

Appendix 1. Location of stratigraphic sections measured in the Mayo area, 1995-1998

Appendix 1a. Duncan Creek area, 1995-1998

Section name	NTS	Latitude Dec. deg. N	Longitude Dec. deg. W	Elevation feet	Geologists	Creek	Landform
DC1-95	105M/14	63°52.52	135°21.93	3140	WPL	Duncan	alluvial bench
DC2-95	105M/14	63°52.78	135°22.63	2920	WPL	Duncan	alluvial bench
UD9602	105M/14	63°52.64	135°18.45	3240	WPL/FJH	Upper Duncan	fluvial valley
FH9601	105M/14	63°52.21	135°11.48	4150	FJH	Upper Duncan	fluvial valley
FH9602	105M/14	63°52.64	135°18.45	3240	FJH	Upper Duncan	fluvial valley
FH9603	105M/14	63°52.52	135°20.60	2770	FJH	Upper Duncan	alluvial bench
FH9604	105M/14	63°48.30	135°29.52	2450	FJH	Duncan	alluvial bench
FH9605	105M/14	63°53.64	135°21.30	2880	FJH	Duncan	alluvial bench
FH9606	105M/14	63°49.27	135°28.91	2490	FJH	Duncan	alluvial bench
FH9607	105M/14	63°49.18	135°28.98	2480	FJH	Duncan	alluvial bench
FH9608	105M/14	63°50.36	135°38.00	2550	FJH	Duncan	alluvial bench
FH9609	105M/14	63°50.68	135°27.16	2600	FJH	Duncan	alluvial bench
FH9610	105M/14	63°51.13	135°26.31	2640	FJH	Duncan	alluvial bench
FH9611	105M/14	63°51.68	135°25.07	2660	FJH	Duncan	alluvial bench
FH9612	105M/14	63°52.74	135°22.65	2740	FJH	Duncan	paleo-alluvial fan
FH9614	105M/14	63°53.07	135°19.91	3030	FJH	Upper Duncan	fluvial valley
FH9616	105M/14	63°55.20	135°12.00	3700	FJH	Hope Gulch	gulch mouth
FH9617	105M/14	63°56.60	135°22.19	2770	FJH	Galena Hill	colluvial slope
FH9618	105M/14	63°53.97	135°15.07	3790	FJH	unnamed Tributary	gulch valley
FH9619 (1)	105M/14	63°54.00	135°14.77	3710	FJH	Thunder Gulch	gulch valley
FH9619 (2)	105M/14	63°54.08	135°14.92	3750	LCW	Thunder Gulch	gulch valley
FH9620	105M/14	63°48.90	135°28.81	2500	FJH	Duncan	fluvial valley
FT1-95	105M/14	63°48.57	135°29.20	2420	WPL	Duncan	fluvial valley
FT2-95	105M/14	63°48.63	135°29.07	2420	WPL	Duncan	fluvial valley
FT3-95	105M/14	63°48.72	135°29.05	2420	WPL	Duncan	fluvial valley
FT4-95	105M/14	63°48.78	135°29.00	2420	WPL	Duncan	fluvial valley
FT5-95	105M/14	63°48.88	135°28.90	2380	WPL	Duncan	fluvial valley
FT6-95	105M/14	63°48.88	135°28.87	2460	WPL	Duncan	fluvial valley
FT7-95	105M/14	63°47.32	135°30.35	2480	WPL	Duncan	fluvial valley
FT8-95	105M/14	63°47.53	135°30.05	2320	WPL	Duncan	fluvial valley
General	105M/14	63°52.64	135°18.45	3300	FJH	Upper Duncan	fluvial valley
General	105M/14	63°52.65	135°18.46	3180	FJH	Upper Duncan	fluvial valley
General	105M/14	63°52.63	135°18.36	3225	FJH	Upper Duncan	fluvial valley
General	105M/14	63°52.64	135°18.44	3250	FJH	Upper Duncan	fluvial valley
HB1-95	105M/14	63°53.05	135°19.50	3350	WPL	Upper Duncan	fluvial valley
HB2-95	105M/14	63°52.63	135°18.43	3220	WPL	Upper Duncan	fluvial valley
HB3-95	105M/14	63°52.63	135°52.63	3320	WPL	Upper Duncan	fluvial valley
HB4-95	105M/14	63°53.47	135°20.57	2940	WPL	Upper Duncan	fluvial valley
LW9601	105M/14	63°52.61	135°18.36	3235	LCW	Upper Duncan	alluvial terrace
LW9602	105M/14	63°52.64	135°18.45	3160	LCW	Upper Duncan	fluvial valley
LW9603	105M/14	63°53.08	135°19.88	3170	LCW	Upper Duncan	fluvial valley
LW9604	105M/14	63°53.05	135°19.83	3120	LCW	Upper Duncan	fluvial valley wall
LW9605	105M/14	63°52.21	135°11.48	4150	LCW	Upper Duncan	fluvial valley
LW9607	105M/14	63°47.53	135°30.05	2320	LCW	Duncan	alluvial terrace
LW9608A	105M/14	63°50.51	135°27.47	2550	FJH	Duncan	alluvial terrace
WL9603	105M/14	63°48.88	135°28.87	2460	LCW/WPL	Duncan	alluvial valley
UD9701	105M/14	63°53.36	135°20.48	3000	WPL, TLA, EK	Upper Duncan	alluvial terrace
UD9702	105M/14	63°53.36	135°20.48	3000	WPL, TLA, EK	Upper Duncan	alluvial terrace
UD9703	105M/14	63°53.28	135°20.25	3000	WPL, TLA, EK	Upper Duncan	alluvial terrace
FT97-01	105M/14	63°49.01	135°28.56	2480	WPL	Duncan	alluvial valley
FT98-1-1	105M/14	63°49.08	135°28.50	2480	WPL	Duncan	alluvial valley
FT98-1-2	105M/14	63°49.08	135°28.50	2480	WPL/MS	Duncan	alluvial valley
FT98-1-3	105M/14	63°49.08	135°28.50	2480	WPL/MS	Duncan	alluvial valley

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DP=Dean Pollard
FJH=Fran Hein

Appendix 1b. Mayo Lake area, 1995-1997

Section name	NTS	Latitude Dec. deg. N	Longitude Dec. deg. W	Elevation feet	Geologists	Creek	Landform
FH9621	105M/11	63°44.85	135°25.65	2680	FJH	Davidson	canyon
FH9622	105M/11	63°44.00	135°25.50	2600	FJH	Davidson	canyon
LW9606	105M14	63°47.64	135°14.35	2450	LCW	Dirksen	fan delta
MW1-95	105M/11	63°43.67	135°01.57	2400	WPL	Anderson	canyon
AC9701	105M/11	63°43.78	135°01.54	2320	WPL, DM, TLA	Anderson	alluvial fan -delta
Ledge Ck	105M/10	63°41.50	134°51.50	2500	FJH	Ledge	alluvial fan apex
RB1-95	105M/10	63°40.62	134°50.67	2450	WPL	Ledge	alluvial fan apex
LDG97-01	105M/10	63°40.90	134°50.34	2800	TLA, DM, LM	Ledge	canyon/alluvial fan
LDG97-02	105M/10	63°40.63	134°50.49	2450	LM, DM	Ledge	alluvial fan apex
LDG97-03	105M/10	63°40.63	134°50.49	2500	TLA, DM	Ledge	canyon/alluvial fan
DVD9701	105M/11	63°43.76	135°25.09	2400	TLA, JB	Davidson	canyon
DVD9702	105M/11	63°43.85	135°25.12	2400	TLA, JB	Davidson	canyon
DVD9703	105M/11	63°43.85	135°25.12	2400	TLA, DP	Davidson	canyon

Appendix 1c. Hight Creek/Minto Lake area, 1995-1997

Section name	NTS	Latitude Dec. deg. N	Longitude Dec. deg. W	Elevation feet	Geologists	Creek	Landform
FE1-95	115P/16	63°45.92	136°12.82	3450	WPL	Hight	fluvial valley
FH9615	115P/9	63°44.20	136°05.20	2580	FJH	Hight	fluvial valley
HT1-95	115P/16	63°45.85	136°10.72	2980	WPL	Hight	fluvial valley
HT2-95	115P/9	63°43.93	136°07.82	2500	WPL	Hight	fluvial valley
HT3-95	115P/9	63°43.88	136°07.77	2500	WPL	Hight	fluvial valley
KK1-95	115P/16	63°45.92	136°11.52	3125	WPL	Hight	alluvial terrace
MP1-95	115P/9	63°44.27	136°08.58	2560	WPL	Hight	fluvial valley
WL961-2	115P/9	63°44.40	136°08.50	2565	WPL	Hight	alluvial valley
HCR9701	105M/12	63°43.33	135°59.47	2070	TA, DM	Minto	alluvial terrace
HCR9702	115P/9	63°43.43	136°00.12	2100	TA, DM	Minto/Roaring Fork	alluvial terrace
HCR9703	115P/9	63°43.45	136°03.04	2180	TA, DM	Minto	alluvial terrace
HCR9704	115P/9	63°45.68	136°11.83	3290	TA, LM	Hight/Rudolf	alluvial valley
MIC9701	115P/9	63°43.14	136°07.68	2500	TA	McIntyre	alluvial valley
MIC9702	115P/9	63°43.17	136°07.24	2450	TA	McIntyre	alluvial valley
MIC9703	115P/9	63°43.16	136°07.38	2500	TA, MS	Minto	glaciofluvial terrace
MIC9704	115P/9	63°42.93	136°06.93	2300	TA, MS	Minto	glaciofluvial terrace
MIC9705	115P/9	63°42.93	136°06.93	2300	TA, MS	Minto	glaciofluvial terrace
MIC9706	115P/9	63°42.93	136°06.93	2300	TA, MS	Minto	glaciofluvial terrace
MIC9707	115P/9	63°43.23	136°07.24	2550	TA, MS	Minto	glaciofluvial terrace
MIC9708	115P/9	63°42.31	136°07.96	2350	TA, MS	Minto	glaciofluvial terrace
MIC9709	115P/9	63°42.22	136°08.04	2400	TA, MS	Minto	glaciofluvial terrace
MIC9710	115P/9	63°42.01	136°07.87	2300	TA, MS	Minto	glaciofluvial terrace
MIC9711	115P/9	63°42.18	136°08.10	2400	TA, DM	Minto	glaciofluvial terrace
MLN9701	115P/9	63°42.53	136°13.39	2800	TA, DM	McLagan	alluvial valley
MLN9702	115P/9	63°41.70	136°13.57	2400	TA, DM	McLagan	alluvial valley
RUD9701	115P/16	63°40.77	136°11.57	3350	TA, LM	Rudolph	gulch
N.BEAR9601	115P/9	63°41.26	136°20.97	2450	WPL, LCW	North Bear	gulch
N.BEAR9602	115P/9	63°41.25	136°20.97	2400	WPL, LCW	North Bear	gulch
BEAR9701	115P/9	63°41.33	136°20.82	2400	WPL, TA, LM	North Bear	gulch
BEAR9702	115P/9	63°41.33	136°21.12	2450	WPL, TA, LM	North Bear	gulch

Appendix 1d. Haggart Creek area, 1995-1997

Section name	NTS	Latitude Dec.deg. N	Longitude Dec.deg. W	Elevation feet	Geologists	Creek	Landform
RH1-95-2	106D/4	64°01.03	135°51.18	2530	WPL	Haggart	remnant moraine
RH2-95-1	106D/4	64°00.90	135°51.07	2540	WPL	Haggart	alluvial valley
LW9701	106D/4	64°00.92	135°50.88	2500	LW, LM	Haggart	alluvial valley
LW9702	106D/4	64°00.80	135°50.88	2475	LW, LM	Haggart	alluvial valley
LW9703	106D/4	64°00.85	135°50.88	2485	LW, LM	Haggart	alluvial valley
LW9704	106D/4	64°00.72	135°50.88	2450	LW, LM	Haggart	alluvial valley
LW9705	106D/4	64°00.70	135°50.88	2450	LW, LM	Haggart	alluvial valley
LW9706	106D/4	64°00.82	135°50.88	2480	LW, LM	Haggart	alluvial valley
LW9707	106D/4	64°00.95	135°50.88	2520	LW, LM	Haggart	alluvial valley
LW9708	106D/4	64°00.95	135°50.88	2520	LW, LM	Haggart	alluvial valley
LW9709	106D/4	64°01.68	135°51.25	2440	LW, LM	Haggart	alluvial valley
LW9710	106D/4	64°01.68	135°51.25	2440	LW, LM	Haggart	alluvial valley
LW9711	106D/4	64°01.65	135°51.25	2445	LW, LM	Haggart	alluvial valley
LW9712	106D/4	64°01.60	135°51.20	2420	LW, LM	Haggart	alluvial valley
LW9713	106D/4	64°01.53	135°51.12	2410	LW, LM	Haggart	alluvial valley
LW9714	106D/4	64°01.63	135°51.18	2415	LW, LM	Haggart	alluvial valley
LW9715	106D/4	64°01.02	135°50.88	2520	LW, LM	Haggart	alluvial valley
LW9716	106D/4	64°02.40	135°52.07	2800	LW, LM	Haggart	alluvial valley
LW9717	106D/4	64°02.38	135°52.15	2825	LW, LM	Haggart	alluvial valley
LW9718	106D/4	64°02.13	135°49.55	2890	LW, LM	Haggart	alluvial valley
LW9719	106D/4	64°02.07	135°49.25	2975	LW, LM	Haggart	colluvial apron
LW9720	106D/4	64°02.00	135°49.68	2825	LW, LM	Haggart	alluvial valley
LW9721	106D/4	64°02.00	135°49.78	2790	LW, LM	Haggart	periglacial fan
LW9722	106D/4	64°01.87	135°50.18	2750	LW, LM	Haggart	remnant moraine
LW9723	106D/4	64°01.83	135°51.43	2720	LW, LM	Haggart	alluvial valley
LW9724	106D/4	64°00.53	135°51.18	2430	LW, LM	Haggart	colluvium
LW9725	106D/4	64°00.53	135°51.18	2420	LW, LM	Haggart	alluvial valley
LW9726	106D/4	64°00.43	135°51.18	2435	LW, LM	Haggart	alluvial valley
LW97275	106D/4	64°00.43	135°51.18	2400	LW, LM	Haggart	alluvial valley
GILL 3	106D/4	64°01.63	135°51.18	2415	LW, FH	Gill Gulch	alluvial valley
GILL 4	106D/4	64°01.68	135°51.25	2440	LW, FH	Gill Gulch	alluvial valley

Appendix 1e. South McQuesten/Seattle Creek area, 1995-1997

Section name	NTS	Latitude Dec. deg. N	Longitude Dec. deg.W	Elevation feet	Geologists	Creek	Landform
DK1-95	115P/16	63°49.38	136°04.13	2550	WPL	Seattle	periglacial alluvial fan
KK2-95	115P/16	63°55.60	136°11.55	2375	WPL	Goodman	periglacial alluvial fan
SEA9701	115P/16	63°49.28	136°04.04	2600	TA, WPL	Seattle	periglacial alluvial fan
SEA9702	115P/16	63°49.28	136°04.04	2550	TA, WPL	Seattle	periglacial alluvial fan
SEA9703	115P/16	63°49.28	136°04.03	2550	TA, WPL	Seattle	periglacial alluvial fan
SEA9704	115P/16	63°49.28	136°04.03	2550	TA, WPL	Seattle	periglacial alluvial fan
SEA9705	115P/16	63°49.38	136°04.01	2550	TA, WPL	Seattle	periglacial alluvial fan
GDM9701	115P/16	63°54.65	136°09.69	2100	TA, WPL, DP	Goodman	periglacial alluvial fan
GDM9702	115P/16	63°54.36	136°09.37	2050	TA, WPL, DP	Goodman	periglacial alluvial fan
ROD9701	115P/16	63°53.15	136°17.78	2500	WPL, TA, DM	Rodin	periglacial alluvial fan

Appendix 2. Heavy mineral analysis, additional notes

FT2-95-1/1	Duncan Creek	Duncan Section 2 Unit 1 (bottom)	FT3-95-1/1	Duncan Creek	Unit 1 (pay) bottom
<p>Very interesting sample due to the presence of euhedral arsenopyrite crystals with striated faces. Some of the arsenopyrite crystals are in quartz matrix. There is abundant limonite coated pyrite. Five small grains of scheelite were noted under shortwave ultraviolet light. Also 5-10% of the sample consists of fresh, euhedral unoxidized pyrite. About 1-5% of the pyrite shows a purple iridescent tarnish. One brownish yellow striated twinned crystal which might be cassiterite was observed. Orange-yellow limonite-coated grains comprise 10-20% of the sample.</p>			<p>Pyritiferous concentrate. Sample contains 10-20% platy black mineral with white alteration rim; this is most likely a leucoxene coating on ilmenite. Leucoxene is an amorphous chemically variable titanium oxide which is gray to white and forms as a result of alteration of titanium-rich minerals. Between 10 to 15 grains fluoresce medium-faint white, slightly blue under longwave and shortwave ultraviolet light and are white under visible light (mineral is unidentified). The <3.32 fraction contains abundant pyrophyllite? or talc?.</p>		
FT2-95-1/2	Duncan Creek	Duncan Section 2 Unit 1 (top)	FT3-95-1/2	Duncan Creek	Unit 1 Area 2
<p>Mainly rock fragments. Four rounded nuggets of gold from 1.0 mm to <0.2 mm.</p>			<p>One thin flake gold.</p>		
FT295-2	Duncan Creek	Duncan Section 2 Unit 2	FT3-95-1/3	Duncan Creek	Unit 1 Area 3
<p>Mainly rock fragments.</p>			<p>Three flat, rounded gold flakes; the largest is 0.05 mm.</p>		
FT2-95-3	Duncan Creek	Duncan Section 2 Unit 3	FT3-95-1/4	Duncan Creek	Unit 1 Area 4
<p>Mix of many different mineral and rock grains. Abundant rock fragments.</p>			<p>Abundant ilmenite. Garnet is the next most abundant mineral (5-10%), then magnetite (2-4%). Trace amounts of zircon and pyrite were noted. This sample strongly resembles FT3-95-1/5 and FT3-95-1/6.</p>		
FT2-95-5	Duncan Creek	Duncan Section 2 Unit 5	FT3-95-1/5	Duncan Creek	Unit 1 Area 5
<p>Grain size of sample is consistent. Under ultraviolet light, there are 20 small grains which fluoresce moderate green-yellow under both longwave and shortwave light. The grains are white to clear in overhead light, tabular, and display at least one good cleavage. Might be celestite? (SrSO₄).</p>			<p>This sample is very similar to FT3-95-1/4 and FT3-95-1/6.</p>		
FT2-95-7	Duncan Creek	Duncan Section 2 Unit 7	FT3-95-1/6	Duncan Creek	Unit 1 Area 6
<p>Mainly rock fragments, ilmenite.</p>			<p>Sample is very similar to FT3-95-1/4 and FT3-95-1/5.</p>		
FT2-95-9	Duncan Creek	Duncan Section 2 Unit 9	FT4-95-1	Duncan Creek	Duncan Section 4 Unit 1 – organic?
<p>Ilmenite, nice gemmy pink garnets.</p>			<p>Up to 10% limonite. There is 5-15% pyrite content, of which 2-5% are goethite/hematite pseudomorphs after pyrite.</p>		
FT2-95-10	Duncan Creek	Duncan Section 2 Unit 10	FT4-95-5	Duncan Creek	Duncan Section 4 Unit 5 – organic?
<p>Very low heavy mineral yield.</p>			<p>Very low yield. Mainly rock fragments.</p>		
FT2-95-13	Duncan Creek	Duncan Section 2 Unit 13	FT8-95-1	Duncan Creek	Duncan Creek bank section lower unit
<p>Mainly light coloured minerals and rock fragments. Also get 1-2% euhedral fresh to slightly oxidized pyritohedrons.</p>			<p>Sample consists mainly of rock fragments and ilmenite, with minor magnetite. There are two gold grains; one is a flattened leaf, relatively crystalline. The other gold grain is elongated leafy gold, relatively crystalline, perched on a limonite-coated, rusty mineral grain (pyrite?).</p>		
FT3-95-1/1	Duncan Creek	Unit 1 (pay)	FT8-95-7	Duncan Creek	Bend section contact lower/upper till
<p>Many grains are coated with limonite. The two gold grains are rounded and flattened. There is one grain which fluoresces blue-white under both longwave and shortwave ultraviolet light. Under visible light the same grain is a very thin white plate which is sectile and has a pearly lustre – brucite?</p>			<p>Resembles other Duncan Creek samples (ilmenite, minor magnetite); noted 1 small bright scarlet red grain (unidentified).</p>		
			Taylor Pay Unit near Bedrock		
			Duncan Creek		
<p>Sample contains mainly rock fragments (40-70%) and ilmenite (30-50%). A total of four gold grains were noted; three small rounded grains 0.2 mm and one larger subrounded, irregular shaped elongated grain 1.2 mm. Sample also contained 2-5% euhedral, lustrous pyrite.</p>					

DC1-95-1	Duncan Creek	40 Pup Bench Duncan Unit 1	FH-9619-05	Section FH9619	Thunder Gulch
Ilmenite, trace goethite/hematite pseudomorphs after pyrite.			Sample consists mainly of rock fragments (35-55%), magnetite (20-30%), ilmenite (15-25%), oxidized cubic pyrite (5-10%) and possible white zoisite (3-5%).		
DC1-95-2	Duncan Creek	40 Pup Bench Duncan Unit 2	FH-9619-02-08	Section FH9619-02	Thunder Gulch
Very low yield.			Sample consists mainly of rock fragments (30-50%) and ilmenite (30-50%).		
HB2-95-1	Upper Duncan Creek	Barchans old cut – multiple tills	FE1-95-1	Hight Creek F. Erl Unit 1 – Orange gravel	
Very interesting sample. Mainly ilmenite and magnetite, but also get pyrite and an unidentified grey sulphide mineral.			Ilmenite-rich. Mineral grains are coated with limonite.		
HB2-95-2	Upper Duncan Creek	Barchans old cut – multiple tills	FE1-95-2	Hight Creek F. Erl Unit 2 – Organic silt	
Varied mix of minerals and rocks. Garnet, ilmenite, rock fragments.			Sample is composed of mostly tabular ilmenite grains.		
HB2-95-3	Upper Duncan Creek	Barchans old cut – multiple tills	FE1-95-3	Hight Creek	F. Erl Unit 3
Mix of minerals and rock fragments. Same as HB2-95-2.			Sample is 80-95% ilmenite.		
HB4-95-1	Upper Duncan Creek	Upper Duncan Canyon Section Gravel	HT3-95-1	Hight Creek	Hight Creek band section near old cabin
Contains 2-3% pyrite, 20-50% ilmenite.			Mainly ilmenite and magnetite. There are five subrounded to rounded flattened gold grains; the largest is 0.06 mm.		
UD971-01 Pay Gravel – (vial a)		Section UD971 Upper Duncan Creek	KK1-95-1	Hight Creek Hight Creek Klippert Unit 1	
Garnetiferous (35-45%) with ilmenite (30-40%) and magnetite (10-20%). Moderate limonite coating on most grains.			There are 20 gold grains (about 1% of sample). The largest gold grain is 1 mm and very flat. The gold grains are subcrystalline to subrounded. There are 25 grains scheelite (about 1% of sample). The sample is mainly composed of ilmenite (90-95%). Approximately 10% of the ilmenite is coated by leucoxene.		
UD971-01 Pay Gravel – (vial b)		Section UD971 Upper Duncan Creek	KK1-95-2B	Hight Creek Hight Creek Klippert Unit 2	
Well-rounded grains with thick brownish yellow limonitic coating. Mainly schistose rock fragments (60-80%). Sample contains two rounded gold grains, 0.3 to 0.5 mm.			Almost 100% tabular ilmenite.		
UD971-02	Section UD971	Upper Duncan Creek	KK1-95-3	Hight Creek Hight Creek Klippert Unit 3	
Sample is composed mainly of schistose rock fragments (50-60%), ilmenite (15-30%) and goethite replacements after pyrite (10-20%). Sample contains one grain of scheelite (1.5 mm).			Mainly ilmenite, trace oxidized pyritohedrons.		
UD971-05	Section UD971	Upper Duncan Creek	MP1-95-1	Hight Creek	Merrill Powers Pit Unit 1 clay/bedrock
Mainly ilmenite (30-40%), rock fragments (20-30%) and garnet (20-30%).			Mostly limonite coated rock fragments.		
UD973-03	Section UD9703	Upper Duncan Creek	MP1-95-2	Hight Creek	Merrill Powers Pit Unit 2 – Pay gravel
Hematite/Goethite replacements after pyrite (25-45%) and schistose rock fragments (30-50%).			Gold grains comprise 5-15% of the sample; the largest grain is 2 mm. Most of the gold grains are flat and rounded; some are subrounded. One scheelite grain and small zircon grains are visible under ultraviolet light. Schistose rock fragments comprise 10-20% of the sample.		
FH-9619-01	Section FH9619	Thunder Gulch	WL96-02	Hight Creek	
Very low yield of heavy minerals; mainly rock fragments (40-60%). Lustrous pyrite cubes 2-5%.			Most grains have a brown coating. Sample is mainly ilmenite (60-80%). There is one subcrystalline gold grain 0.2 mm. Sample contains up to 1% zircon.		
FH-9619-02	Section FH9619	Thunder Gulch	RUD9701-01	Section RUD9701	Rudolph Gulch
Sample consists mainly of magnetite (20-30%), ilmenite (25-35%) and rock fragments (10-20%). Also, 5-10% granular to crystalline white translucent crystals (zoisite?).			Almost entirely ilmenite (95-98%). Ilmenite grains are angular, 0.25 to 1.0 mm. Sample also contains scheelite (1-3%) and three rounded gold grains 0.3 to 0.5 mm.		
FH-9619-04	Section FH9619	Thunder Gulch	RUD9701-02	Section RUD9701	Rudolph Gulch
Mineral grains in the sample are coated with limonite. Sample consists mainly of rock fragments (50-70%).			Same as RUD-97-01-01. Almost entirely ilmenite (95-98%), with trace to 1% scheelite. Sample also contains 1 mass of yellow gold 1.0 mm with leafy to subcrystalline form and a smaller crystalline gold piece 0.3 mm.		

- RUD9701-03 Section RUD9701 Rudolph Gulch**
Same as RUD-97-01-01 and RUD-97-01-02. Ilmenite-rich (95-98%). Also contains scheelite (1-2%).
- MIC9701-04 Section MIC9701 McIntyre Creek**
Mainly ilmenite (60-70%) with minor garnet. Some brass shavings in the sample.
- MIC9701-05 Section MIC9701 McIntyre Creek**
Similar to MIC-97-01-04.
- MIC9702-01 Section MIC9702 McIntyre Creek**
Mainly rock fragments (50-70%), ilmenite (20-30%) and garnet (10-25%). Contains trace scheelite and 5-10% staurolite.
- MIC9704-01 Section MIC9704 McIntyre Creek**
Heavy limonitic coating over most grains. Mainly rock fragments (50-70%). Lustrous pyrite cubes (2-3%).
- MIC9704-02 Section MIC9704 McIntyre Creek**
Mainly ilmenite with garnet. One rounded gold grain 0.8 mm and one smaller subcrystalline grain 0.4 mm noted.
- MIC9705-01 Section MIC9705 McIntyre Creek**
Sample is mainly ilmenite, rock fragments, garnet and magnetite. One rounded gold grain 0.3 mm. Trace amounts of scheelite.
- MIC9706-01 Section MIC9706 McIntyre Creek**
Mainly ilmenite (30-40%) with magnetite (15-25%). Also garnet, rock fragments, and goethite pseudomorphs after pyrite. Ilmenite grains are coated with leucoxene. Other grains are lightly coated with limonite. There are three rounded gold grains, 0.3 mm to 0.7 mm and trace amounts of scheelite. One grain sillimanite.
- MIC9708-01 Section MIC9707 McIntyre Creek**
Mainly ilmenite (25-50%) and rock fragments (25-50%). Also get lustrous pyrite cubes (tr to 1%) averaging 0.5 mm in addition to goethite pseudomorphs after pyrite (5-10%). There are four rounded gold grains about 0.4 mm. Scheelite is present in trace amounts.
- MIC9709-07 Section MIC9709 McIntyre Creek**
Resembles MIC-97-08-01, but has more pyrite. Sample is mainly ilmenite (15-25%), rock fragments (15-25%) and garnet (15-25%). Lustrous pyrite cubes (10%) and slightly oxidized pyrite (10-15%) are present in addition to goethite pseudomorphs after pyrite (5-10%).
- MIC9710-02 Section MIC9710 McIntyre Creek**
Sample contains mainly ilmenite (40-60%), rock fragments (30-40%), garnet (10-20%) and magnetite (10-15%). Trace amounts of lustrous pyrite.
- MIC9710-06 Section MIC9710 McIntyre Creek**
Sample contains mainly rock fragments (30-60%), ilmenite (20-40%), garnet (10-20%) and magnetite (5-10%).
- MLN9701-01 Section MLN9701 McLagan Creek**
Mainly magnetite (35-45%) and rock fragments (25-45%). Bronze artifact.
- MLN9702-01 Section MLN9702 McLagan Creek**
Mainly ilmenite (35-45%), magnetite (25-35%) and rock fragments (15-25%). Bronze and silvery metallic artifacts.
- DK1-94-1A Seattle Creek Dan Klipperts Pay Sample**
Gold grains are up to 1.2 mm and are sub-rounded.
- DK1-94-1B Seattle Creek Dan Klipperts Pay Sample**
Mostly rock fragments and ilmenite.
- DK1-95-1 Seattle Rusty gravel Unit 1**
Abundant rock fragments; mainly mafic schist. Sample is black and yellow and exhibits a "salt and pepper" look. One grain is intense white-green under longwave and moderate under shortwave. In visible light, the grain is white, platy, friable (brucite?, talc?).
- SEA9701-01 Section SEA9701 Seattle Creek**
Mainly ilmenite (40-50%) and rock fragments (40-50%). Sample also contains lustrous cubic pyrite (2-3%).
- SEA9701-02 Section SEA9701 Seattle Creek**
Ilmenite (50-70%) and rock fragments (30-50%) are the main constituents. Also get one subhedral 0.2 mm gold grain, 10 grains of scheelite and several shavings of brass and another metallic artifact. This sample contains scheelite (trace) and fewer lustrous pyrite cubes than in SEA-97-01-01.
- SEA9701-03 Section SEA9701 Seattle Creek**
Sample contains mainly ilmenite (70-90%) and rock fragments (10-20%), with 10 grains scheelite (<tr). Artificial artifacts (shavings).
- SEA9703-02 Section SEA9703 Seattle Creek**
Mainly ilmenite (70-85%) and magnetite (20-30%). There are three rounded grains of gold; one is 1.0 mm, and the other two are 0.4 to 0.5 mm. Trace amounts of scheelite was noted.
- SEA9705-02 Section SEA9705 Seattle Creek**
Mainly ilmenite (75-90%). One rounded gold grain 1.0 mm and trace amounts of scheelite.
- BEAR9702-01 Section BEAR9702 Upper Bear Creek**
Mainly rock fragments (25-35%), magnetite (20-30%) and ilmenite (15-25%). One grain of scheelite was noted and one rounded grain gold 0.4 mm.
- Goodman Creek Unit 1 Section Goodman Cr. Goodman Creek**
Sample contains magnetite (20-40%) and schistose rock fragments (30-50%). Lustrous cubic pyrite (tr-1%).
- Goodman Creek Unit 2 Section Goodman Cr. Goodman Creek**
Sample contains magnetite (30-40%), ilmenite (20-30%) and rock fragments (20-30%). Sample contains two grains of scheelite.

- Goodman Creek Unit 3 Section Goodman Cr. Goodman Creek**
Sample contains magnetite (20-30%) and trace amounts of scheelite. Also contains unidentified lustrous, euhedral greenish mineral (pyroxene?).
- ROD-97-01-01 Section ROD971 Rodin Creek**
Very well sorted grains, average 0.2 mm. Mainly ilmenite (40-50%), granite and schistose rock fragments (10-25%), and magnetite (10-20%).
- ROD-97-01-02 Section ROD971 Rodin Creek**
Sample contains 40-60% ilmenite. Sample is well-sorted. Very similar to ROD-97-01-01.
- ROD-97-01-03 Section ROD971 Rodin Creek**
Very similar to ROD-97-01-03 and ROD-97-01-04. Sample contains ilmenite (50-60%), rock fragments (10-20%) and magnetite (10-20%).
- ROD-97-01-04 Section ROD971 Rodin Creek**
Sample contains ilmenite (40-50%), rock fragments (20-30%) and magnetite (5-15%) in addition to two rounded gold grains 1.7 mm and 0.5 mm. Very similar to ROD-97-01-01,02,03.
- AC9701-01 Section AC9701 Andersen Creek**
Sample consists mainly of magnetite (40-60%) and ilmenite (25-40%).
- AC9701-03 Section AC9701 Andersen Creek**
Mainly mica-ilmenite schist rock fragments (20-35%), ilmenite (25-35%) and magnetite (10-25%).
- RB1-95-1B Ledge Ledge Creek sediment sample**
The sample size was very small. No magnetite was recovered. Most of the grains are rock fragments; mainly mafic schist. One 0.03 mm scheelite grain was visible under ultraviolet light. There is one brownish yellow transparent to translucent twinned crystal (unidentified).
- LDG9701-01 Section LDG9701 Ledge Creek**
Sample contains mainly ilmenite (50-70%) and rock fragments (20-40%). One rounded gold grain 0.3 mm was noted.
- LDG9702-01 Section LDG9702 Ledge Creek**
Mainly ilmenite (40-60%) and rock fragments (35-40%). Two gold grains were noted; one rounded 0.3 mm and one crystalline, euhedral grain 0.4 mm. Trace amounts of scheelite were noted.
- LDG9703-01 Section LDG9703 Ledge Creek**
Sample consists mainly of ilmenite-bearing schistose rock fragments (60-80%) and ilmenite (20-30%). Sample contains trace amounts of scheelite.
- DVD9701-01 Section DVD9701 Davidson Creek**
Sample is mainly magnetite (45-55%) and ilmenite (40-50%). One rounded gold grain 0.3 mm was noted.
- DVD9702-01 Section DVD9702 Davidson Creek**
Sample is mainly ilmenite (40-60%) and magnetite (20-30%). Three rounded 0.3 mm grains of gold were noted. One scheelite grain was noted.
- DVD9703 DVD9703 Davidson Creek**
Sample is mainly magnetite (40-60%) and ilmenite (25-35%). Three subrounded grains of gold 0.2 to 0.4 mm were noted.
- DVD9703-03 DVD9703 Davidson Creek**
Sample is mainly magnetite (60-70%) and ilmenite (20-30%).
- Davidson Creek Pay Unit Blue Clay**
Sample contains ilmenite (25-35%), magnetite (25-35%) and lustrous cubic pyrite (5-10%).
- LW-97-01(a) Unit 1 Haggart Creek**
Interesting sample; contains almost 100% sulphide fragments consisting of 50% pyrite and 50% arsenopyrite. About 50% of the sulphide fragments are pyrite, and the other half are arsenopyrite. At least ten grains of irregular to flattened subrounded gold were noted. Sulphide grains are euhedral and range up to 3 mm in size.
- LW-97-01(b) Unit 1 Haggart Creek**
Pyritiferous sample (euhedral pyrite up to 50%). Up to 1% of the pyrite grains are coated with copper staining (Cu, Pb). Grains in the sample are coated with limonite. Trace amounts of arsenopyrite noted.
- LW-97-04 Unit 1 Haggart Creek**
Pyritiferous sample (70-90% pyrite). Arsenopyrite (<1%) was noted in addition to boulangerite (trace), malachite (mal) and scheelite (<<tr).
- LW-97-05 Unit 1 Haggart Creek**
Rock grains are thickly coated with limonite, sample contains mainly of rock fragments (40-60%). Very minor scheelite noted.
- LW-97-15 Unit 4 Haggart Creek**
Mainly ilmenite (40-60%) and rock fragments (2-3%). Scheelite content is 2-3%. Contains 2-3% lustrous, untarnished pyrite fragments.
- LW-97-26 Unit 1 Haggart Creek**
Almost entire rock fragments (90-95%). Scheelite content is 1%.
- LW-97-27 Unit 1 Haggart Creek**
Sample is almost 100% sulphides. Pyrite content is 30-50%. Contains 30-50% arsenopyrite, 1-2% scheelite and 1% cassiterite.
- LW-97-20 Base of Unit 1 Dublin Gulch**
Sample contains mainly scheelite (55-65%) and rock fragments (25-35%). Zircon content is 2-3%.
- Dublin Gulch LW-97-21 Unit 1**
Interesting sample. Sample is mainly 55-60% scheelite and contains abundant (7-15%) rutile. There are seven grains of gold 0.2 to 0.6 mm; six pieces are crystalline gold, some in quartz, and the other is subrounded gold in quartz. The gold is very fresh, appears to have weathered from a nearby source. One fragment of arsenopyrite was noted.
- LW-97-22 Unit 1 Dublin Gulch**
Sample is mainly schistose rock fragments (75-95%). Minor scheelite (<tr) was noted.

