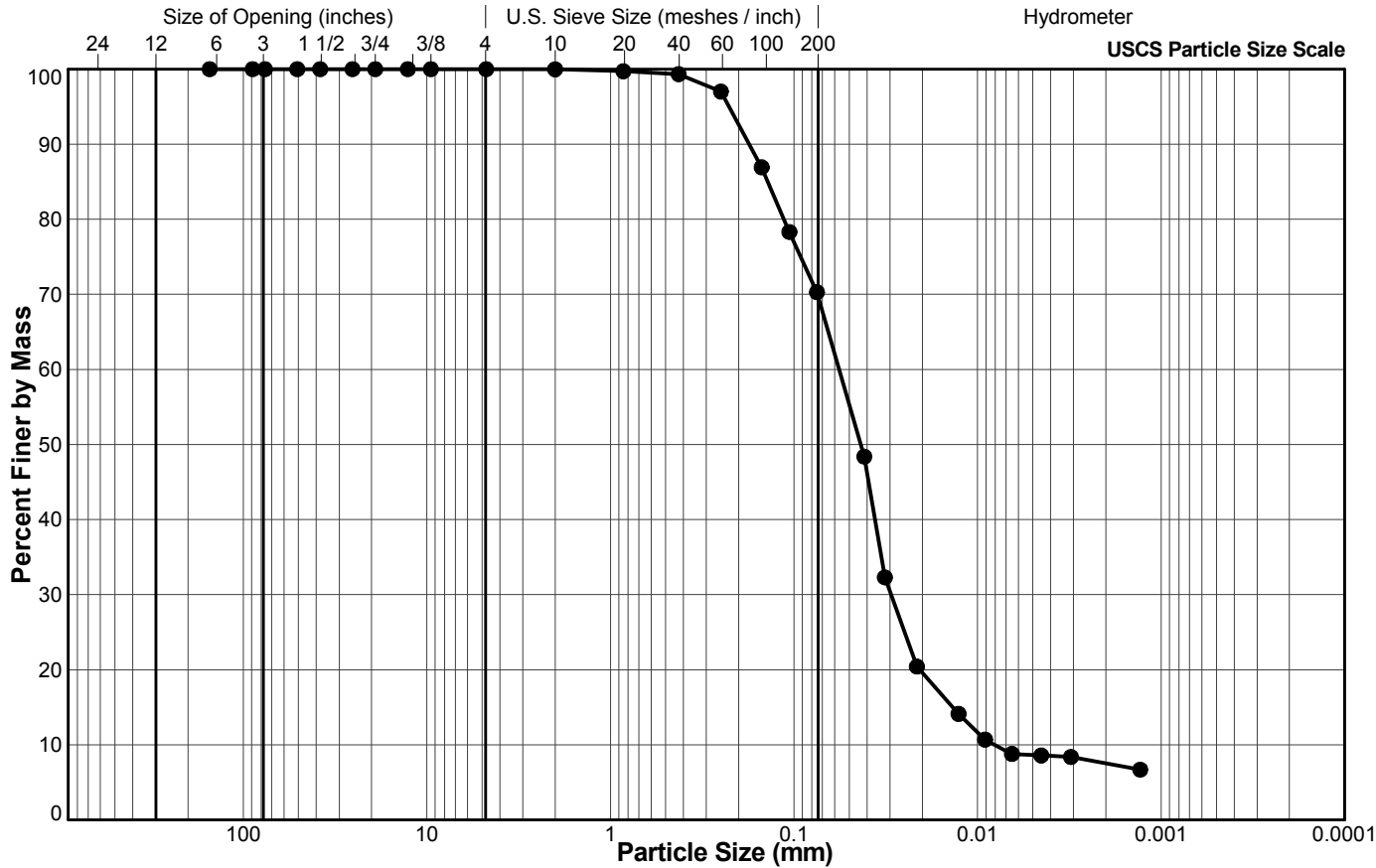


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: E-3A
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	100.0
1/2"	12.7	100.0
3/8"	9.5	100.0
#4 US MESH	4.75	100.0
#10 US MESH	2	100.0
#20 US MESH	0.85	99.7
#40 US MESH	0.425	99.3
#60 US MESH	0.25	97.0
#100 US MESH	0.15	86.9
#140 US MESH	0.106	78.3
#200 US MESH	0.075	70.3
	0.0414	48.4
	0.0320	32.3
	0.0214	20.4
	0.0127	14.1
	0.0091	10.7
	0.0065	8.8
	0.0045	8.6
	0.0031	8.4
	0.0013	6.7

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

LH/OA

11/8/2016

LH

11/15/2016

Tech

Date

Checked

Date

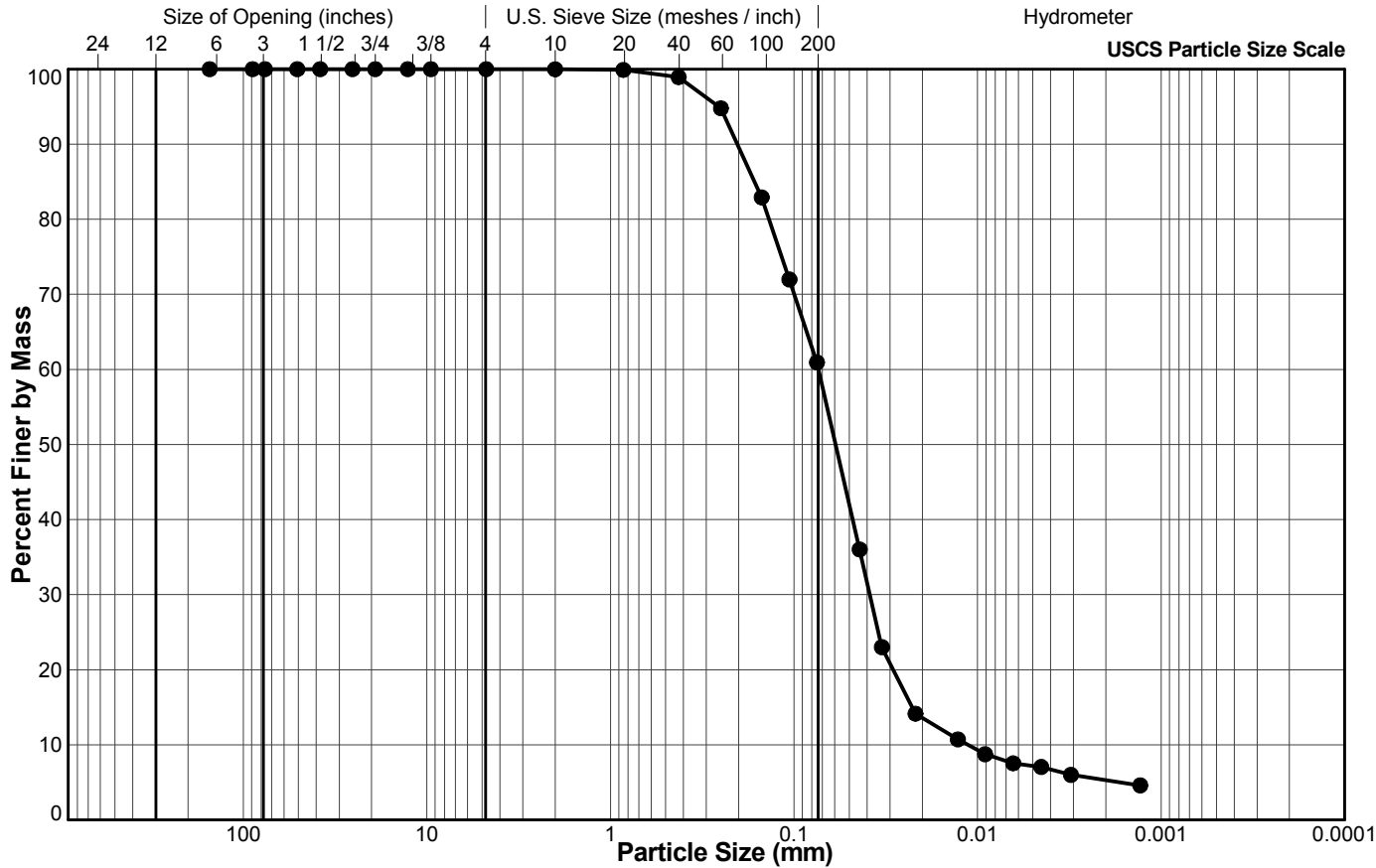


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: E-3B
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	100.0
1/2"	12.7	100.0
3/8"	9.5	100.0
#4 US MESH	4.75	100.0
#10 US MESH	2	100.0
#20 US MESH	0.85	99.9
#40 US MESH	0.425	98.9
#60 US MESH	0.25	94.8
#100 US MESH	0.15	82.9
#140 US MESH	0.106	72.0
#200 US MESH	0.075	60.9
	0.0439	36.0
	0.0332	23.0
	0.0218	14.1
	0.0128	10.7
	0.0091	8.7
	0.0064	7.5
	0.0045	7.0
	0.0031	6.0
	0.0013	4.6

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

LH/OA

11/8/2016

LH

11/15/2016

Tech

Date

Checked

Date

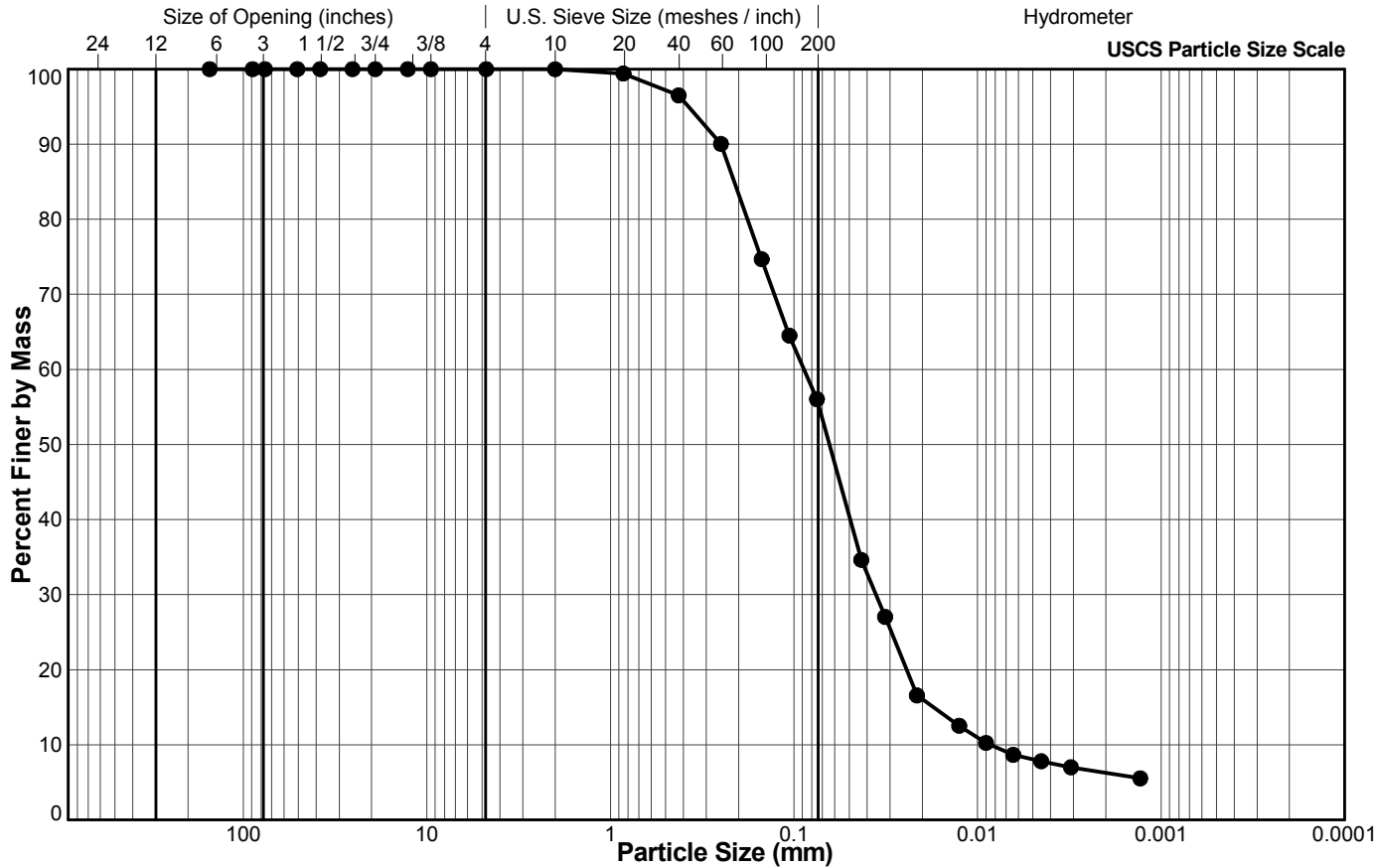


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: E-3C
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	100.0
1/2"	12.7	100.0
3/8"	9.5	100.0
#4 US MESH	4.75	100.0
#10 US MESH	2	100.0
#20 US MESH	0.85	99.4
#40 US MESH	0.425	96.5
#60 US MESH	0.25	90.0
#100 US MESH	0.15	74.7
#140 US MESH	0.106	64.5
#200 US MESH	0.075	56.0
	0.0430	34.6
	0.0319	27.0
	0.0214	16.6
	0.0126	12.5
	0.0090	10.3
	0.0064	8.7
	0.0045	7.8
	0.0031	7.0
	0.0013	5.5