LW-97-22 **Unit 2** **Dublin Gulch**
Sulphide-rich sample. Contains 25-30% pyrite, 5-15% arsenopyrite, 1% boulangerite (acicular, metallic grey) and 2-5% siderite.

LW-97-09 **Unit 1** **Gill Gulch**
Sample consists mainly of rock fragments (60-90%) and scheelite (5-15%). Contains manganese garnets of andradite-spessartine composition.

LW-97-10 **Unit 1** **Gill Gulch**
Grains in sample have a thin limonitic coating. Mainly rock fragments (80-90%) and scheelite (5-10%).

LW-97-12 **Unit 1** **Gill Gulch**
Interesting sample. Mainly rock fragments (60-90%). Also contains one grain bright yellow subcrystalline gold, 0.4 mm. Contains 1% anatase, trace crystalline cassiterite and one corundum crystal. The corundum crystal has six-sided columnar form, subadamantine lustre, light grey colour. Rutile content is 2-5%.

LW-97-14 **Unit 1** **Gill Gulch**
Mainly rock fragments (60-80%), ilmenite (5-15%) and scheelite (5-10%). Contains 1-2% massive limonitic fragments.

Gill 4 Unit 1 **Gill Gulch**
Sample consists mainly of goethite pseudomorphs after pyrite (50-60%). Sample also contains scheelite (5-15%).

LW-97-16 **Unit 1 (a)** **Fisher Gulch**
Sample consists of schistose rock fragments (50-80%). Sample contains 2-5% orange-brown euhedral cassiterite and black massive goethite with radiating habit.

LW-97-17 **Unit 1 (b)** **Fisher Gulch**
Grains in sample are coated with limonite. Sample contains 3-5% euhedral yellowish-brown, lustrous cassiterite and 3-5% massive reddish brown goethite. Sample consists mainly of schistose rock fragments (80-90%).

Appendix 3. Trace element geochemistry

ICP-AES Detection limits for gold and 32 elements

Element	Range	Element	Range	Element	Range
Aluminum (Al)	0.01 – 15%	Gallium (Ga)	10 ppm – 1%	Potassium (K)	0.1 – 10%
Antimony (Sb)	2 ppm – 1%	Gold (Au)	5 – 10 000 ppb	Scandium (Sc)	1 ppm – 1%
Arsenic (As)	2 ppm – 1%	Iron (Fe)	0.01 – 15%	Silver (Ag)	0.2 – 100 ppm
Barium (Ba)	10 ppm – 1%	Lanthanum (La)	10 ppm – 1%	Sodium (Na)	0.01 – 10%
Beryllium (Be)	0.5 – 100 ppm	Lead (Pb)	2 ppm – 1%	Strontium (Sr)	1 ppm – 1%
Bismuth (Bi)	2 ppm – 1%	Magnesium (Mg)	0.01 – 15%	Thallium (Tl)	10 ppm – 1%
Cadmium (Cd)	0.2 – 100 ppm	Manganese (Mn)	5 ppm – 1%	Titanium (Ti)	0.01 – 10%
Calcium (Ca)	0.01 – 15%	Mercury (Hg)	1 ppm – 1%	Tungsten (W)	10 ppm – 1%
Chromium (Cr)	1 ppm – 1%	Molybdenum (Mb)	1 ppm – 1%	Uranium (U)	10 ppm – 1%
Cobalt (Co)	1 ppm – 1%	Nickel (Ni)	1 ppm – 1%	Vanadium (V)	1 ppm – 1%
Copper (Cu)	1 ppm – 1%	Phosphorus (P)	10 ppm – 1%	Zinc (Zn)	2 ppm – 1%

Stream	Sample number	Location UTM	Au ppb	Ag ppb	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm
Secret Creek	JB96-05	450500 E 7094900 N	20	1	1	12	130	< 0.5	< 2	0	< 0.5	7	13	14	2	< 10	< 1
Right fork of Secret Creek	JB96-06	450600 E 7094950 N	<5	< 0.2	1	36	150	< 0.5	< 2	0	< 0.5	11	15	21	2	< 10	< 1
Right fork of Ironrust Creek	JB96-07	457300 E 7104100 N	<5	< 0.2	1	12	210	< 0.5	< 2	0	< 0.5	11	14	14	2	< 10	1
Ironrust Creek	JB96-08	457200 E 7103950 N	<5	< 0.2	1	16	230	< 0.5	< 2	0	1	16	13	19	3	< 10	< 1
Fisher Creek	JB96-10	457500 E 7101600 N	<5	< 0.2	1	34	130	< 0.5	< 2	0	< 0.5	10	14	22	2	< 10	< 1
Ray Gulch	JB96-19	464750 E 7099100 N	<5	< 0.2	2	232	180	< 0.5	< 2	1	< 0.5	13	27	24	3	< 10	< 1
No name tributary to Lynx Creek	JB96-20	462700 E 7098000 N	<5	< 0.2	2	192	380	< 0.5	< 2	0	< 0.5	22	27	22	3	< 10	< 1
No name tributary to Lynx Creek	JB96-21	464250 E 7098700 N	30	< 0.2	2	188	190	< 0.5	< 2	1	< 0.5	12	25	19	3	< 10	< 1
MacNeil Creek	JB96-22	492800 E 7087300 N	65	0	1	54	90	< 0.5	< 2	0	< 0.5	5	11	17	1	< 10	< 1
Parent Creek	JB96-23	480750 E 7078300 N	<5	< 0.2	1	8	280	< 0.5	< 2	0	2	30	15	25	3	< 10	< 1
Parent Creek	JB69-24	479400 E 7078400 N	<5	< 0.2	1	6	190	< 0.5	< 2	0	3	31	13	26	2	< 10	< 1
No name tributary to Eagle Creek	JB96-25	468250 E 7121100 N	<5	< 0.2	1	6	660	< 0.5	< 2	0	< 0.5	13	18	39	3	< 10	< 1
No name tributary to Eagle Creek	JB96-26	468000 E 7120200 N	<5	< 0.2	1	4	1040	< 0.5	< 2	0	< 0.5	16	13	64	3	< 10	< 1
No name tributary to Steamboat Lake	JB96-29	468300 E 7115350 N	<5	< 0.2	1	6	200	< 0.5	< 2	0	< 0.5	12	16	29	3	< 10	< 1
No name tributary to Steamboat Lake	JB96-30	469500 E 7116500 N	<5	< 0.2	1	2	310	< 0.5	< 2	1	< 0.5	13	21	32	3	< 10	< 1
No name tributary to Steamboat Lake	JB96-31	469850 E 7117800 N	<5	< 0.2	1	4	380	< 0.5	< 2	1	< 0.5	12	21	29	3	< 10	1
No name tributary to Eagle Creek	JB96-32	464750 E 7120650 N	<5	< 0.2	1	4	460	< 0.5	< 2	0	1	16	17	24	3	< 10	< 1
No name tributary to Eagle Creek	JB96-33	465000 E 7120000 N	<5	< 0.2	1	2	490	< 0.5	< 2	0	< 0.5	6	13	10	2	< 10	< 1
No name tributary to Upper Duncan	JB96-34	488450 E 7120000 N	<5	< 0.2	1	8	160	< 0.5	< 2	0	< 0.5	8	13	21	2	< 10	< 1
No name tributary to Upper Duncan	JB96-35	487350 E 7081850 N	<5	< 0.2	1	10	170	< 0.5	< 2	0	2	8	14	26	2	< 10	< 1
Forty Pup	JB96-38	483600 E 7081100 N	<5	< 0.2	1	10	120	< 0.5	< 2	0	< 0.5	9	15	16	3	< 10	< 1
Forty Pup	JB96-39	482800 E 7081900 N	<5	< 0.2	1	10	100	< 0.5	< 2	0	< 0.5	8	12	12	2	< 10	< 1
Forty Pup	JB96-40	481200 E 7082700 N	<5	< 0.2	1	10	110	< 0.5	< 2	0	< 0.5	9	13	16	2	< 10	< 1
Lynx Creek	JB96-41	461200 E 7097150 N	20	< 0.2	1	60	190	< 0.5	< 2	0	1	10	17	15	2	< 10	< 1
Lynx Creek	JB96-42	459850 E 7096250 N	<5	< 0.2	1	58	180	< 0.5	< 2	0	1	9	17	15	2	< 10	< 1
Haggart Creek	JB96-43	458000 E 7096200 N	45	< 0.2	1	74	190	< 0.5	< 2	0	< 0.5	10	16	20	2	< 10	< 1
No name tributary to Keystone Creek	JB96-44	491750 E 7077200 N	<5	< 0.2	1	72	70	< 0.5	< 2	0	< 0.5	10	11	19	3	< 10	< 1
No name tributary to Keystone Creek	JB96-45	493950 E 7078500 N	<5	1	1	52	230	< 0.5	< 2	0	1	14	20	31	3	< 10	< 1
No name tributary to Keystone Creek	JB96-46	494000 E 7078250 N	<5	< 0.2	1	28	100	< 0.5	< 2	0	< 0.5	13	24	31	3	< 10	< 1
No name tributary to Granite Creek	JB96-47	497200 E 7079300 N	25	0	2	36	320	< 0.5	< 2	0	2	22	33	39	3	< 10	< 1
Upper Granite Creek	JB96-48	496750 E 7080700 N	20	1	1	128	150	< 0.5	< 2	0	1	11	25	34	3	< 10	< 1
No name tributary to Keystone Creek	JB96-49	490900 E 7076200 N	10	< 0.2	1	46	260	< 0.5	< 2	0	2	11	13	28	3	< 10	< 1
Red Creek	JB96-51	443750 E 7094050 N	<5	< 0.2	1	12	180	< 0.5	< 2	0	2	21	13	16	3	< 10	< 1
No name tributary to Red Creek	JB96-52	438500 E 7092700 N	<5	< 0.2	1	10	190	< 0.5	< 2	0	< 0.5	9	16	15	2	< 10	< 1
Faro Gulch	JB96-53	492200 E 7092650 N	235	66	1	534	120	< 0.5	< 2	0	10	16	12	114	4	< 10	< 1
No name tributary to Corkery Creek	JB96-54	470800 E 7081150 N	55	0	1	1190	530	< 0.5	< 2	1	< 0.5	14	27	15	4	< 10	< 1
No name tributary to Corkery Creek	JB96-55	470750 E 7080600 N	15	< 0.2	2	108	530	< 0.5	< 2	1	< 0.5	18	34	30	5	< 10	< 1
Edmonton Creek	JB96-56	509000 E 7071000 N	80	< 0.2	1	12	140	< 0.5	< 2	0	1	19	19	28	3	< 10	< 1
No name tributary to Mayo Lake	JB96-57	494300 E 7072800 N	<5	< 0.2	1	10	100	< 0.5	< 2	0	< 0.5	6	13	13	2	< 10	< 1
Keystone Creek	JB96-58	489750 E 7073700 N	<5	< 0.2	1	28	160	< 0.5	< 2	0	< 0.5	7	14	18	2	< 10	< 1
Silver Basin Gulch	JB96-60	492150 E 7092650 N	20	1	1	98	200	< 0.5	< 2	0	3	18	15	78	3	< 10	< 1
Right fork of Upper Red Creek	JB96-61	447600 E 7106800 N	15	< 0.2	1	2	140	< 0.5	< 2	0	< 0.5	13	13	14	2	< 10	< 1
Left fork of Upper Red Creek	JB96-62	447300 E 7106800 N	<5	< 0.2	1	< 2	200	< 0.5	< 2	0	< 0.5	12	16	16	2	< 10	< 1
Red Creek	JB96-63	444800 E 7101850 N	<5	< 0.2	1	2	170	< 0.5	< 2	0	< 0.5	13	15	17	3	< 10	< 1

Stream	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
Secret Creek	0	30	0	250	< 1	< 0.01	16	510	18	2	1	22	0	< 10	< 10	20	< 10	72
Right fork of Secret Creek	0	30	0	395	1	< 0.01	21	570	28	2	2	24	0	< 10	< 10	23	< 10	84
Right fork of Ironrust Creek	0	20	0	370	1	< 0.01	21	560	10	< 2	2	29	0	< 10	< 10	24	< 10	62
Ironrust Creek	0	20	0	1385	1	< 0.01	29	480	26	< 2	1	17	0	< 10	< 10	23	< 10	128
Fisher Creek	0	30	0	400	1	< 0.01	18	430	30	2	1	18	0	< 10	< 10	20	< 10	78
Ray Gulch	0	20	1	420	2	< 0.01	26	580	12	< 2	4	47	0	< 10	< 10	41	10	84
No name tributary to Lynx Creek	0	30	1	1440	2	< 0.01	25	520	8	< 2	4	37	0	< 10	< 10	44	< 10	94
No name tributary to Lynx Creek	0	20	1	325	3	< 0.01	22	630	10	< 2	4	45	0	< 10	< 10	37	10	76
MacNeil Creek	0	10	0	275	1	< 0.01	13	370	16	< 2	1	9	0	< 10	< 10	16	< 10	54
Parent Creek	0	30	0	555	1	< 0.01	41	600	14	< 2	1	25	0	< 10	< 10	23	< 10	262
Parent Creek	0	30	0	695	1	< 0.01	65	550	10	< 2	1	25	0	< 10	< 10	19	< 10	320
No name tributary to Eagle Creek	0	30	0	545	1	< 0.01	32	540	16	< 2	1	52	0	< 10	< 10	20	< 10	108
No name tributary to Eagle Creek	0	20	0	1140	3	< 0.01	39	540	16	< 2	1	55	< 0.01	< 10	< 10	16	< 10	106
No name tributary to Steamboat Lake	0	30	1	1020	1	< 0.01	26	610	12	< 2	1	37	0	< 10	< 10	24	< 10	76
No name tributary to Steamboat Lake	0	30	1	605	1	< 0.01	29	670	12	< 2	3	61	0	< 10	< 10	28	< 10	98
No name tributary to Steamboat Lake	0	20	1	460	2	< 0.01	31	670	10	< 2	2	60	0	< 10	< 10	30	< 10	98
No name tributary to Eagle Creek	0	10	0	555	1	< 0.01	47	620	14	< 2	1	35	< 0.01	< 10	< 10	19	< 10	160
No name tributary to Eagle Creek	0	10	0	445	1	< 0.01	16	1090	6	< 2	1	28	0	< 10	< 10	20	< 10	60
No name tributary to Upper Duncan	0	20	0	565	1	< 0.01	18	500	10	< 2	1	15	0	< 10	< 10	21	< 10	60
No name tributary to Upper Duncan	0	30	0	485	3	< 0.01	42	630	16	< 2	1	26	0	< 10	< 10	22	< 10	194
Forty Pup	0	30	0	455	1	< 0.01	21	540	14	< 2	1	22	0	< 10	< 10	21	< 10	100
Forty Pup	0	20	0	365	< 1	< 0.01	16	420	12	44	1	20	0	< 10	< 10	16	< 10	58
Forty Pup	0	30	0	265	1	< 0.01	17	720	12	8	1	28	0	< 10	< 10	21	< 10	66
Lynx Creek	0	20	0	595	2	0	20	730	14	< 2	2	33	0	< 10	< 10	27	< 10	96
Lynx Creek	0	10	0	530	1	0	19	710	12	< 2	2	29	0	< 10	< 10	26	< 10	90
Haggart Creek	0	20	0	525	1	< 0.01	21	570	28	6	1	27	0	< 10	< 10	23	< 10	80
No name tributary to Keystone Creek	0	30	1	425	1	< 0.01	20	520	14	2	1	37	0	< 10	< 10	11	< 10	72
No name tributary to Keystone Creek	0	10	0	510	2	< 0.01	67	650	14	< 2	1	17	0	< 10	< 10	21	< 10	176
No name tributary to Keystone Creek	0	30	1	460	1	< 0.01	46	640	16	< 2	2	22	0	< 10	< 10	19	< 10	118
No name tributary to Granite Creek	0	10	0	670	2	< 0.01	39	800	16	< 2	3	22	0	< 10	< 10	42	< 10	164
Upper Granite Creek	0	10	0	415	3	< 0.01	33	1000	26	< 2	3	24	0	< 10	< 10	34	< 10	124
No name tributary to Keystone Creek	0	40	0	445	3	< 0.01	54	590	16	10	1	27	< 0.01	< 10	< 10	22	< 10	226
Red Creek	0	20	0	825	1	< 0.01	36	420	18	2	1	24	0	< 10	< 10	22	< 10	164
No name tributary to Red Creek	0	40	0	780	1	< 0.01	21	540	18	< 2	1	30	0	< 10	< 10	23	< 10	78
Faro Gulch	0	10	0	2620	7	< 0.01	32	1220	>10 000	74	1	29	0	< 10	< 10	16	< 10	818
No name tributary to Corkery Creek	0	20	1	2660	1	< 0.01	25	770	34	6	3	62	0	< 10	< 10	32	< 10	114
No name tributary to Corkery Creek	0	20	1	1275	1	< 0.01	36	690	22	4	4	82	0	< 10	< 10	38	< 10	118
Edmonton Creek	0	30	0	325	1	< 0.01	38	560	6	< 2	1	18	0	< 10	< 10	34	< 10	160
No name tributary to Mayo Lake	0	10	0	240	1	< 0.01	14	490	8	< 2	1	18	0	< 10	< 10	19	< 10	46
Keystone Creek	0	30	0	290	1	< 0.01	22	570	10	8	1	21	0	< 10	< 10	18	< 10	92
Silver Basin Gulch	0	10	1	1645	5	< 0.01	42	870	94	2	1	26	< 0.01	< 10	< 10	17	< 10	302
Right fork of Upper Red Creek	0	40	0	285	1	< 0.01	23	480	12	< 2	1	24	0	< 10	< 10	22	< 10	96
Left fork of Upper Red Creek	0	30	0	415	1	< 0.01	19	490	14	< 2	1	31	0	< 10	< 10	24	< 10	72
Red Creek	0	30	0	285	1	< 0.01	20	410	14	< 2	1	29	0	< 10	< 10	19	< 10	78

Stream	Sample number	Location UTM	Au ppb	Ag ppb	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm
Fisher Creek	JB96-65	444800 E 7124250 N	<5	<0.2	1	4	800	<0.5	<2	0	<0.5	11	19	38	3	<10	<1
Fisher Creek	JB96-66	443150 E 7122250 N	<5	<0.2	1	2	560	<0.5	<2	1	1	11	15	27	3	<10	<1
Sluice Creek	JB96-67	449600 E 7116200 N	<5	<0.2	1	10	2140	<0.5	<2	0	1	12	14	42	3	<10	<1
Sluice Creek	JB96-68	447800 E 7114900 N	<5	<0.2	1	6	2890	<0.5	<2	0	1	9	14	37	3	<10	<1
No name tributary to Ballard Creek	JB96-69	427100 E 7099600 N	<5	<0.2	1	2	250	<0.5	<2	1	<0.5	7	17	14	2	<10	<1
Ballard Creek	JB96-70	426800 E 7099800 N	<5	<0.2	1	<2	320	<0.5	<2	0	<0.5	9	18	14	2	<10	<1
No name tributary to the E. McQuesten River	JB96-71	433900 E 7106750 N	<5	<0.2	1	<2	260	<0.5	<2	0	<0.5	8	15	15	2	<10	<1
No name tributary to the E. McQuesten River	JB96-72	437900 E 7105500 N	<5	<0.2	1	<2	240	<0.5	<2	1	<0.5	8	17	16	2	<10	1
Larsen Creek	JB96-73	428900 E 7111250 N	<5	<0.2	1	4	260	<0.5	<2	0	<0.5	10	16	18	2	<10	<1
No name tributary to the E. McQuesten River	JB96-74	438000 E 7113500 N	<5	<0.2	1	2	270	<0.5	<2	1	<0.5	9	18	13	2	<10	1
No name tributary to the E. McQuesten River	JB96-75	437900 E 7113750 N	<5	<0.2	1	<2	160	<0.5	<2	0	<0.5	8	16	14	2	<10	<1
No name tributary to the E. McQuesten River	JB96-76	433850 E 7125000 N	25	<0.2	1	<2	180	1	<2	0	<0.5	9	18	19	3	<10	<1
No name tributary to the E. McQuesten River	JB96-77	433800 E 7124750 N	<5	<0.2	1	4	190	<0.5	<2	0	<0.5	9	18	15	2	<10	<1
No name tributary to the E. McQuesten River	JB96-78	442450 E 7117400 N	<5	<0.2	1	<2	190	<0.5	<2	0	<0.5	8	17	14	2	<10	<1
No name tributary to the E. McQuesten River	JB96-79	453250 E 7121150 N	<5	0	2	10	2690	<0.5	<2	1	4	12	15	60	3	<10	<1
No name tributary to Sluice Creek	JB96-80	452950 E 7121250 N	<5	<0.2	1	6	3610	<0.5	<2	0	1	13	16	37	2	<10	<1
Davidson Creek	JB96-81	469000 E 7067000 N	<5	<0.2	0	4	80	<0.5	<2	1	<0.5	5	7	8	1	<10	<1
Christie Creek	JB96-82	453750 E 7109000 N	<5	<0.2	1	2	150	<0.5	<2	0	<0.5	9	13	16	2	<10	<1
No name tributary to Christie Creek	JB96-83	453659 E 7108900 N	<5	<0.2	1	14	280	1	<2	0	<0.5	30	16	21	4	<10	<1
No name tributary to the E. McQuesten River	JB96-84	460500 E 7112200 N	<5	<0.2	1	2	90	<0.5	<2	0	<0.5	10	14	18	3	<10	<1
Lime Creek	JB96-85	469900 E 7109500 N	<5	<0.2	1	8	210	<0.5	<2	1	<0.5	10	16	19	2	<10	<1
Skate Creek	JB96-86	469000 E 7099400 N	<5	<0.2	1	110	260	<0.5	<2	1	<0.5	10	23	21	2	<10	<1
McKim Creek	JB96-87	505000 E 7088000 N	<5	<0.2	1	10	290	<0.5	<2	1	1	7	15	17	2	<10	<1
No name tributary to Roop Creek	JB96-88	525000 E 7082000 N	<5	<0.2	1	4	610	<0.5	<2	0	<0.5	6	12	15	2	<10	<1
Granite Creek	JB96-89	509000 E 7080000 N	<5	<0.2	1	8	240	<0.5	<2	0	<0.5	5	14	51	1	<10	<1
Hope Gulch	JB96-90	490250 E 7087850 N	200	45	1	620	130	<0.5	<2	1	46	12	14	84	4	<10	<1
Lightning Creek	JB96-91	487800 E 7087100 N	120	22	1	328	180	<0.5	<2	0	19	10	16	55	3	<10	<1
Bear Creek	JB96-92	433212 E 7062852 N	<5	<0.2	1	8	120	<0.5	<2	0	<0.5	6	9	15	2	<10	<1
Williams Creek	JB96-93	475750 E 7079900 N	10	<0.2	1	28	270	<0.5	<2	0	<0.5	7	16	28	2	<10	<1
Empire Creek	JB96-94	470000 E 7038000 N	<5	<0.2	1	4	200	<0.5	<2	0	<0.5	8	18	21	2	<10	<1
Roaring Fork Creek	JB97-01	451200 E 7067950 N	<5	<0.2	1	22	210	<0.5	<2	0	<0.5	13	17	19	2	<10	<1
Right fork tributary to Roaring Fork Creek	JB97-02	451150 E 7067500 N	<5	<0.2	1	12	160	<0.5	<2	0	<0.5	8	10	16	2	<10	<1
Canyon Creek	JB97-05	454050 E 7060450 N	10	<0.2	1	12	200	<0.5	2	0	<0.5	8	14	14	2	<10	<1
No name tributary to Minto Creek	JB97-06	450100 E 7063550 N	<5	<0.2	1	10	180	<0.5	<2	0	<0.5	5	9	10	1	<10	<1
Snowshoe Creek	JB97-07	459400 E 7094150 N	10	<0.2	1	18	140	<0.5	2	0	<0.5	15	21	27	3	<10	<1
Field Creek	JB97-08	466250 E 7076275 N	10	<0.2	1	22	180	<0.5	<2	0	<0.5	8	13	14	2	<10	<1
Lower Field Creek	JB97-09	465300 E 7073100 N	5	<0.2	1	24	180	<0.5	<2	0	<0.5	8	14	17	2	<10	<1
Left fork of Upper Seattle Creek	JB97-13	450000 E 7176050 N	5	<0.2	1	34	190	<0.5	<2	1	1	16	18	19	2	<10	<1
Middle fork of Upper Seattle Creek	JB97-14	449100 E 7175900 N	10	0	1	56	140	<0.5	<2	1	<0.5	11	16	23	3	<10	<1
Right fork of Upper Seattle Creek	JB97-15	448750 E 7175800 N	10	<0.2	1	26	130	<0.5	<2	1	<0.5	11	22	23	3	<10	<1
Left fork tributary to Seattle Creek	JB97-17	445950 E 7079200 N	15	0	1	20	170	<0.5	<2	1	<0.5	10	25	24	3	<10	<1
Left fork to Morrison Creek	JB97-19	445500 E 7076800 N	10	1	1	62	150	<0.5	<2	1	1	13	33	25	3	<10	<1
Right fork tributary to Seattle Creek	JB97-20	447400 E 7075050 N	10	1	1	62	240	<0.5	<2	0	<0.5	11	18	17	2	<10	<1
Right fork tributary to Seattle Creek	JB97-21	447600 E 7075200 N	20	1	1	74	160	<0.5	<2	1	1	13	20	29	3	<10	2

Stream	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
Fisher Creek	0	20	1	285	2	< 0.01	32	880	18	< 2	2	43	0	< 10	< 10	21	< 10	112
Fisher Creek	0	20	0	540	1	< 0.01	29	790	14	< 2	2	45	0	< 10	< 10	21	< 10	114
Sluice Creek	0	30	0	1310	3	< 0.01	83	800	16	< 2	2	65	0	< 10	< 10	21	< 10	280
Sluice Creek	0	20	0	1090	4	< 0.01	62	970	14	< 2	1	69	0	< 10	< 10	20	< 10	246
No name tributary to Ballard Creek	0	20	0	335	1	< 0.01	17	580	8	< 2	2	59	0	< 10	< 10	25	< 10	64
Ballard Creek	0	20	0	495	1	< 0.01	17	600	8	< 2	2	52	0	< 10	< 10	26	< 10	76
No name tributary to the E. McQuesten River	0	10	0	430	1	< 0.01	17	510	12	< 2	2	39	0	< 10	< 10	22	< 10	78
No name tributary to the E. McQuesten River	0	10	0	370	1	< 0.01	19	520	12	< 2	2	74	0	< 10	< 10	23	< 10	72
Larsen Creek	0	10	0	425	2	< 0.01	21	590	12	< 2	2	41	0	< 10	< 10	26	< 10	114
No name tributary to the E. McQuesten River	0	10	0	465	1	< 0.01	17	610	10	< 2	2	81	0	< 10	< 10	25	< 10	88
No name tributary to the E. McQuesten River	0	20	0	275	1	< 0.01	17	430	14	< 2	1	36	0	< 10	< 10	20	< 10	66
No name tributary to the E. McQuesten River	0	20	0	320	1	< 0.01	18	540	14	< 2	2	46	0	< 10	< 10	22	< 10	68
No name tributary to the E. McQuesten River	0	20	0	535	1	< 0.01	18	480	12	< 2	2	37	0	< 10	< 10	23	< 10	64
No name tributary to the E. McQuesten River	0	20	0	290	1	< 0.01	18	510	12	< 2	2	51	0	< 10	< 10	22	< 10	68
Sluice Creek	0	10	0	5330	6	< 0.01	274	940	8	2	3	79	0	< 10	< 10	25	< 10	1065
No name tributary to Sluice Creek	0	20	0	955	3	< 0.01	47	820	10	< 2	2	72	0	< 10	< 10	27	< 10	168
Davidson Creek	0	10	0	235	1	< 0.01	10	430	6	< 2	< 1	38	0	< 10	< 10	10	< 10	32
Christie Creek	0	40	0	465	1	< 0.01	18	530	12	< 2	1	34	0	< 10	< 10	21	< 10	62
No name tributary to Christie Creek	0	30	0	1295	1	< 0.01	54	630	12	< 2	2	34	0	< 10	< 10	28	< 10	210
No name tributary to the E. McQuesten River	0	40	0	380	1	< 0.01	22	520	10	< 2	1	24	0	< 10	< 10	15	< 10	50
Lime Creek	0	20	0	485	1	< 0.01	20	670	18	< 2	2	45	0	< 10	< 10	23	< 10	106
Skate Creek	0	10	1	450	3	0	20	860	18	< 2	3	34	0	< 10	< 10	37	< 10	116
McKim Creek	0	20	0	680	2	< 0.01	16	1230	6	< 2	2	28	0	< 10	< 10	29	< 10	68
No name tributary to Roop Creek	0	10	0	315	1	< 0.01	19	580	10	< 2	1	25	0	< 10	< 10	17	< 10	98
Granite Creek	0	30	0	410	1	< 0.01	14	1010	4	< 2	2	26	0	< 10	< 10	27	< 10	70
Hope Gulch	0	10	0	3370	3	< 0.01	29	900	1290	28	3	23	0	< 10	< 10	27	< 10	4340
Lightning Creek	0	10	0	2170	4	< 0.01	23	860	526	14	2	20	0	< 10	< 10	28	< 10	1815
Bear Creek	0	20	0	230	1	< 0.01	13	320	10	< 2	1	32	0	< 10	< 10	14	< 10	52
Williams Creek	0	20	0	435	3	< 0.01	16	640	12	2	2	29	0	< 10	< 10	27	< 10	66
Empire Creek	0	20	1	275	1	< 0.01	17	590	6	< 2	2	31	0	< 10	< 10	24	< 10	46
Roaring Fork Creek	0	30	0	535	< 1	< 0.01	23	580	24	6	1	31	0	< 10	< 10	18	< 10	84
Right fork tributary to Roaring Fork Creek	0	30	0	340	< 1	< 0.01	16	400	12	< 2	1	36	0	< 10	< 10	14	< 10	48
Canyon Creek	0	30	0	385	1	< 0.01	17	470	10	< 2	1	32	0	< 10	< 10	16	< 10	60
No name tributary to Minto Creek	0	20	0	185	< 1	< 0.01	11	430	8	< 2	1	28	0	< 10	< 10	14	< 10	46
Snowshoe Creek	0	30	0	600	1	< 0.01	34	760	20	4	2	45	0	< 10	< 10	21	< 10	84
Field Creek	0	10	0	495	< 1	< 0.01	17	540	8	< 2	1	29	0	< 10	< 10	19	< 10	54
Lower Field Creek	0	20	0	385	< 1	< 0.01	18	520	10	< 2	1	35	0	< 10	< 10	19	< 10	66
Left fork of Upper Seattle Creek	0	30	0	880	1	< 0.01	24	620	18	< 2	2	47	0	< 10	< 10	24	< 10	112
Middle fork of Upper Seattle Creek	0	40	0	375	< 1	< 0.01	26	510	18	6	2	67	0	< 10	< 10	14	< 10	72
Right fork of Upper Seattle Creek	0	30	1	490	1	< 0.01	28	550	16	6	2	64	0	< 10	< 10	18	< 10	80
Left fork tributary to Seattle Creek	0	40	1	475	1	< 0.01	27	620	18	< 2	2	52	0	< 10	< 10	25	< 10	92
Left fork to Morrison Creek	0	30	1	720	1	< 0.01	34	530	22	< 2	3	44	0	< 10	< 10	28	< 10	136
Right fork tributary to Seattle Creek	0	30	0	630	1	< 0.01	16	620	20	< 2	2	28	0	< 10	< 10	29	< 10	56
Right fork tributary to Seattle Creek	0	30	0	830	1	< 0.01	27	500	26	6	3	47	< 0.01	< 10	< 10	20	< 10	102

Stream	Sample number	Location UTM	Au ppb	Ag ppb	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm
Russell Creek	JB97-22	580100 E 6998500 N	< 5	< 0.2	1	12	170	< 0.5	< 2	0	< 0.5	11	15	21	3	< 10	< 1
Upper Morrison Creek	JB97-23	440600 E 7075500 N	75	< 0.2	1	50	180	< 0.5	< 2	0	< 0.5	10	18	17	2	< 10	< 1
Bennett Creek	JB97-25	447050 E 7069500 N	10	< 0.2	1	90	90	< 0.5	< 2	0	< 0.5	9	11	17	2	< 10	< 1
Sunday Creek	JB97-26	441400 E 7063400 N	10	< 0.2	1	12	130	< 0.5	< 2	0	< 0.5	5	12	8	1	< 10	< 1
Upper Parent Creek	JB97-27	483750 E 7079150 N	< 5	0	1	18	100	< 0.5	2	0	< 0.5	5	19	48	3	< 10	< 1
Upper Parent Creek	JB97-28	483150 E 7079600 N	15	0	1	18	220	< 0.5	< 2	0	2	12	18	27	3	< 10	1
Left fork tributary to Sprague Creek	JB97-29	426075 E 7086900 N	5	< 0.2	1	14	110	< 0.5	< 2	0	1	11	19	18	2	< 10	< 1
Gem Creek	JB97-30	411300 E 7093800 N	260	0	2	434	200	< 0.5	2	0	< 0.5	17	23	126	5	< 10	< 1
Arizona Creek	JB97-31	408400 E 7096400 N	< 5	< 0.2	1	10	290	< 0.5	< 2	1	1	14	21	28	3	< 10	< 1
Big Creek	JB97-32	406650 E 7085350 N	15	0	1	32	130	< 0.5	< 2	0	1	12	23	23	2	< 10	< 1
Granite Creek	JB97-33	407250 E 7085050 N	10	< 0.2	1	16	120	< 0.5	< 2	0	1	13	33	30	3	< 10	< 1
Upper left fork tributary to Forty Mile Creek	JB97-34	403800 E 7078250 N	520	4	1	144	110	< 0.5	< 2	0	3	12	18	25	3	< 10	< 1
Castnor Creek	JB97-38	435475 E 7077850 N	10	< 0.2	1	8	120	< 0.5	2	0	< 0.5	10	25	17	2	< 10	< 1
Laska Gulch	JB97-39	435300 E 7077900 N	< 5	< 0.2	1	20	120	< 0.5	< 2	0	1	17	18	16	3	< 10	< 1
Crystal Creek	JB97-40	482000 E 7091075 N	15	16	1	188	200	< 0.5	< 2	1	22	7	12	26	2	< 10	< 1
Main tributary to Empire Creek	JB97-42	470450 E 7036050 N	< 5	< 0.2	1	16	140	< 0.5	< 2	1	< 0.5	15	43	41	3	< 10	1
Unnamed tributary to Talbot Lake	JB97-43	464900 E 7036800 N	< 5	< 0.2	1	8	160	< 0.5	< 2	1	< 0.5	11	23	24	2	< 10	< 1
Right fork to Talbot Creek	JB97-44	457900 E 7042350 N	< 5	< 0.2	1	16	80	< 0.5	2	0	< 0.5	14	12	28	3	< 10	< 1
Upper Talbot Creek	JB97-45	461100 E 7044700 N	< 5	< 0.2	1	10	130	< 0.5	< 2	0	< 0.5	11	27	20	2	< 10	< 1
No name tributary to Stewart River	JB97-46	469100 E 7044450 N	10	< 0.2	1	6	200	< 0.5	< 2	0	< 0.5	9	17	13	2	< 10	< 1
Goodman Creek	JB97-48	443125 E 7087150 N	< 5	< 0.2	1	12	150	< 0.5	6	0	< 0.5	9	14	19	2	< 10	< 1
Sunshine Creek	DM97-01	421050 E 7079500 N	< 5	1	1	36	170	1	2	0	1	14	21	32	3	< 10	< 1
Left fork tributary to Sprague Creek	DM97-02	419650 E 7087200 N	< 5	< 0.2	1	16	120	< 0.5	2	0	< 0.5	12	22	22	2	< 10	< 1
Hobo Creek	DM97-03	408150 E 7097350 N	20	< 0.2	1	102	160	1	< 2	0	1	12	22	33	3	< 10	< 1
Drapeau Creek	DM97-04	408550 E 7097000 N	10	< 0.2	1	12	310	1	< 2	1	1	15	24	36	3	< 10	< 1
Left fork tributary to Big Creek	DM97-05	408250 E 7089950 N	10	0	2	18	670	1	< 2	1	1	11	36	24	3	< 10	< 1
Josephine Creek	DM97-06	400800 E 7084850 N	355	0	2	532	140	1	< 2	0	1	20	31	41	3	< 10	< 1
Upper right fork tributary to Forty Mile Creek	DM97-07	409750 E 7079925 N	15	0	1	78	70	< 0.5	6	0	< 0.5	21	16	39	4	< 10	< 1
Upper Bear Creek	DM97-08	433525 E 7064250 N	110	< 0.2	1	10	130	< 0.5	2	0	< 0.5	11	16	19	2	< 10	< 1
Right fork tributary to Bear Creek	DM97-09	433625 E 7064300 N	5	< 0.2	1	18	120	< 0.5	< 2	0	< 0.5	10	14	16	2	< 10	< 1
Shanghai Creek	JB97-49	465275 E 7089950 N	10	10	1	22	230	< 0.5	< 2	2	< 0.5	10	17	23	2	< 10	< 1
Allen Creek	JB97-50	498450 E 7088450 N	< 5	< 5	2	20	190	< 0.5	< 2	0	< 0.5	26	28	89	3	< 10	< 1
Left fork tributary to Allen Creek	JB97-52	498800 E 7088700 N	< 5	< 5	1	56	170	< 0.5	< 2	0	< 0.5	24	35	92	3	< 10	< 1