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

LH/OA

11/8/2016

LH

11/15/2016

Tech

Date

Checked

Date

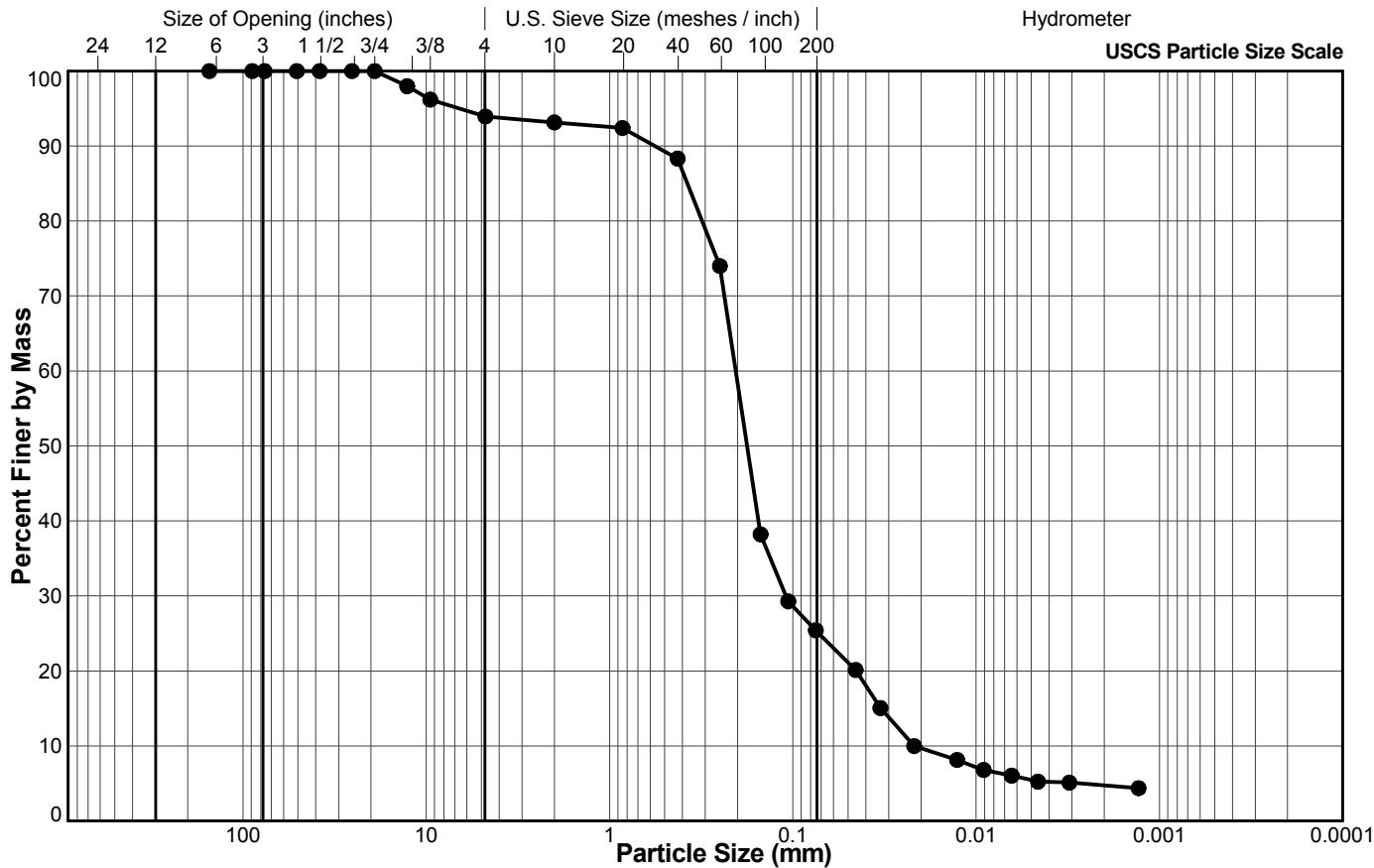


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: E-4A
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	100.0
1/2"	12.7	98.0
3/8"	9.5	96.2
#4 US MESH	4.75	93.9
#10 US MESH	2	93.1
#20 US MESH	0.85	92.4
#40 US MESH	0.425	88.3
#60 US MESH	0.25	74.0
#100 US MESH	0.15	38.2
#140 US MESH	0.106	29.3
#200 US MESH	0.075	25.4
	0.0454	20.1
	0.0333	15.1
	0.0218	10.0
	0.0127	8.1
	0.0091	6.8
	0.0064	6.0
	0.0046	5.2
	0.0031	5.1
	0.0013	4.4

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

LH/OA

11/9/2016

LH

11/15/2016

Tech

Date

Checked

Date

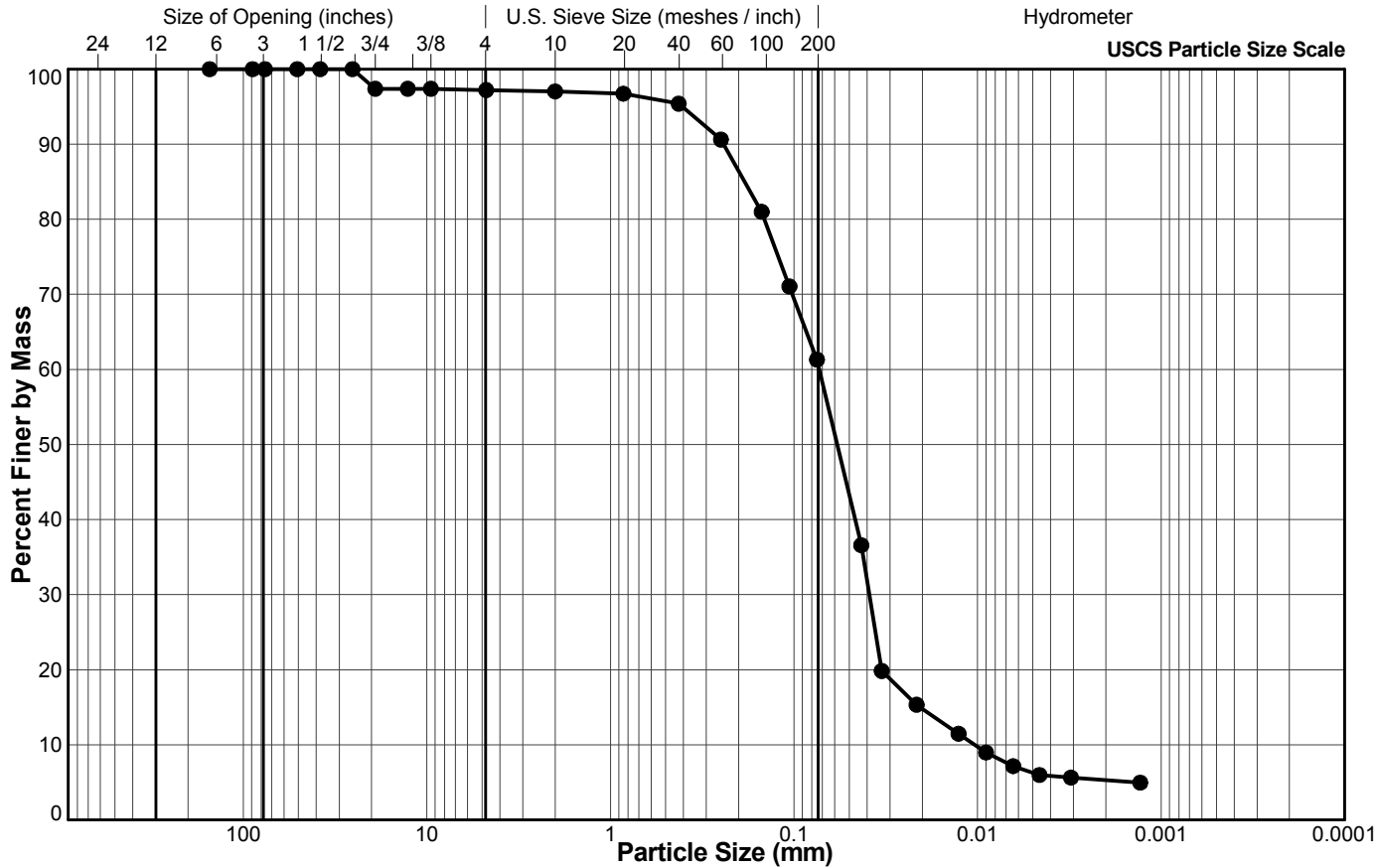


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: E-4B
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	97.4
1/2"	12.7	97.4
3/8"	9.5	97.4
#4 US MESH	4.75	97.2
#10 US MESH	2	97.0
#20 US MESH	0.85	96.7
#40 US MESH	0.425	95.4
#60 US MESH	0.25	90.6
#100 US MESH	0.15	81.0
#140 US MESH	0.106	71.1
#200 US MESH	0.075	61.3
	0.0430	36.6
	0.0333	19.8
	0.0215	15.3
	0.0127	11.5
	0.0090	9.0
	0.0064	7.2
	0.0046	6.0
	0.0031	5.6
	0.0013	5.0

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

LH/OA

11/9/2016

LH

11/15/2016

Tech

Date

Checked

Date

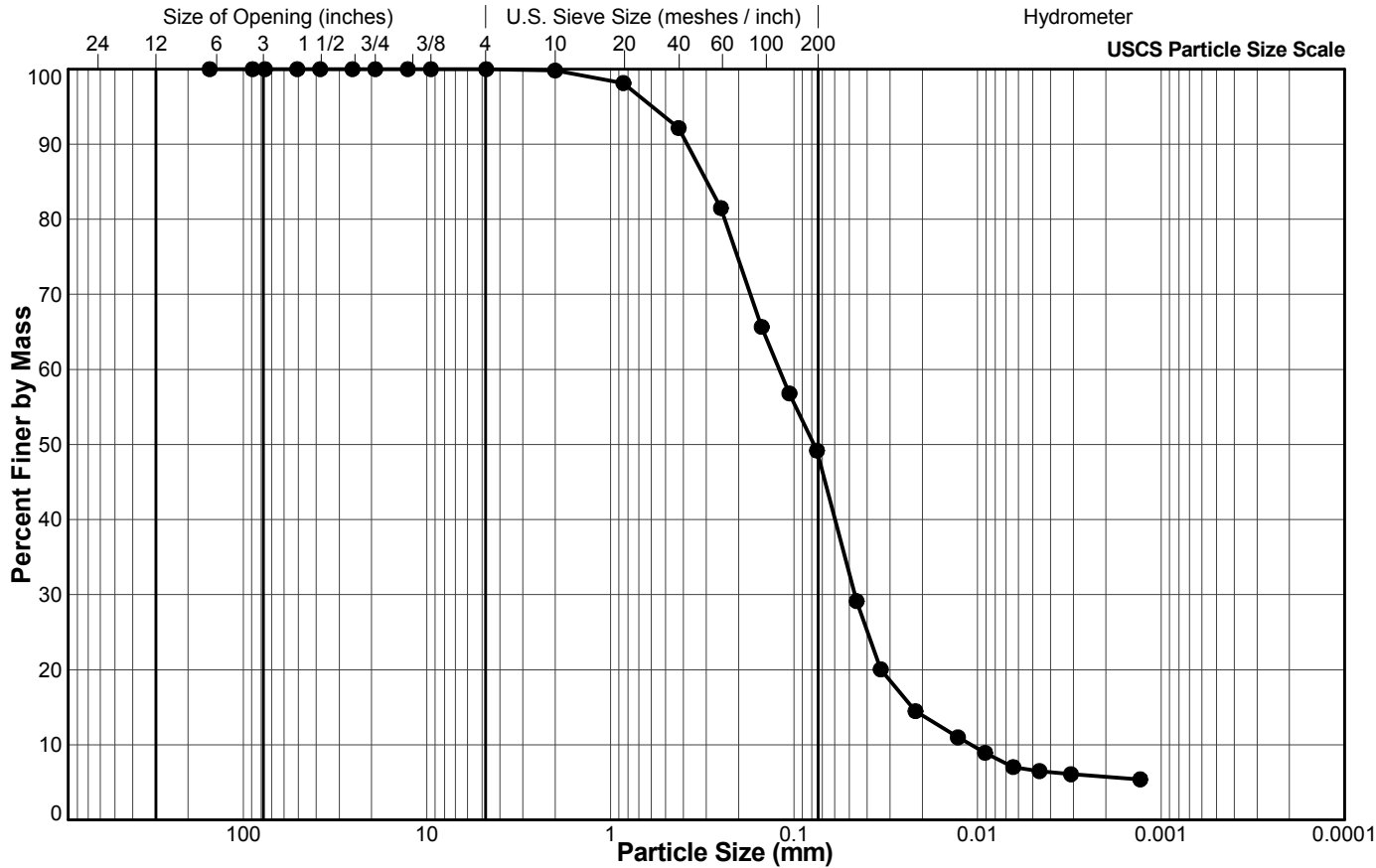


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: E-4C
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	100.0
1/2"	12.7	100.0
3/8"	9.5	100.0
#4 US MESH	4.75	100.0
#10 US MESH	2	99.8
#20 US MESH	0.85	98.1
#40 US MESH	0.425	92.2
#60 US MESH	0.25	81.5
#100 US MESH	0.15	65.7
#140 US MESH	0.106	56.8
#200 US MESH	0.075	49.2
	0.0456	29.1
	0.0337	20.0
	0.0218	14.5
	0.0128	11.0
	0.0091	8.9
	0.0064	7.0
	0.0046	6.5
	0.0031	6.1
	0.0013	5.4

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

LH/OA

11/8/2016

LH

11/15/2016

Tech

Date

Checked

Date

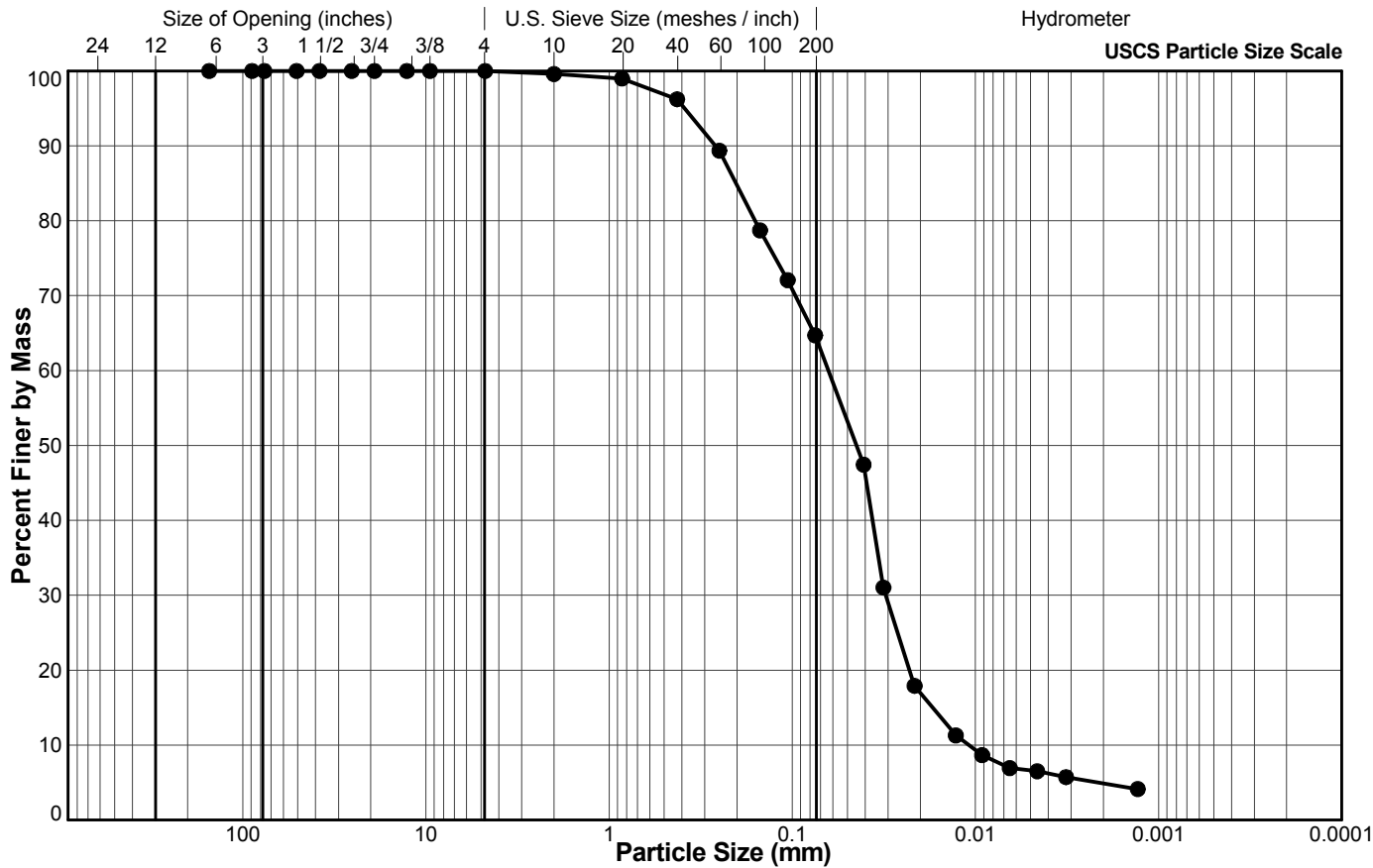


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: E-6A
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	100.0
1/2"	12.7	100.0
3/8"	9.5	100.0
#4 US MESH	4.75	100.0
#10 US MESH	2	99.6
#20 US MESH	0.85	99.0
#40 US MESH	0.425	96.2
#60 US MESH	0.25	89.4
#100 US MESH	0.15	78.7
#140 US MESH	0.106	72.1
#200 US MESH	0.075	64.7
	0.0408	47.4
	0.0318	31.0
	0.0215	17.9
	0.0128	11.3
	0.0092	8.7
	0.0065	6.9
	0.0046	6.5
	0.0032	5.7
	0.0013	4.1