Stream	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
Russell Creek	0	30	0	615	1	< 0.01	21	510	10	< 2	1	19	0	< 10	< 10	21	< 10	68
Upper Morrison Creek	0	20	0	530	1	< 0.01	19	580	8	< 2	2	20	0	< 10	< 10	27	< 10	70
Bennett Creek	0	30	0	360	< 1	< 0.01	18	430	12	8	1	19	0	< 10	< 10	14	< 10	56
Sunday Creek	0	20	0	205	1	< 0.01	11	370	8	< 2	1	32	0	< 10	< 10	16	< 10	42
Upper Parent Creek	0	30	0	170	3	< 0.01	18	550	22	< 2	1	8	< 0.01	< 10	10	24	< 10	74
Upper Parent Creek	0	30	0	350	3	< 0.01	42	730	14	2	1	23	0	< 10	< 10	27	< 10	230
Left fork tributary to Sprague Creek	0	30	0	290	< 1	< 0.01	21	490	14	< 2	1	21	0	< 10	< 10	22	< 10	80
Gem Creek	0	30	0	560	4	< 0.01	29	820	32	< 2	3	34	0	< 10	< 10	49	< 10	122
Arizona Creek	0	30	1	530	2	< 0.01	27	980	12	< 2	4	59	0	< 10	< 10	35	< 10	96
Big Creek	0	30	0	385	< 1	< 0.01	24	540	16	< 2	3	22	0	< 10	< 10	30	< 10	76
Granite Creek	0	30	1	275	1	< 0.01	31	670	32	14	3	37	0	< 10	< 10	34	< 10	92
Upper left fork tributary to Forty Mile Creek	0	30	0	650	< 1	< 0.01	23	520	46	< 2	1	20	0	< 10	< 10	24	< 10	208
Castnor Creek	0	30	1	400	1	< 0.01	23	570	16	2	2	31	0	< 10	< 10	23	< 10	90
Laska Gulch	0	30	0	1260	1	< 0.01	28	400	22	< 2	1	18	0	< 10	< 10	21	< 10	228
Crystal Creek	0	< 10	1	3600	2	< 0.01	26	770	888	18	1	28	0	< 10	< 10	20	< 10	1640
Main tributary to Empire Creek	0	10	1	500	< 1	< 0.01	39	610	8	< 2	4	46	0	< 10	< 10	40	< 10	60
Unnamed tributary to Talbot Lake	0	30	1	395	< 1	< 0.01	24	620	8	< 2	3	34	0	< 10	< 10	29	< 10	52
Right fork to Talbot Creek	0	50	0	435	1	< 0.01	29	480	12	< 2	1	26	0	< 10	< 10	14	< 10	72
Upper Talbot Creek	0	30	1	400	< 1	< 0.01	26	650	8	< 2	3	34	0	< 10	< 10	27	< 10	58
No name tributary to Stewart River	0	20	0	415	< 1	< 0.01	17	490	8	2	2	25	0	< 10	< 10	23	< 10	54
Goodman Creek	0	30	0	405	1	< 0.01	19	500	12	4	2	37	0	< 10	< 10	21	< 10	56
Sunshine Creek	0	20	0	900	< 1	< 0.01	23	650	14	< 2	1	18	0	< 10	< 10	30	< 10	134
Left fork tributary to Sprague Creek	0	30	0	390	< 1	< 0.01	24	520	16	< 2	2	28	0	< 10	< 10	26	< 10	72
Hobo Creek	0	20	0	600	3	< 0.01	28	580	18	< 2	3	30	0	< 10	< 10	39	< 10	134
Drapeau Creek	0	20	0	1095	4	< 0.01	40	820	16	< 2	4	58	0	< 10	< 10	39	< 10	170
Left fork tributary to Big Creek	0	30	1	980	1	< 0.01	24	1090	10	< 2	5	67	0	< 10	< 10	50	< 10	98
Josephine Creek	0	30	1	585	1	< 0.01	44	650	10	< 2	4	32	0	< 10	< 10	38	10	94
Upper right fork tributary to Forty Mile Creek	0	40	0	670	1	< 0.01	40	500	30	6	1	18	0	< 10	< 10	18	< 10	104
Upper Bear Creek	0	40	0	385	1	< 0.01	21	550	14	8	2	34	0	< 10	< 10	19	< 10	70
Right fork tributary to Bear Creek	0	40	0	270	1	< 0.01	18	490	14	< 2	1	35	0	< 10	< 10	16	< 10	62
Shanghai Creek	0	20	1	530	1	< 0.01	22	690	16	< 2	3	61	0	< 10	< 10	30	< 10	76
Allen Creek	0	40	1	925	2	< 0.01	119	870	20	4	3	27	0	< 10	< 10	33	< 10	590
Left fork tributary to Allen Creek	0	40	1	1140	2	< 0.01	66	700	38	< 2	3	14	0	< 10	< 10	31	< 10	286

Appendix 4. Measured sections

Duncan Creek/Keno Hill

Date: 02/07/96 Section number: FH9601/ Lw9605 Measured by: FJH Creek or River: Upper Duncan Creek NTS: 105M14
 Latitude: 63°52.21 Longitude: 135°11.48 Elevation: 4120 to 4180 UTM:
 Orientation: 269 ← → 089 upstream Geomorph landform: Valley Fill-Dissected Alluvial Fan

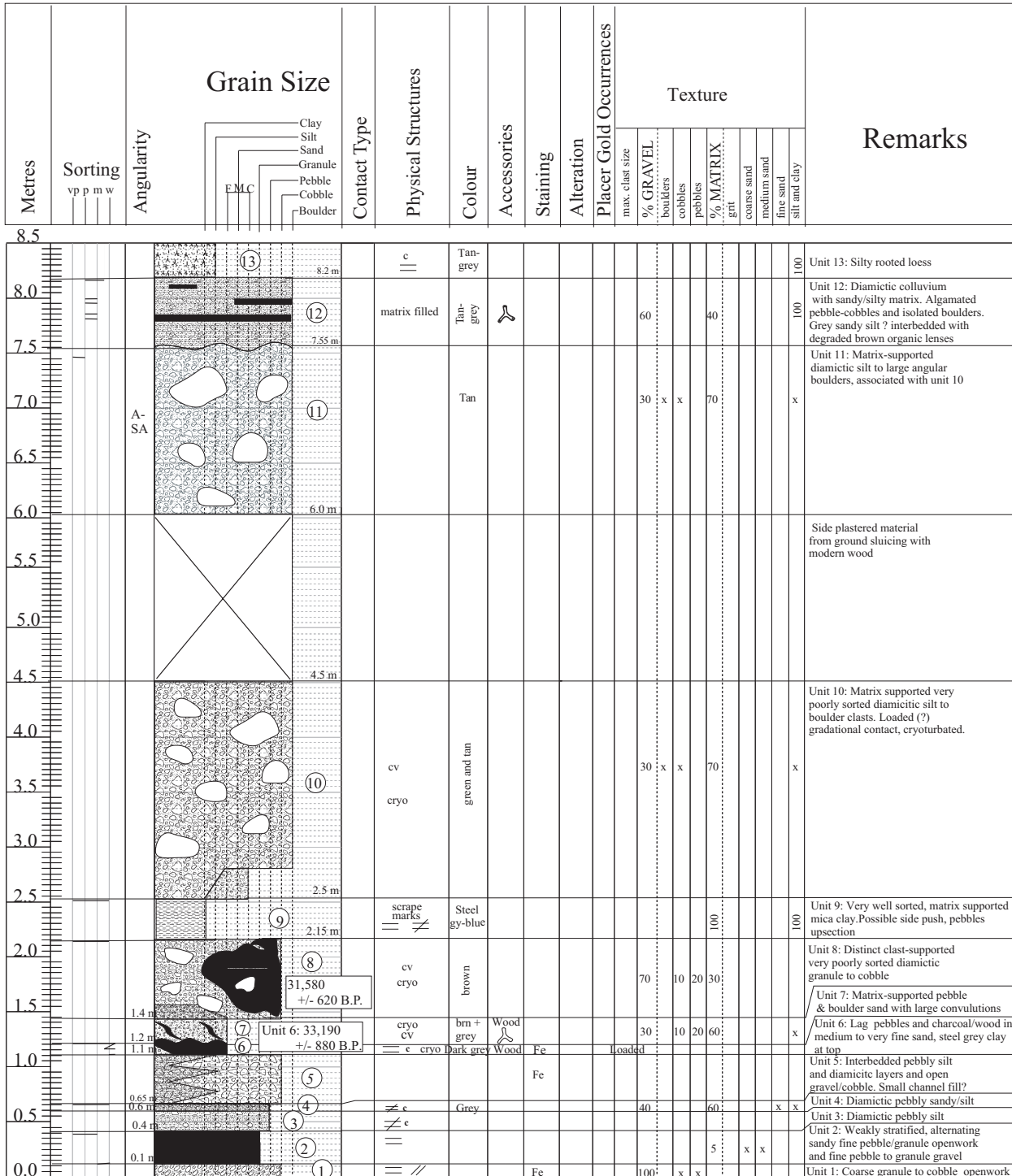
Metres	Sorting vp p m w	Angularity EMC	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture								Remarks				
											max. clast size	% GRAVEL boulders	pebbles	% MATRIX grit	coarse sand	medium sand	fine sand	silt and clay					
3																							
		A-SR		3.00 m	≠																		Unit 4: Angular to subrounded sandy-silty cobble gravel (colluvium) with an unsorted random fabric
		A-R		2.30 m			Dark steel grey	Wood				20	10	10	80								Unit 3: Angular to rounded sandy pebble/cobble with degraded wood logs at top
2		A-SR		1.80 m																			Unit 2: Angular to subrounded boulder gravel with silty matrix and random fabric
		A-SR		1.05 m	≠																		Unit 1: Random, clast-supported, angular to subrounded, boulder-gravel with infill fabrics near top, boulder-cobble gravel below. Iron staining with Mn stain stringers. Maximum clast size is 0.9m
1		A-SR			c =	Orange-black to orange			Mn Fe Mn Fe														Covered base stream bed
0										★													

Legend

	Mud (Silt/clay)		Gravel		Planar stratified		Massive		Imbricate		Ripples		Organics
	Sand		Diamicton		Cross-stratified		Trough cross-stratified		Fossils		Planar Tabular Cross Beds		

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

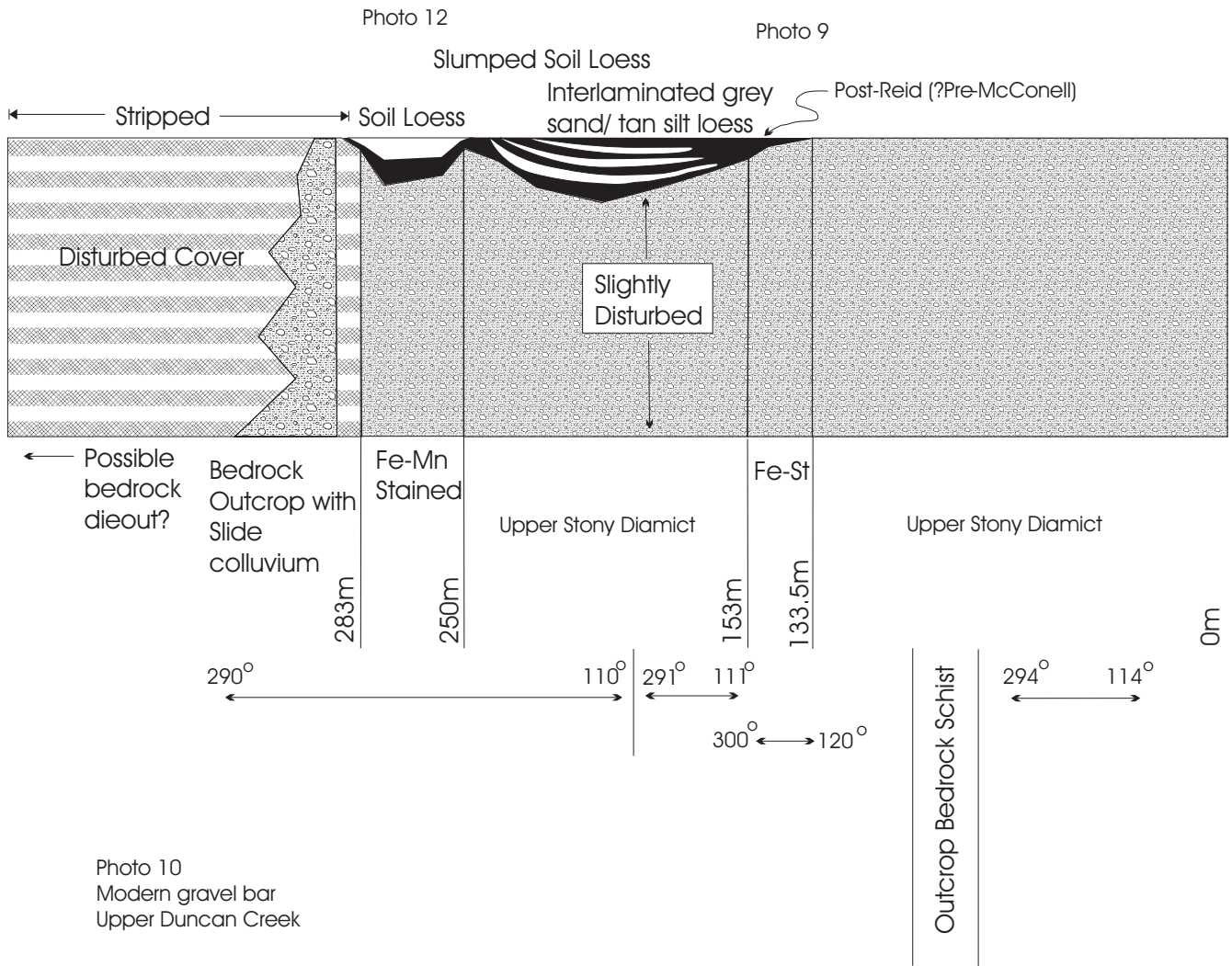
Date 04/07/96 Section number: FH-96-02 Measured by: WPL/MR Creek or River: Duncan Creek NTS: 105M14
 Latitude: 63°52.64 Longitude: 135°18.45 Elevation: 3240 ft UTM: 0476570E, 7076621N
 Orientation: 310 ← → 130 upstream Geomorph landform: Valley



Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 08/07/96 Section number: FH96-02A Measured by: _____ Creek or River: Upper Duncan Creek NTS: _____
 Latitude: 63 52.64N Longitude: 135 18.45W Elevation: _____ UTM: _____
 Orientation: 310 ← → 130 upstream Geomorphic landform: modern gravel bar downstream from measured section



Date: 12/07/96 Section number: FH96012 Measured by: WPL/FJH/LM Creek or River: Duncan Creek NTS: 105M14
 Latitude: 63°52'44"N Longitude: 135°22'39"W Elevation: 2740 ft UTM: 0481455E, 7083376N
 Orientation: 076 ← → 256 upstream Geomorphic landform: Alluvial Fan

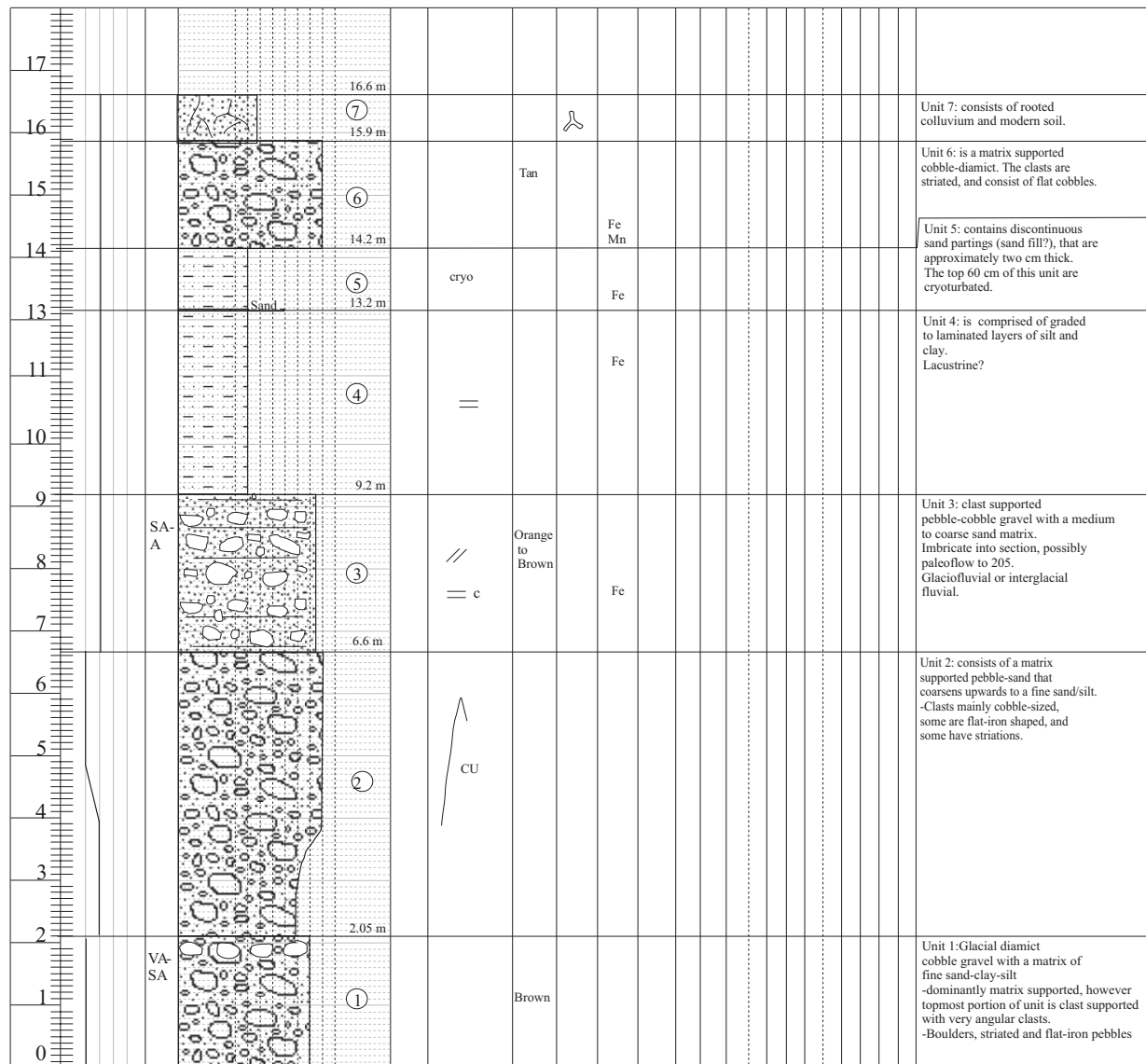
Metres	Sorting vp p m w	Angularity EMC	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture								Remarks			
											max. clast size	% GRAVEL boulders	pebbles	% MATRIX grit	course sand	medium sand	fine sand	silt and clay				
10.0																						Unit 13: modern soil, 0.1m
9.5																						Unit 12: Colluvium; Matrix-supported angular colluvium with random fabrics and down-slope imbrication; modern colluvium.
9.0																						Unit 11: overbank-slope organic mat horizon.
8.5																						Unit 10: clast-supported cobble-gravel w/ a tabular unit, horizontal orientation. Gd. B-axis imbrication indicating side-entry alluvial fan system
8.0																						Unit 9: Matrix-supported cobble-gravel; unsorted with apparent a-axis imbrication indicating side-entry fan input; tabular bed with horizontal orientation.
7.5																						Unit 8: stratified sand/silt; w. sorted fine- medium cobble-gravel, w. Stratified, fining upwards into v. fine sand/silt: whole unit is tabular, dipping at 321/22 to 035/2- cap to alluvial channel-fan succession; channel top to overbank deposit.
7.0																						Unit 7: matrix-supported cobble-gravel w/ a-axis clast imbrication indicating flow from side-entry tributary, poss.debris-flow deposits from side-entry alluvial fan channel, middle part of fining-upward succession.
6.5																						Unit 6: clast-supported cobble-gravel scour fill incised w/i & downcutting thick glacial diamict(?Unit 14, Reid or McConnel); fines up fluvial succession; b-axis imbrication indicates transport from side entry valley
6.0																						Unit 5: diamict w/ stringers of clast-supported gravel; tabular lens of matrix-supported gravel w/ minor stringers of clast-supported gravel; laterally equiv. to bdrk. & diamict.
5.5																						Unit 4: laterally equiv. Clast & matrix supported cobble-gravel lens in contact btwn. bdrk. & diamict, irregular scour/loaded top & lowermost surfaces.
5.0																						Unit 3: Clast-supported sandy matrix infill.
4.5																						Unit 2: Silt/sand matrix-supported cobble pebble gravel; internally sheared silt-clay bands parallel to high angle contact w/ bdrk. (?) Ice contact diamictic; possible kame.
4.0																						Unit 1: Thrust-faulted fluvial gravel; Clast & matrix-supported pebble gravel; sheared bands of silt-clay; planes W01/56; in fault(?) contact with bdrk. Slumped basal part of section along strike & under quartzite bedrock; v. fine sand & silt; exact contact not visible, possibly undercut beneath bedrock.

Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 15/08/96	Section number: FH9618	Measured by: FJH, LW	Creek or River: Thunder Gulch	NTS: 105M/14
Latitude: 63°53.97	Longitude: 135°15.07	Elevation: 3790 ft	UTM: 487670E, 7085643N	2nd tributary to lacustrine section
Orientation: 128° us	← → 348° ds	Geomorphoc landform: Gulch gravels		

Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture										Remarks
											max. clast size	% GRAVEL	boulders	pebbles	% MATRIX	grit	coarse sand	medium sand	fine sand	silt and clay	

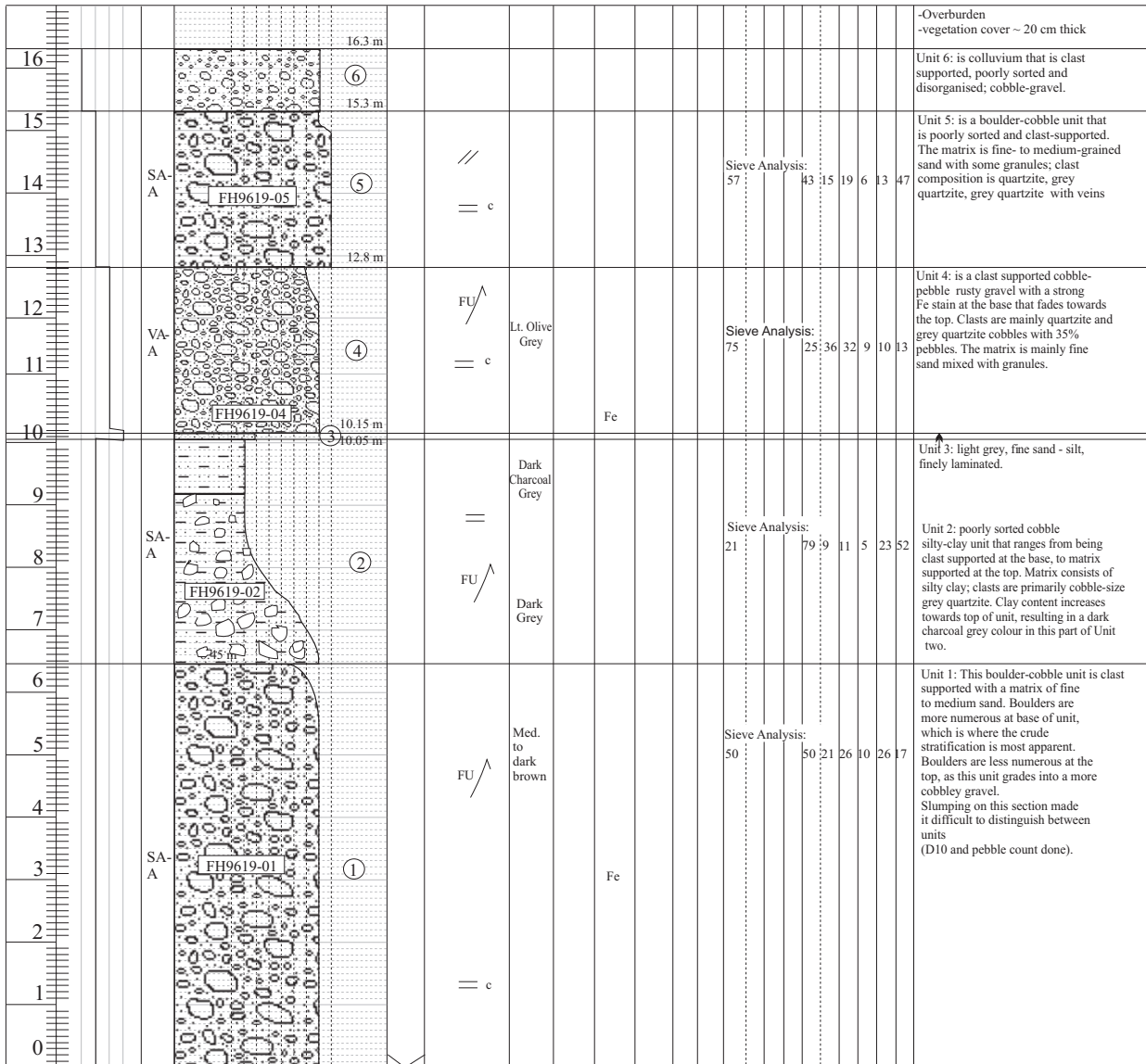


Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features											

Date: 16/08/96 Section number: FH9619-1 Measured by: LW Creek or River: Thunder Gulch NTS: 105M/14
 Latitude: 63°54.00' Longitude: 135°14.77' Elevation: 3710 ft UTM: 487917E, 7085846N First logged on NW end down stream blue-grey boulder unit. Section is moderately indurated on the surface, difficult to cut steps.
 Orientation: 135° us ← → 315° ds Geomorph landform: Gulch gravels

Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture										Remarks
											max. clast size	% GRAVEL	boulders	pebbles	% MATRIX	grit	course sand	medium sand	fine sand	silt and clay	

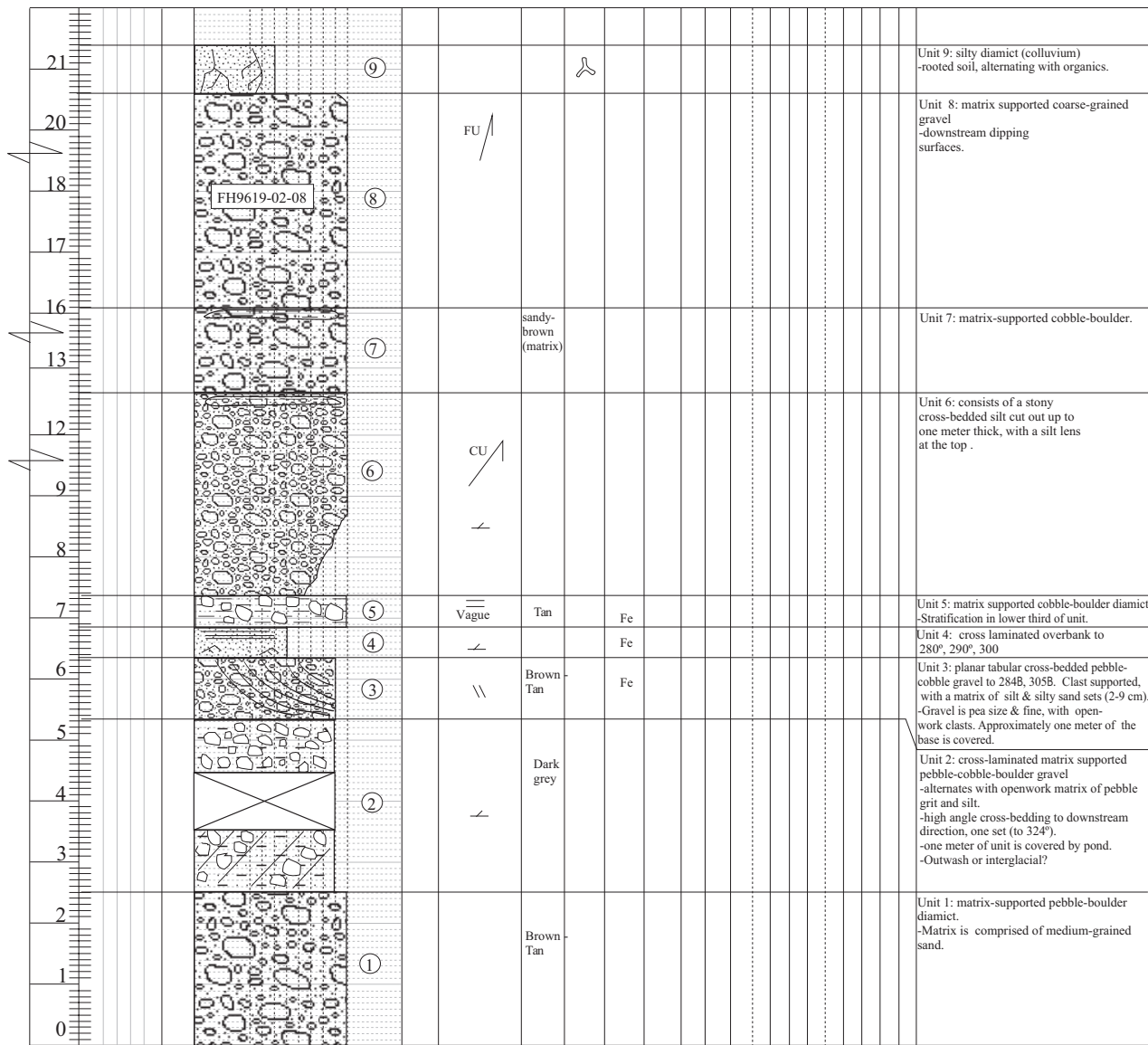


Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 20/08/96 Section number: FH9619-2 Measured by: FJH, LM Creek or River: Thunder Gulch NTS: 105M/14
 Latitude: 63°54.08 Longitude: 135°14.92 Elevation: 3750 ft UTM: 487794E, 7085846N
 Orientation: 144° us ← → 324° ds Geomorphic landform: Gulch gravels

Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture								Remarks
											max. clst size	% GRAVEL boulders	pebbles	% MATRIX grit	course sand	medium sand	fine sand	silt and clay	



1 m above water level, lowest m washed and slumped

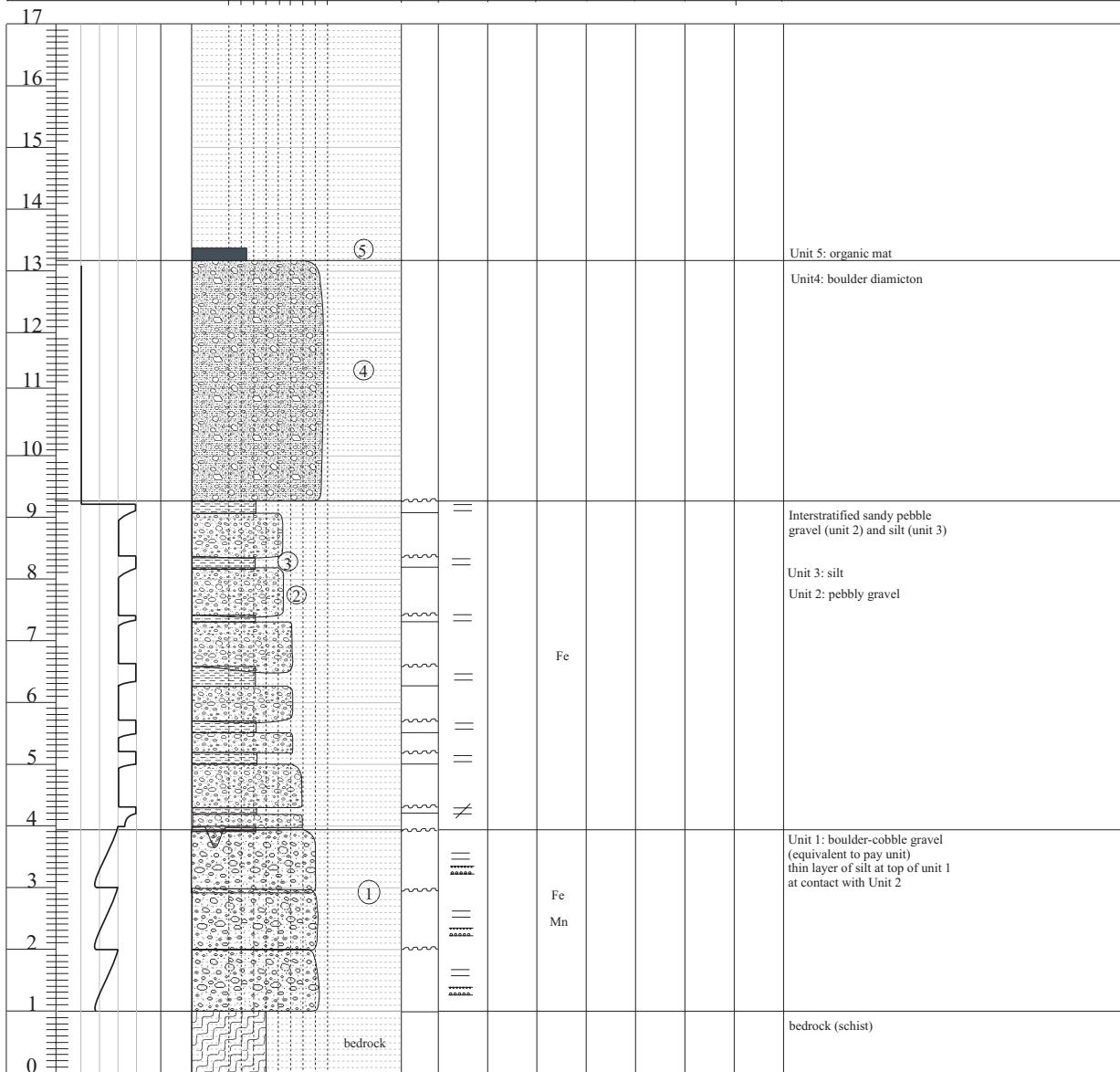
Legend

Mud (Silt/clay)	Gravel	Planar stratified	Massive	Imbricate	Ripples	Organics
Sand	Diamicton	Cross-stratified	Trough cross-stratified	Fossils	Planar Tabular Cross Beds	

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 30/07/95 Section Number: FT1-95 Measured by: WPL Creek or River: Duncan Creek NTS: 105M14
 Latitude: 63°48'34"N Longitude: 135°29'12"W Elevation: 2420 Geomorphic Landform: Glaciofluvial Terrace
 Orientation: 326 <-----> 146 downstream

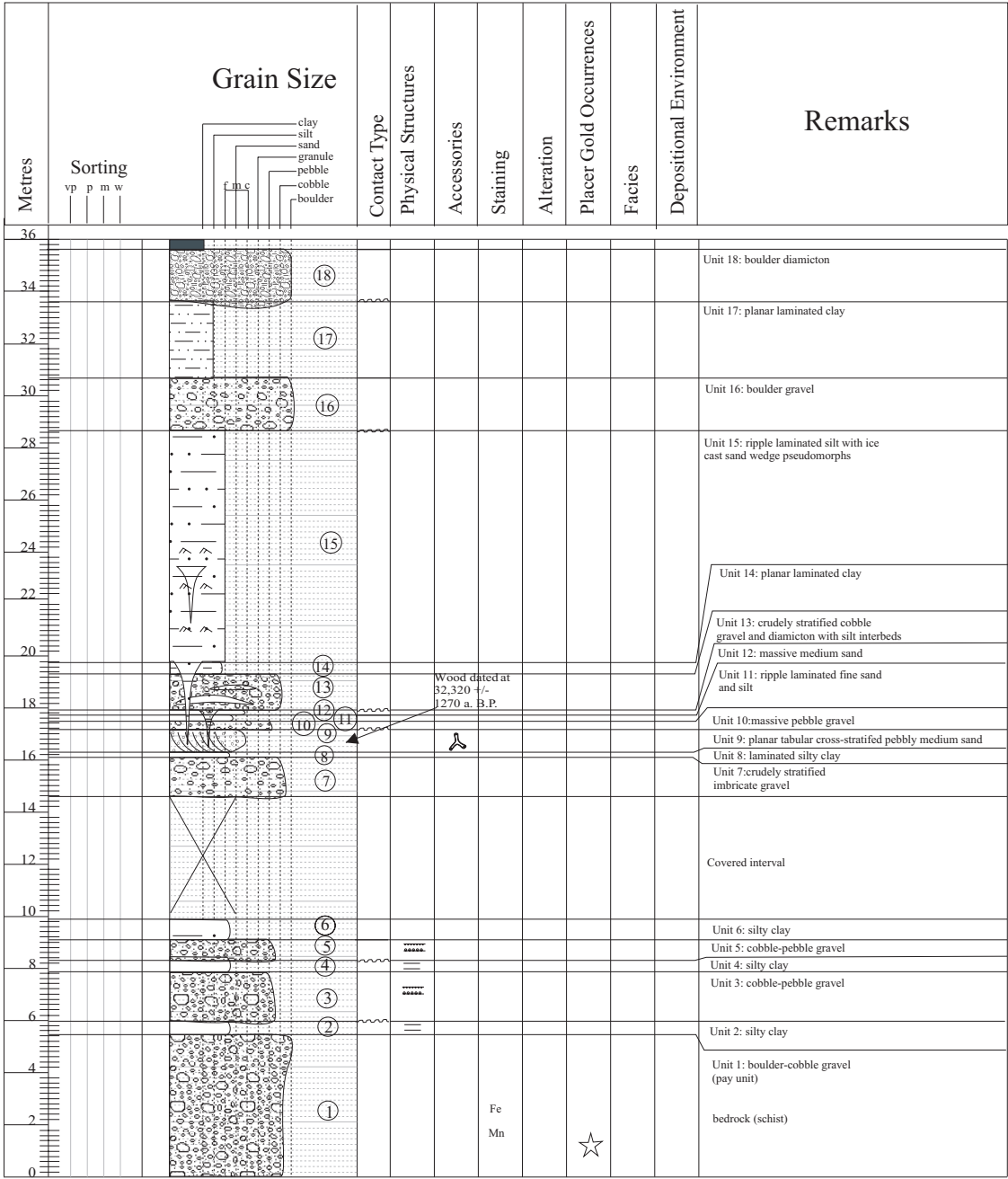
Metres	Sorting vp p m w	Grain Size clay silt sand granule pebble cobble boulder	Contact Type	Physical Structures	Accessories	Staining	Alteration	Placer Gold Occurrences	Facies	Depositional Environment	Remarks



Legend

Lithology		Physical Structures and Accessories			
Mud (Silt/clay)	Gravel	Planar stratified	Massive	Ripples	Organics
Sand	Diamicton	Cross-stratified	Trough cross-stratified	Fossils	

Date: 09/07/95 Section Number: FT2-95 Measured by: WPL Creek or River: Duncan Creek NTS: 105M14
 Latitude: 63°48'38"N Longitude: 135°29'04"W Elevation: 2420 ft Geomorphic Landform: Glaciofluvial Terrace
 Orientation: 64 <-----> 244 downstream

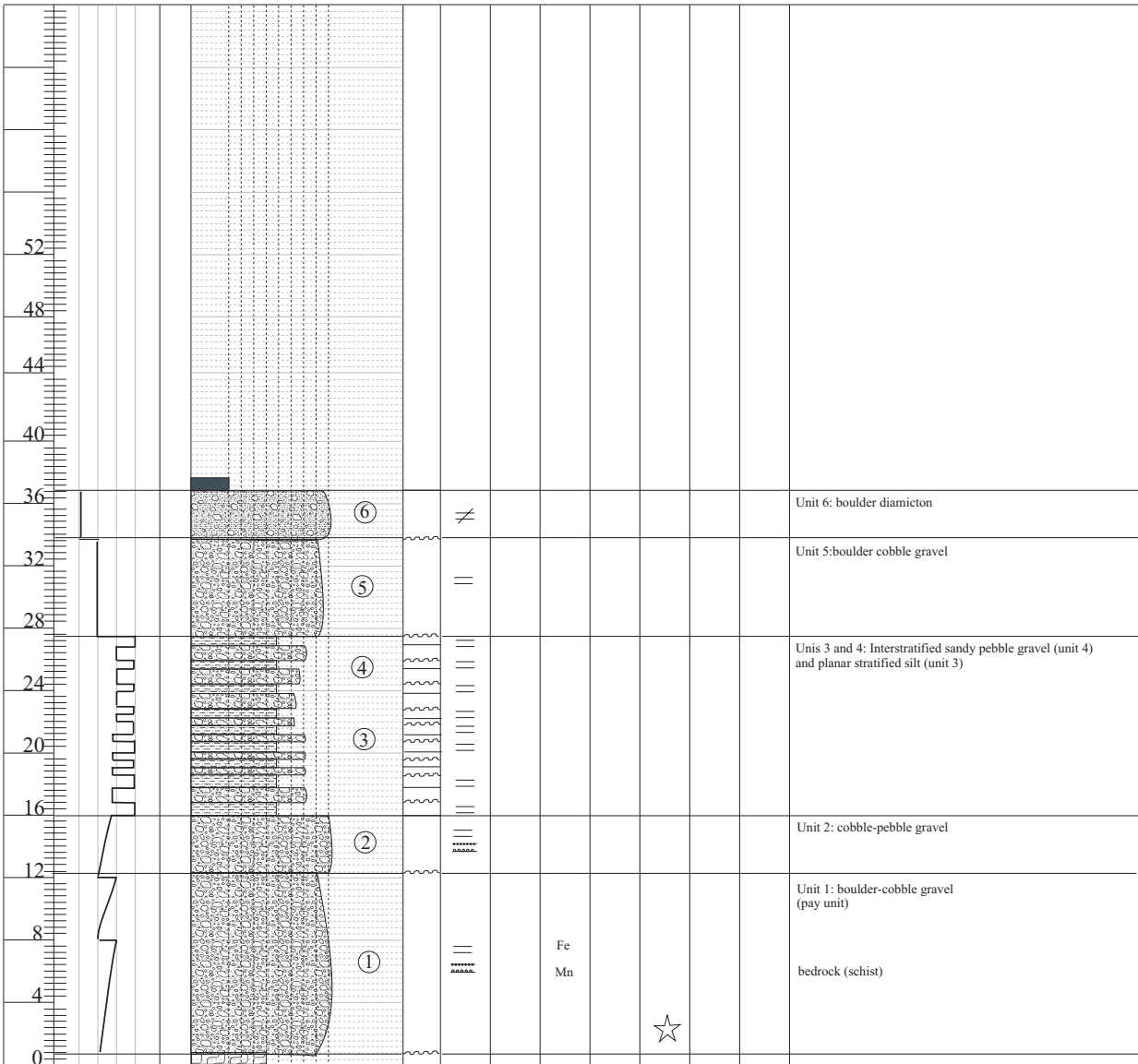


Legend

Lithology		Physical Structures and Accessories			
Mud (Silt/clay)	Gravel	Planar stratified	Massive	Ripples	Organics
Sand	Diamicton	Cross-stratified	Trough cross-stratified	Fossils	

Date: 09/08/95 Section Number: FT3-95 Measured by: WPL Creek or River: Duncan Creek NTS: 105M14
 Latitude: 63°48'43"N Longitude: 135°29'03"W Elevation: 2420 ft Geomorphic Landform: Glaciofluvial Terrace
 Orientation: 20 <-----> 200 downstream

Metres	Sorting vp p m w	Grain Size clay silt sand granule pebble cobble boulder	Contact Type	Physical Structures	Accessories	Staining	Alteration	Placer Gold Occurrences	Facies	Depositional Environment	Remarks

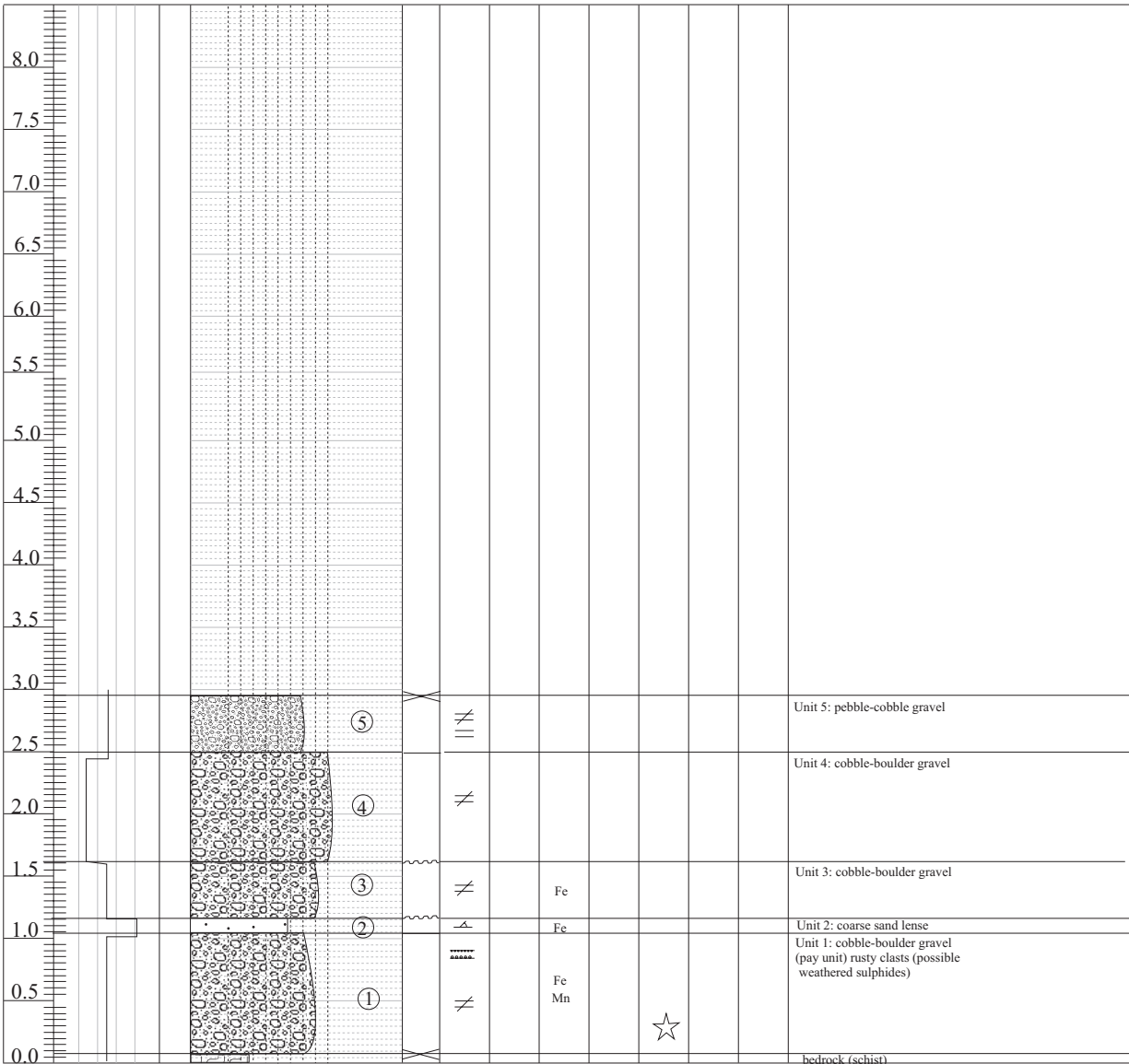


Legend

Lithology		Physical Structures and Accessories			
Mud (Silt/clay)	Gravel	Planar stratified	Massive	Ripples	Organics
Sand	Diamicton	Cross-stratified	Trough cross-stratified	Fossils	

Date: 01/08/95 Section Number: FT4-95 Measured by: WPL/PM Creek or River: Duncan Creek NTS: 105M14
 Latitude: 63°48'47"N Longitude: 135°29'00"W Elevation: 2420 Geomorphic Landform: Glaciofluvial Terrace
 Orientation: 94 <-----> 274

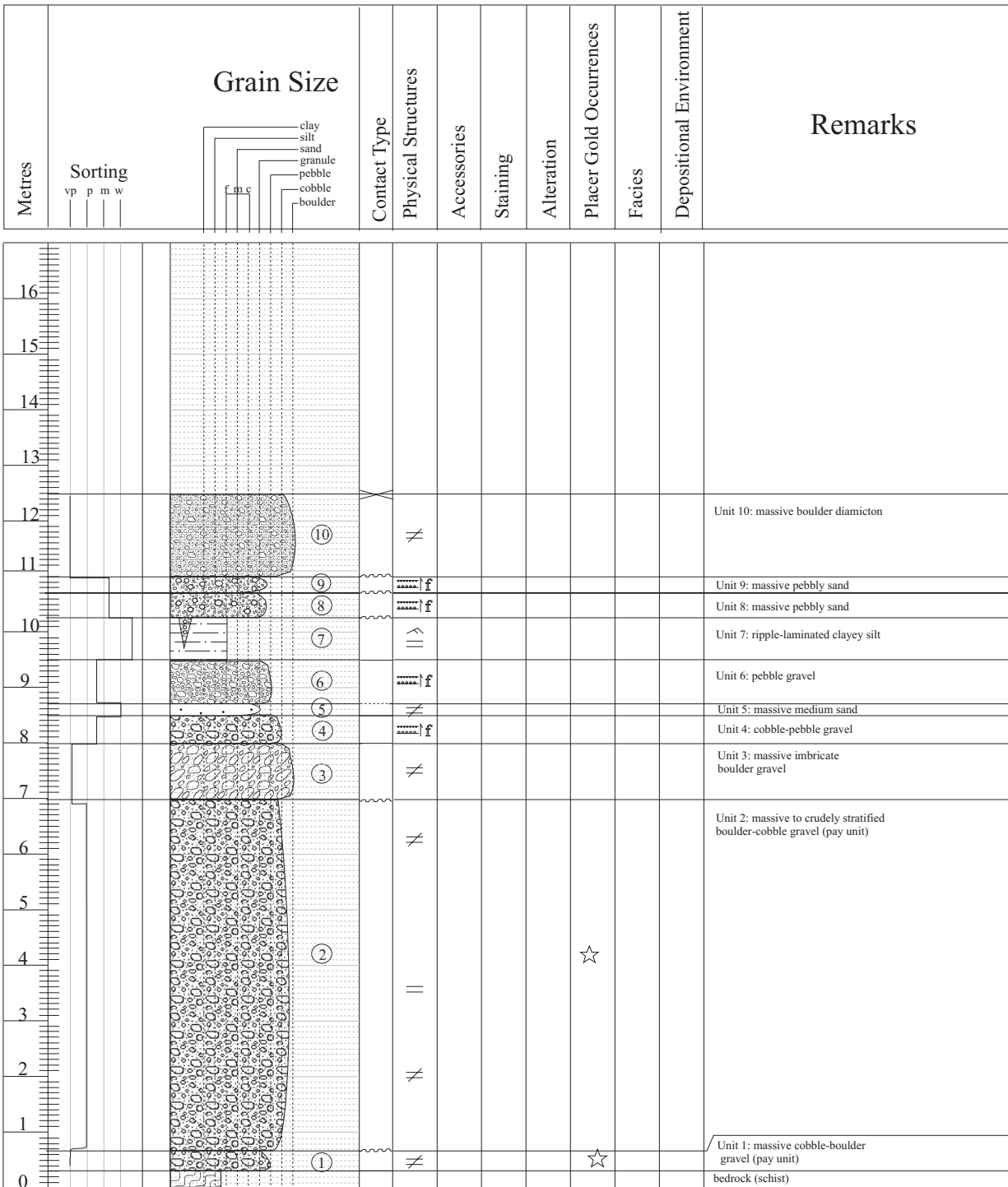
Metres	Sorting vp p m w	Grain Size clay silt sand granule pebble cobble boulder	Contact Type	Physical Structures	Accessories	Staining	Alteration	Placer Gold Occurrences	Facies	Depositional Environment	Remarks



Legend

Lithology		Physical Structures and Accessories			
Mud (Silt/clay)	Gravel	Planar stratified	Massive	Ripples	Organics
Sand	Diamicton	Cross-stratified	Trough cross-stratified	Fossils	

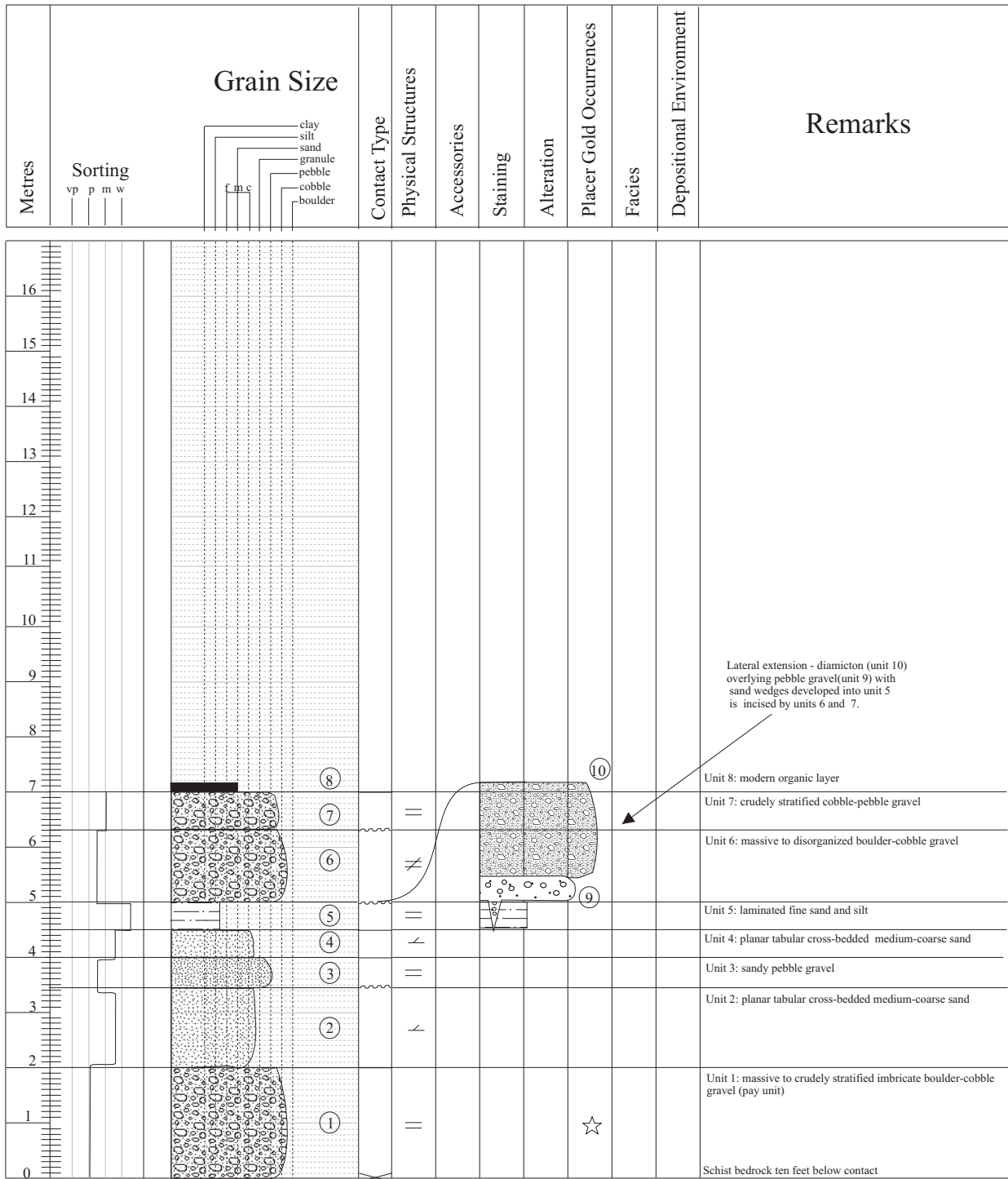
Date: 11/08/95 Section Number: FT5-95 Measured by: WPL/PM Creek or River: Duncan Creek NTS: 105M14
 Latitude: 63°48'53"N Longitude: 135°28'54"W Elevation: 2450 ft Geomorphic Landform: Glaciofluvial Terrace
 Orientation: 34 <-----> 214 Downstream



Legend

Lithology		Physical Structures and Accessories									
	Mud (Silt/clay)		Gravel		Planar stratified		Massive		Ripples		Organics
	Sand		Diamicton		Cross-stratified		Trough cross-stratified		Fossils		

Date: 28/09/95 Section Number: FT6-95 Measured by: WPL Creek or River: Duncan Creek NTS: 105M14
 Latitude: 63°48'53"N Longitude: 135°28'52"W Elevation: 2460 ft Geomorphic Landform: Glaciofluvial Terrace
 Orientation: 26 <-----> 206 Downstream



Legend

Lithology		Physical Structures and Accessories			
	Mud (Silt/clay)		Gravel		Planar stratified
	Sand		Diamicton		Massive
			Cross-stratified		Ripples
			Trough cross-stratified		Organics
			Fossils		

Date: 11/08/95 Section Number: FT7-95 Measured by: WPL Creek or River: Duncan Creek NTS: 105M13
 Latitude: 63°47'19"N Longitude: 135°30'21"W Elevation: 2480 Geomorphic Landform: Glaciofluvial Terrace
 Orientation: 15 <-----> 195 Downstream

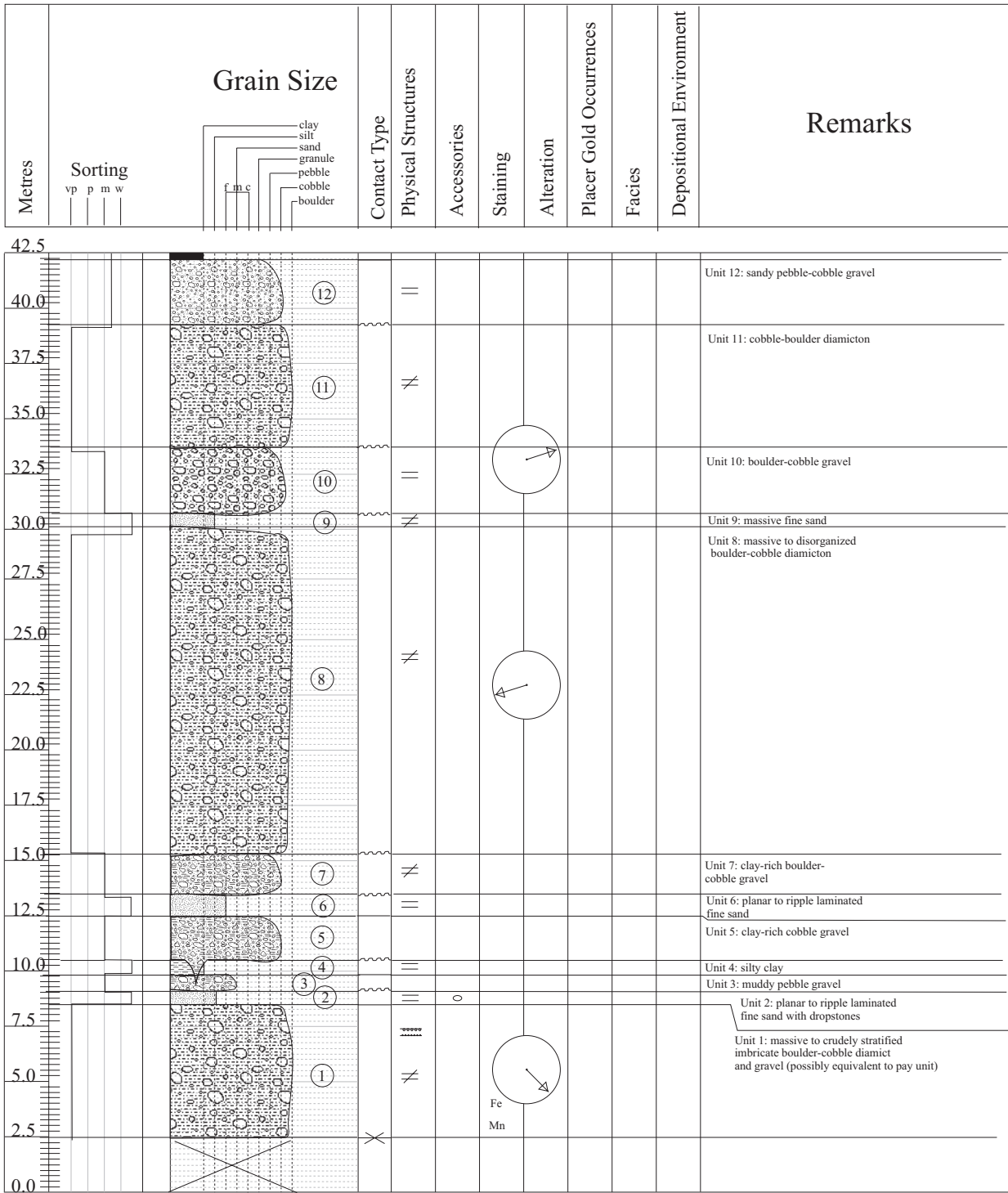
Metres	Sorting vp p m w	Grain Size clay silt sand granule pebble cobble boulder	Contact Type	Physical Structures	Accessories	Staining	Alteration	Placer Gold Occurrences	Facies	Depositional Environment	Remarks

32											
30											
28											
26				⑫							Unit 12: modern organic layer
26				⑪	≠						Unit 11: massive silt (loess)
24											Unit 10: sandy cobble-pebble gravel
22				⑩	=						
20					≠						
18											
16											
14				⑨	≠						Unit 9: pebbly diamicton
14				⑧	=						Unit 8: planar stratified fine sand
12				⑦	≠						Unit 7: pebbly diamicton
10				⑥	=						Unit 6: planar stratified fine sand and silt with pebble dropstones
8											
6				⑤	=						Unit 5: imbricate cobble-boulder gravel with diamicton lenses
4					≠						
4				④	=						Unit 4: planar stratified fine sand with diamicton lenses
2											
2				③	≠						Unit 3: cobble-pebble diamicton
0				②	=						Unit 2: planar stratified fine sand
0				①	≠						Unit 1: cobble-pebble diamicton

Legend

Lithology		Physical Structures and Accessories			
Mud (Silt/clay)	Gravel	Planar stratified	Massive	Ripples	Organics
Sand	Diamicton	Cross-stratified	Trough cross-stratified	Fossils	

Date: 06/09/95 Section Number: FT8-95 Measured by: WPL Creek or River: Duncan Creek NTS: 105M14
 Latitude: 63°47'32"N Longitude: 135°30'03"W Elevation: 2320 Geomorphic Landform: Glaciofluvial Terrace
 Orientation: 10 <-----> 190 downstream

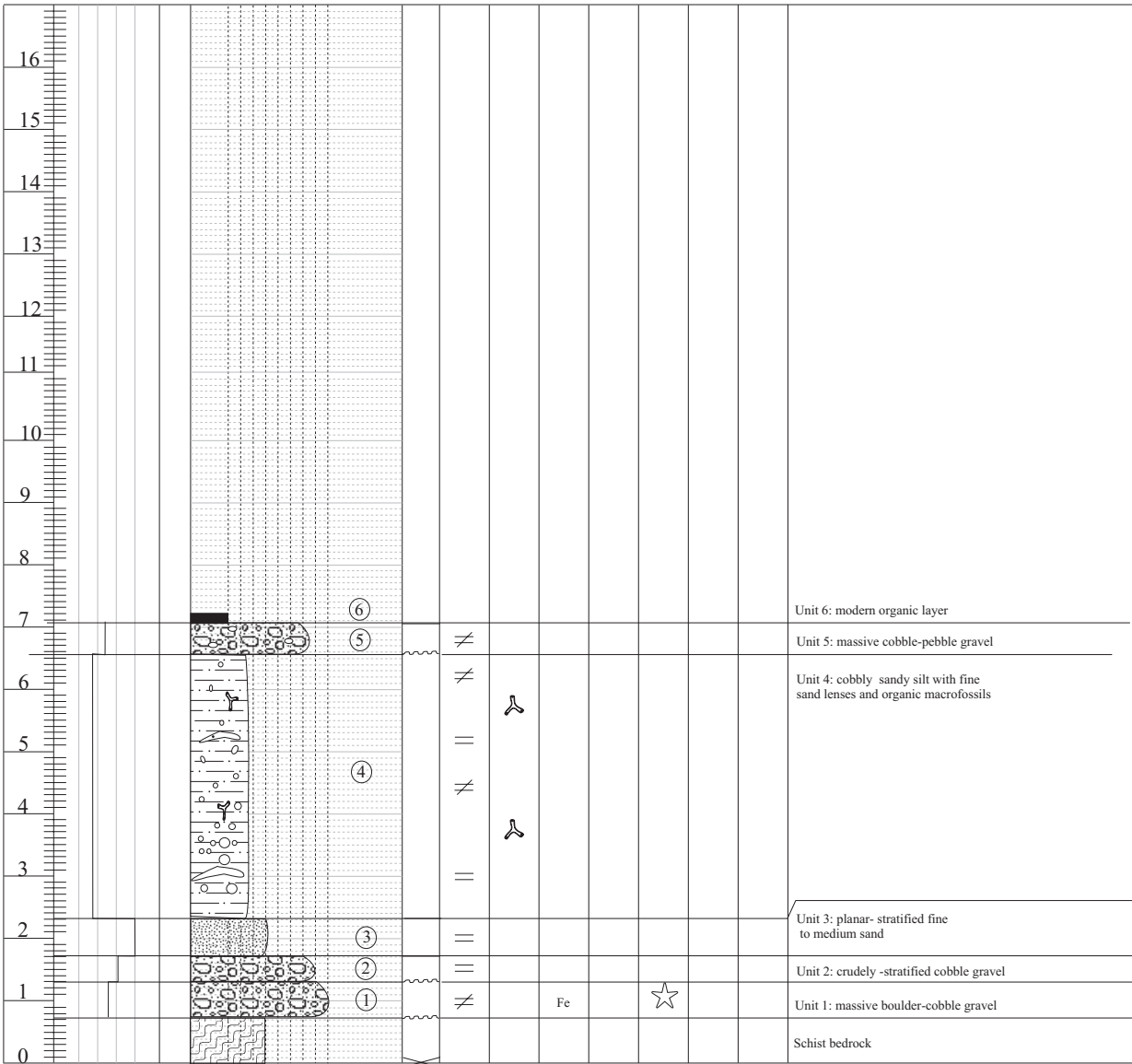


Legend

Lithology		Physical Structures and Accessories									
	Mud (Silt/clay)		Gravel		Planar stratified		Massive		Ripples		Organics
	Sand		Diamicton		Cross-stratified		Trough cross-stratified		Fossils		

Date: 19/08/95 Section Number: HB1-95 Measured by: WPL Creek or River: Upper Duncan Creek NTS: 105M14
 Latitude: 63°53'03"N Longitude: 135° 19'30"W Elevation: 3350 ft Geomorphic Landform: Valley-fill
 Orientation: 135 <-----> 315 Downstream

Metres	Sorting vp p m w	Unit Number	Grain Size					Contact Type	Physical Structures	Accessories	Staining	Alteration	Placer Gold Occurrences	Facies	Depositional Environment	Remarks
			f	m	c	pebble	cobble									

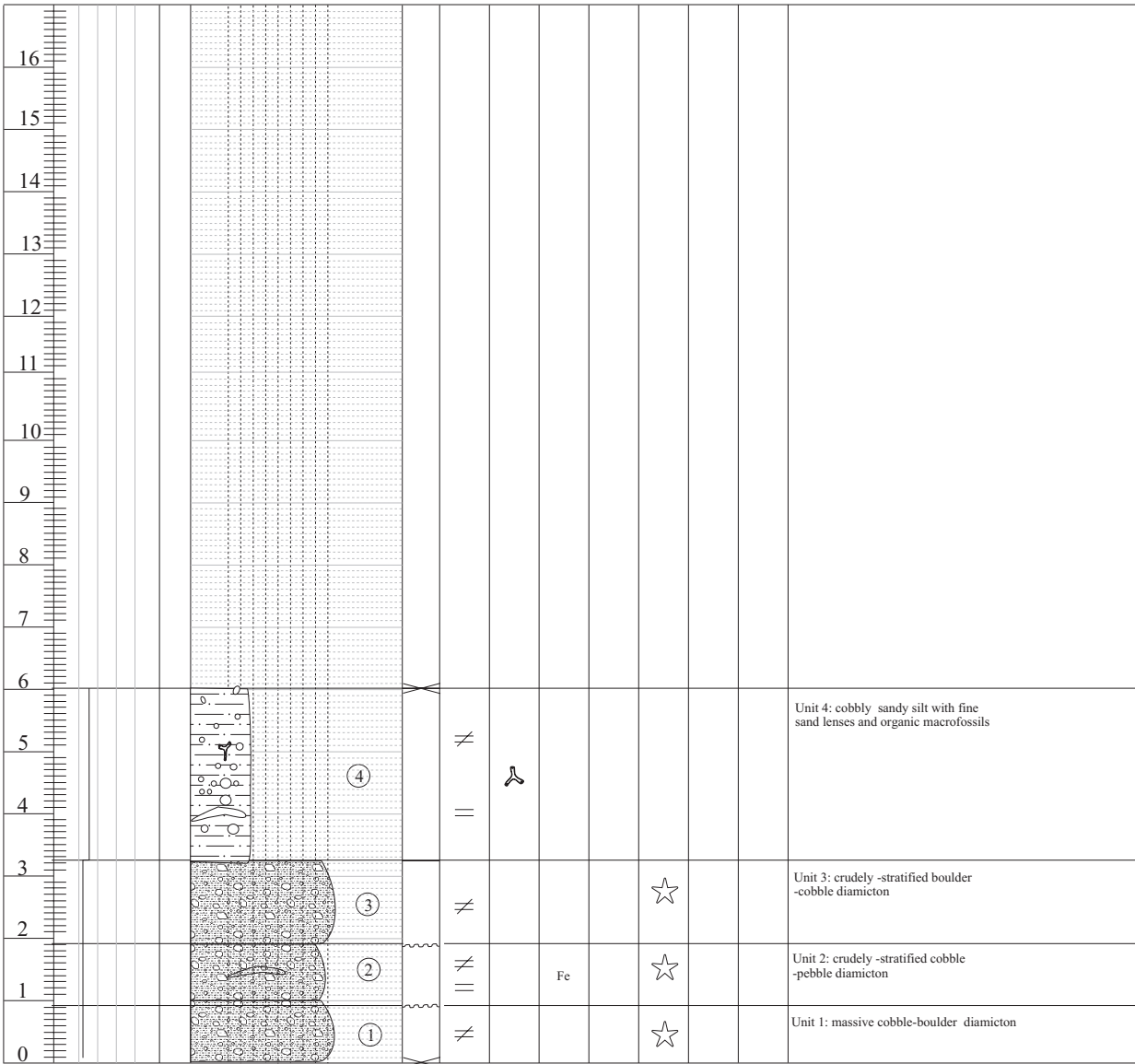


Legend

Lithology		Physical Structures and Accessories			
Mud (Silt/clay)	Gravel	Planar stratified	Massive	Ripples	Organics
Sand	Diamicton	Cross-stratified	Trough cross-stratified	Fossils	