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

LH/OA

11/10/2016

LH

11/15/2016

Tech

Date

Checked

Date

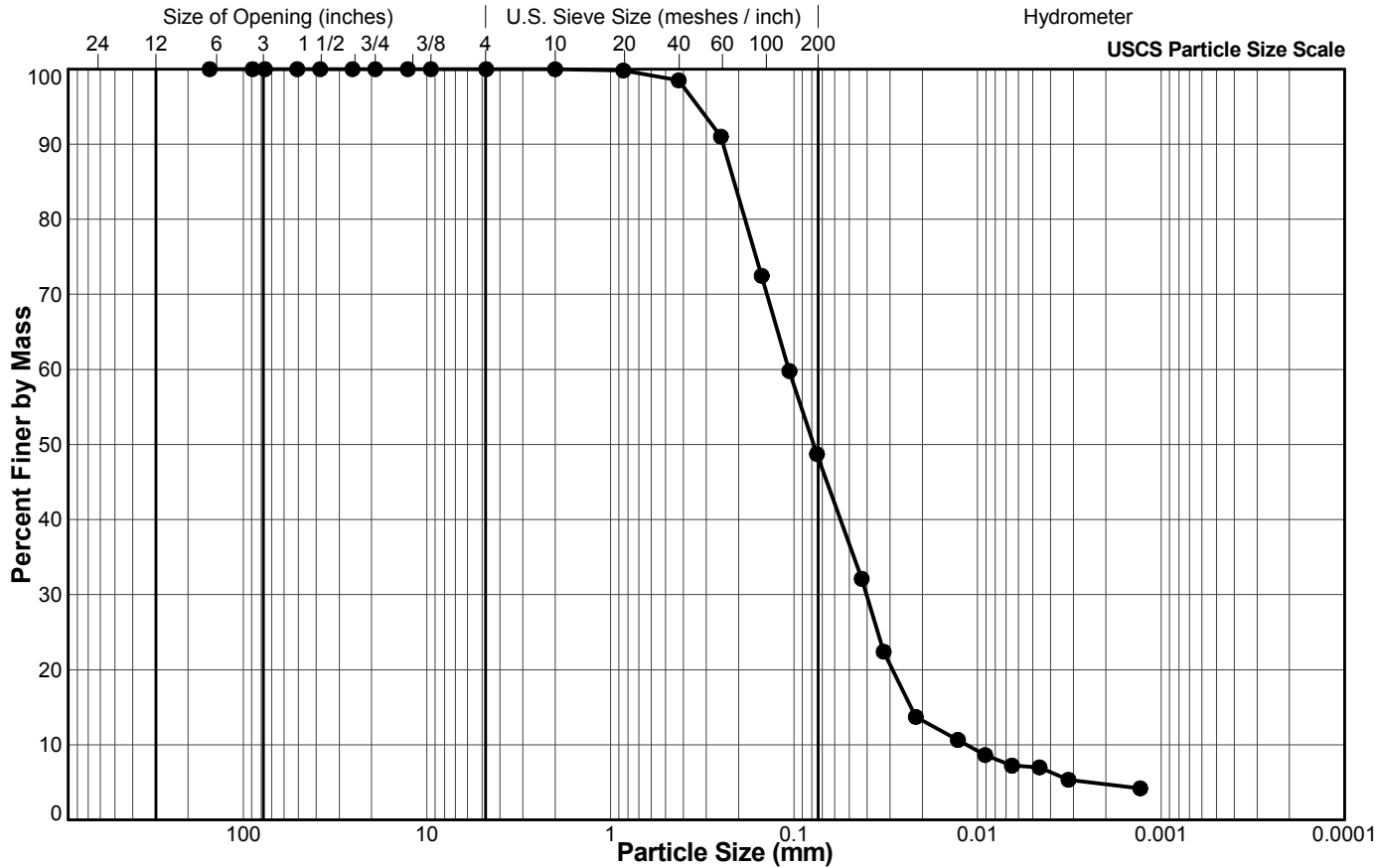


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: E-6B
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	100.0
1/2"	12.7	100.0
3/8"	9.5	100.0
#4 US MESH	4.75	100.0
#10 US MESH	2	100.0
#20 US MESH	0.85	99.8
#40 US MESH	0.425	98.5
#60 US MESH	0.25	91.0
#100 US MESH	0.15	72.5
#140 US MESH	0.106	59.8
#200 US MESH	0.075	48.7
	0.0428	32.1
	0.0325	22.4
	0.0217	13.7
	0.0128	10.6
	0.0091	8.6
	0.0065	7.2
	0.0046	7.0
	0.0032	5.3
	0.0013	4.2

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

LH/OA

11/8/2016

LH

11/15/2016

Tech

Date

Checked

Date

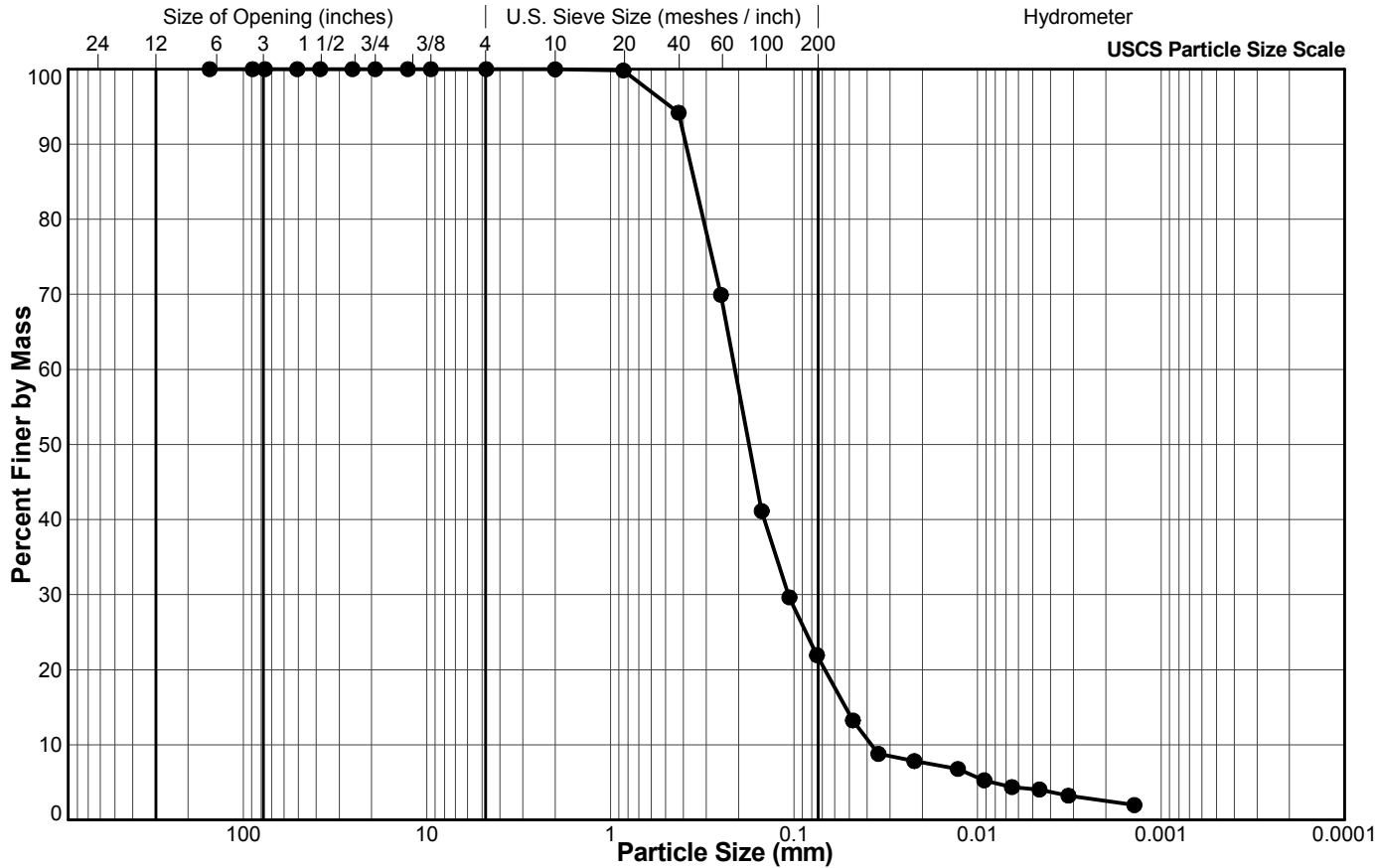


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: E-6C
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	100.0
1/2"	12.7	100.0
3/8"	9.5	100.0
#4 US MESH	4.75	100.0
#10 US MESH	2	100.0
#20 US MESH	0.85	99.8
#40 US MESH	0.425	94.2
#60 US MESH	0.25	69.9
#100 US MESH	0.15	41.1
#140 US MESH	0.106	29.6
#200 US MESH	0.075	21.9
	0.0478	13.2
	0.0347	8.8
	0.0221	7.8
	0.0128	6.8
	0.0092	5.3
	0.0065	4.4
	0.0046	4.0
	0.0032	3.2
	0.0014	2.0

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

LH/OA

11/10/2016

LH

11/15/2016

Tech

Date

Checked

Date

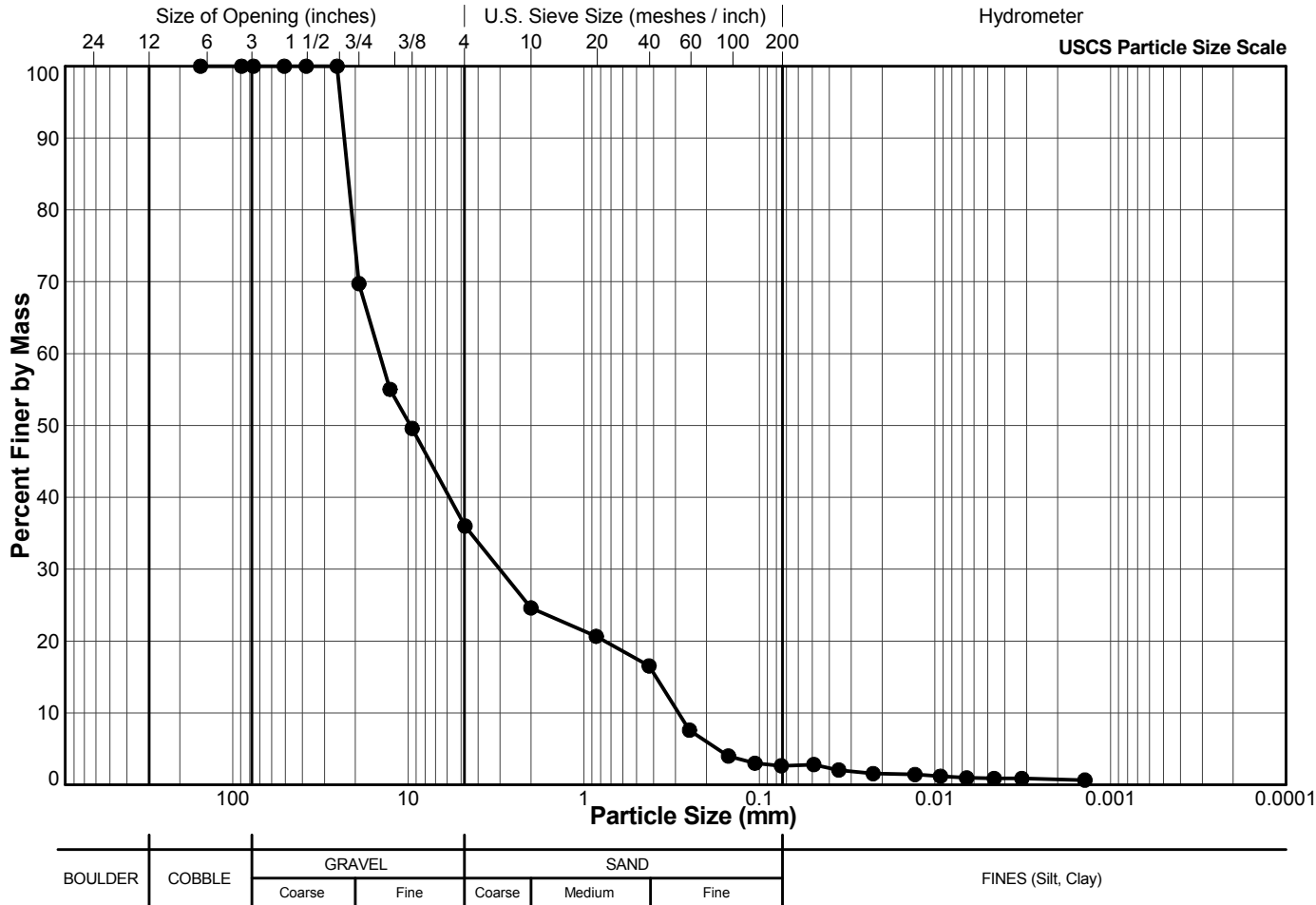


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: E-8A
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	69.7
1/2"	12.7	55.0
3/8"	9.5	49.6
#4 US MESH	4.75	36.0
#10 US MESH	2	24.6
#20 US MESH	0.85	20.7
#40 US MESH	0.425	16.5
#60 US MESH	0.25	7.6
#100 US MESH	0.15	4.0
#140 US MESH	0.106	3.0
#200 US MESH	0.075	2.6
	0.0490	2.8
	0.0353	2.1
	0.0225	1.6
	0.0130	1.4
	0.0093	1.2
	0.0066	1.0
	0.0046	0.9
	0.0032	0.9
	0.0014	0.7