Date: 13/09/95 Section Number: HB2-95 Measured by: WPL Creek or River: Upper Duncan Creek NTS: 105M14
 Latitude: 63°52'38"N Longitude: 135°18'26"W Elevation: 3220 ft Geomorphic Landform: Valley-fill
 Orientation: 020 <-----> 200 Downstream

Metres	Sorting		Grain Size						Contact Type	Physical Structures	Accessories	Staining	Alteration	Placer Gold Occurrences	Facies	Depositional Environment	Remarks
	vp	p	m	w	f	m	c	b									



Legend

Lithology		Physical Structures and Accessories			
	Mud (Silt/clay)		Gravel		Planar stratified
	Sand		Diamicton		Massive
			Cross-stratified		Ripples
			Trough cross-stratified		Organics
					Fossils

Date: 20/06/96 Section number: LW96-01 Measured by: LW, LM, BL Creek or River: Upper Duncan Creek NTS: 105M14
 Latitude: 63°52'61" Longitude: 135°18'36" Elevation: 3225-3250 UTM: _____
 Orientation: 300 ← → 120 upstream Geomorphic landform: Valley bottom

Metres	Sorting			Angularity	Grain Size					Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences							Remarks
	vp	p	w		Clay	Silt	Sand	Granule	Pebble							Cobble	Boulder	max. clast size	% GRAVEL	boulders	pebbles	% MATRIX	
16																							Unit 7: Dark, silty lake sediments deposited at ~50 degree angle near the base, gradually fanning out to be deposited horizontally.
15																							
14																							
13																							
12																							Unit 6: Cobble gravel -contains vertically oriented cobbles to boulders
11																							
10																							
9																							
8																							Unit 5: Cobble gravel -Normally oriented boulders on surface, silty to pebble gravel.
7																							
6																							
5																							
4																							Unit 4: Iron-rich silt/pebble interlayer Unit 3: pebbly gravel unit
3																							Unit 2: Silt to pebble sized unit
2																							Unit 1: cobble-boulder gravel -subangular to subrounded, imbricated, -clast supported. -Pale yellow weathering.
1																							
0																							

Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

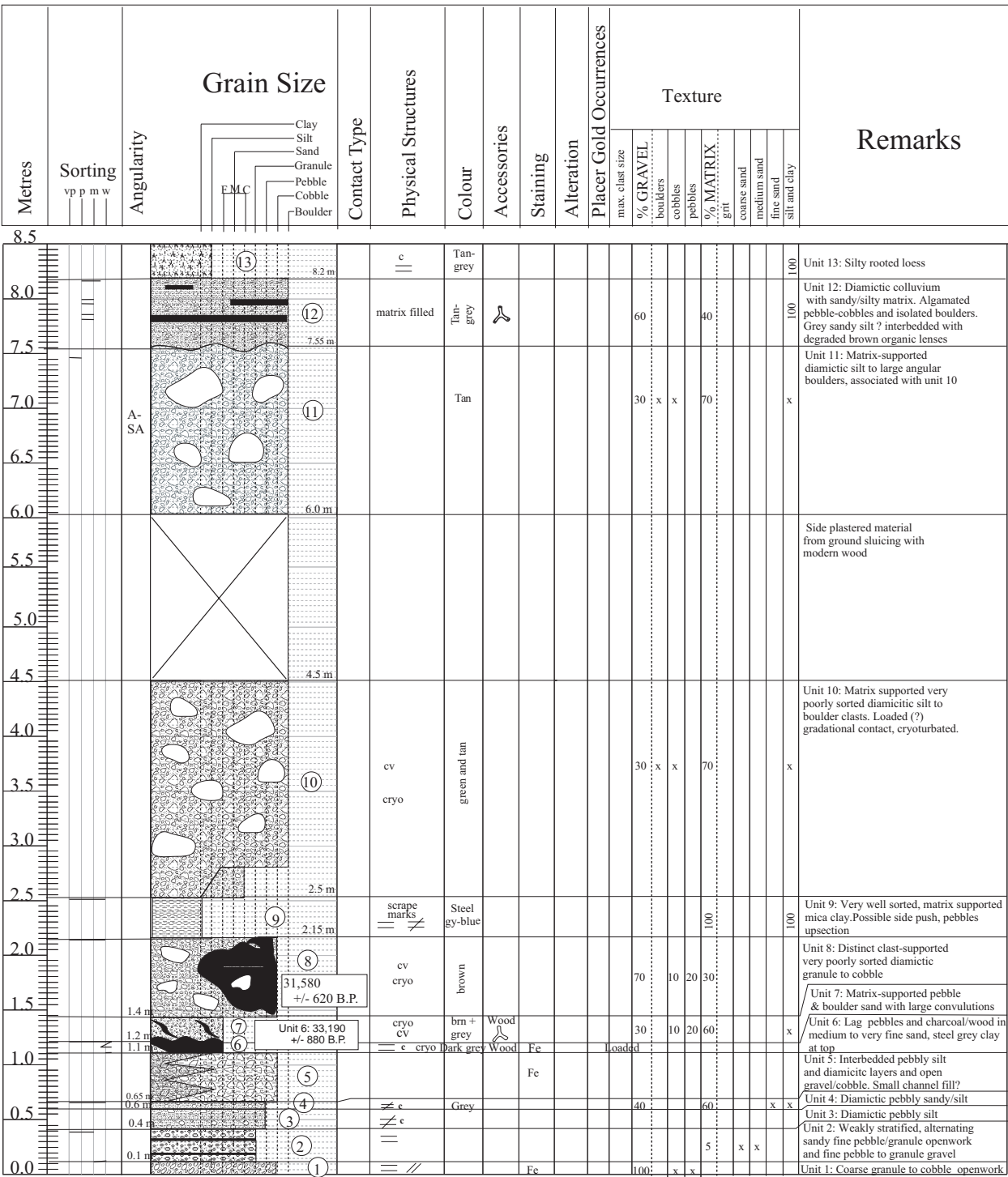
Date: 25/06/96 Section number: LW96-04 Measured by: LW, LM Creek or River: Upper Duncan Creek NTS: _____
 Latitude: 63°53.05 Longitude: 135°19.83 Elevation: 3030ft UTM: _____
 Orientation: 302 ← → 122 upstream Geomorphic landform: Valley

Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture										Remarks					
											max. clast size	% GRAVEL boulders	pebbles	% MATRIX grit	coarse sand	medium sand	fine sand	silt and clay								
4.0																										
3.5																										
3.35																										
3.15																									Unit 5: Unstable matrix-supported colluvium	
3.0																									Unit 4: Moderate to strongly imbricated cobbles, diffuse upper contact	
2.75																										
2.5																										Unit 3: Fining up sequence, boulders through to pebbles, moderate imbrication
2.0																										
1.5																										
1.0																										Unit 2: Cobbles with clay interbeds (3-13 cm) forming lenses, weathered and friable
0.8m																										Unit 1: Highly weathered and altered with diffuse contact, friable
0.5																										
0.0																										

Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 04/07/96	Section number: UD-96-02	Measured by: WPL/MR	Creek or River: Duncan Creek	NTS: 105M14
Latitude: 63° 52.64	Longitude: 135° 18.45	Elevation: 3240 ft	UTM: 0476570E, 7076621N	
Orientation: 310	← 130 upstream →	Geomorphic landform: Valley		



Legend

Mud (Silt/clay)	Gravel	Planar stratified	Massive	Imbricate	Ripples	Organics
Sand	Diamicton	Cross-stratified	Trough cross-stratified	Fossils	Planar Tabular Cross Beds	

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 21/06/97 Section number: Ud9702 Measured by: TA, WL, EK Creek or River: Upper Duncan Creek NTS: 105 M/14
 Latitude: 63°53'22" Longitude: 135°20'29" Elevation: 3000 ft. UTM:
 Orientation: 165 ← → 345 Geomorph landform: Alluvial terrace / valley fill

Metres	Sorting vp p m w	Angularity	Grain Size					Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences										Remarks	
			Clay	Silt	Sand	Granule	Pebble							Cobble	Boulder	max. clast size	% GRAVEL	boulders	pebbles	% MATRIX	grit	course sand	medium sand		fine sand
10	SA	A																							Unit 6: Cobblely silt with organics (3-4 cm thick organic lenses throughout), disorganized, continuous, clasts subangular to angular.
9	WR	A							Faintly //	greyish-brown															Unit 5: sandy matrix (matrix-supported) -clasts mostly cobbles (well-rounded), pebbles angular, -disorganized, with faint imbrication Diamict (Colluvium).
8								Gradational																	
7	SA	R							=	Buff		nasty (orange looks leached)													Unit 4: laminae of organic material 13 cm from the base (diffuse grey, organic-poor) 3-5 cm thick. -Well-sorted -pebbly layers (~5 cm) on top and bottom of organic layers -planar stratified -pebbly sandstone
6	SA	SR							//	greyish-brown															-Unit 3: tightly packed open work gravel; imbricated (~north) -boulders rounded, everything smaller is more angular -clast-supported
5	SA	R							c //	light-medium brownish-grey		Fe around open work patches													Unit 2: boulder lag -patches of open-work structure -lots of grit in matrix -slightly imbricated -Few boulders near the top -clasts angular, flattened, mostly cobbles (50%, subangular), 5-10% boulders (rounded) and rest pebbles -Clast-supported -Glacial-Fluvial Gravel
4	SA	SR								Rust-brown (mottled)		Fe around singular clasts													Unit 1: Bouldery-cobble gravel Pebbles are generally angular Cobbles = subangular Boulders = subrounded -clasts are more angular toward the top, rounder at the base (possible debris flow). -clast supported at top -average boulder size 80 cm Cobble-boulder diamict

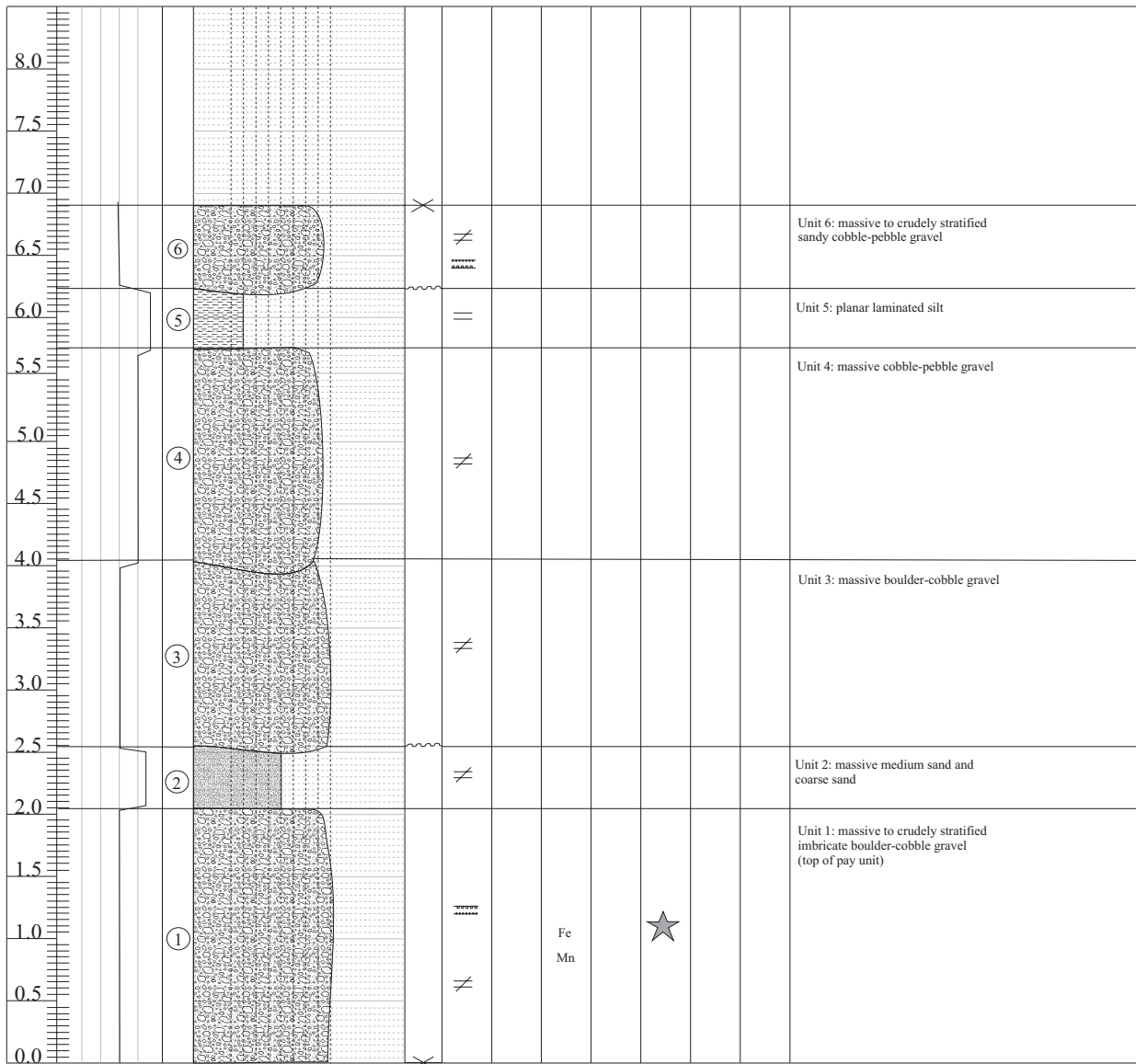
Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

This section occurs to the south of UD9701, along the cut face, approximately 23 metres apart.

Date: 05/08/96 Section Number: WL9603 Measured by: CW/WLCreek or River or River: Duncan Creek NTS: 105M14
 Latitude: 63°48'53"N Longitude: 135°28'52"W Elevation: 2460 Geomorphic Landform: Glaciofluvial Terrace/Alluvial Valley
 Orientation: 20 <-----> 200 downstream

Metres	Sorting vp p m w	Unit Number	Grain Size clay silt sand granule pebble cobble boulder f m c	Contact Type	Physical Structures	Accessories	Staining	Alteration	Placer Gold Occurrences	Facies	Depositional Environment	Remarks



Legend

Lithology		Physical Structures and Accessories			
Mud (Silt/clay)	Gravel	Planar stratified	Massive	Ripples	Organics
Sand	Diamicton	Cross-stratified	Trough cross-stratified	Fossils	

Date: 05/08/98 Section number: FT98-1-1 Measured by: WPL/MR Creek or River: Duncan Creek NTS: 105M14
 Latitude: 63°49'05"N Longitude: 135°28'30"W Elevation: 2480 UTM: 0476570E,7076621N
 Orientation: 200 ← → 20 Geomorphic landform: Glaciofluvial Terrace
 upstream

Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences max. clast size	Texture						Remarks	
											% GRAVEL boulders	cobbles	pebbles	% MATRIX silt	coarse sand	medium sand		fine sand
24.0																		
22.5																		Unit 5: crudely stratified pebble-cobble gravel
21.0					=	Orange				Fe								
19.5																		
18.0																		
16.5																		Unit 4: planar- laminated silty clay with dropstones
15.0					=	Grey-green												
13.5					>													
12.0					=													
10.5					=													
9.0					≠	Dark brown												Unit 3: Organic silt with macrofossils
7.5																		
6.0					≠	Dark brown green												Unit 2: rubbly angular boulder-cobble diamicton
4.5																		
3.0																		
1.5																		
0																		Unit 1: massive to crudely stratified boulder -cobble gravel (pay unit)
																		Bedrock - talc schist clay-altered, fractured

Legend

Mud (Silt/clay)	Gravel	Planar stratified	Massive	Imbricate	Ripples	Organics
Sand	Diamicton	Cross-stratified	Trough cross-stratified	Fossils	Planar Tabular Cross Beds	

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 05/08/98 Section number: FT98-1-2 Measured by: WPL/MR Creek or River: Duncan Creek NTS: 105M14
 Latitude: 63°49'05"N Longitude: 135°28'30"W Elevation: 2480 ft UTM: 0476570E, 7076621N
 Orientation: 200 ← → 20 upstream Geomorphic landform: Glaciofluvial Terrace

Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder EMC	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture							Remarks
											max. clist size	% GRAVEL boulders	pebbles	% MATRIX grit	coarse sand	medium sand	fine sand	
21																		Unit 7: Mixed organics and sandy colluvium
20				⑦														Unit 6: crudely stratified pebble-cobble gravel
18				⑥	=			Fe										
17																		
16																		
13				⑤	≠													Unit 5: massive to disorganized pebble-cobble diamicton
12					≠	grey-green												
11																		
7				④	=	grey-green		○										Unit 4: planar-laminated stoney silty clay
6		A-VA			=													
5				③	≠	dark brown		☞										Unit 3 - Organic silt with macrofossils and thin tephra strands near base
4																		
3				②	≠	dark brown-green												Unit 2: rubbly angular boulder-cobble diamicton
2		SA SR			≠													Unit 1: massive to crudely stratified boulder-cobble gravel (pay unit)
1				①	=c	orange-tan			Mn	☆								
0					≠													Bedrock - talc schist clay-altered, fractured

Legend

Modifiers: c = crude d = discontinuous

Date: 05/08/98 Section number: FT98-1-3 Measured by: WPL/MR Creek or River: Duncan Creek NTS: 105M14
 Latitude: 63°49'05"N Longitude: 135°28'30"W Elevation: 2480 UTM: 0476570E, 7076621N
 Orientation: 273 ← → 93 cross-valley Geomorphic landform: Glaciofluvial Terrace

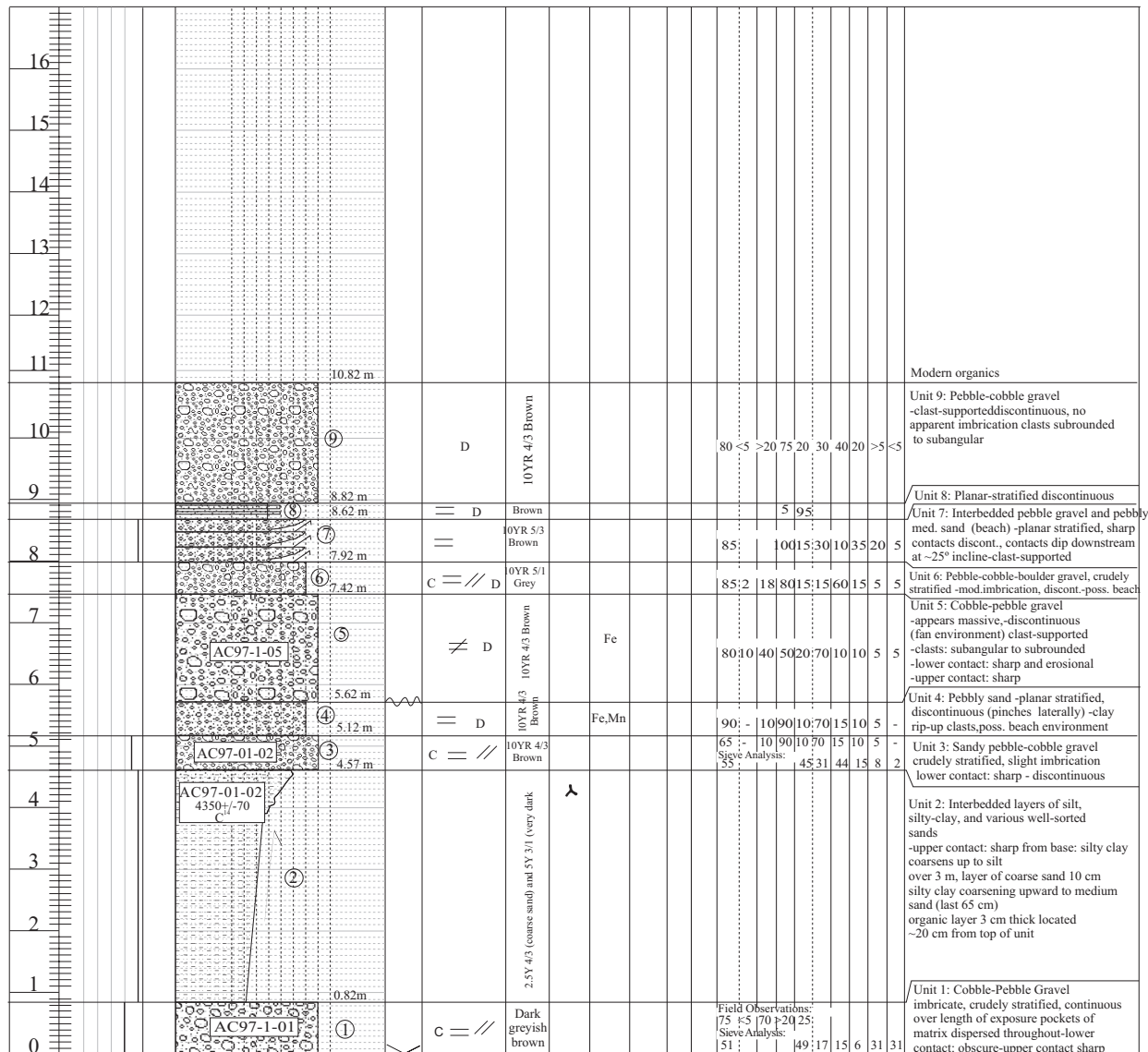
Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture							Remarks
											max. dist size	% GRAVEL boulders	pebbles	% MATRIX grit	coarse sand	medium sand	fine sand	
16				continued														
13-12		SA-SR			≠	grey-green		0										Unit 5: massive to disorganized pebble-cobble diamicton
10-9					≠													Unit 4: planar- laminated silty clay with dropstones
2-1		A-VA			≠	dark brown												Unit 3: Organic silt with macrofossils and tephra at base (sampled)
0					≠	Dark brown-green												Unit 2: rubby angular boulder-cobble diamicton Bedrock - talc schist clay-altered, fractured

Legend

Modifiers: c = crude d = discontinuous

Date: 02/07/1997 Section number: AC9701 Measured by: WL, DM Creek or River: Anderson Creek NTS: 105M/11
 Latitude: 63°43.78' Longitude: 135°01.54' Elevation: 2320 ft UTM: 498703, 7066649
 Orientation: 025° ← → 205° Geomorphic landform: Alluvial-fan Delta

Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture											Remarks
											max. clast size	% GRAVEL boulders	pebbles	% MATRIX grit	course sand	medium sand	fine sand	silt and clay				



Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 16/08/97 Section number: DVD9701 Measured by: TA, DP Creek or River: Davidson Creek NTS: 105M/11
 Latitude: 63°43'46.2" Longitude: 135°25'05.0" UTM: N7066742, E0479353 Elevation: ~2600 ft
 Orientation: 075 ← → 255 Geomorphic landform: _____

Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture								Remarks				
											max. clast size	% GRAVEL boulders	pebbles	% MATRIX grit	course sand	medium sand	fine sand	silt and clay					
8																							
7																							
6																							
5																							
4																							
3																							
2																							
1.60 m																							
2.00 m																							
1																							
0																							

Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 29/08/97 Section number: DVD9703 Measured by: TA/DP Creek or River: Davidson Creek NTS: 105M / 11
 Latitude: 63°43'51" N Longitude: 135°25'7.2" UTM: 479325E 7066891N Elevation: 2400 ft
 Orientation: 330° DS ← → 150° US Geomorph landform: Valley fill

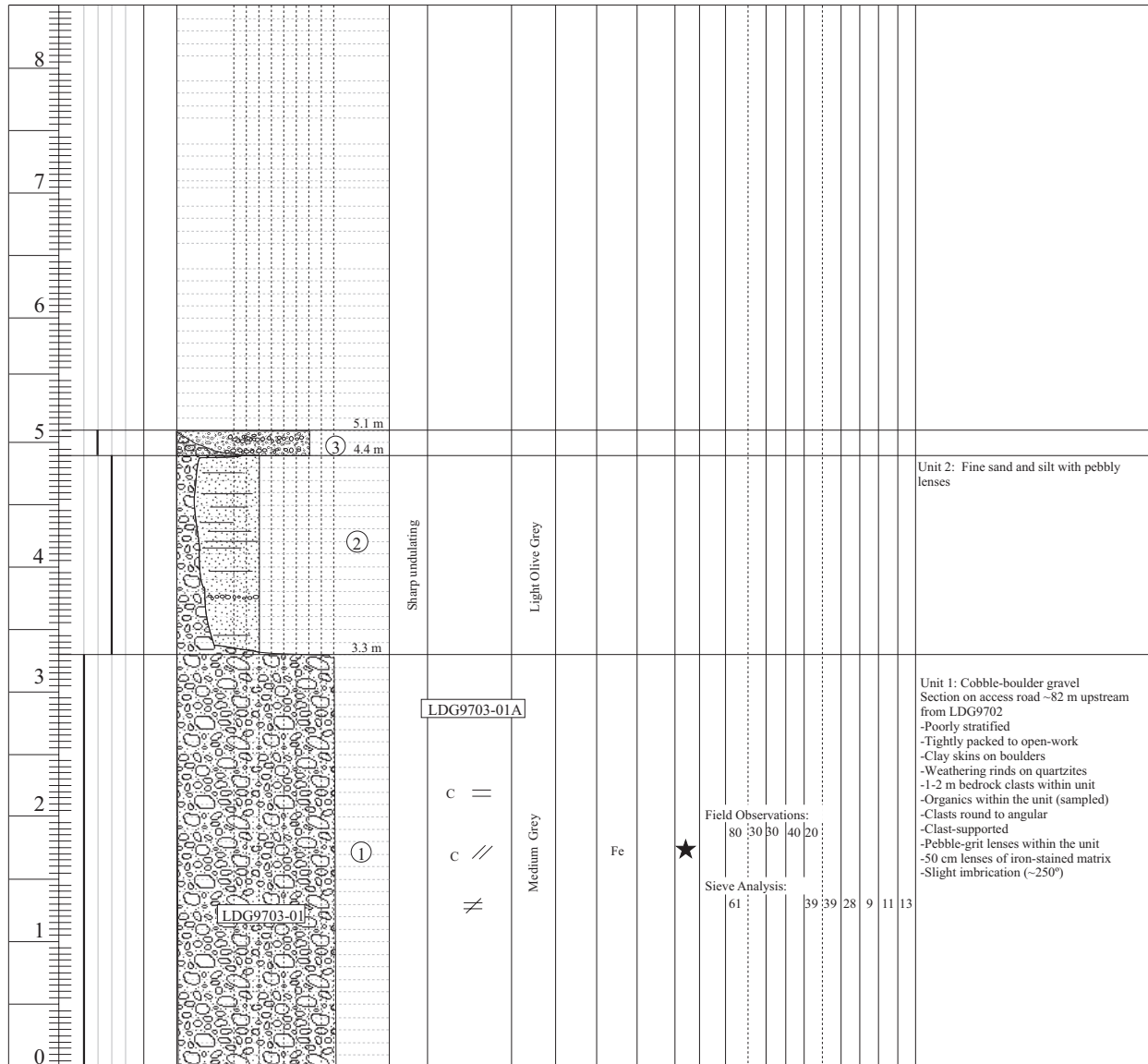
Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture										Remarks			
											max. clast size	% GRAVEL boulders	pebbles	% MATRIX grit	coarse sand	medium sand	fine sand	silt and clay						
8																								
7																								
6																								
5																								
4																								
3																								
2																								
1																								
0																								

Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 04/08/97 Section number: LDG9703 Measured by: TA Creek or River: Ledge Creek NTS: 105 M/10
 Latitude: 63°40'37.9" Longitude: 134°50'29.8" Elevation: 2500 ft UTM: E507837, N7060858
 Orientation: 215° ← → 035° Geomorphic landform: Alluvial Fan-Delta

Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture								Remarks
											max. clst size	% GRAVEL boulders	pebbles	% MATRIX grit	coarse sand	medium sand	fine sand	silt and clay	

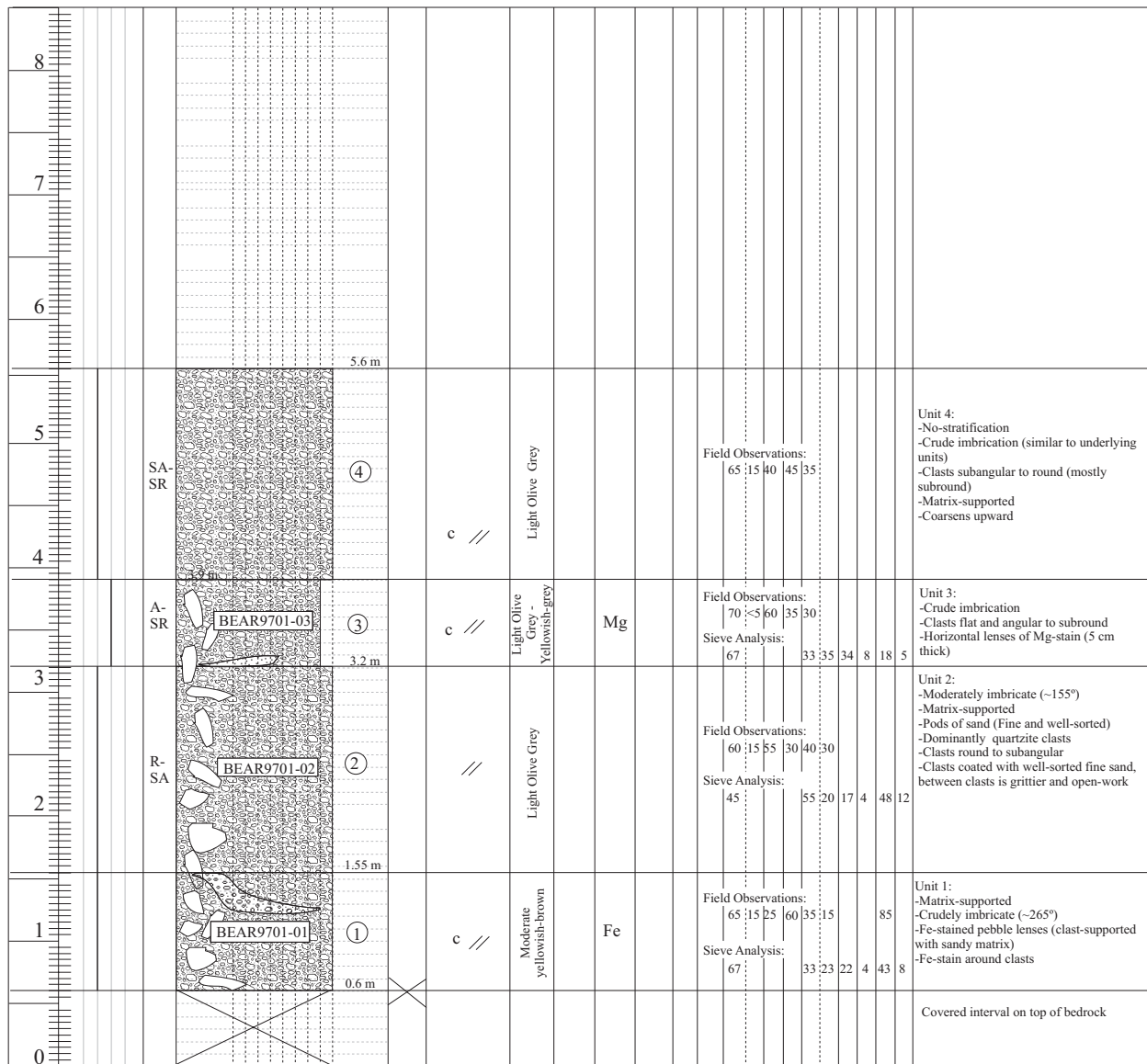


Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 07/08/97 Section number: BEAR9701 Measured by: TA, LM Creek or River: Bear Creek NTS: 115P/9
 Latitude: 63°41'20" Longitude: 136°20'49" Elevation: 2400 ft UTM: E433390, N7062830
 Orientation: 002° US ← → 182° DS Geomorphic landform: _____

Metres	Sorting vp p m w	Angularity	Grain Size						Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture							Remarks
			Clay	Silt	Sand	Granule	Pebble	Cobble								Boulder	max. clast size	% GRAVEL boulders	pebbles	% MATRIX grit	coarse sand	medium sand	



BEDROCK = Schist and Quartzite

Legend

TLA97

	Mud (Silt/clay)		Gravel		Planar stratified		Massive		Imbricate		Ripples		Organics
	Sand		Diamicton		Cross-stratified		Trough cross-stratified		Fossils		Planar Tabular Cross Beds		

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 07/08/97 Section number: BEAR9702 Measured by: TA, LM Creek or River: Bear Creek NTS: 115P/9
 Latitude: 63°40'54" Longitude: 136°21'07" Elevation: 2450 ft UTM: E433104, N7062098
 Orientation: 090° US ← → 270° DS Geomorphic landform: _____

Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture										Remarks		
											max. clast size	% GRAVEL boulders	pebbles	% MATRIX grit	course sand	medium sand	fine sand	silt and clay					
8																							
7																							
6																							
5																							
4.3 m																							
4																							
3.05 m																							
3																							
2																							
1																							
0																							

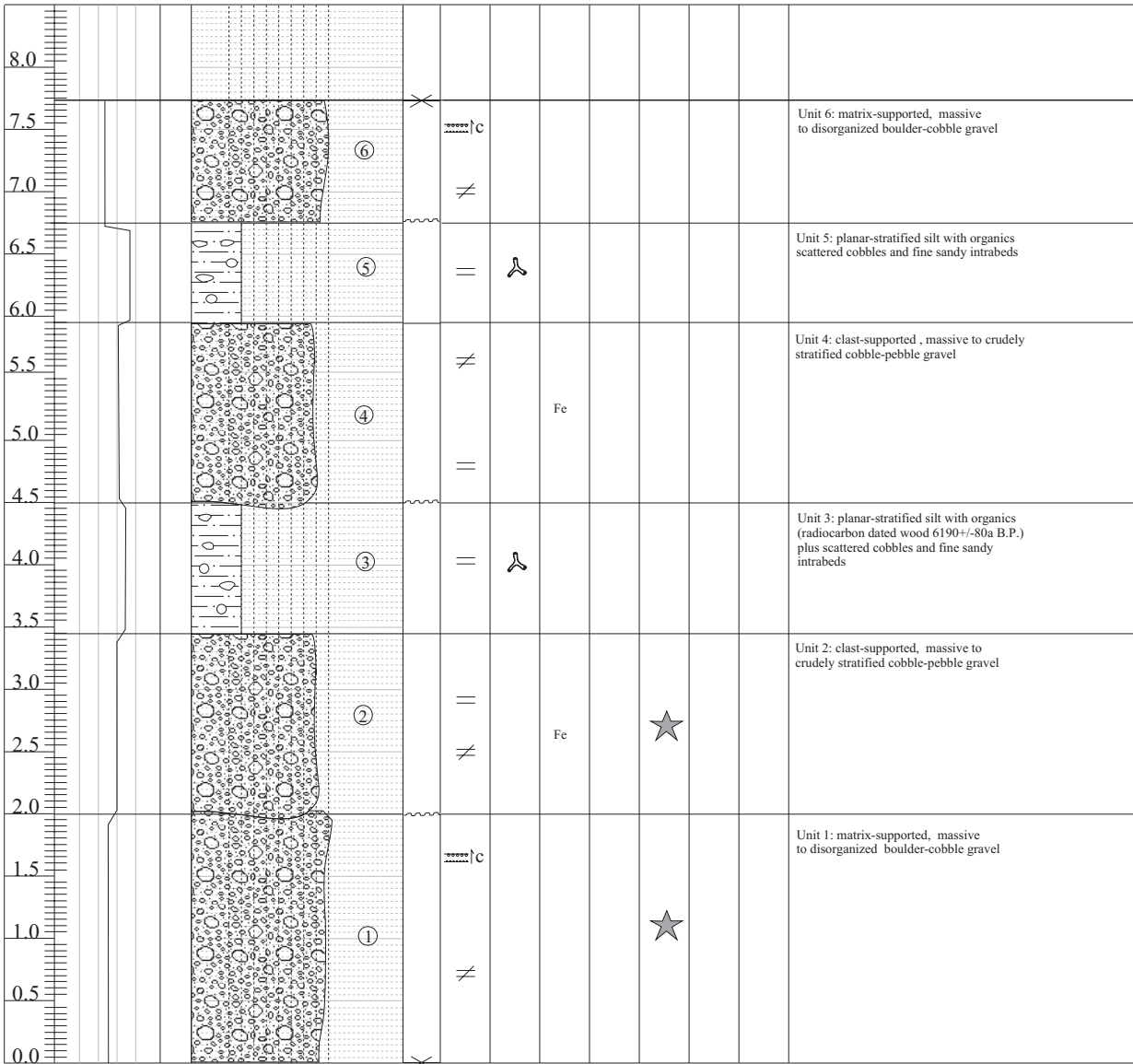
TLA97

Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 30/08/95 Section Number: FE1-95 Measured by: WPL Creek or River: Highet Creek NTS: 115P16
 Latitude: 63°45'55"N Longitude: 136 12'49"W Elevation: 3450 ft Geomorphic Landform: Valley-fill
 Orientation: 77 <-----> 257 upstream

Metres	Sorting vp p m w	Grain Size clay silt sand granule pebble cobble boulder	Contact Type	Physical Structures	Accessories	Staining	Alteration	Placer Gold Occurrences	Facies	Depositional Environment	Remarks



Legend

Lithology		Physical Structures and Accessories			
Mud (Silt/clay)	Gravel	Planar stratified	Massive	Ripples	Organics
Sand	Diamicton	Cross-stratified	Trough cross-stratified	Fossils	

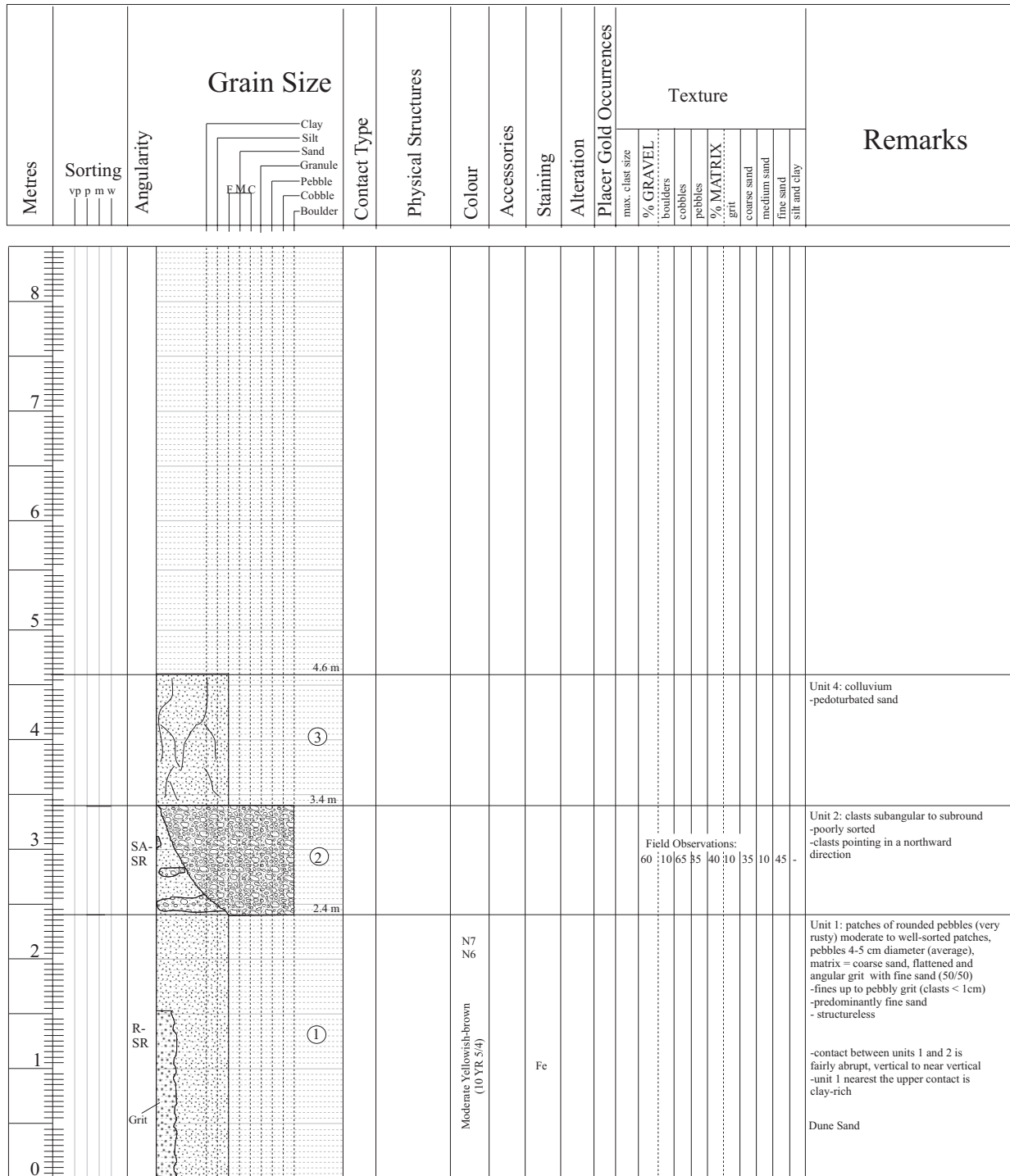
Date: 22/09/95 Section Number: MP1-95 Measured by: WPL Creek or River: Hight Creek NTS: 115P09
 Latitude: 63°44'16"N Longitude: 136°08'35"W UTM: 443570E, 7068299N Elevation: 2560 ft
 Orientation: 80 <-----> 260 Right angles to stream Geomorphic Landform: Valley fill

Metres	Sorting vp p m w	Unit Number	Grain Size clay silt sand granule pebble cobble boulder f m c	Contact Type	Physical Structures	Accessories	Staining	Alteration	Placer Gold Occurrences	Facies	Depositional Environment	Remarks
16		17	[Pattern]	≠								Unit 17: Planar-stratified pebble cobble gravel
15		16	[Pattern]	≠								Unit 16: Massive fine to medium sand
14		15	[Pattern]	=								Unit 15: Planar-stratified pebble cobble gravel
13		14	[Pattern]	=								Unit 14: Planar laminated continuous fine to medium sand
12		13	[Pattern]	=								Unit 13: Crudely-stratified clast-supported cobble gravel with sandy cobble gravel lenses
11		12	[Pattern]	△								Unit 12: Trough cross-stratified pebbly fine to medium sand
10		11	[Pattern]	=		☞						Unit 11: Planar laminated organic silt and fine sand
9		10	[Pattern]	≠								Unit 10: Planar laminated medium to fine sand
8		9	[Pattern]	=		☞						Unit 9: Planar laminated organic silt and fine sand
7		8	[Pattern]	≠								Unit 8: Planar laminated medium to fine sand
6		7	[Pattern]	△			Fe					Unit 7: Trough and planar cross-bedded pebble-cobble gravel and medium sand
5		6	[Pattern]	=		☞						Unit 6: Planar laminated organic silt and fine sand (wood radiocarbon dated at 7800+/- 90a)
4		5	[Pattern]	△			Fe Mn					Unit 5: Trough and planar cross-bedded pebble-cobble gravel and medium sand
3		4	[Pattern]	=		☞						Unit 4: Planar laminated organic silt and fine sand (wood radiocarbon dated at 9680 +/- 80a B.P.)
2		3	[Pattern]	=			Fe Mn					Unit 3: Crudely-stratified cobble-boulder gravel
1		2	[Pattern]	=			Fe Mn		★			Unit 2: Crudely stratified cobble-boulder gravel (some gold values)
0		1	[Pattern]	≠					★			Unit 1: Massive clay-rich boulder cobble diamicton (D ⁸⁰ average 70cm) on schist bedrock

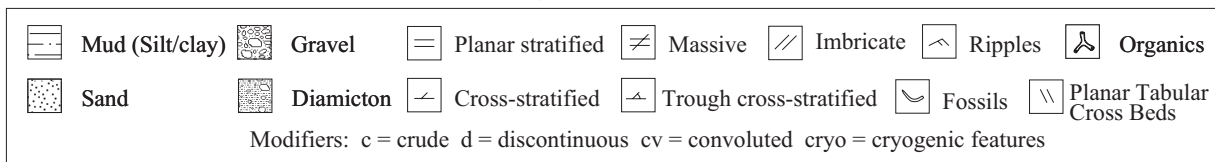
Legend

Lithology		Physical Structures and Accessories									
[Pattern]	Mud (Silt/clay)	[Pattern]	Gravel	[Symbol]	Planar stratified	[Symbol]	Massive	[Symbol]	Ripples	[Symbol]	Organics
[Pattern]	Sand	[Pattern]	Diamicton	[Symbol]	Cross-stratified	[Symbol]	Trough cross-stratified	[Symbol]	Fossils		

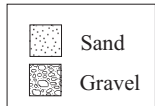
Date: 09/06/97 Section number: HCR9701 Measured by: TA, DM Creek or River: Road to Highet Creek NTS: 105M/12
 Latitude: 63°43'19.8" Longitude: 135°59'28.2" Elevation: 2070 ft UTM: 451039E, 7066242N
 Orientation: 085° ← → 265° Geomorphic landform: _____



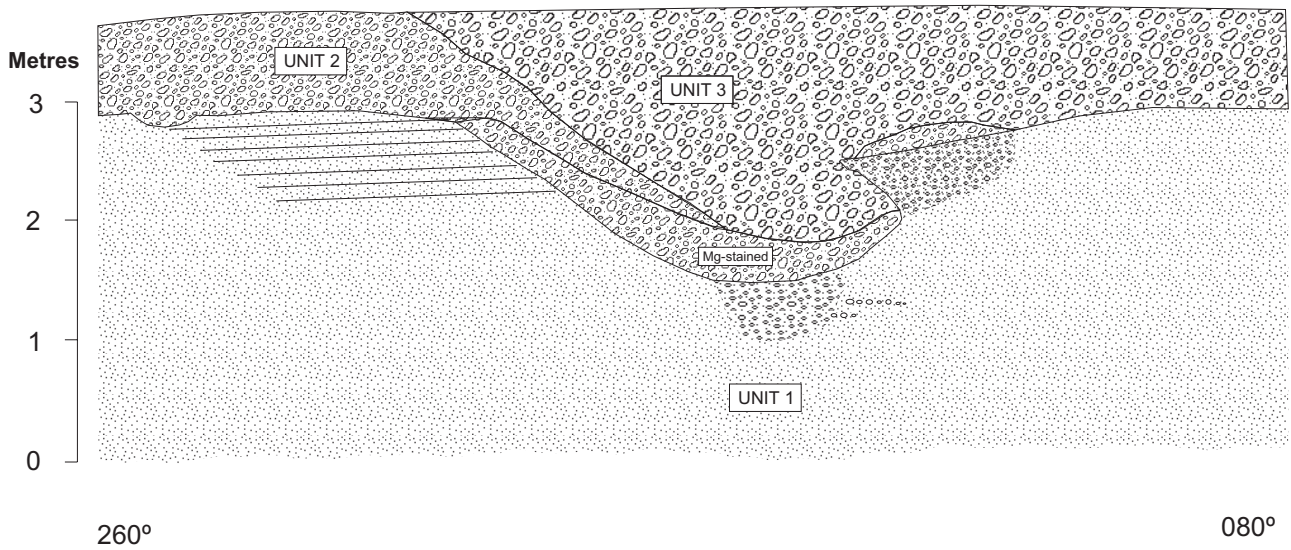
Legend



Date: <u>09/07/97</u>	Section number: <u>HCR9703-03</u>	Measured by: <u>TA, DM</u>	Creek or River: <u>Hight Creek Road</u>	NTS: <u>115P/9</u>
Latitude: <u>63°43'26.7"</u>	Longitude: <u>136°03'2.3"</u>	Elevation: <u>2180 ft</u>	Utm: <u>448105E, 7066502N</u>	
Orientation: <u>260°</u>	← → <u>080°</u>	Geomorphic landform: _____		



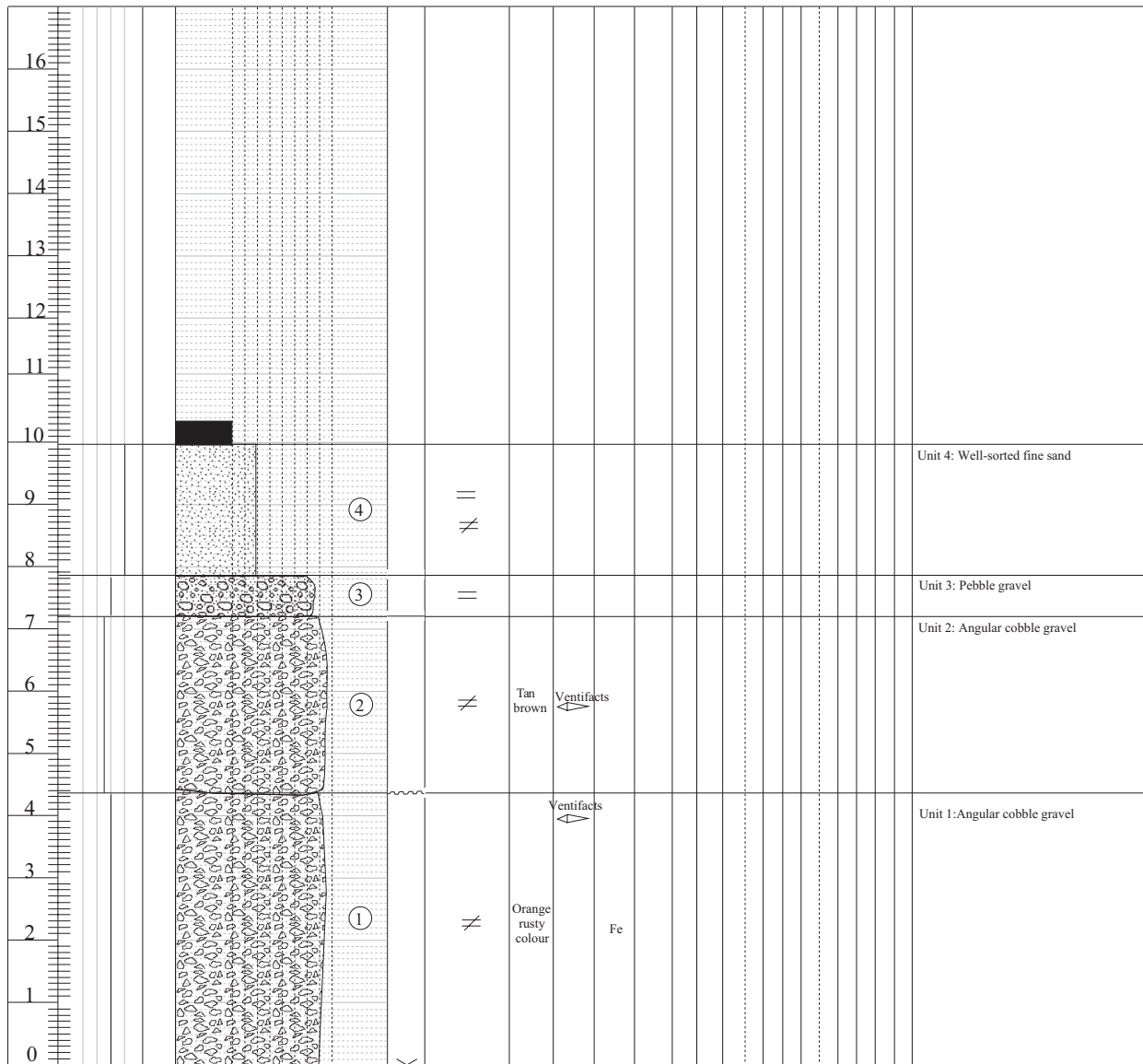
HCR9703-03



HCR9703, Hight Creek Road

Date: 30/08/95 Section number: HT1-95 Measured by: WPL Creek or River: Highet Creek NTS: 115P16
 Latitude: 63°45'51"N Longitude: 136°10'43"W Elevation: 2980 UTM:
 Orientation: 300 ← → 120 Downstream Geomorphic landform: Alluvial fan

Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture						Remarks
											max. clast size	% GRAVEL boulders	pebbles	% MATRIX grt	coarse sand	medium sand	

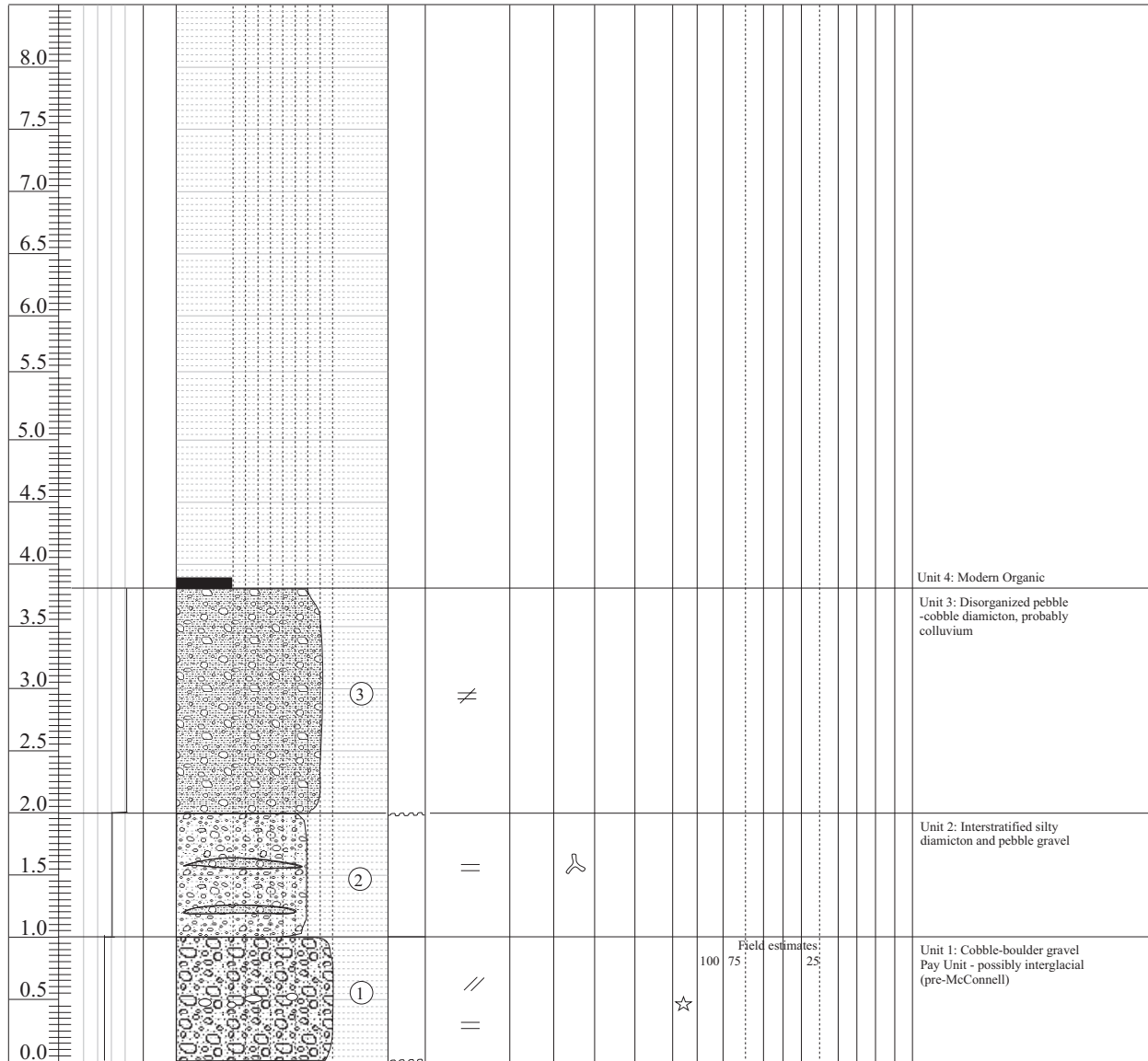


Legend

Modifiers: c = crude d = discontinuous

Date: 29/08/95 Section number: KK1-95 Measured by: WPL Creek or River: Highet Creek NTS: 115P16
 Latitude: 63°45'55"N Longitude: 136°11'31"W Elevation: 3125 ft UTM: 0435987E,7128833N
 Orientation: 290 ← → 110 Downstream Geomorphic landform: Alluvial Terrace

Metres	Sorting vp p m w	Angularity	Grain Size							Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture							Remarks
			Clay	Silt	Sand	Granule	Pebble	Cobble	Boulder								max. clast size	% GRAVEL	boulders	pebbles	% MATRIX	grit	coarse sand	



Legend

	Mud (Silt/clay)		Gravel		Planar stratified		Massive		Imbricate		Ripples		Organics
	Sand		Diamicton		Cross-stratified		Trough cross-stratified		Fossils				

Modifiers: c = crude d = discontinuous

Date: 23/07/96 Section Number: WL9602 Measured by: LM/WLCreek or River: Hight Creek NTS: 115P09
 Latitude: 63°44'24"N Longitude: 136° 08'30"W Elevation: 2565 Geomorphic Landform: Valley fill
 Orientation: 344 <-----> 164 downstream

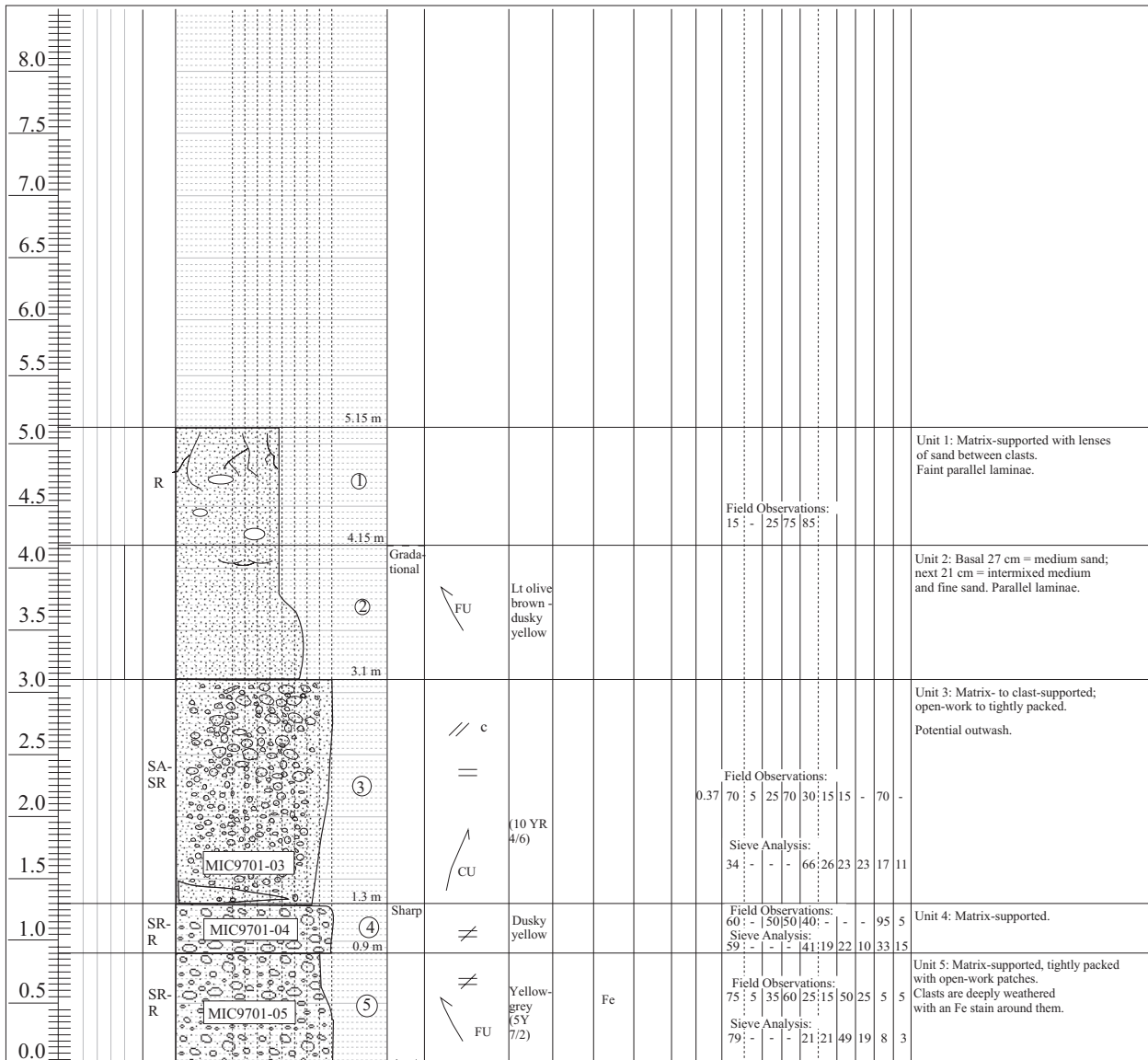
Metres	Sorting vp p m w	Unit Number	Grain Size clay silt sand granule pebble cobble boulder f m c	Contact Type	Physical Structures	Accessories	Staining	Alteration	Placer Gold Occurrences	Facies	Depositional Environment	Remarks
17												
16		7		=			Fe					Organics - present surface Unit 7: Rusty crudely stratified cobble boulder gravel
15												
14		6		=								Unit 6: Crudely stratified cobble boulder gravel
13												
12												
11		5		△	△		Fe					Unit 5: Trough and planar cross-bedded pebble-cobble gravel and medium sand
10				△	△		Fe					Interbedded with:
9		4		△	△		Fe					Unit 4: Planar laminated organic silt and fine sand
8				△	△		Fe					
7				△	△		Fe					
6		3		=			Fe Mn		★			Unit 3: Crudely stratified boulder-cobble gravel (increase in gold values)
5												
4		2		=			Fe Mn		★			Unit 2: Crudely stratified sandy cobble-boulder gravel (some gold values)
3												
2												
1		1		≠					★			Unit 1: Massive clay-rich boulder cobble diamicton (high gold values)
0				×								

Legend

Lithology		Physical Structures and Accessories			
Mud (Silt/clay)	Gravel	Planar stratified	Massive	Ripples	Organics
Sand	Diamicton	Cross-stratified	Trough cross-stratified	Fossils	

Date: 10/07/97 Section number: MIC9701 Measured by: TA, DM Creek or River: McIntyre Creek NTS: 115P/9
 Latitude: _____ Longitude: _____ UTM: N7065999, E0444269 Elevation: 2500 ft (762 m)
 Orientation: 100° ← → 280° Geomorphic landform: _____

Metres	Sorting vp p m w	Angularity	Grain Size							Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences							Remarks
			Clay	Silt	Sand	Granule	Pebble	Cobble	Boulder							max. clast size	% GRAVEL boulders	pebbles	% MATRIX grit	coarse sand	medium sand	fine sand	



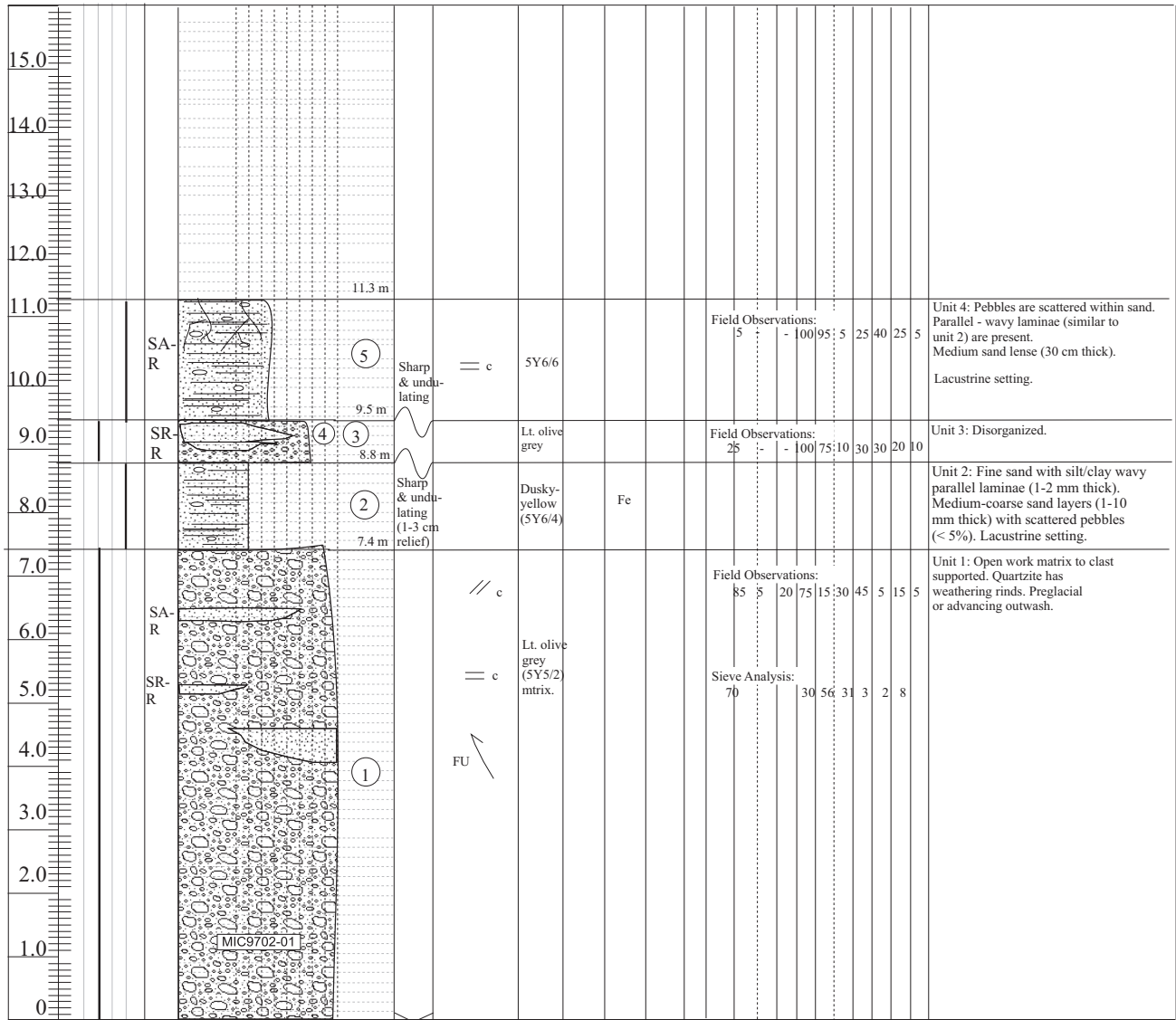
Legend

	Mud (Silt/clay)		Gravel		Planar stratified		Massive		Imbricate		Ripples		Organics
	Sand		Diamicton		Cross-stratified		Trough cross-stratified		Fossils		Planar Tabular Cross Beds		

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 10/07/97 Section number: MIC9702 Measured by: TA, DM Creek or River: McIntyre Creek NTS: 115 P/9
 Latitude: Longitude: Elevation: 2450 ft UTM: N7066056, E0444634
 Orientation: 90° ← → 270° Geomorphic landform: Glacial-fluvial terrace

Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture										Remarks
											max. clast size	% GRAVEL boulders	pebbles	% MATRIX grit	coarse sand	medium sand	fine sand	silt and clay			

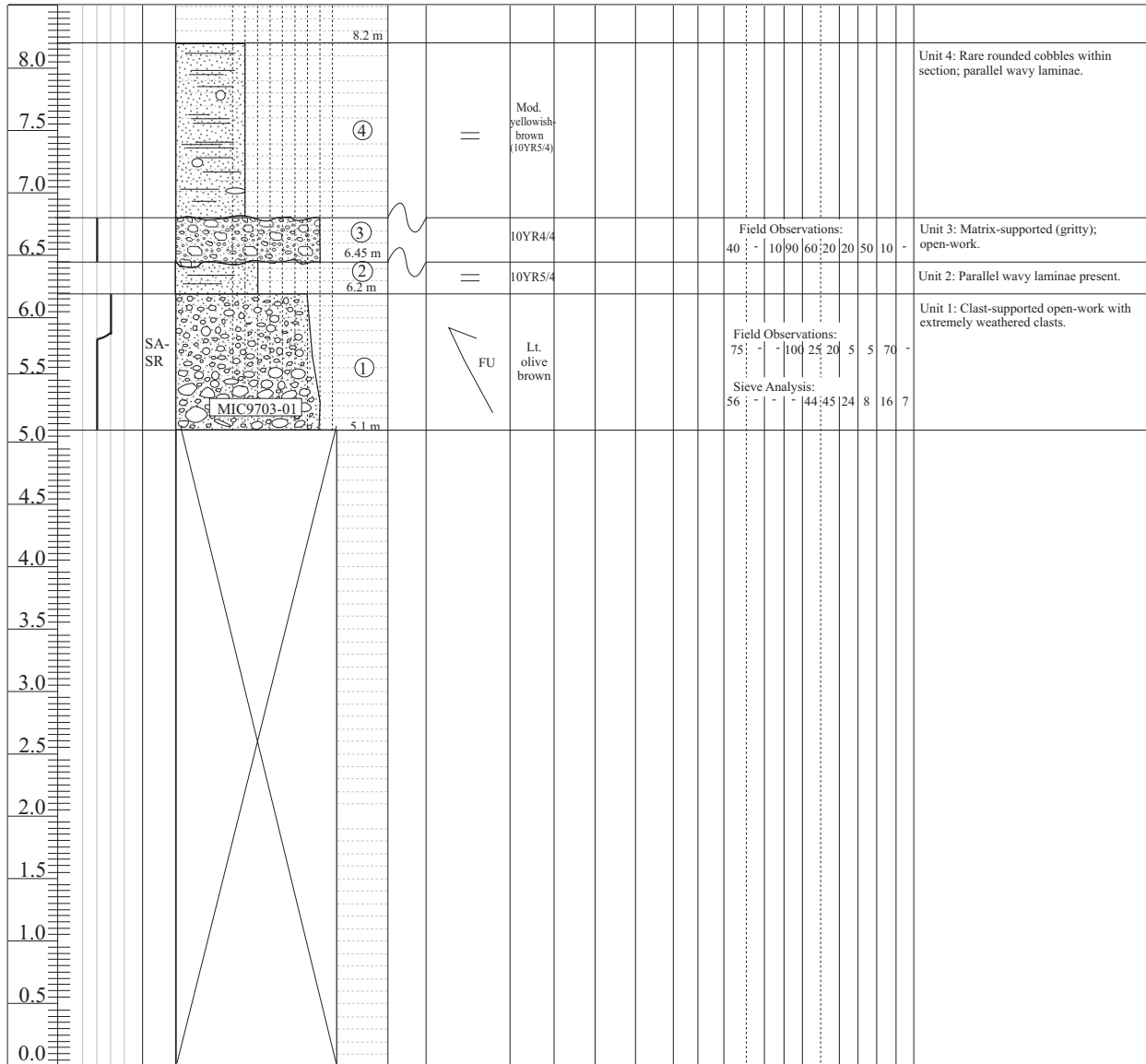


Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 11/07/97 Section number: MIC9703 Measured by: TA, DM Creek or River: McIntyre Creek NTS: 115 P/9
 Latitude: _____ Longitude: _____ Elevation: 790? m UTM: N7066082, E0444522
 Orientation: 305 ← → 125 Geomorphic landform: Glacial-fluvial terrace

Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture										Remarks
											max. clast size	% GRAVEL boulders	pebbles	% MATRIX grit	coarse sand	medium sand	fine sand	silt and clay			