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

LH/OA

11/8/2016

LH

11/15/2016

Tech

Date

Checked

Date

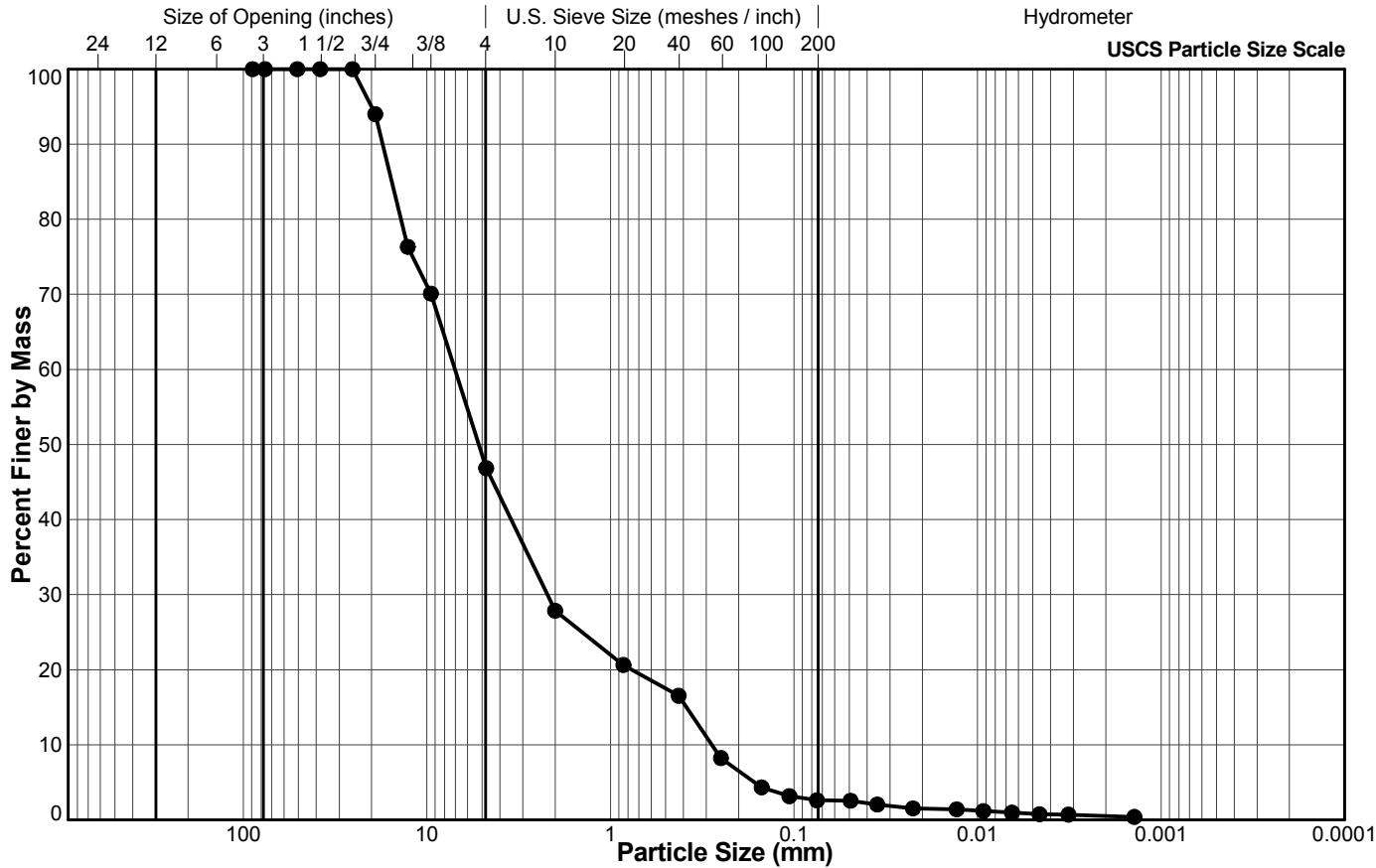


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: E-8B
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	94.0
1/2"	12.7	76.3
3/8"	9.5	70.1
#4 US MESH	4.75	46.8
#10 US MESH	2	27.9
#20 US MESH	0.85	20.6
#40 US MESH	0.425	16.5
#60 US MESH	0.25	8.2
#100 US MESH	0.15	4.3
#140 US MESH	0.106	3.2
#200 US MESH	0.075	2.6
	0.0492	2.5
	0.0352	2.0
	0.0225	1.5
	0.0130	1.4
	0.0093	1.2
	0.0065	1.0
	0.0046	0.8
	0.0032	0.7
	0.0014	0.4

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

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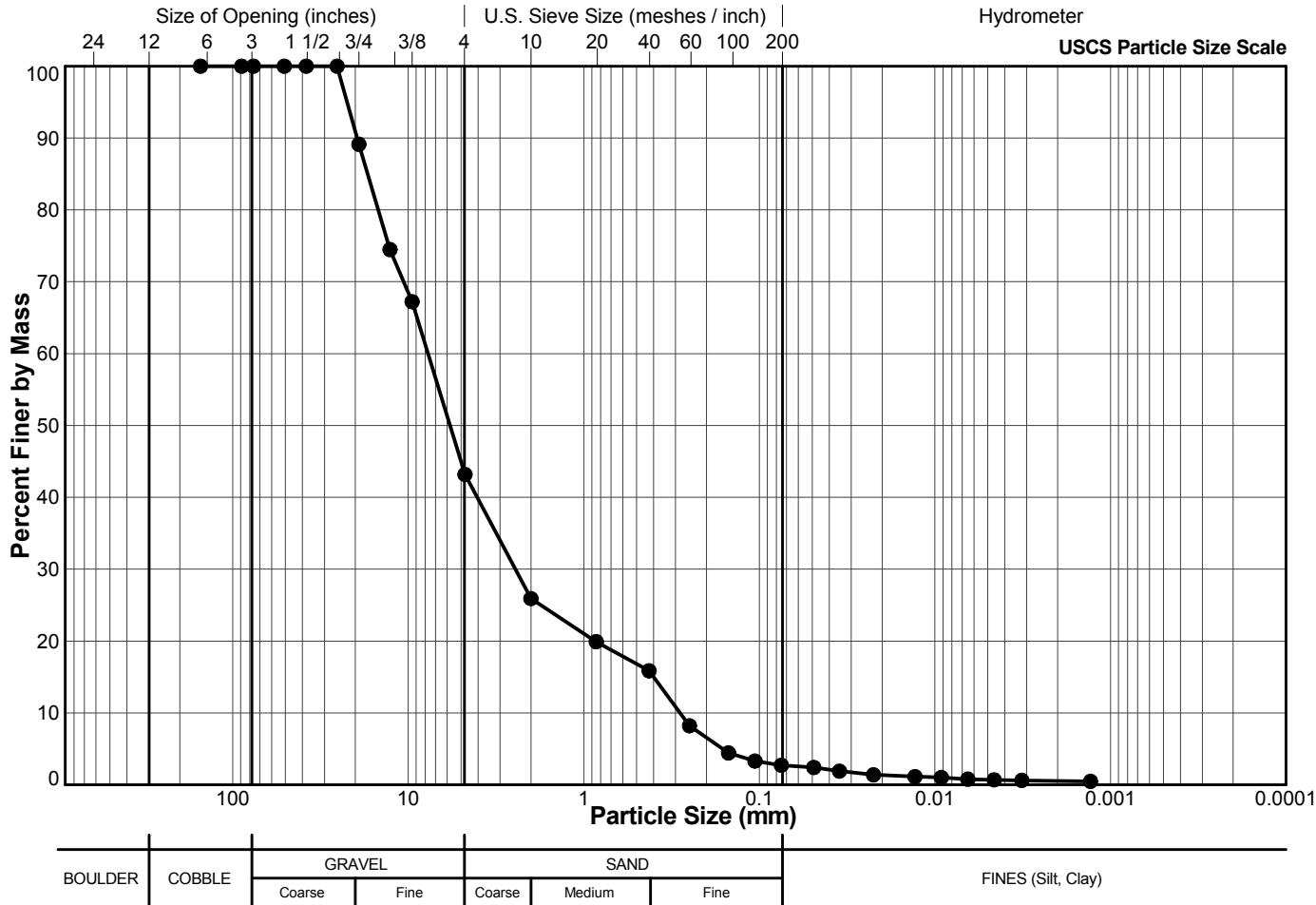


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: E-8C
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	89.1
1/2"	12.7	74.5
3/8"	9.5	67.2
#4 US MESH	4.75	43.2
#10 US MESH	2	25.9
#20 US MESH	0.85	19.9
#40 US MESH	0.425	15.9
#60 US MESH	0.25	8.2
#100 US MESH	0.15	4.4
#140 US MESH	0.106	3.3
#200 US MESH	0.075	2.7
	0.0490	2.4
	0.0350	1.9
	0.0224	1.4
	0.0130	1.1
	0.0092	1.0
	0.0065	0.8
	0.0046	0.7
	0.0032	0.6
	0.0013	0.5

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

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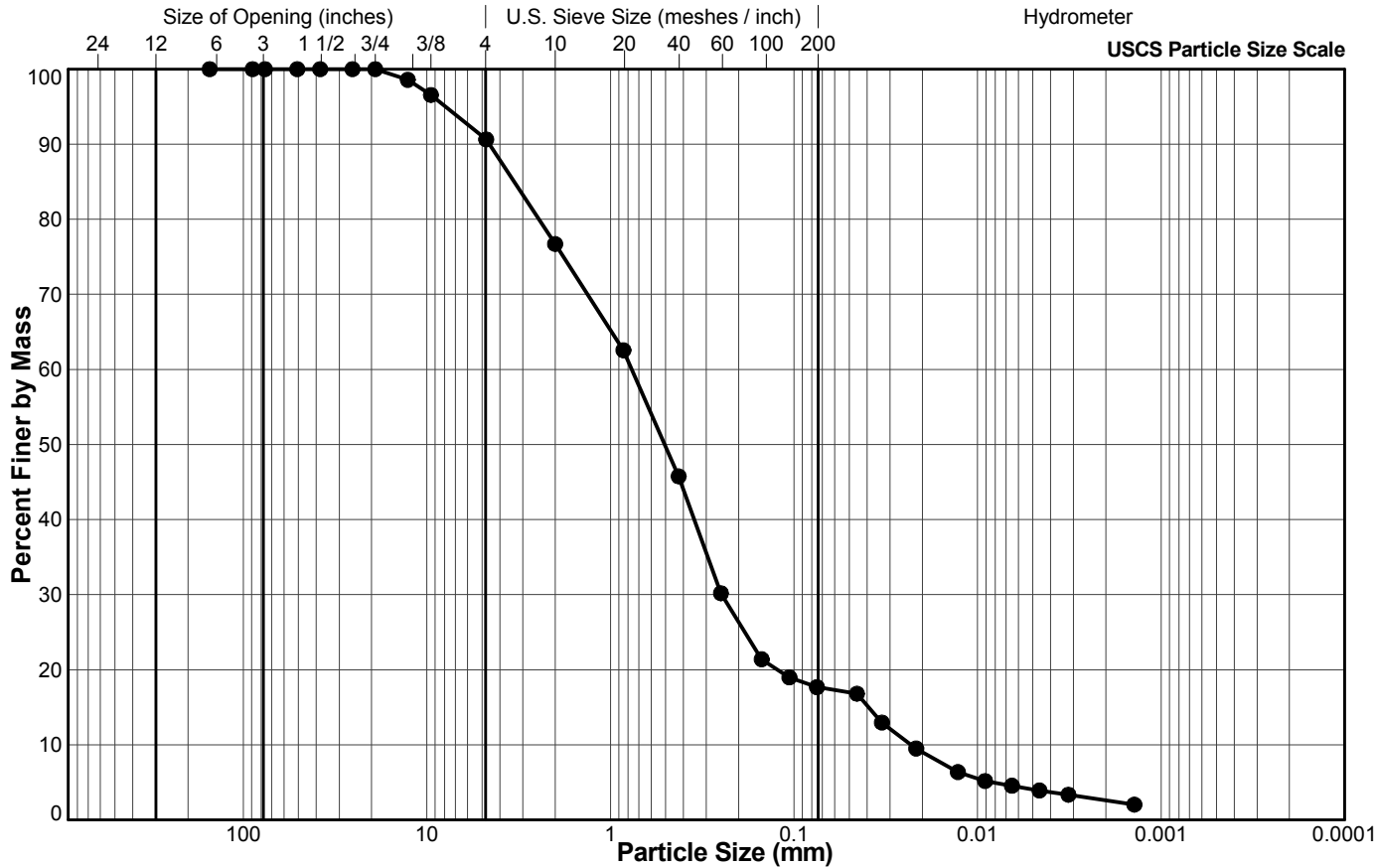


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: PORCUPINE CR-A
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	100.0
1/2"	12.7	98.6
3/8"	9.5	96.6
#4 US MESH	4.75	90.6
#10 US MESH	2	76.7
#20 US MESH	0.85	62.6
#40 US MESH	0.425	45.8
#60 US MESH	0.25	30.2
#100 US MESH	0.15	21.4
#140 US MESH	0.106	19.0
#200 US MESH	0.075	17.7
	0.0454	16.8
	0.0332	13.0
	0.0216	9.5
	0.0128	6.4
	0.0091	5.2
	0.0065	4.5
	0.0046	3.9
	0.0032	3.3
	0.0014	2.0

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

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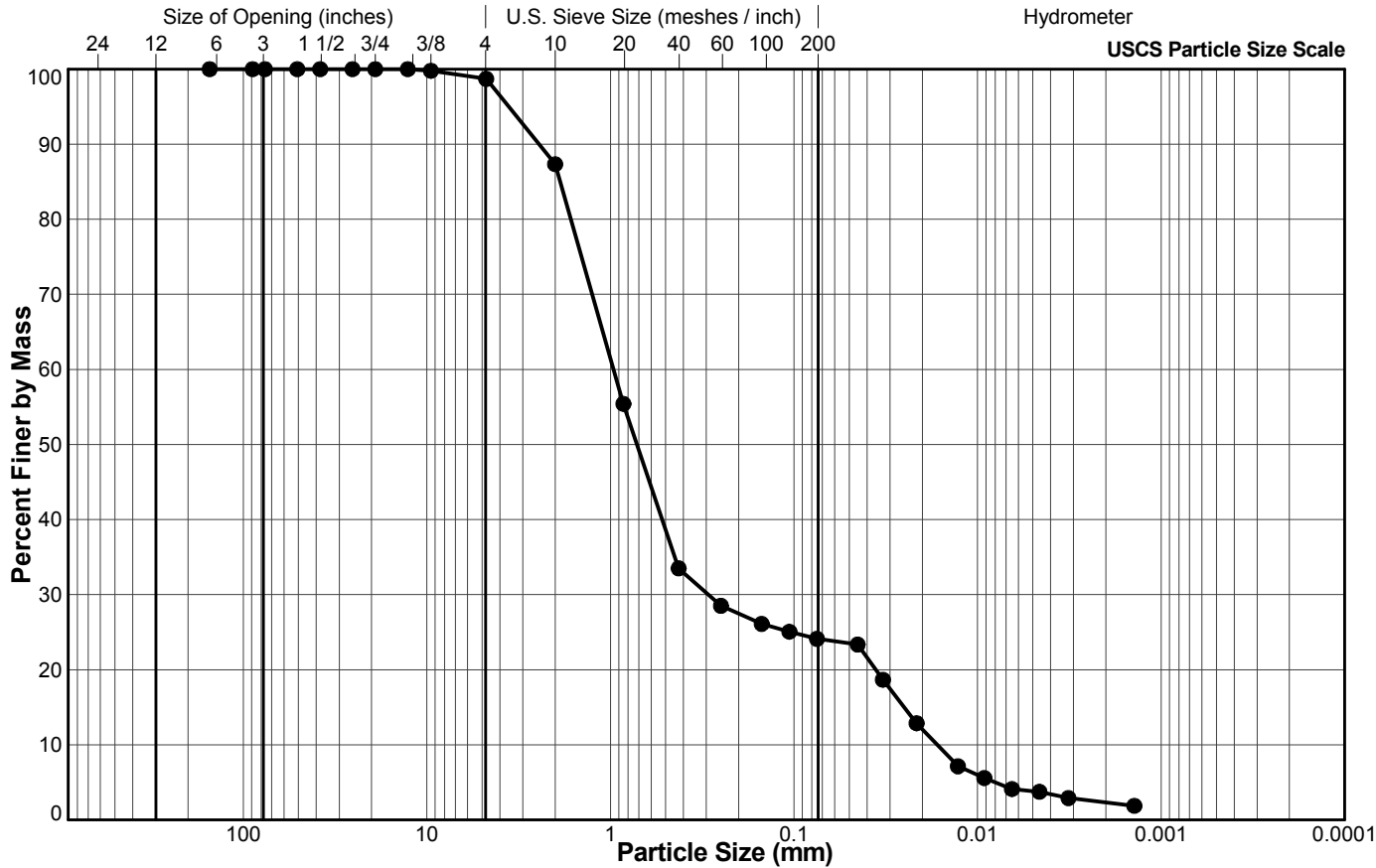