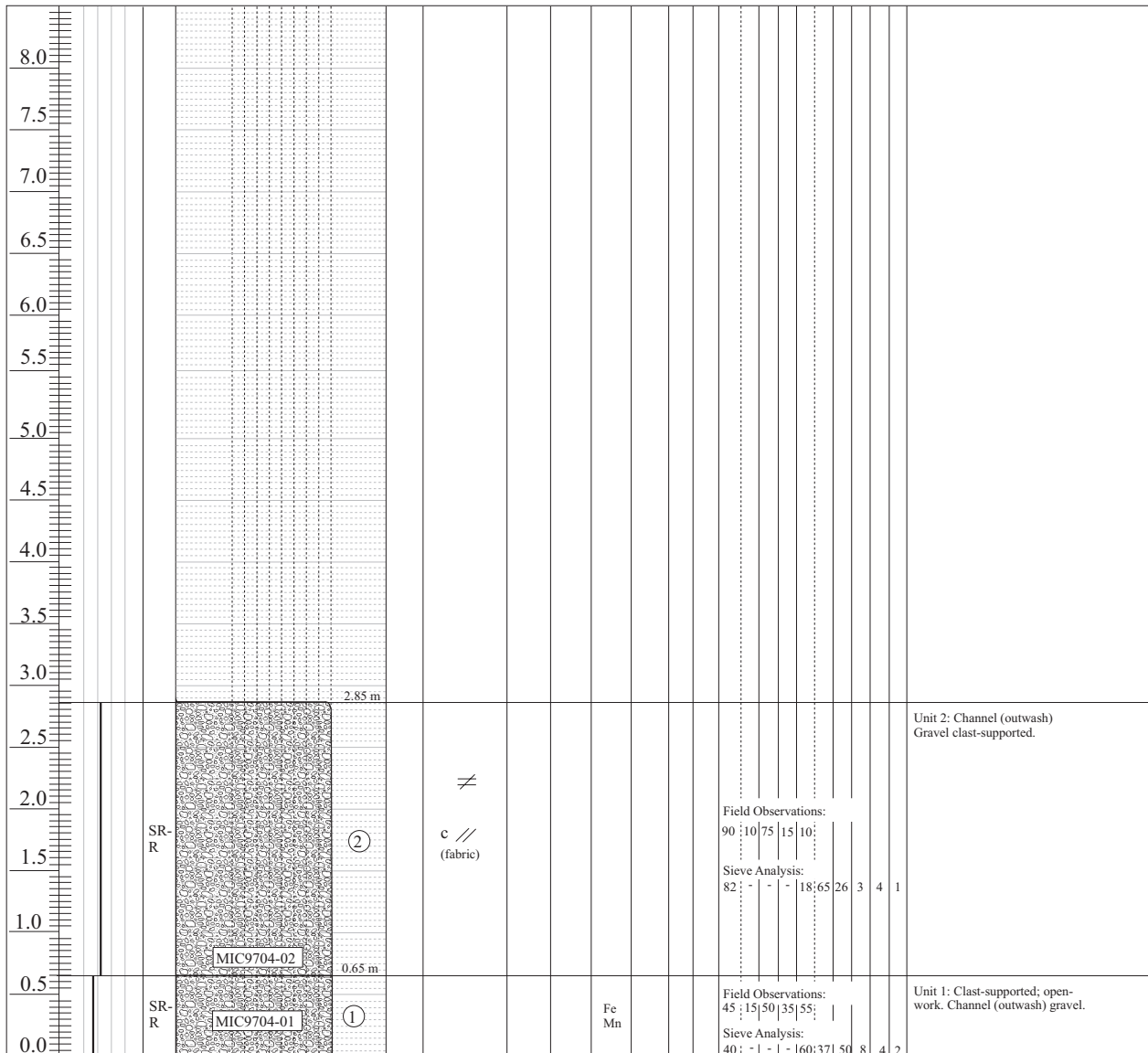


Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features												

Date: 11/07/97 Section number: MIC9704 Measured by: TA, DM Creek or River: Minto Creek NTS: 115 P/9
 Latitude: 63°42'55.7 Longitude: 136°06'55.5 UTM: E0444889, N7065593 Elevation: 3000 ft
 Orientation: ← → Geomorphoc landform: McConnell outwash

Metres	Sorting vp p m w	Angularity	Grain Size					Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture							Remarks
			Clay	Silt	Sand	Granule	Pebble								Cobble	Boulder	max. clast size	% GRAVEL boulders	pebbles	% MATRIX grit	coarse sand	



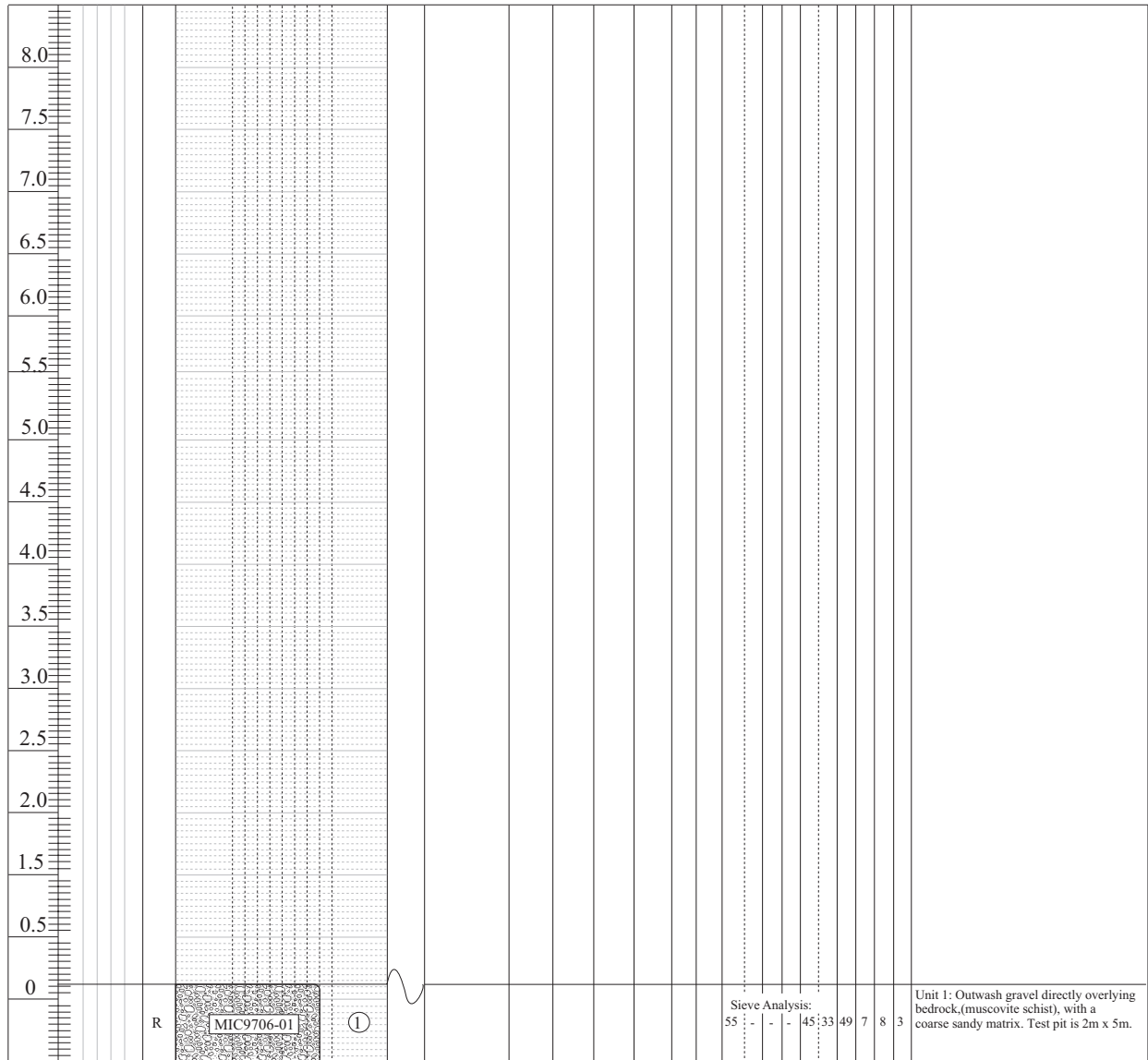
Legend

Mud (Silt/clay)	Gravel	Planar stratified	Massive	Imbricate	Ripples	Organics
Sand	Diamicton	Cross-stratified	Trough cross-stratified	Fossils	Planar Tabular Cross Beds	

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 11/06/97 Section number: MIC9706 Measured by: TA, DM Creek or River: Minto Creek NTS: 115P/9
 Latitude: 63°42'55.7" Longitude: 136°06'55.5" Elevation: 2300 ft UTM: 444889E, 7065593N
 Orientation: ← → Geomorphic landform: McConnell Outwash Terrace

Metres	Sorting vp m w	Angularity	Grain Size EMC Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture							Remarks
											max. clast size	% GRAVEL boulders cobbles	% MATRIX grt	coarse sand	medium sand	fine sand	silt and clay	



Undulating BEDROCK=quartz mica schist

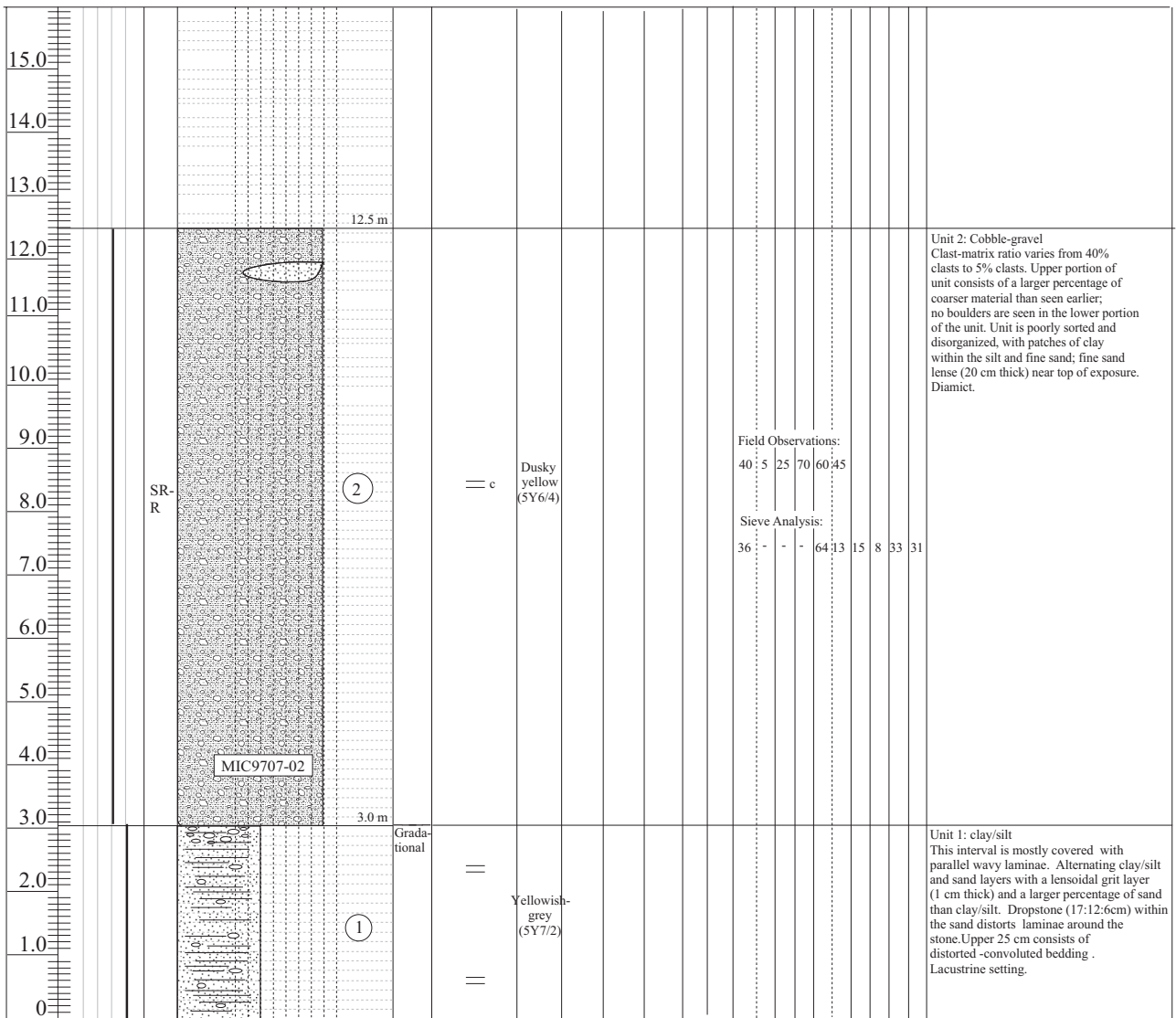
Legend

	Mud (Silt/clay)		Gravel		Planar stratified		Massive		Imbricate		Ripples		Organics
	Sand		Diamicton		Cross-stratified		Trough cross-stratified		Fossils		Planar Tabular Cross Beds		

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 14/07/97 Section number: MIC9707 Measured by: TA, MS Creek or River: McIntyre Creek NTS: 115 P/9
 Latitude: 63°43'14.0" Longitude: 136°07'14.7 Elevation: 746 m UTM: N7066082, E0444558
 Orientation: 305 ← → 125 Geomorphic landform: Glacial-fluvial terrace

Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture										Remarks
											max. clast size	% GRAVEL	boulders	pebbles	% MATRIX	grit	course sand	medium sand	fine sand	silt and clay	

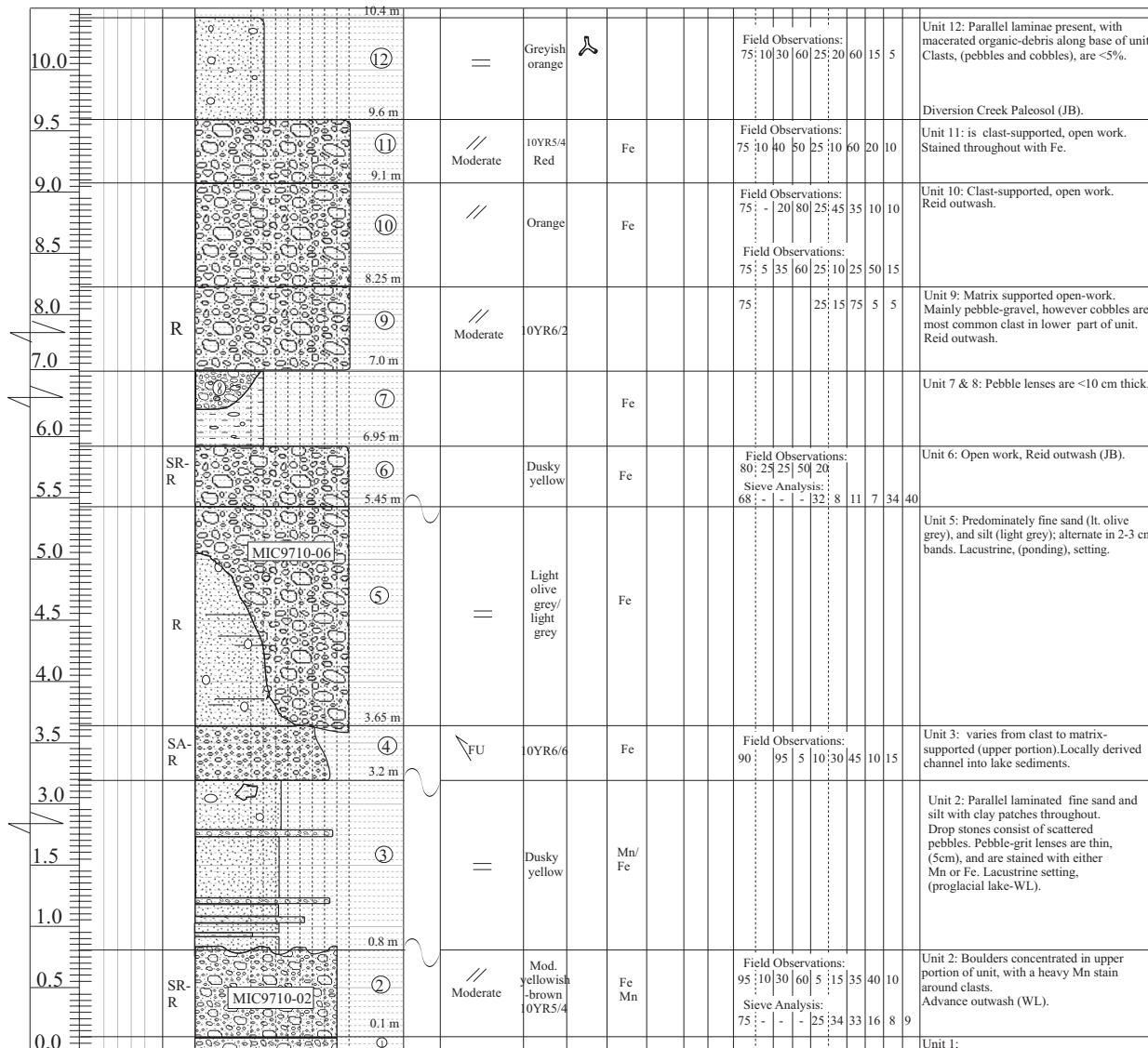


Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 16/07/97 Section number: MIC9710 Measured by: TA, MS Creek or River: Minto Creek NTS: 115P/9
 Latitude: 63°42'02" Longitude: 136°07'86" Elevation: 2003 ft (610 m) UTM: N7063913, E0444077
 Orientation: 190° ← → 010° Geomorphic landform: _____

Metres	Sorting vp p m w	Angularity	Grain Size EMC Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture											Remarks
											max. clast size	% GRAVEL boulders cobbles	% MATRIX grit	coarse sand	medium sand	fine sand	silt and clay					

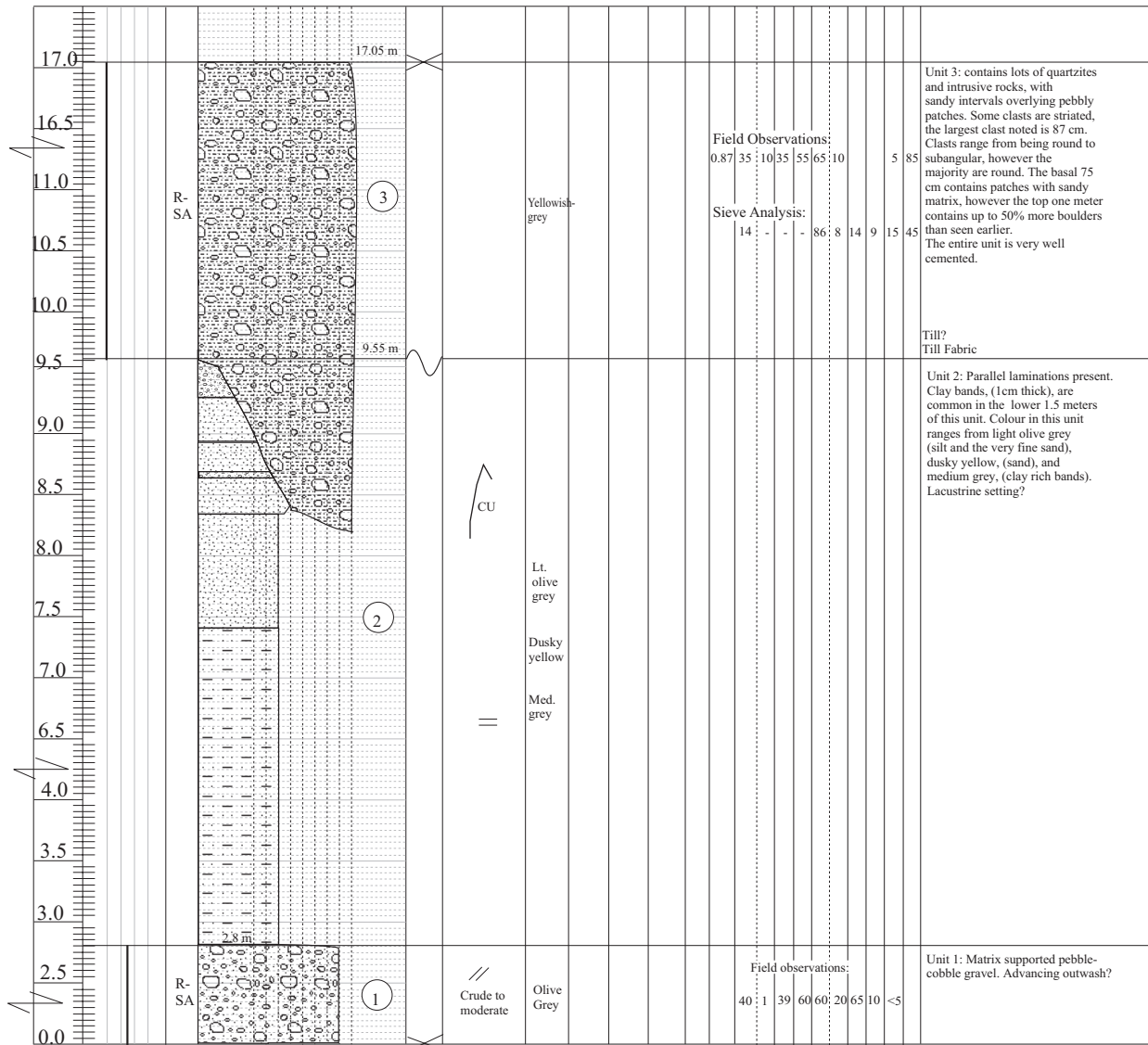


Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 31/0797 Section number: MIC9711 Measured by: TA, LM Creek or River: Minto Creek NTS: 115 P/9
 Latitude: 63°42'208" Longitude: 136°08'108" Elevation: _____ UTM: E0443899, N7064232
 Orientation: 080 ← → 260 Geomorphc landform: _____

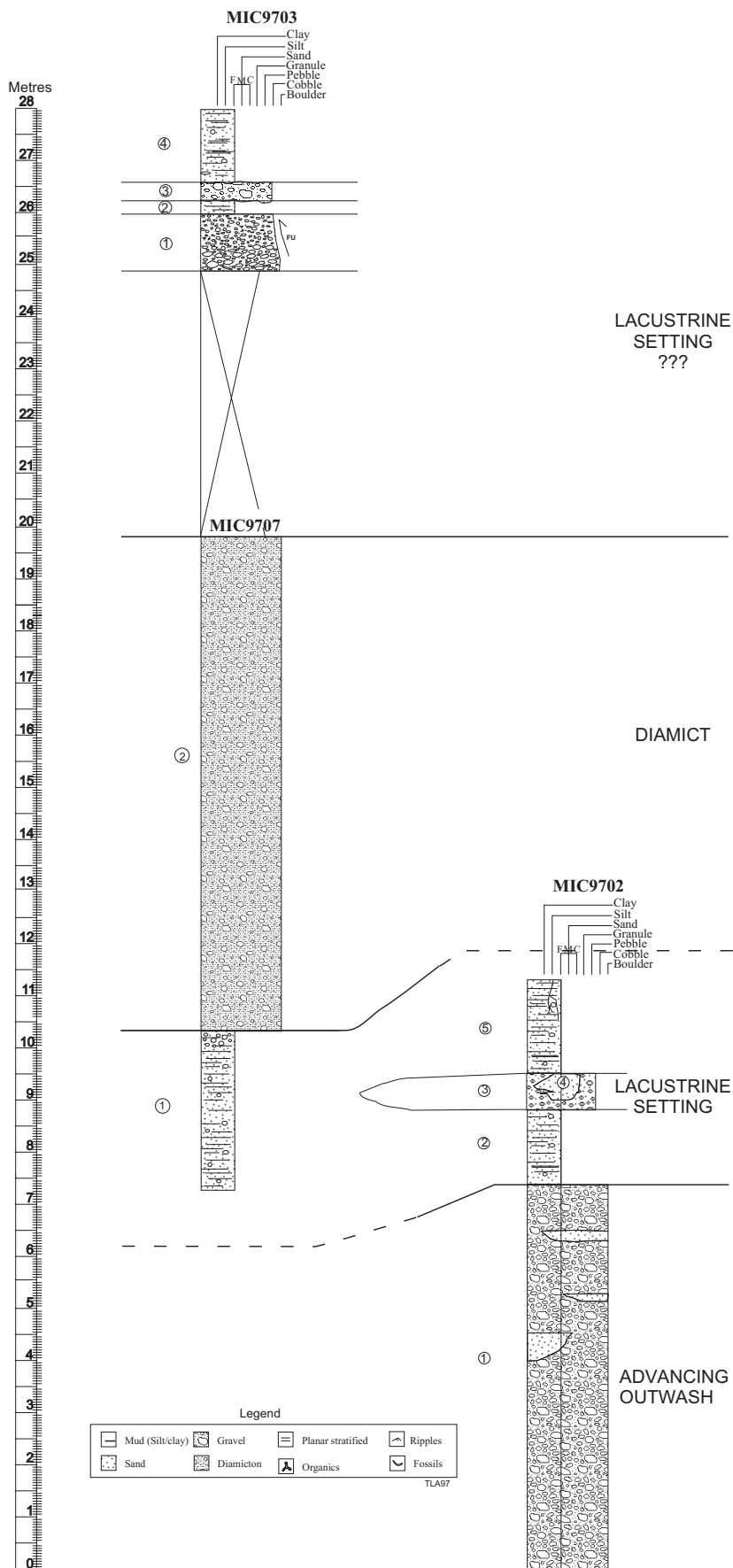
Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture										Remarks
											max. clast size	% GRAVEL boulders	pebbles	% MATRIX grit	coarse sand	medium sand	fine sand	silt and clay			



Legend

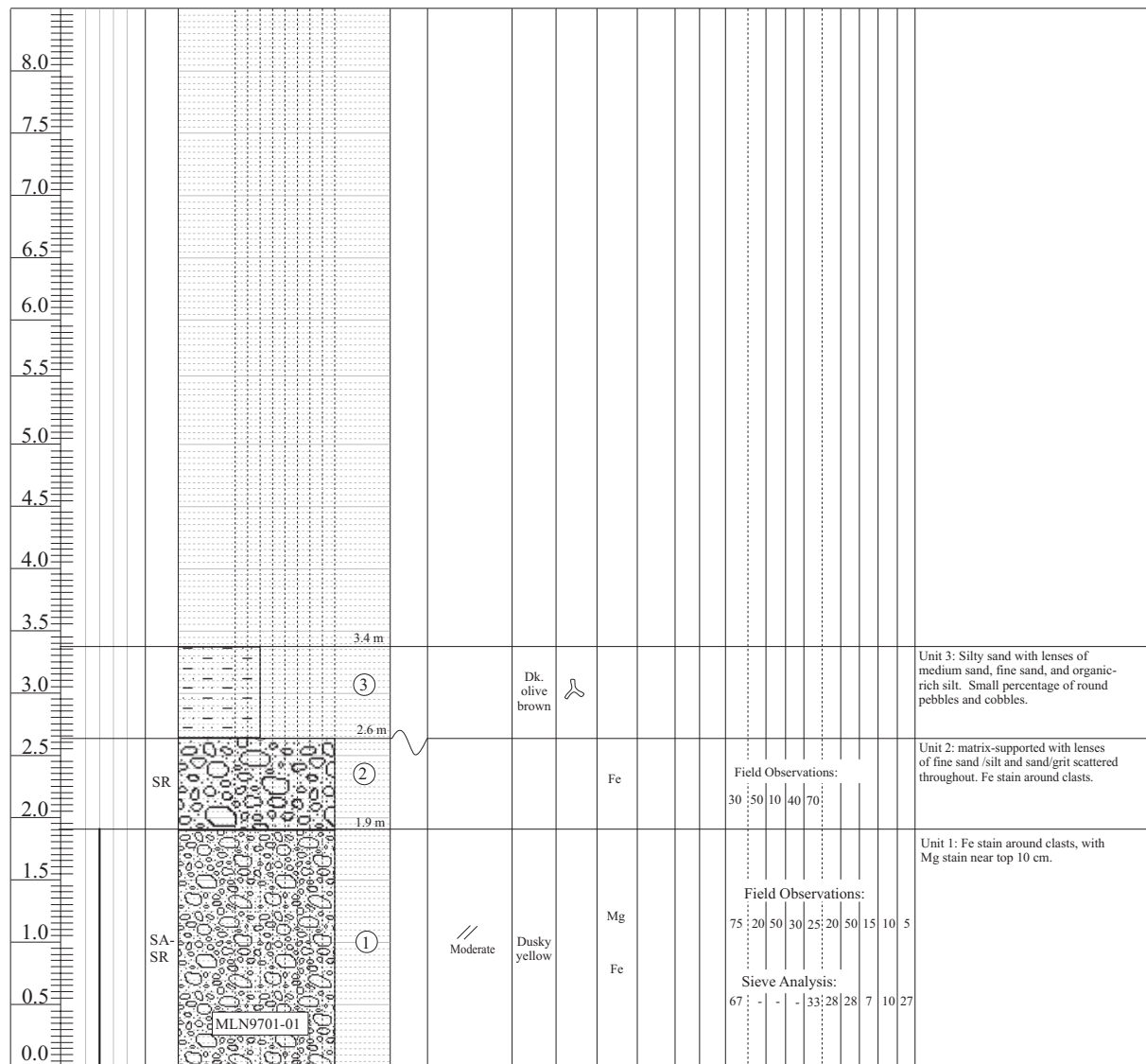
Mud (Silt/clay)	Gravel	Planar stratified	Massive	Imbricate	Ripples	Organics
Sand	Diamicton	Cross-stratified	Trough cross-stratified	Fossils	Planar Tabular Cross Beds	

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features



Date: 01/08/97 Section number: MLN9701 Measured by: TA, DM Creek or River: McLagan Creek NTS: 115 P/9
 Latitude: 63°42'31.8" Longitude: 136°13'23.6" Elevation: 2800 ft UTM: N7064954, E0439548
 Orientation: ← → Geomorphic landform: _____

Metres	Sorting v p m w	Angularity	Grain Size EMC Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture								Remarks
											max. clast size	% GRAVEL boulders	cobbles	pebbles	% MATRIX grit	coarse sand	medium sand	fine sand	

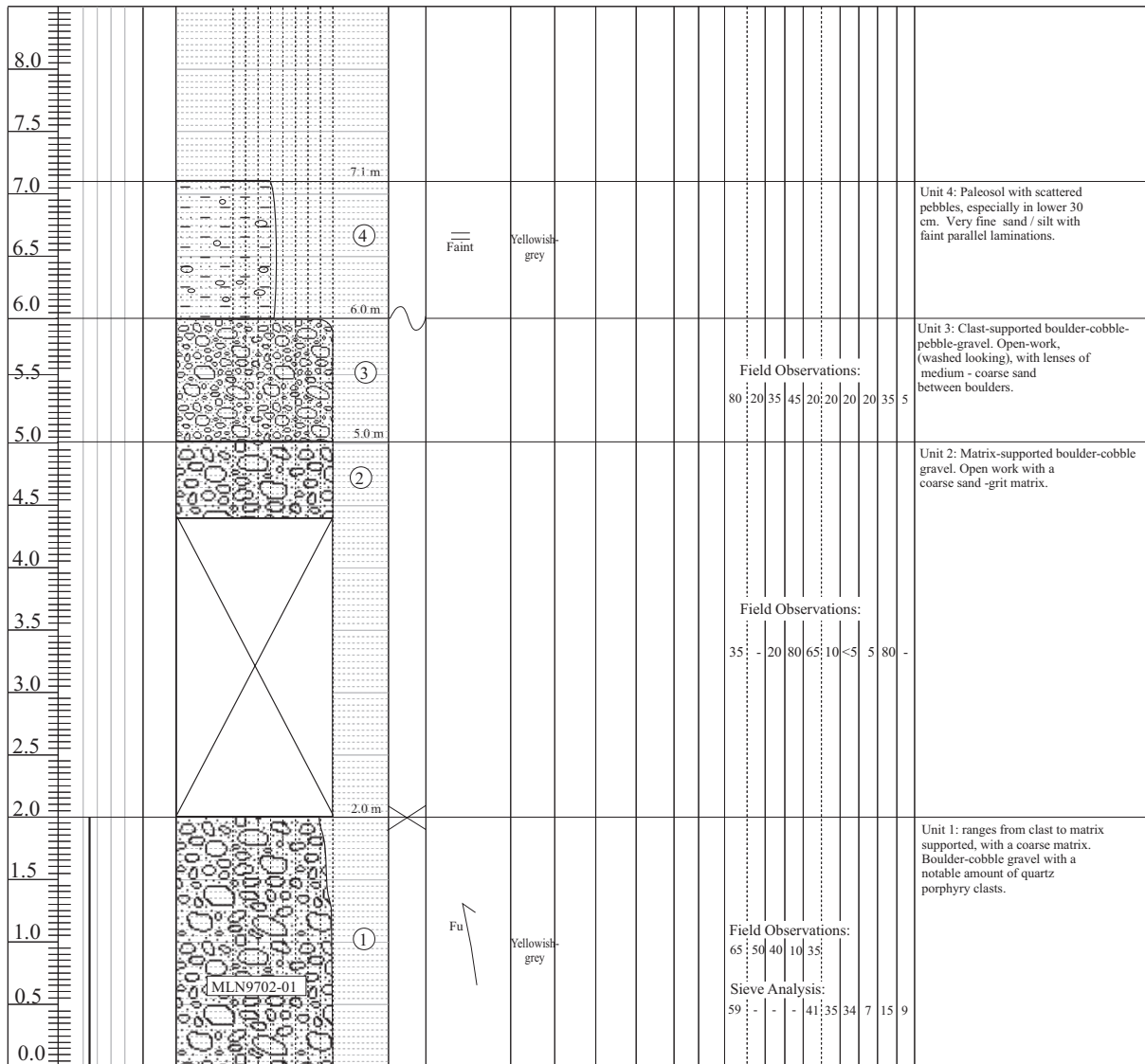


Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 01/08/97 Section number: MLN9702 Measured by: TA, DM Creek or River: McLagan Creek NTS: 115 P/9
 Latitude: 63°41'42.3" Longitude: 136°13'34.3" Elevation: 2400 ft UTM: N7063424, E0439372
 Orientation: ← → Geomorphic landform: _____

Metres	Sorting vp p m w	Angularity	Unit Number	EMC	Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture							Remarks
													max. clast size	% GRAVEL boulders pebbles	% MATRIX grit	coarse sand	medium sand	fine sand	silt and clay	

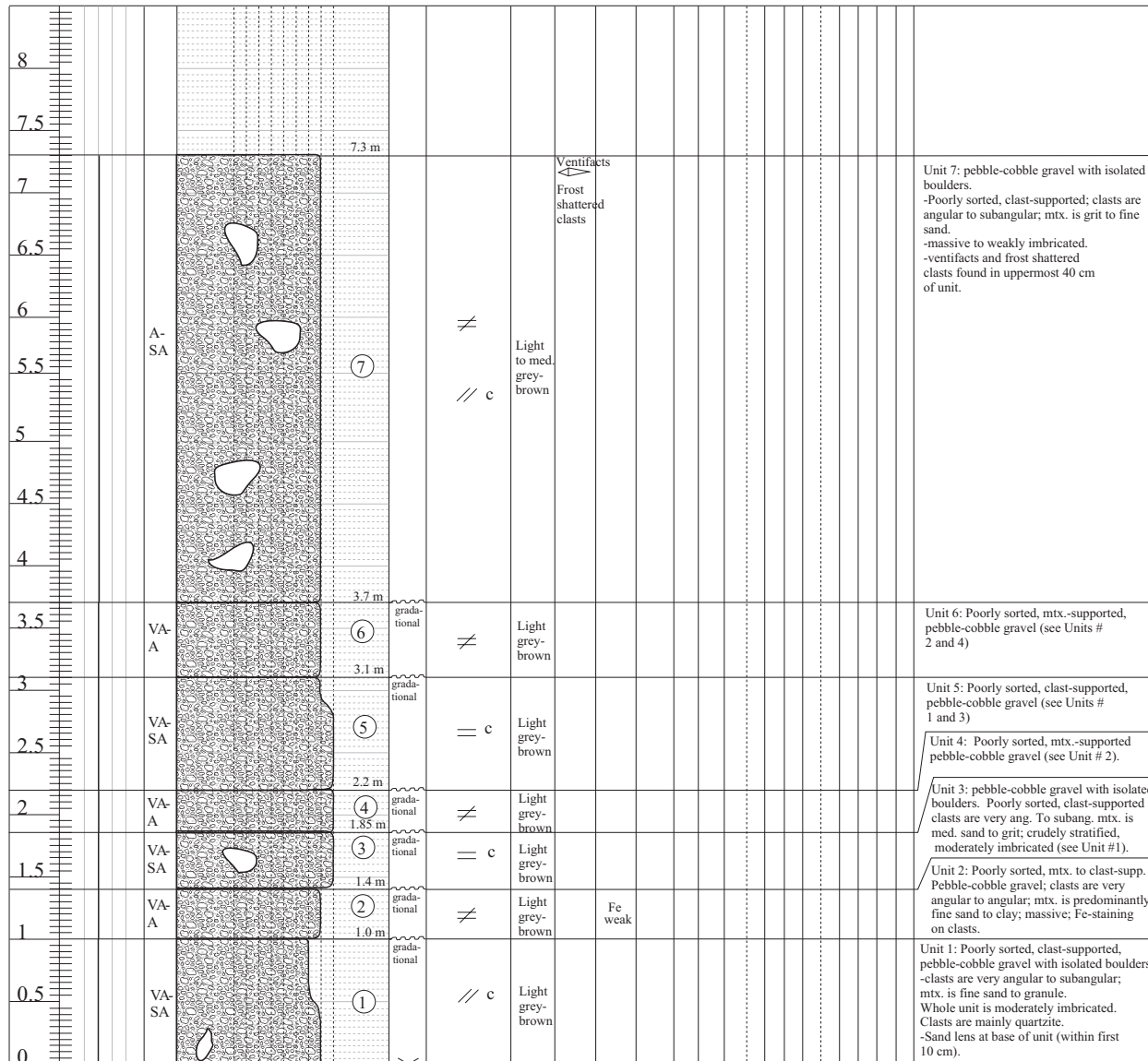


Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 20/08/96 Section number: GILL 3 Measured by: LW/BL Creek or River: Gill Gulch NTS: 106D4
 Latitude: 64°1'38''N Longitude: 135°51'11''W Elevation: 2415 UTM: 458250E, 7100175N
 Orientation: 235° ← → 055° upstream Geomorphic landform: Periglacial Fan