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: PORCUPINE CR-B
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	100.0
1/2"	12.7	100.0
3/8"	9.5	99.8
#4 US MESH	4.75	98.7
#10 US MESH	2	87.3
#20 US MESH	0.85	55.4
#40 US MESH	0.425	33.5
#60 US MESH	0.25	28.5
#100 US MESH	0.15	26.1
#140 US MESH	0.106	25.1
#200 US MESH	0.075	24.1
	0.0450	23.4
	0.0328	18.7
	0.0215	12.9
	0.0128	7.1
	0.0092	5.6
	0.0065	4.1
	0.0046	3.7
	0.0032	2.9
	0.0014	1.9

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

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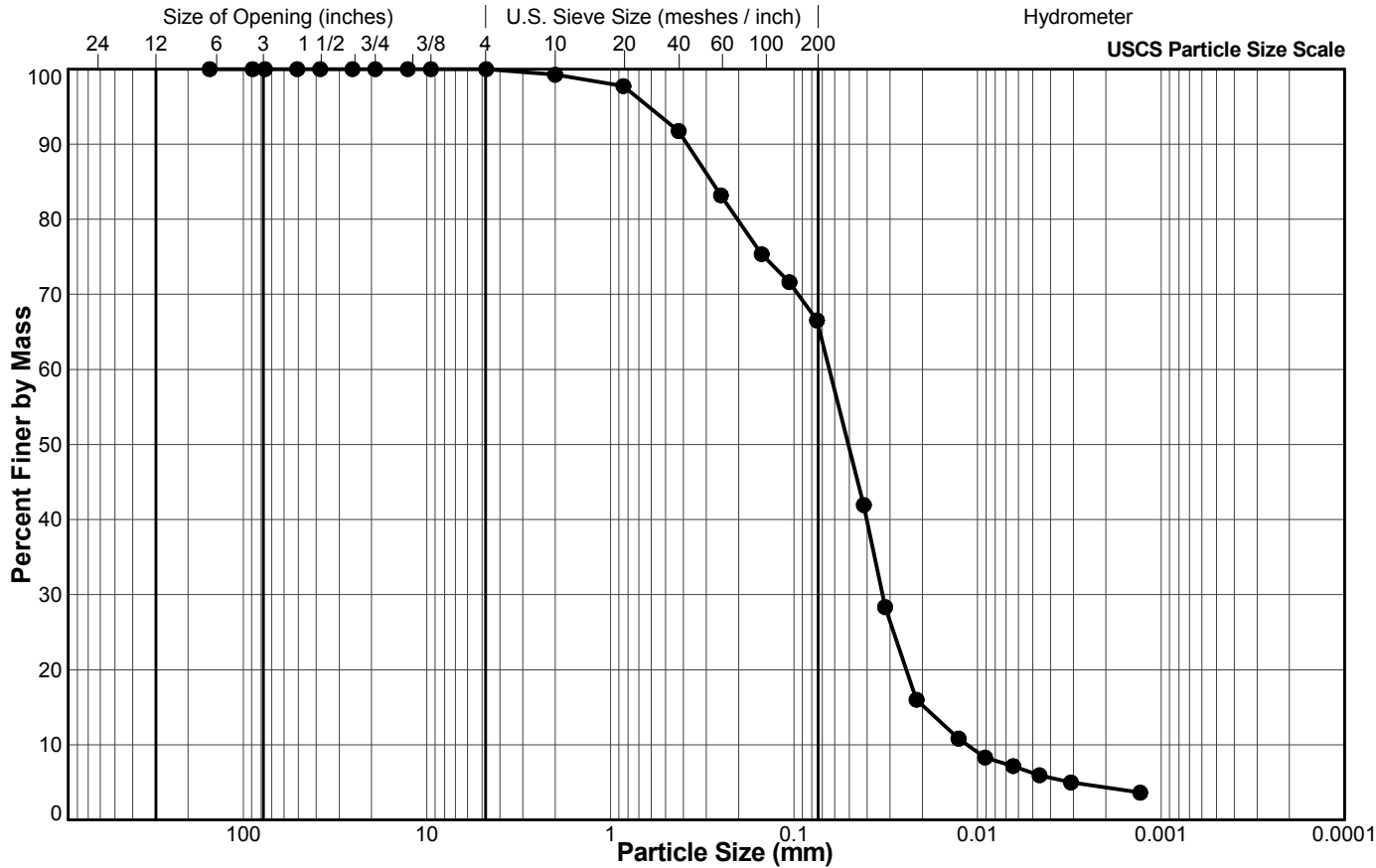


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: R-2A
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	100.0
1/2"	12.7	100.0
3/8"	9.5	100.0
#4 US MESH	4.75	100.0
#10 US MESH	2	99.3
#20 US MESH	0.85	97.7
#40 US MESH	0.425	91.8
#60 US MESH	0.25	83.2
#100 US MESH	0.15	75.4
#140 US MESH	0.106	71.6
#200 US MESH	0.075	66.5
	0.0475	41.9
	0.0319	28.3
	0.0215	16.0
	0.0127	10.8
	0.0091	8.3
	0.0064	7.2
	0.0046	5.9
	0.0031	5.0
	0.0013	3.6

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

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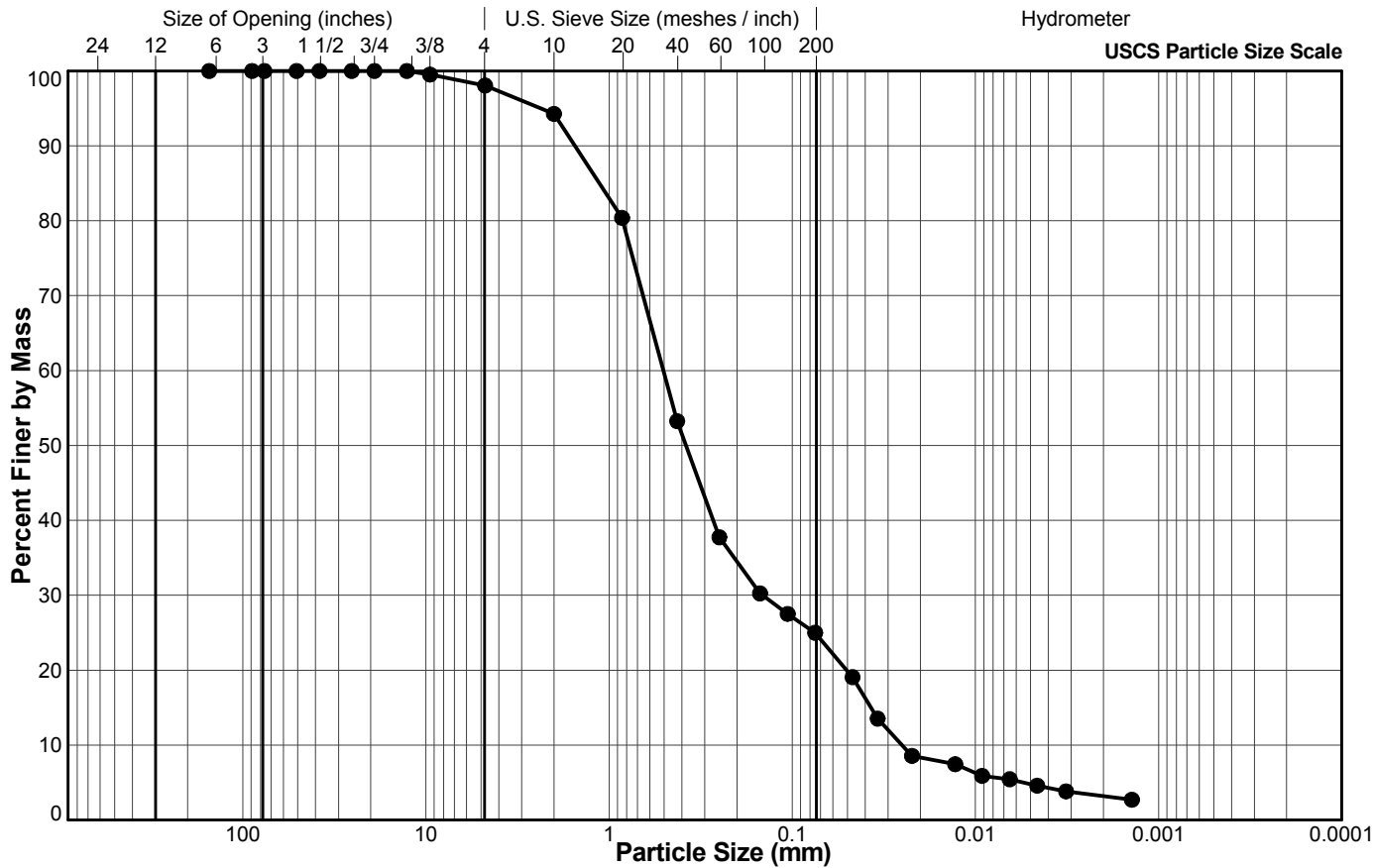


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: R-2B
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	100.0
1/2"	12.7	100.0
3/8"	9.5	99.5
#4 US MESH	4.75	98.1
#10 US MESH	2	94.3
#20 US MESH	0.85	80.4
#40 US MESH	0.425	53.2
#60 US MESH	0.25	37.7
#100 US MESH	0.15	30.2
#140 US MESH	0.106	27.5
#200 US MESH	0.075	25.0
	0.0469	19.1
	0.0342	13.5
	0.0222	8.6
	0.0129	7.4
	0.0092	5.9
	0.0065	5.4
	0.0046	4.6
	0.0032	3.8
	0.0014	2.7

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

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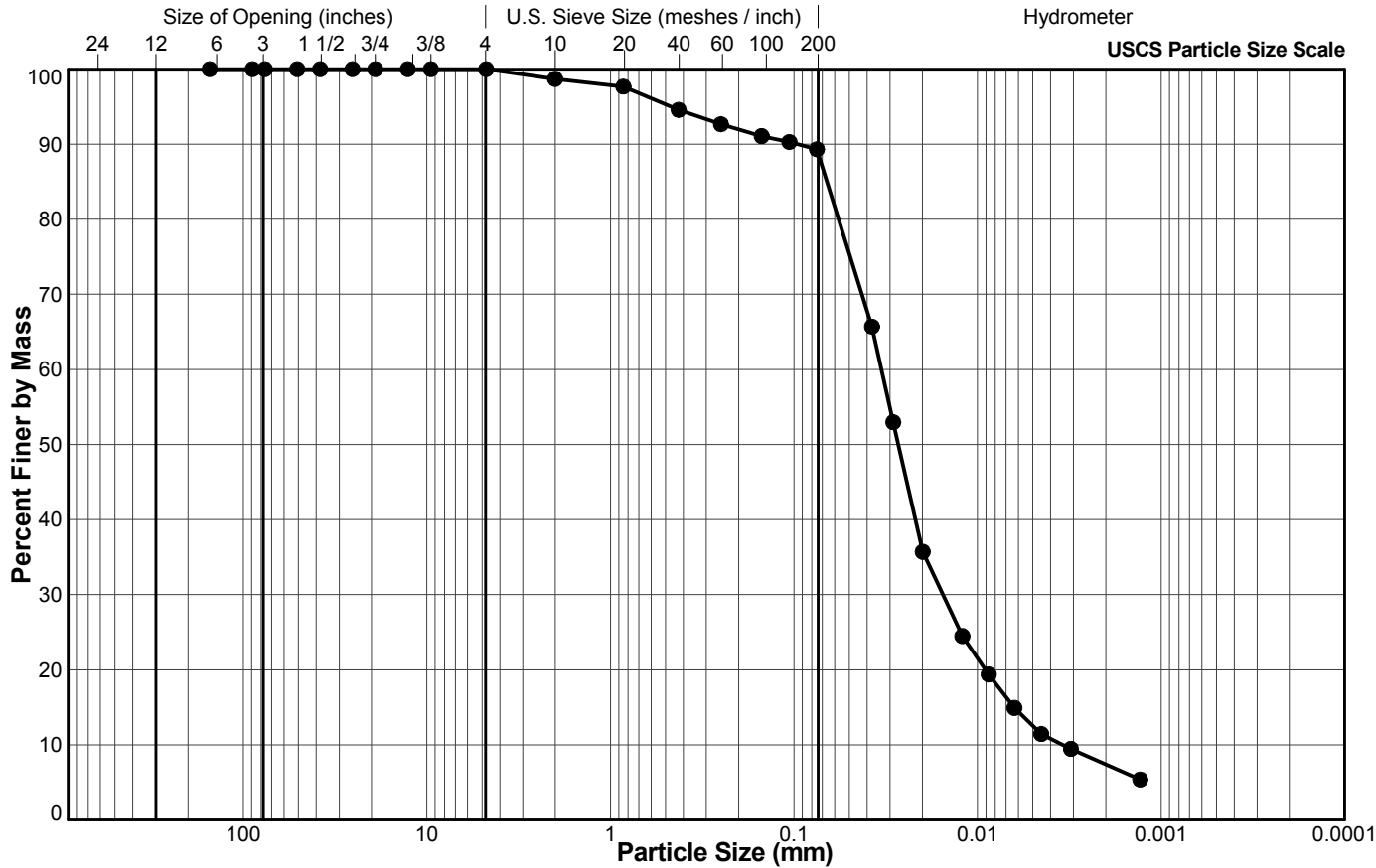


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: R-2C
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	100.0
1/2"	12.7	100.0
3/8"	9.5	100.0
#4 US MESH	4.75	100.0
#10 US MESH	2	98.7
#20 US MESH	0.85	97.7
#40 US MESH	0.425	94.6
#60 US MESH	0.25	92.7
#100 US MESH	0.15	91.1
#140 US MESH	0.106	90.3
#200 US MESH	0.075	89.3
	0.0376	65.7
	0.0288	53.0
	0.0199	35.7
	0.0121	24.5
	0.0087	19.4
	0.0063	14.9
	0.0045	11.4
	0.0031	9.5
	0.0013	5.4

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

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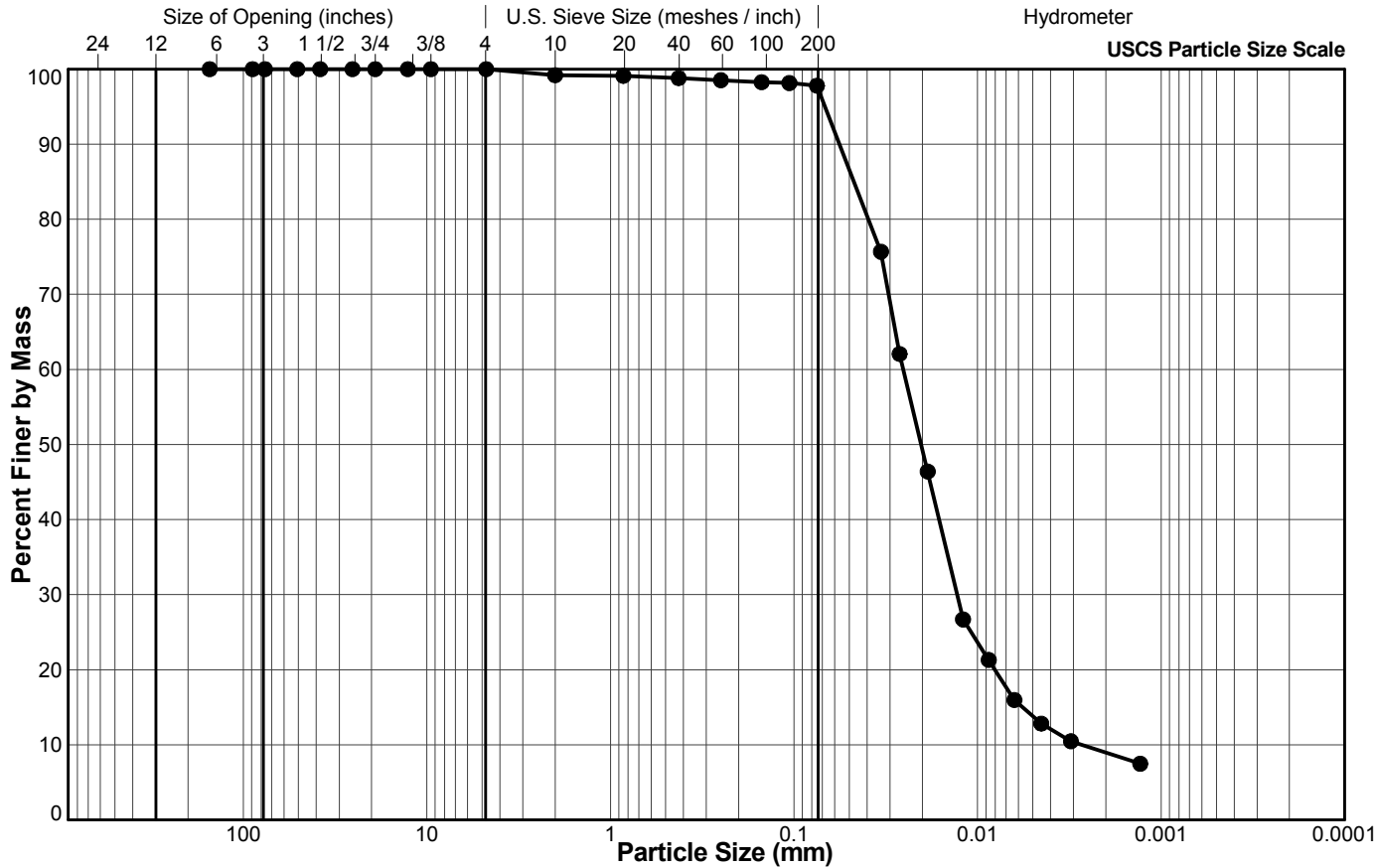


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: R-3C
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	100.0
1/2"	12.7	100.0
3/8"	9.5	100.0
#4 US MESH	4.75	100.0
#10 US MESH	2	99.2
#20 US MESH	0.85	99.1
#40 US MESH	0.425	98.8
#60 US MESH	0.25	98.5
#100 US MESH	0.15	98.3
#140 US MESH	0.106	98.2
#200 US MESH	0.075	97.8
	0.0336	75.7
	0.0266	62.1
	0.0187	46.4
	0.0120	26.7
	0.0087	21.3
	0.0063	16.0
	0.0045	12.8
	0.0031	10.5
	0.0013	7.5

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

LH/OA

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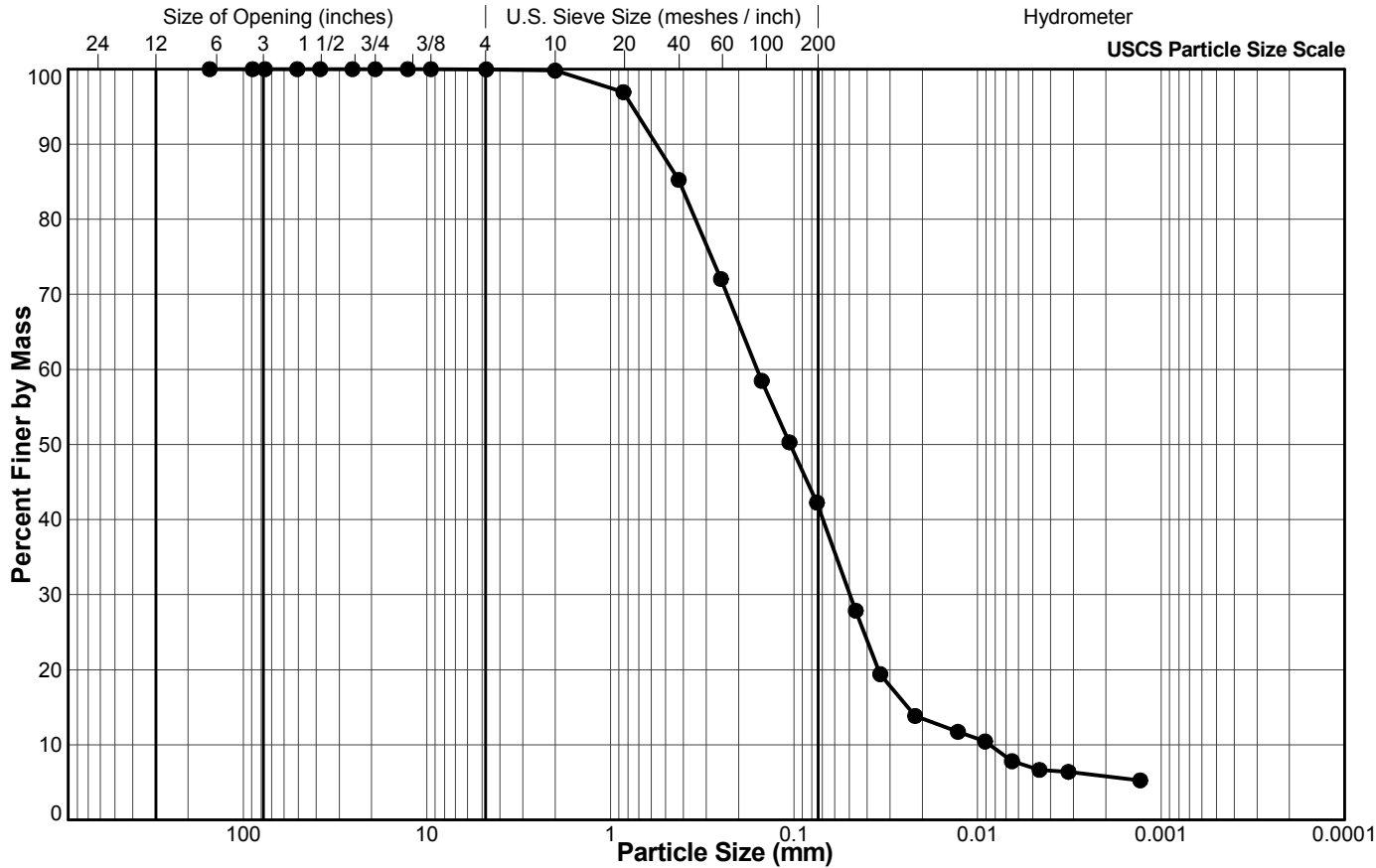


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: R-4A
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	100.0
1/2"	12.7	100.0
3/8"	9.5	100.0
#4 US MESH	4.75	100.0
#10 US MESH	2	99.8
#20 US MESH	0.85	96.9
#40 US MESH	0.425	85.3
#60 US MESH	0.25	72.0
#100 US MESH	0.15	58.5
#140 US MESH	0.106	50.3
#200 US MESH	0.075	42.3
	0.0461	27.9
	0.0339	19.4
	0.0219	13.8
	0.0128	11.7
	0.0091	10.4
	0.0065	7.8
	0.0046	6.7
	0.0032	6.4
	0.0013	5.3

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

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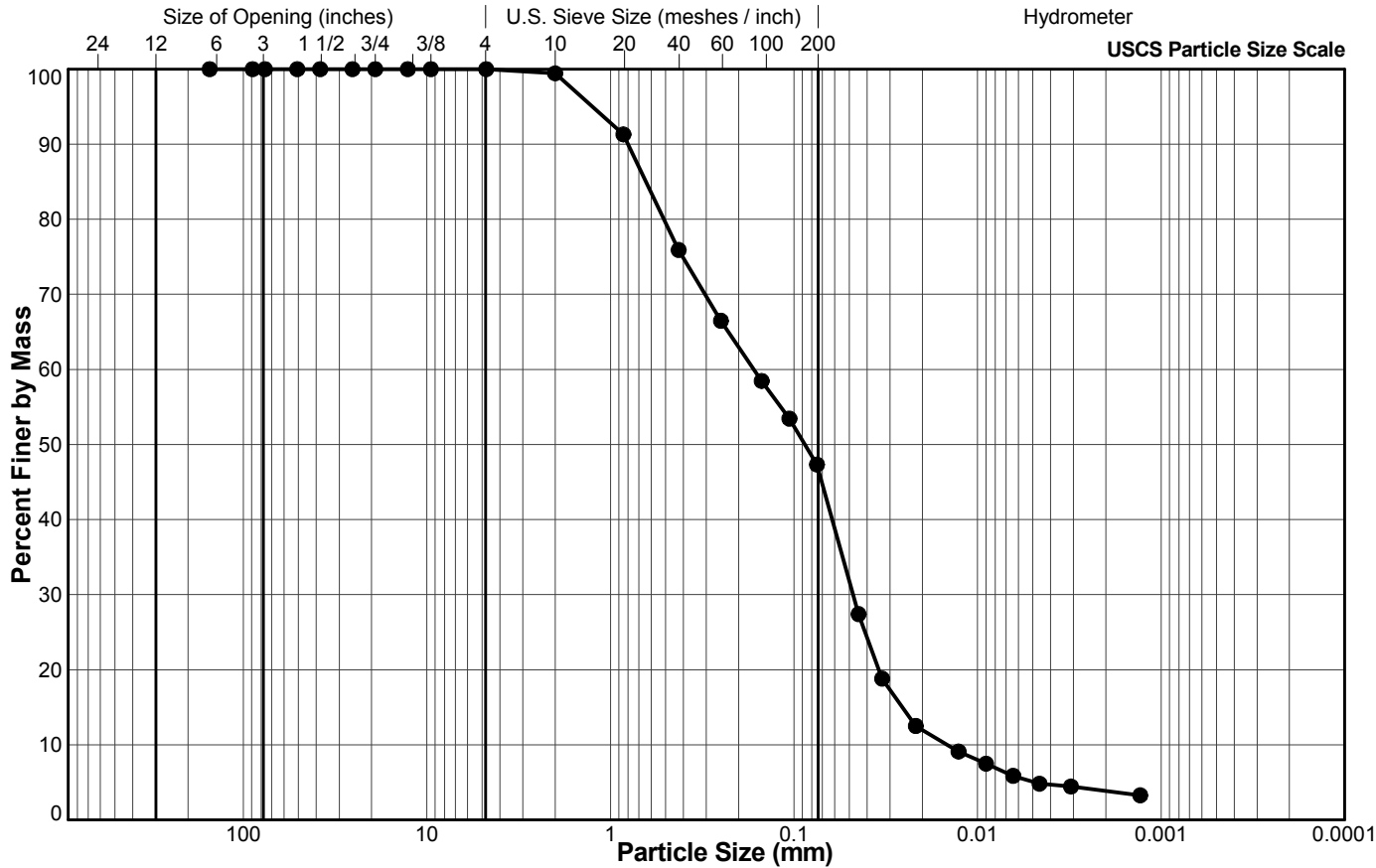


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: R-4C
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	100.0
3/4"	19.1	100.0
1/2"	12.7	100.0
3/8"	9.5	100.0
#4 US MESH	4.75	100.0
#10 US MESH	2	99.4
#20 US MESH	0.85	91.3
#40 US MESH	0.425	75.9
#60 US MESH	0.25	66.5
#100 US MESH	0.15	58.5
#140 US MESH	0.106	53.5
#200 US MESH	0.075	47.3
	0.0445	27.4
	0.0331	18.8
	0.0217	12.5
	0.0127	9.1
	0.0090	7.5
	0.0064	5.9
	0.0046	4.8
	0.0031	4.4
	0.0013	3.3

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

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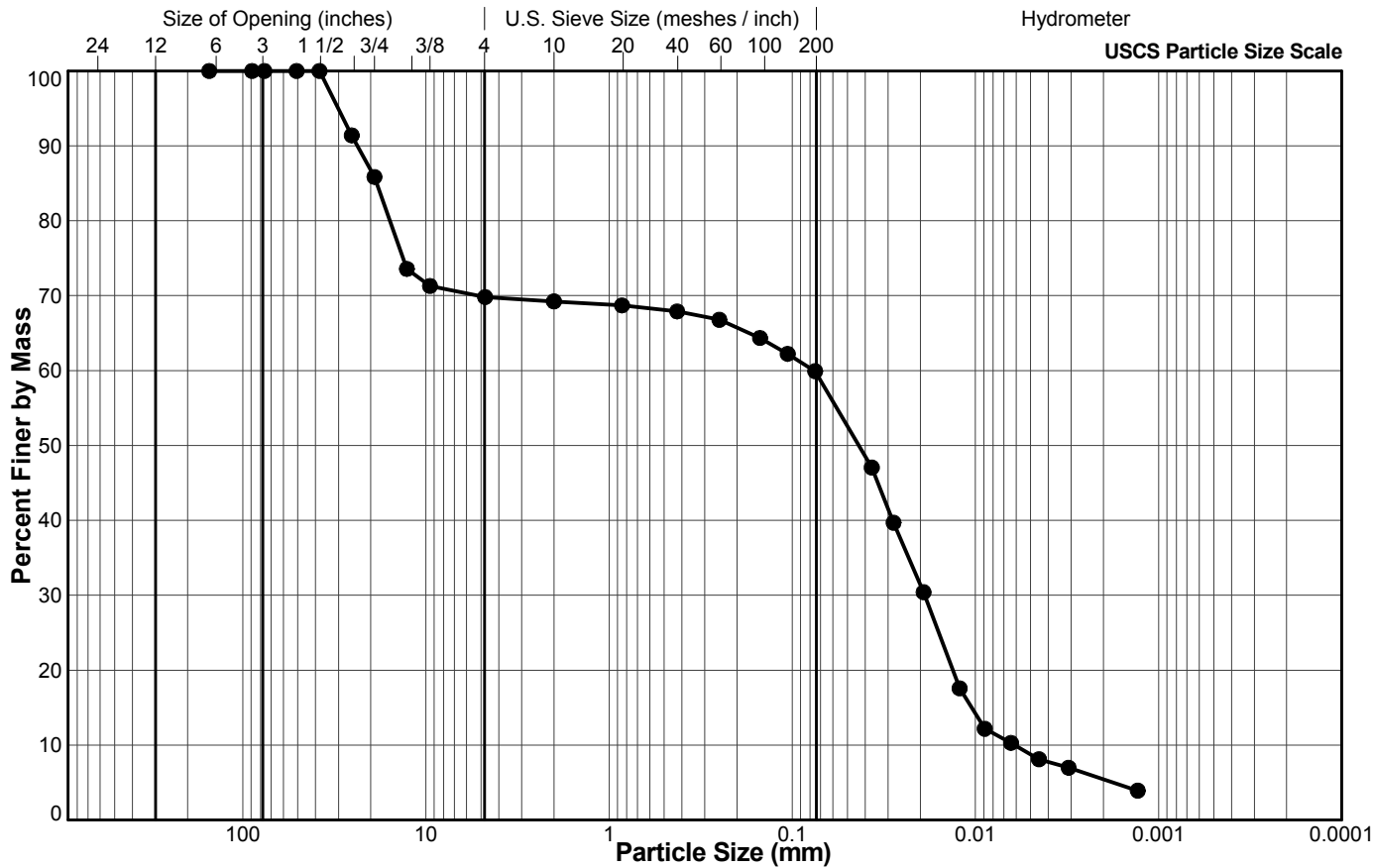


SUMMARY OF PARTICLE SIZE DISTRIBUTION

ASTM D 422

Client: ALS
 Project: L1829679 - LaBerge
 Location: Clinton Creek, Yukon
 Project No.: 1667729 Phase: 1000

Sample Location: LaBerge
 Sample No.: R-6A
 Depth (m): N/A
 Lab Schedule No.:



Legend

Sieve Size (USS)	Particle Size (mm)	Percent Passing
6"	152.4	100.0
3.5"	88.9	100.0
3"	76.2	100.0
2"	50.8	100.0
1 1/2"	38.1	100.0
1"	25.4	91.4
3/4"	19.1	85.8
1/2"	12.7	73.6
3/8"	9.5	71.3
#4 US MESH	4.75	69.8
#10 US MESH	2	69.2
#20 US MESH	0.85	68.7
#40 US MESH	0.425	67.9
#60 US MESH	0.25	66.8
#100 US MESH	0.15	64.4
#140 US MESH	0.106	62.2
#200 US MESH	0.075	59.9
	0.0368	47.1
	0.0280	39.7
	0.0192	30.4
	0.0122	17.6
	0.0089	12.2
	0.0064	10.3
	0.0045	8.1
	0.0031	7.0
	0.0013	3.9

BOULDER	COBBLE	GRAVEL		SAND			FINES (Silt, Clay)
		Coarse	Fine	Coarse	Medium	Fine	

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MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974
Client: ALS	Test Pit: -	
Project: L1829672 - LaBerge	Sample: E-1A	
Location: Clinton Creek, Yukon	Depth (m): N/A	
Project No.: 1667729-1000	Lab ID No: 440	
Preparation Method: Method A	Other Remarks:	
Oven Temperature: 110±5°C		
Furnace Temperature: 440±22°C		

Moisture Content %	35.8
Ash Content %	97.5
Organic Matter %	2.5

Note: percentages are based on oven-dried soil mass

** The test data given herein pertain to the sample provided only. This report constitutes a testing service only. Interpretation of the data can be provided upon request.*

OA/LH	November 8, 2016	LH	November 12, 2016
TESTED BY	DATE	CHECKED BY	DATE

Golder Associates Ltd
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MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974
Client: ALS	Test Pit: -	
Project: L1829672 - LaBerge	Sample: E-1B	
Location: Clinton Creek, Yukon	Depth (m): N/A	
Project No.: 1667729-1000	Lab ID No: 440	
Preparation Method: Method A	Other Remarks:	
Oven Temperature: 110±5°C		
Furnace Temperature: 440±22°C		

Moisture Content %	22.0
Ash Content %	97.6
Organic Matter %	2.4

Note: percentages are based on oven-dried soil mass

** The test data given herein pertain to the sample provided only. This report constitutes a testing service only. Interpretation of the data can be provided upon request.*

OA/LH	November 8, 2016	LH	November 12, 2016
TESTED BY	DATE	CHECKED BY	DATE

MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974	
Client: ALS		Test Pit: -	
Project: L1829672 - LaBerge		Sample: E-1C	
Location: Clinton Creek, Yukon		Depth (m): N/A	
Project No.: 1667729-1000		Lab ID No: 440	
Preparation Method: Method A		Other Remarks:	
Oven Temperature: 110±5°C			
Furnace Temperature: 440±22°C			

Moisture Content %	22.1
Ash Content %	98.4
Organic Matter %	1.6

Note: percentages are based on oven-dried soil mass

** The test data given herein pertain to the sample provided only. This report constitutes a testing service only. Interpretation of the data can be provided upon request.*

OA/LH	November 8, 2016	LH	November 12, 2016
TESTED BY	DATE	CHECKED BY	DATE

MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974	
Client: ALS		Test Pit: -	
Project: L1829672 - LaBerge		Sample: E-2A	
Location: Clinton Creek, Yukon		Depth (m): N/A	
Project No.: 1667729-1000		Lab ID No: 440	
Preparation Method:	Method A	Other Remarks:	
Oven Temperature:	110±5°C		
Furnace Temperature:	440±22°C		

Moisture Content %	27.5
Ash Content %	98.5
Organic Matter %	1.5

Note: percentages are based on oven-dried soil mass

** The test data given herein pertain to the sample provided only. This report constitutes a testing service only. Interpretation of the data can be provided upon request.*

OA/LH	November 8, 2016	LH	November 12, 2016
TESTED BY	DATE	CHECKED BY	DATE

MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974	
Client: ALS		Test Pit: -	
Project: L1829672 - LaBerge		Sample: E-2B	
Location: Clinton Creek, Yukon		Depth (m): N/A	
Project No.: 1667729-1000		Lab ID No: 440	
Preparation Method:	Method A	Other Remarks:	
Oven Temperature:	110±5°C		
Furnace Temperature:	440±22°C		

Moisture Content %	32.0
Ash Content %	97.6
Organic Matter %	2.4

Note: percentages are based on oven-dried soil mass

** The test data given herein pertain to the sample provided only. This report constitutes a testing service only. Interpretation of the data can be provided upon request.*

OA/LH	November 8, 2016	LH	November 12, 2016
TESTED BY	DATE	CHECKED BY	DATE



MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974
Client: ALS		Test Pit: -
Project: L1829672 - LaBerge		Sample: E-2C
Location: Clinton Creek, Yukon		Depth (m): N/A
Project No.: 1667729-1000		Lab ID No: 440
Preparation Method: Method A		Other Remarks:
Oven Temperature: 110±5°C		
Furnace Temperature: 440±22°C		

Moisture Content %	29.8
Ash Content %	97.8
Organic Matter %	2.2

Note: percentages are based on oven-dried soil mass

** The test data given herein pertain to the sample provided only. This report constitutes a testing service only. Interpretation of the data can be provided upon request.*

OA/LH	November 8, 2016	LH	November 12, 2016
TESTED BY	DATE	CHECKED BY	DATE

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MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974
Client: ALS	Test Pit: -	
Project: L1829672 - LaBerge	Sample: E-3A	
Location: Clinton Creek, Yukon	Depth (m): N/A	
Project No.: 1667729-1000	Lab ID No: 440	
Preparation Method: Method A	Other Remarks:	
Oven Temperature: 110±5°C		
Furnace Temperature: 440±22°C		

Moisture Content %	30.3
Ash Content %	96.7
Organic Matter %	3.3

Note: percentages are based on oven-dried soil mass

** The test data given herein pertain to the sample provided only. This report constitutes a testing service only. Interpretation of the data can be provided upon request.*

OA/LH	November 8, 2016	LH	November 12, 2016
TESTED BY	DATE	CHECKED BY	DATE

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MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974
Client: ALS	Test Pit: -	
Project: L1829672 - LaBerge	Sample: E-3B	
Location: Clinton Creek, Yukon	Depth (m): N/A	
Project No.: 1667729-1000	Lab ID No: 440	
Preparation Method: Method A	Other Remarks:	
Oven Temperature: 110±5°C		
Furnace Temperature: 440±22°C		

Moisture Content %	27.0
Ash Content %	97.2
Organic Matter %	2.8

Note: percentages are based on oven-dried soil mass

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MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974
Client: ALS	Test Pit: -	
Project: L1829672 - LaBerge	Sample: E-3C	
Location: Clinton Creek, Yukon	Depth (m): N/A	
Project No.: 1667729-1000	Lab ID No: 440	
Method:	Method A	Other Remarks:
Oven Temperature	110±5°C	
Furnace Temperature	440±22°C	

Moisture Content %	26.7
Ash Content %	97.3
Organic Matter %	2.7

Note: Moisture content as a percentage of oven-dried mass

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OA/LH	November 8, 2016	NAME	DATE
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MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974
Client: ALS		Test Pit: -
Project: L1829672 - LaBerge		Sample: E-4A
Location: Clinton Creek, Yukon		Depth (m): N/A
Project No.: 1667729-1000		Lab ID No: 440
Preparation Method: Method A		Other Remarks:
Oven Temperature: 110±5°C		
Furnace Temperature: 440±22°C		

Moisture Content %	25.8
Ash Content %	97.8
Organic Matter %	2.2

Note: percentages are based on oven-dried soil mass

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OALH	November 8, 2016	LH	November 12, 2016
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MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974
Client: ALS		Test Pit: -
Project: L1829672 - LaBerge		Sample: E-4B
Location: Clinton Creek, Yukon		Depth (m): N/A
Project No.: 1667729-1000		Lab ID No: 440
Preparation Method: Method A		Other Remarks:
Oven Temperature: 110±5°C		
Furnace Temperature: 440±22°C		

Moisture Content %	30.7
Ash Content %	96.4
Organic Matter %	3.6

Note: percentages are based on oven-dried soil mass

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OA/LH	November 8, 2016	LH	November 12, 2016
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MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974
Client: ALS		Test Pit: -
Project: L1829672 - LaBerge		Sample: E-4C
Location: Clinton Creek, Yukon		Depth (m): N/A
Project No.: 1667729-1000		Lab ID No: 440
Preparation Method: Method A		Other Remarks:
Oven Temperature: 110±5°C		
Furnace Temperature: 440±22°C		

Moisture Content %	29.7
Ash Content %	96.3
Organic Matter %	3.7

Note: percentages are based on oven-dried soil mass

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MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974	
Client: ALS		Test Pit: -	
Project: L1829672 - LaBerge		Sample: E-8A	
Location: Clinton Creek, Yukon		Depth (m): N/A	
Project No.: 1667729-1000		Lab ID No: 440	
Preparation Method: Method A		Other Remarks:	
Oven Temperature: 110±5°C			
Furnace Temperature: 440±22°C			

Moisture Content %	10.0
Ash Content %	99.4
Organic Matter %	0.6

Note: percentages are based on oven-dried soil mass

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OA/LH	November 8, 2016	LH	November 12, 2016
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MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974
Client: ALS	Test Pit: -	
Project: L1829672 - LaBerge	Sample: E-8B	
Location: Clinton Creek, Yukon	Depth (m): N/A	
Project No.: 1667729-1000	Lab ID No: 440	
Preparation Method: Method A	Other Remarks:	
Oven Temperature: 110±5°C		
Furnace Temperature: 440±22°C		

Moisture Content %	5.6
Ash Content %	99.6
Organic Matter %	0.4

Note: percentages are based on oven-dried soil mass

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MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974
Client: ALS	Test Pit: -	
Project: L1829672 - LaBerge	Sample: E-8C	
Location: Clinton Creek, Yukon	Depth (m): N/A	
Project No.: 1667729-1000	Lab ID No: 440	
Preparation Method: Method A	Other Remarks:	
Oven Temperature: 110±5°C		
Furnace Temperature: 440±22°C		

Moisture Content %	6.5
Ash Content %	99.5
Organic Matter %	0.5

Note: percentages are based on oven-dried soil mass

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MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974
Client: ALS		Test Pit: -
Project: L1829672 - LaBerge		Sample: PORCUPINE CR-A
Location: Clinton Creek, Yukon		Depth (m): N/A
Project No.: 1667729-1000		Lab ID No: 440
Preparation Method: Method A		Other Remarks:
Oven Temperature: 110±5°C		
Furnace Temperature: 440±22°C		

Moisture Content %	19.1
Ash Content %	97.9
Organic Matter %	2.1

Note: percentages are based on oven-dried soil mass

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MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974
Client: ALS		Test Pit: -
Project: L1829672 - LaBerge		Sample: PORCUPINE CR-B
Location: Clinton Creek, Yukon		Depth (m): N/A
Project No.: 1667729-1000		Lab ID No: 440
Preparation Method: Method A		Other Remarks:
Oven Temperature: 110±5°C		
Furnace Temperature: 440±22°C		

Moisture Content %	24.4
Ash Content %	97.5
Organic Matter %	2.5

Note: percentages are based on oven-dried soil mass

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MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974	
Client: ALS		Test Pit: -	
Project: L1829672 - LaBerge		Sample: PORCUPINE CR-C	
Location: Clinton Creek, Yukon		Depth (m): N/A	
Project No.: 1667729-1000		Lab ID No: 440	
Preparation Method:	Method A	Other Remarks:	
Oven Temperature:	110±5°C		
Furnace Temperature:	440±22°C		

Moisture Content %	18.1
Ash Content %	98.3
Organic Matter %	1.7

Note: percentages are based on oven-dried soil mass

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MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974
Client: ALS	Test Pit: -	
Project: L1829672 - LaBerge	Sample: R-2A	
Location: Clinton Creek, Yukon	Depth (m): N/A	
Project No.: 1667729-1000	Lab ID No: 440	
Preparation Method: Method A	Other Remarks:	
Oven Temperature: 110±5°C		
Furnace Temperature: 440±22°C		

Moisture Content %	44.7
Ash Content %	94.3
Organic Matter %	5.7

Note: percentages are based on oven-dried soil mass

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MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974
Client: ALS	Test Pit: -	
Project: L1829672 - LaBerge	Sample: R-2B	
Location: Clinton Creek, Yukon	Depth (m): N/A	
Project No.: 1667729-1000	Lab ID No: 440	
Preparation Method: Method A	Other Remarks:	
Oven Temperature: 110±5°C		
Furnace Temperature: 440±22°C		

Moisture Content %	23.1
Ash Content %	97.6
Organic Matter %	2.4

Note: percentages are based on oven-dried soil mass

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MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974
Client: ALS		Test Pit: -
Project: L1829672 - LaBerge		Sample: R-2C
Location: Clinton Creek, Yukon		Depth (m): N/A
Project No.: 1667729-1000		Lab ID No: 440
Preparation Method: Method A		Other Remarks:
Oven Temperature: 110±5°C		
Furnace Temperature: 440±22°C		

Moisture Content %	95.5
Ash Content %	83.6
Organic Matter %	16.4

Note: percentages are based on oven-dried soil mass

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MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974
Client: ALS	Test Pit: -	
Project: L1829672 - LaBerge	Sample: R-3C	
Location: Clinton Creek, Yukon	Depth (m): N/A	
Project No.: 1667729-1000	Lab ID No: 440	
Preparation Method: Method A	Other Remarks:	
Oven Temperature: 110±5°C		
Furnace Temperature: 440±22°C		

Moisture Content %	49.9
Ash Content %	91.2
Organic Matter %	8.8

Note: percentages are based on oven-dried soil mass

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MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974
Client: ALS	Test Pit: -	
Project: L1829672 - LaBerge	Sample: R-4A	
Location: Clinton Creek, Yukon	Depth (m): N/A	
Project No.: 1667729-1000	Lab ID No: 440	
Preparation Method: Method A	Other Remarks:	
Oven Temperature: 110±5°C		
Furnace Temperature: 440±22°C		

Moisture Content %	23.6
Ash Content %	97.8
Organic Matter %	2.2

Note: percentages are based on oven-dried soil mass

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MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974
Client: ALS		Test Pit: -
Project: L1829672 - LaBerge		Sample: R-4C
Location: Clinton Creek, Yukon		Depth (m): N/A
Project No.: 1667729-1000		Lab ID No: 440
Preparation Method: Method A		Other Remarks:
Oven Temperature: 110±5°C		
Furnace Temperature: 440±22°C		

Moisture Content %	20.2
Ash Content %	97.9
Organic Matter %	2.1

Note: percentages are based on oven-dried soil mass

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MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974
Client: ALS	Test Pit: -	
Project: L1829672 - LaBerge	Sample: R-6A	
Location: Clinton Creek, Yukon	Depth (m): N/A	
Project No.: 1667729-1000	Lab ID No: 440	
Preparation Method: Method A	Other Remarks:	
Oven Temperature: 110±5°C		
Furnace Temperature: 440±22°C		

Moisture Content %	46.1
Ash Content %	92.8
Organic Matter %	7.2

Note: percentages are based on oven-dried soil mass

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MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974
Client: ALS		Test Pit: -
Project: L1829672 - LaBerge		Sample: E-6A
Location: Clinton Creek, Yukon		Depth (m): N/A
Project No.: 1667729-1000		Lab ID No: 440
Preparation Method: Method A		Other Remarks:
Oven Temperature: 110±5°C		
Furnace Temperature: 440±22°C		

Moisture Content %	28.3
Ash Content %	96.7
Organic Matter %	3.3

Note: percentages are based on oven-dried soil mass

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MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974
Client: ALS	Test Pit: -	
Project: L1829672 - LaBerge	Sample: E-6B	
Location: Clinton Creek, Yukon	Depth (m): N/A	
Project No.: 1667729-1000	Lab ID No: 440	
Preparation Method: Method A	Other Remarks:	
Oven Temperature: 110±5°C		
Furnace Temperature: 440±22°C		

Moisture Content %	27.5
Ash Content %	97.5
Organic Matter %	2.5

Note: percentages are based on oven-dried soil mass

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MOISTURE, ASH, AND ORGANIC MATTER OF ORGANIC SOILS		Reference(s) ASTM D2974	
Client: ALS		Test Pit: -	
Project: L1829672 - LaBerge		Sample: E-6C	
Location: Clinton Creek, Yukon		Depth (m): N/A	
Project No.: 1667729-1000		Lab ID No: 440	
Preparation Method: Method A		Other Remarks:	
Oven Temperature: 110±5°C			
Furnace Temperature: 440±22°C			

Moisture Content %	28.9
Ash Content %	98.1
Organic Matter %	1.9

Note: percentages are based on oven-dried soil mass

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WATER CONTENT DETERMINATION

 Reference(s)
ASTM D 2216

Client: ALS	Project No.: 1667729 Phase: 1000
Project: L1829679 - LaBerge	Lab Schedule No.:
Location: Clinton Creek, Yukon	

Sample Location	Sample No.	Specimen No.	Depth Interval		Water Content (%)
			Depth (m)	Bottom (m)	
LaBerge	E-1A		0.00	0.00	35.8
LaBerge	E-1B		0.00	0.00	22.0
LaBerge	E-1C		0.00	0.00	22.1
LaBerge	E-2A		0.00	0.00	27.5
LaBerge	E-2B		0.00	0.00	32.0
LaBerge	E-2C		0.00	0.00	29.8
LaBerge	E-3A		0.00	0.00	30.3
LaBerge	E-3B		0.00	0.00	27.0
LaBerge	E-3C		0.00	0.00	26.7
LaBerge	E-4A		0.00	0.00	25.8
LaBerge	E-4B		0.00	0.00	30.7
LaBerge	E-4C		0.00	0.00	29.7
LaBerge	E-6A		0.00	0.00	28.3
LaBerge	E-6B		0.00	0.00	27.5
LaBerge	E-6C		0.00	0.00	28.9
LaBerge	E-8A		0.00	0.00	10.0
LaBerge	E-8B		0.00	0.00	5.6
LaBerge	E-8C		0.00	0.00	6.5
LaBerge	PORCUPINE CR-A		0.00	0.00	19.1
LaBerge	PORCUPINE CR-B		0.00	0.00	24.4
LaBerge	PORCUPINE CR-C		0.00	0.00	18.1
LaBerge	R-2A		0.00	0.00	44.7
LaBerge	R-2B		0.00	0.00	23.1
LaBerge	R-3A		0.00	0.00	95.5
LaBerge	R-3C		0.00	0.00	49.9
LaBerge	R-4A		0.00	0.00	23.6
LaBerge	R-4C		0.00	0.00	20.2
LaBerge	R-6A		0.00	0.00	46.1

National IM Server:GINT_GAL_NATIONAL\Unique Project ID: Output Form: LAB_WATER CONTENT (REPORT).spdn 18/12/16

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	Checked	Date	

WATER CONTENT DETERMINATION

 Reference(s)
ASTM D 2216

Client: ALS

Project No.: 1667729 Phase: 1000

Project: L1829679 - LaBerge

Lab Schedule No.:

Location: Clinton Creek, Yukon

Sample Location	Sample No.	Specimen No.	Depth Interval		Water Content (%)
			Depth (m)	Bottom (m)	
LaBerge	E-1A		0.00	0.00	35.8
LaBerge	E-1B		0.00	0.00	22.0
LaBerge	E-1C		0.00	0.00	22.1
LaBerge	E-2A		0.00	0.00	27.5
LaBerge	E-2B		0.00	0.00	32.0
LaBerge	E-2C		0.00	0.00	29.8
LaBerge	E-3A		0.00	0.00	30.3
LaBerge	E-3B		0.00	0.00	27.0
LaBerge	E-3C		0.00	0.00	26.7
LaBerge	E-4A		0.00	0.00	25.8
LaBerge	E-4B		0.00	0.00	30.7
LaBerge	E-4C		0.00	0.00	29.7
LaBerge	E-6A		0.00	0.00	28.3
LaBerge	E-6B		0.00	0.00	27.5
LaBerge	E-6C		0.00	0.00	28.9
LaBerge	E-8A		0.00	0.00	10.0
LaBerge	E-8B		0.00	0.00	5.6
LaBerge	E-8C		0.00	0.00	6.5
LaBerge	PORCUPINE CR-A		0.00	0.00	19.1
LaBerge	PORCUPINE CR-B		0.00	0.00	24.4
LaBerge	PORCUPINE CR-C		0.00	0.00	18.1
LaBerge	R-2A		0.00	0.00	44.7
LaBerge	R-2B		0.00	0.00	23.1
LaBerge	R-2C		0.00	0.00	95.5
LaBerge	R-3C		0.00	0.00	49.9
LaBerge	R-4A		0.00	0.00	23.6
LaBerge	R-4C		0.00	0.00	20.2
LaBerge	R-6A		0.00	0.00	46.1

LH

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Checked

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Report To Company: <u>Laberge Env. Services</u> Contact: <u>Bonnie Burns</u> Address: <u>PO Box 21072, Whitehorse, YT</u> Phone: <u>867-668-6838</u>		Report Format / Distribution Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL) Quality Control (QC) Report with Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Criteria on Report - provide details below if box checked Select Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX		Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests) R <input checked="" type="checkbox"/> Regular (Standard TAT if received by 3pm) P <input type="checkbox"/> Priority (2-4 business days if received by 3pm) E <input type="checkbox"/> Emergency (1-2 business days if received by 3pm) E2 <input type="checkbox"/> Same day or weekend emergency if received by 10am - contact ALS for surcharge.				
Invoice To Same as Report To <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Copy of Invoice with Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Invoice Distribution Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX Email 1 or Fax: <u>bonnieburns@northwest.net</u> Email 2:		Analysis Request Indicate Filtered (F), Preserved (P) or Filtered and Preserved (FP) below				
Company: <u>Laberge Env. Serv.</u> Contact: <u>Bonnie Burns</u>		Project Information ALS Quote #: <u>141612.DN</u> Job #: <u>Clinton Creek</u> PO / AFE: LSD:		Oil and Gas Required Fields (client use) Approver ID: _____ Cost Center: _____ GL Account: _____ Routing Code: _____ Activity Code: _____ Location: _____				
ALS Lab Work Order # (lab use only)		ALS Contact: _____ Sampler: _____		Number of Containers				
ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)			Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	Metals incl Hg LOI asbestos particle size analysis	Number of Containers
	E-8A			8/9/16		Soil		2
	E-8B			8/9/16		"		2
	E-8C			8/9/16		"		2
	Porcupine Cr - A			7/9/16		"		2
	Porcupine Cr - B			7/9/16		"		2
	Porcupine Cr - C			7/9/16		"		2
	R-1A			7/9/16		"		2
	R-1B			7/9/16		"		2
	R-1C			7/9/16		"		2
	R-2A			7/9/16		"		2
	R-2B			7/9/16		"		2
	R-2C			7/9/16		"		2




Drinking Water (DW) Samples (client use) Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input type="checkbox"/> No Are samples for human drinking water use? <input type="checkbox"/> Yes <input type="checkbox"/> No		Special Instructions / Specify Criteria to add on report (client Use)		SAMPLE CONDITION AS RECEIVED (lab use only) Frozen <input type="checkbox"/> SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/> Ice packs Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/> Cooling Initiated <input checked="" type="checkbox"/>	
SHIPMENT RELEASE (client use) Released by: _____ Date: _____ Time: _____		INITIAL SHIPMENT RECEPTION (lab use only) Received by: <u>EMF</u> Date: <u>2016 12 SEP</u> Time: <u>10:09</u>		FINAL SHIPMENT RECEPTION (lab use only) Received by: _____ Date: _____ Time: _____	

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.
 1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC form.

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Report To		Report Format / Distribution			Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)										
Company: Same as Report To		Select Report Format: <input checked="" type="checkbox"/> PDF <input checked="" type="checkbox"/> EXCEL <input type="checkbox"/> EDD (DIGITAL)			R <input checked="" type="checkbox"/> Regular (Standard TAT if received by 3pm)										
Contact: Same as Report To		Quality Control (QC) Report with Report <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			P <input type="checkbox"/> Priority (2-4 business days if received by 3pm)										
Address: PG		<input checked="" type="checkbox"/> Criteria on Report - provide details below if box checked			E <input type="checkbox"/> Emergency (1-2 business days if received by 3pm)										
Phone:		Select Distribution: <input type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX			E2 <input type="checkbox"/> Same day or weekend emergency if received by 10am - contact ALS for surcharge.										
		Email 1 or Fax			Specify Date Required for E2, E or P:										
		Email 2			Analysis Request										
Invoice To Same as Report To <input type="checkbox"/> Yes <input type="checkbox"/> No		Invoice Distribution			Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below										
Copy of Invoice with Report <input type="checkbox"/> Yes <input type="checkbox"/> No		Select Invoice Distribution: <input checked="" type="checkbox"/> EMAIL <input type="checkbox"/> MAIL <input type="checkbox"/> FAX													
Company:		Email 1 or Fax			<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Metals incl Hg</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">LOI</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">asbestos</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">particle size analysis</div> </div>										
Contact:		Email 2													
Project Information		Oil and Gas Required Fields (client use)													
ALS Quote #: Same as Report To		Approver ID:													
Job #: PG		GL Account:													
PO / AFE:		Routing Code:													
LSD:		Activity Code:			 <p>L1829672-COFC</p>										
ALS Lab Work Order # (lab use only)		Location:													
		ALS Contact:													
		Sampler:													
ALS Sample # (lab use only)		Sample Identification and/or Coordinates (This description will appear on the report)		Date (dd-mmm-yy)						Time (hh:mm)	Sample Type	Number of Containers			
	R-3A			6/9/16							Soil	✓	✓	✓	2
	R-3B			6/9/16							"	✓	✓	✓	2
	R-3C			6/9/16							"	✓	✓	✓	2
	R-4A			5/9/16							"	✓	✓	✓	2
	R-4B			5/9/16							"	✓	✓	✓	2
	R-4C			5/9/16		"	✓	✓	✓	2					
	R-6A			8/9/16		"	✓	✓	✓	2					
	R-6B			8/9/16		"	✓	✓	✓	2					
	R-6C			8/9/16		"	✓	✓	✓	2					
	E-6A			5/9/16		"	✓	✓	✓	2					
	E-6B			5/9/16		"	✓	✓	✓	2					
	E-6C			5/9/16		"	✓	✓	✓	2					
Drinking Water (DW) Samples (client use)		Special Instructions / Specify Criteria to add on report (client Use)			SAMPLE CONDITION AS RECEIVED (lab use only)										
Are samples taken from a Regulated DW System? <input type="checkbox"/> Yes <input type="checkbox"/> No		to meet CCMH Guidelines aquatic life guidelines			Frozen <input type="checkbox"/> SIF Observations Yes <input type="checkbox"/> No <input type="checkbox"/>										
Are samples for human drinking water? <input type="checkbox"/> Yes <input type="checkbox"/> No					Ice packs Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Custody seal intact Yes <input type="checkbox"/> No <input type="checkbox"/>										
					Cooling Initiated <input checked="" type="checkbox"/>										
					INITIAL COOLER TEMPERATURES °C: 7.0 10.0										
					FINAL COOLER TEMPERATURES °C:										
SHIPMENT RELEASE (client use)		INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)										
Released by:		Received by: EHF			Received by:										
Date:		Date: 2016 12 SEP			Date:										
Time:		Time: 10:09			Time:										

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NA-FM-0320e v09 Form04 January 2014

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