Metres	Sorting vp p m w	Angularity	Grain Size							Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture							Remarks
			Clay	Silt	Sand	Granule	Pebble	Cobble	Boulder								max. clast size	% GRAVEL	boulders	pebbles	% MATRIX	grit	course sand	



Legend

Mud (Silt/clay)	Gravel	Planar stratified	Massive	Imbricate	Ripples	Organics
Sand	Diamicton	Cross-stratified	Trough cross-stratified	Fossils	Planar Tabular Cross Beds	

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 25/06/97 Section number: LW-97-03 Measured by: LW/LM Creek or River: Haggart Creek NTS: 106D4
 Latitude: 64°00'51"N Longitude: 135°50'53"W Elevation: 2485 ft UTM: 458525E,7098800N
 Orientation: 201° ← → 021° upstream Geomorphic landform: Alluvial Fan/Colluvial Apron

Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder EMC	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture							Remarks
											% GRAVEL boulders	pebbles	% MATRIX grit	course sand	medium sand	fine sand	silt and clay	
20						Dk grey brown Med. to dk grey		Fe mottled										TOP: Covered interval, slumped debris. Unit 7: Lower half of unit is medium to dark grey massive silty clay. Clay grades into poorly sorted coarse sand to grit with isolated pebbles; uppermost part of unit is mottled with Fe-staining.
19																		Covered interval, slumped debris.
17						Medium to dark grey												Unit 6: Medium to dark grey, massive silty clay; blocky texture. Stringers of black organics in uppermost 80 cm of unit.
16																		Covered interval, slumped debris.
15						Dark grey-brown		Fe										Unit 5: Bottom= poorly sorted, mtx.-supported, granule-pebble gravel; Remaining part of the unit consists of massive silts and clays with isolated gritty lenses; silts also contain Fe-stained stringers of fine to med. sand throughout; lenses are contorted and bent due to cryoturbation.
11																		Covered interval, slumped debris.
10						Med. grey-brown												Unit 4: Poorly sorted, mtx.-supported, granule-pebble gravel with isolated cobbles; matrix is medium to coarse sand; crudely stratified. (1), (2) and (3) are channel fills which consist of poorly sorted, clast-supported, pebble gravel; gravel is moderately imbricated. Uppermost part of unit contains numerous sand lenses; lenses are well stratified, between 2-20 cm thick and consist of fine to medium sand. Colour ranges from light grey-brown in pebble channel fills, to medium grey-brown in matrix-supported granule-pebble gravel.
9																		
8						Light grey-brown												
7						Med. grey-brown												
6						Light grey-brown												
5						Med. grey-brown												Unit 3: Bottom part of unit: planar stratified to planar cross-bedded med. sand with isolated pebbles and cobbles. Sands coarsen upwards to a poorly to mod. sorted, mtx.-supported grit-pebble gravel with isolated cobbles; Small isolated clast-supported, pebble-cobble gravel channels located towards base of unit.
4						Dark grey-brown												
3						Dark grey-chocolate brown												Unit 2: Same as unit #1 except more pebbly; -matrix is grit to med. sand. This unit likely of same facies as #1.
2																		
1						Dark grey to chocolate brown												Unit 1: Poor- to mod. sorted fining up sequence from mtx.-supp. pebble gravel to med. & coarse sand. Few small, isolated fine sand lenses. Large scale planar cross-bed sets at base of unit; sets consist of 5-10 cm thick fining upward sequences. Bdrk. is ~3-4 m below base of this unit.
0																		

Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 09/08/97 Section number: LW-97-10 Measured by: LW/LM Creek or River: Gill Gulch NTS: 106D4
 Latitude: 64°01'41"N Longitude: 135°51'15"W Elevation: 2440 UTM: 458200E, 7100275N
 Orientation: 205° ← → 025° upstream Geomorphic landform: Alluvial Plain/Alluvial Fan

Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture								Remarks				
											max. clast size	% GRAVEL boulders	pebbles	% MATRIX grit	coarse sand	medium sand	fine sand	silt and clay					
8.0																							
7.5																							
7.0																							
6.5																							
6.0																							
5.5																							
5.0																							
4.85																							
4.5		A-SR	8	4.35 m	Sharp wavy	≠	Light brown to buff	Fe weak				25		75								Unit 8: Very poorly sorted, mtx.-supported pebble diamict (colluvium); matrix is grit to fine sand; clasts are angular to sub-rounded.	
4.0			7	3.65 m		≠	Olive grey-brown	Fe mottled														Unit 7: Well sorted, massive fine sands. Mottled Fe-staining throughout.	
3.5		SA-SR	6	2.95 m	gradational	≠	Light to med. grey	Fe mottled				40		60								Unit 6: Poorly sorted, mtx.-supported, pebble diamict; mtx. is fine to coarse sand; clasts are subangular to subrounded. Mottled Fe-staining throughout.	
3.0			5	2.45 m	erosive	≠	Olive grey-brown	Mn mottled														Unit 5: Well sorted, massive, fine sand. Unit is mottled with Mn-staining.	
2.5			4	1.85 m	sharp wavy	≠	Light to med. grey	Organics	cryo		15		85									Unit 4: Poorly sorted, mtx.-supported, pebble diamict, mtx. is silt to fine sand; pebbles are angular to subrounded; coarse sand lenses are Fe-st. and contorted from cryoturbation.	
2.0		A-SR	3	1.50 m	erosive	≠	Light to med. brown	Organics														Unit 3: Moderately sorted, fine to med. Sands with coarse sand to grit lenses; tiny woody debris scattered throughout.	
1.5			2	1.30 m	sharp wavy	≠	Light grey	Organics														Unit 2: Massive silts with organic-rich laminae.	
1.0		SA-R	1		sharp wavy	≡	Med. brown	Fe (mod.)		☆	75	5	35	60	25	70	15	10	5			Unit 1: Poorly sorted, clast-supported, pebble-cobble gravel; clasts are subangular to rounded; moderately imbricated. Moderate Fe-staining is pervasive throughout unit. 20-30 cm above bedrock.	
0.5																							
0.0																							

Legend

Mud (Silt/clay)
 Gravel
 Planar stratified
 Massive
 Imbricate
 Ripples
 Organics
 Sand
 Diamicton
 Cross-stratified
 Trough cross-stratified
 Fossils
 Planar Tabular Cross Beds
 Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 14/08/97 Section number: LW-97-11 Measured by: LW/LM Creek or River: Gill Gulch NTS: 106D4
 Latitude: 64°01'39"N Longitude: 135°51'15"W Elevation: 2445 UTM: 458200E,7100225N
 Orientation: 170° ← → 350° upstream Geomorphic landform: Alluvial Fan

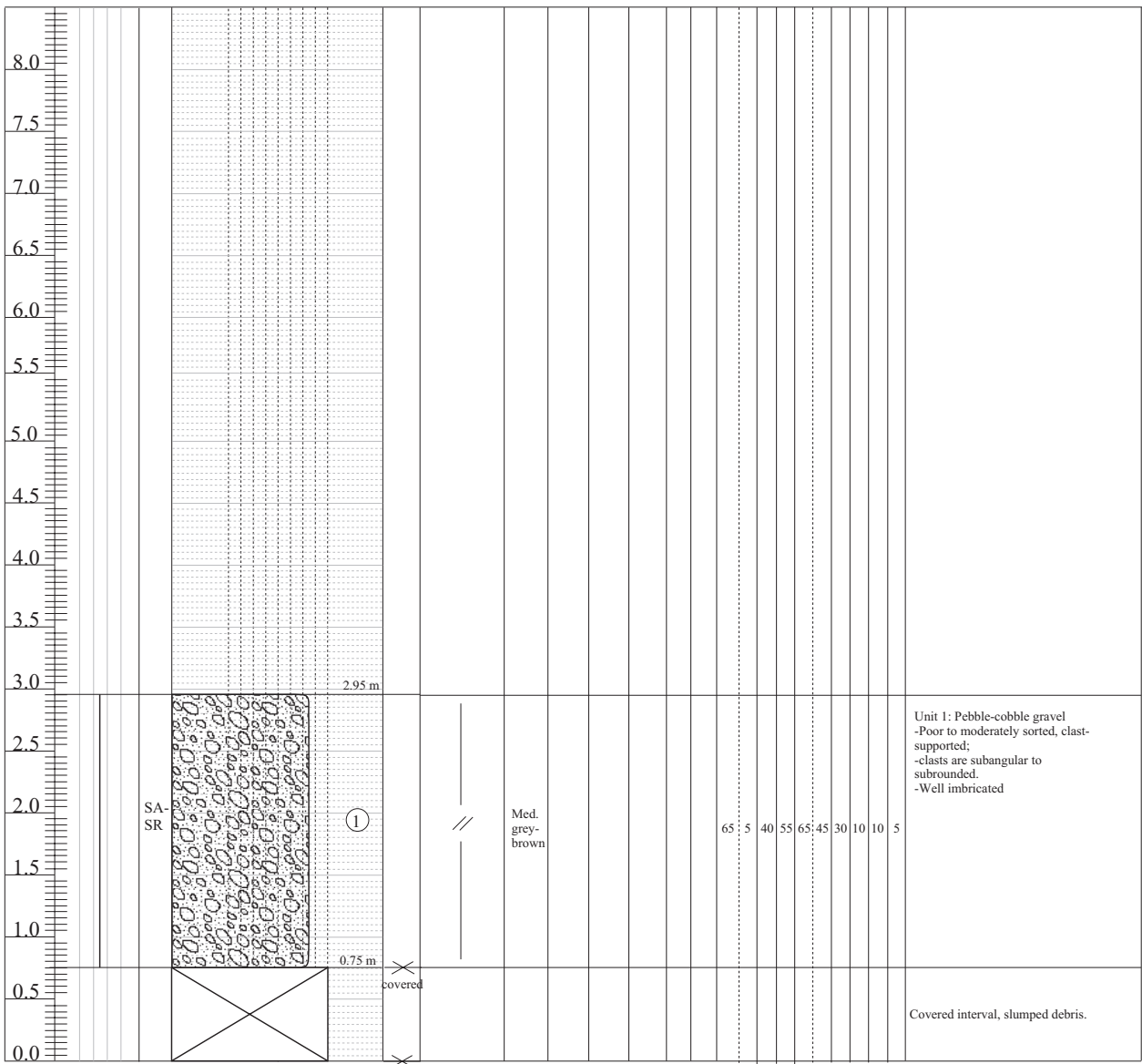
Metres	Sorting vp p m w	Angularity Unit Number	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder EMC	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture							Remarks	
											max. clast size	% GRAVEL boulders	pebbles	% MATRIX grit	course sand	medium sand	fine sand		silt and clay
4.0		A			crude	Med. grey brown to choc. Brown			cryo										Unit 6: Crudely laminated organic-rich silt with granule-pebble diamict; diamict is matrix-supported with silt rich matrix and clasts are angular; organic-rich silt contains tiny pieces of woody debris scattered throughout. Ice-wedge cast found at base of unit -whole unit is heavily cryoturbated.
3.5																			
3.0																			
2.95 m																			
2.80 m		A				grey-brown													Unit 5: Laminated very fine sand to silt; laterally discontinuous.
2.60 m						Light grey-brown					70		30						Unit 4: Clast-supported, grit to pebble gravel; mtx. is fine to coarse sand; clasts are angular; laterally discontinuous.
2.5		A-SA																	Unit 3: Crudely stratified organic-rich silt; tiny pebbles scattered throughout; pebbles are angular to subangular; tiny woody debris scattered throughout. Similar to Unit#1, but less gritty. Heavily cryoturbated.
2.0						Choc. brown		Fe mottled	cryo										
1.90 m																			Unit 2: Massive silt with small lenses of fine to coarse sand; sand lenses are Fe-stained; lenses are contorted from cryoturbation.
1.5						Light to med. grey			Fe mottled	cryo									
1.30 m																			
1.0						Med. grey to choc. brown		Fe mottled	cryo										Unit 1: Cryoturbated massive silt with organic-rich, crudely stratified silt; organic-rich silt contains Fe-stained sand and grit lenses; tiny woody debris scattered throughout.
0.95 m																			Covered interval, slumped debris.
0.5																			
0.0																			

Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 14/08/97 Section number: LW-97-12 Measured by: LW/LM Creek or River: Gill Gulch NTS: 106D4
 Latitude: 64°01'36"N Longitude: 135°51'12"W Elevation: 2420 ft UTM: 458225E,7100125N
 Orientation: 160° ← → 340° Geomorphic landform: Alluvial Plain
upstream

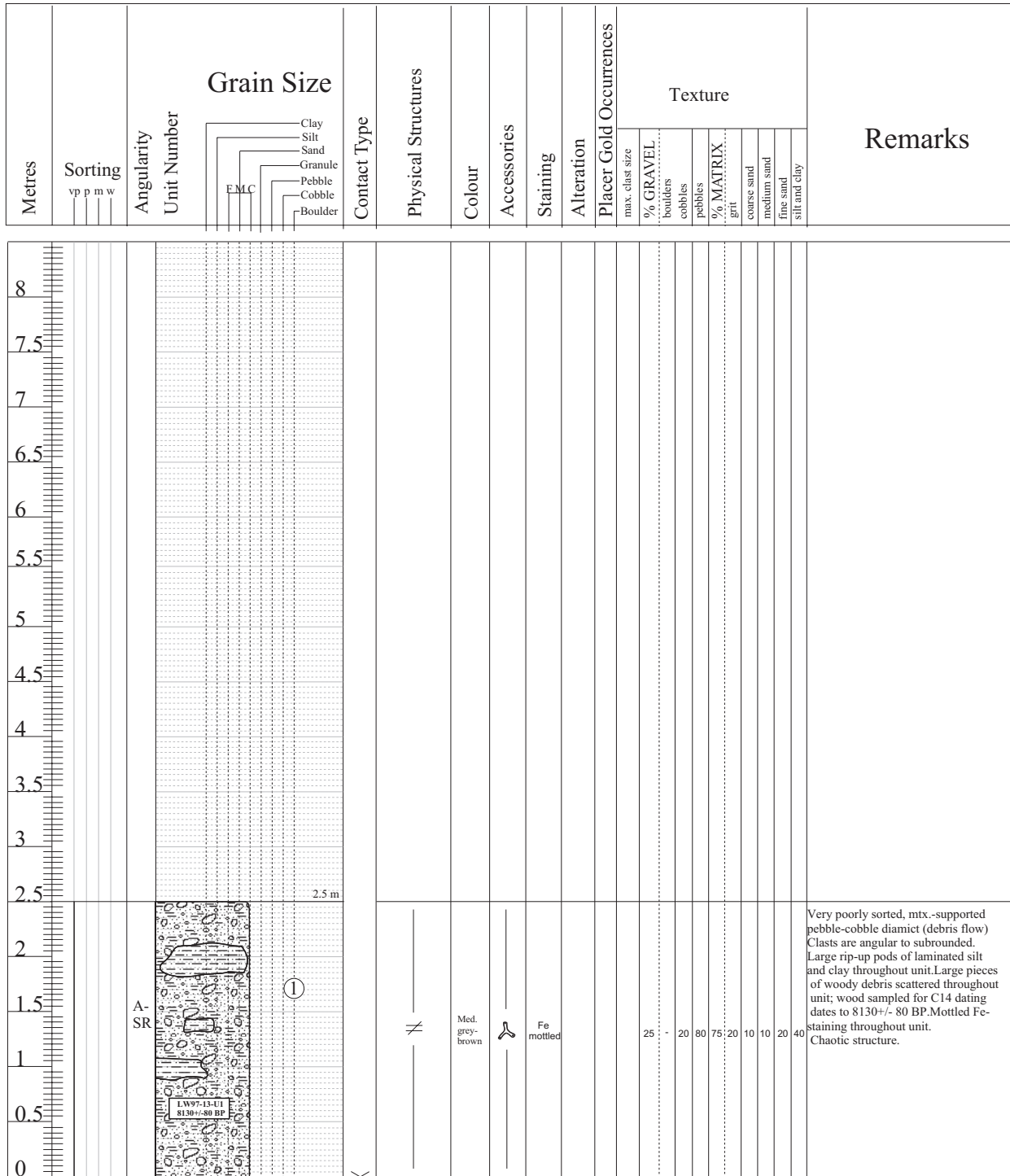
Metres	Sorting vp p m w	Angularity	Grain Size EMLC Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture							Remarks
											max. clast size	% GRAVEL boulders	cobbles	pebbles	% MATRIX grit	course sand	medium sand	



Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 15/08/97 Section number: LW-97-13 Measured by: LW/LM Creek or River: Gill Gulch NTS: 106D4
 Latitude: 64°01'32"N Longitude: 135°51'07"W Elevation: 2410 UTM: 458325E, 7100050N
 Orientation: 190° ← → 010° upstream Geomorphic landform: Debris Flow



Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 21/08/97 Section number: LW-97-17 Measured by: LW/LM Creek or River: Fisher Gulch NTS: 106D4
 Latitude: 64°02'23"N Longitude: 135°52'09"W Elevation: 2825 UTM: 457450E,7101600N
 Orientation: 061° ← → 341°
 Geomorph landform: Gulch gravel
 upstream

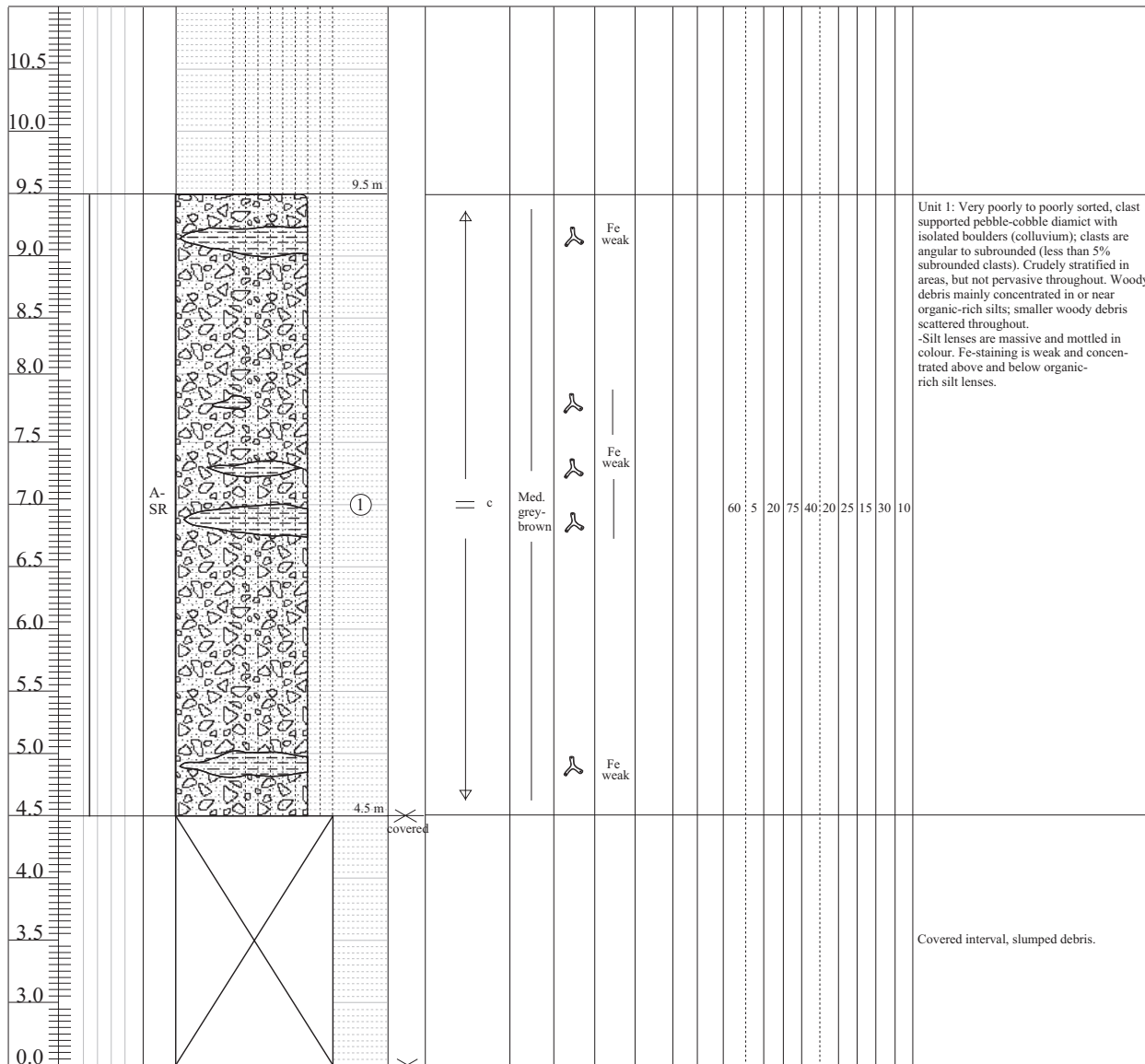
Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture								Remarks					
											max. clast size	% GRAVEL boulders	cobbles	pebbles	% MATRIX grit	coarse sand	medium sand	fine sand		silt and clay				
8.0																								
6.5				6.5 m																				
6.0		SA-A		6.2 m	gradational	≠	Light grey to pale grey-orange		Fe weak			65	-	15	85	35								Cat push.
5.5				5.6 m	diffuse	≠	Light grey to pale grey-orange		Fe, Mn mottled			75	-	55	45	25	30	35	10	20	5			Unit 9: Poorly sorted, clast supported pebble gravel with minor cobbles; clasts are subangular to angular; Fe staining pervasive throughout. Matrix is predominantly coarse sand.
5.0		SA-SR		4.7 m		≠	Light grey to pale grey-orange		Fe, Mn mottled			75	-	55	45	25	30	35	10	20	5			Unit 8: Poorly sorted, clast-supported pebble gravel with minor cobbles; clasts are angular to subrounded. Fe and Mn staining mottled throughout.
4.5				4.7 m	gradational	= c	Light to med. Grey		Fe weak			60	-	5	95	40	25	35	15	20	5			Unit 7: Poorly sorted, clast-supported pebble gravel with minor cobbles; clasts are ang. to subang.
4.0		SA-SA		4.1 m	diffuse	≠	Light to med. grey		Fe mottled			70	10	35	55	30	30	25	20	20	5			Unit 6: Poorly sorted, clast-supported cobble-boulder gravel; clasts are angular to subangular. Fe-staining occurs in stringers throughout unit.
3.5																								
3.0		SA-SA			diffuse	≠	Dark red-purple		Fe, Mn strong			85	-	10	90	15	30	60	5	5	-			Unit 5: Poorly sorted, clast-supported, pebble-cobble gravel; clasts are angular to subangular. Fe and Mn staining pervasive throughout.
2.5					Gradational	≠	LI-med. Grey					75	5	55	40	25	20	10	5	55	10			Unit 4: Poorly sorted, clast supported cobble-gravel; clasts are angular.
2.0		A			Sharp Gradational	≠ weak	purp-red		Fe, Mn															Unit 3: Gritty gravel with minor pebbles. Well cemented.
1.5		SA-SR			Gradational	= c	Dark rusty red-brown		Fe strong			60	-	25	75	40	30	40	20	5	5			Unit 2: Poorly sorted, clast-supported, pebble-cobble gravel; clast are mostly subangular to subround. Fe-staining pervasive throughout.
1.0					diffuse	≠	Olive green-grey		Fe, Mn mottled	☆		75	10	50	40	25	10	20	45	20	5			Unit 1: Poorly sorted, clast-supported cobble-boulder gravel; clasts are angular to subangular; boulders rounded
0.5																								Covered interval; approximately 2-3 metres above bedrock.
0.0																								

Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 26/08/97 Section number: LW-97-19 Measured by: LW/LM Creek or River: Dublin Gulch NTS: 106D4
 Latitude: 64°02'04"N Longitude: 135°49'15"W Elevation: 2975 UTM: 459850E,7101000N
 Orientation: 222° ← → 042°
 Geomorphologic landform: Colluvial Apron
 upstream

Metres	Sorting vp p m w	Angularity	Grain Size						Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences									Remarks
			Clay	Silt	Sand	Granule	Pebble	Cobble							Boulder	max. clast size	% GRAVEL	boulders	cobbles	pebbles	% MATRIX	grit	coarse sand	



Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 27/08/97	Section number: LW-97-20	Measured by: LW/LM	Creek or River: Dublin Gulch	NTS: 106D4
Latitude: 64°02'00"N	Longitude: 135°49'41"W	Elevation: 2825	UTM: 459500E, 7100875N	
Orientation: 244°	← 064° →	Geomorphic landform: Gulch Gravel/Colluvial Apron		
		upstream		

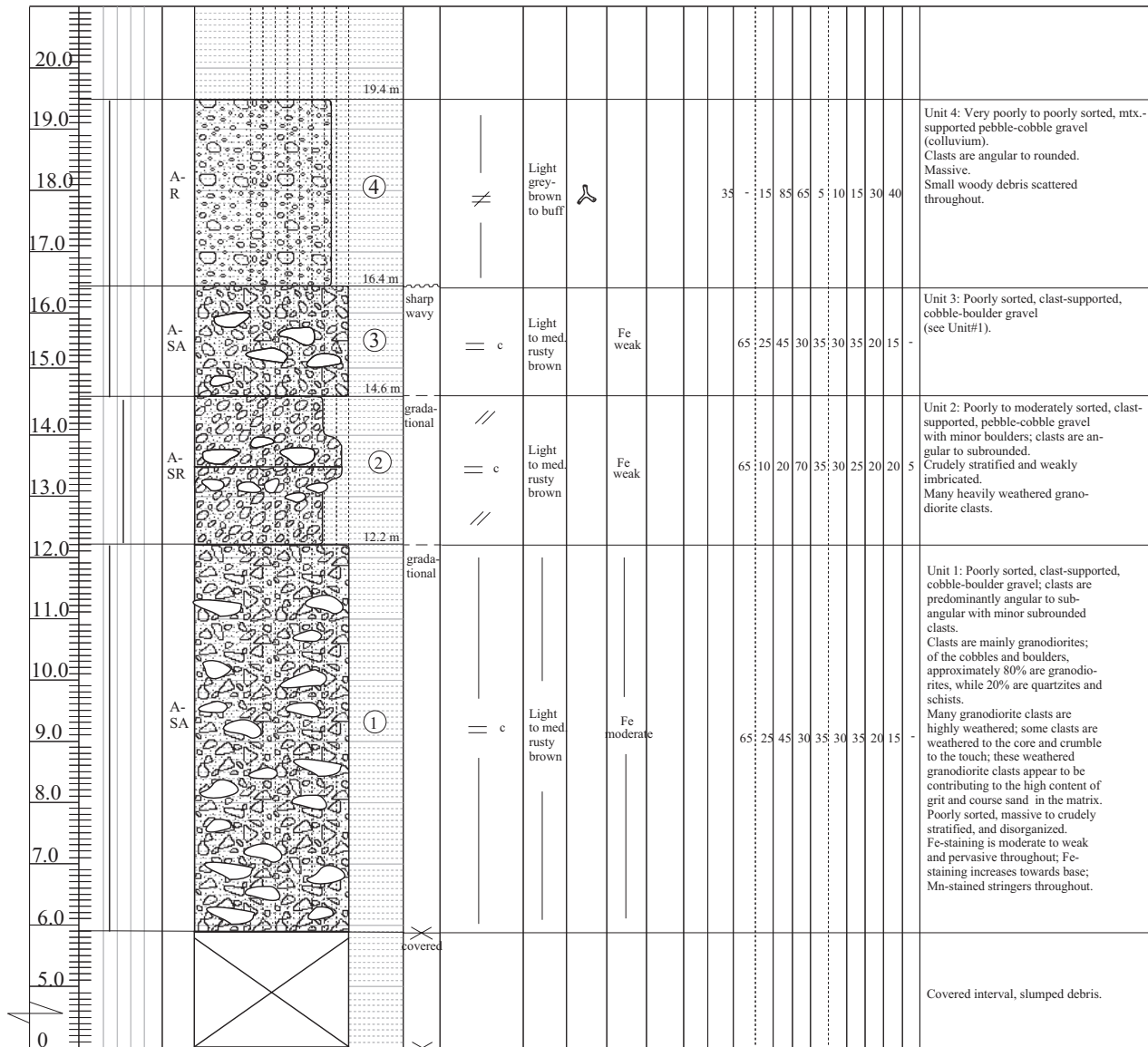
Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture							Remarks			
											% GRAVEL boulders	pebbles	% MATRIX grit	course sand	medium sand	fine sand	silt and clay				
24.0				gradational	≡	light grey brn. to buff					65	15	30	55	35	30	40	25	5	-	Unit 4: Poorly sorted, mtx.-Supported, pebble-cobble gravel (colluvium); mtx. is coarse sand to grit.
23.0				gradational	≡						65	15	30	55	35	30	40	25	5	-	Unit 3: Same as Unit # 2, however there are no prominent sand lenses.
22.0				gradational	≡	Light to med rusty brown		Fe moderate			65	15	30	55	35	30	40	25	5	-	Unit 2: Same as Unit #1, but with less boulders and cobbles, more rounded clasts (now mostly subrounded to subangular) and the presence of sand lenses.
21.0				gradational	≡	Light to med. rusty brown		Fe moderate			65	20	35	45	35	30	40	25	5	-	Unit 1: Poorly sorted, clast-supported, cobble-boulder gravel; clasts are predominantly angular to sub-angular with minor subrounded clasts. Clasts are mainly granodiorites; of the cobbles and boulders, approximately 60% are granodiorites, while 40% are quartzites and schists. Many granodiorite clasts are highly weathered; some clasts are weathered to the core and crumble to the touch; these weathered granodiorite clasts appear to be contributing to the high content of grit and course sand in the matrix. Poorly sorted, massive and disorganized. Fe-staining is moderate to strong and pervasive throughout.
20.0				covered																	Covered interval, slumped debris.

Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 27/08/97 Section number: LW-97-21 Measured by: LW/LM Creek or River: Dublin Gulch NTS: 106D4
 Latitude: 64°02'00"N Longitude: 135°49'47"W Elevation: 2790 UTM: 459400E, 7100875N
 Orientation: 244° ← → 064° Geomorphic landform: Gulch Gravel/Colluvial Apron
 upstream

Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture								Remarks
											max. clast size	% GRAVEL boulders	cobbles	pebbles	% MATRIX grit	coarse sand	medium sand	fine sand	



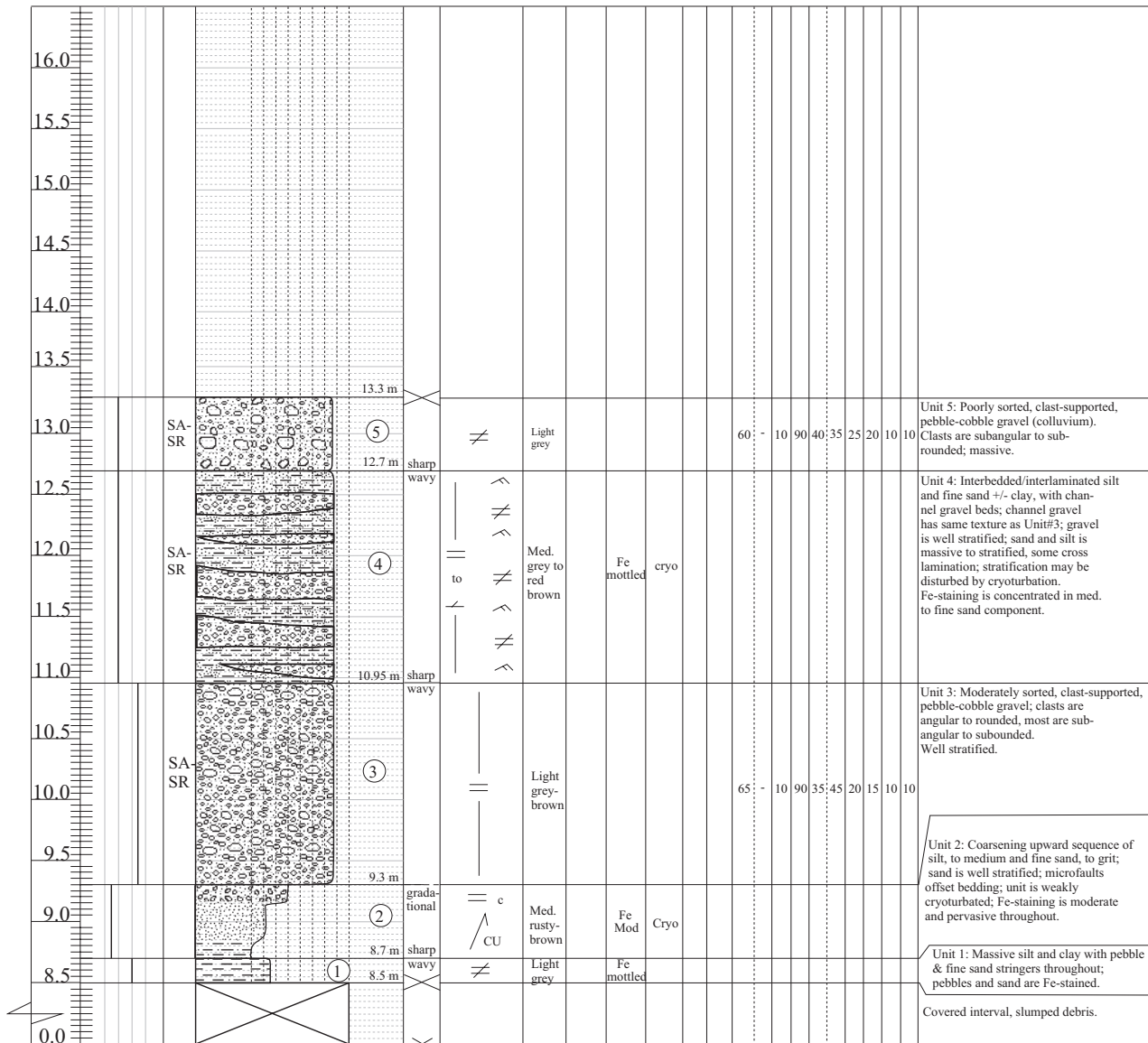
Legend

	Mud (Silt/clay)		Gravel		Planar stratified		Massive		Imbricate		Ripples		Organics
	Sand		Diamicton		Cross-stratified		Trough cross-stratified		Fossils		Planar Tabular Cross Beds		

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 05/09/97	Section number: LW-97-24	Measured by: LW/LM	Creek or River: Haggart Creek	NTS: 106D4
Latitude: 64°00'32"N	Longitude: 135°51'11"W	Elevation: 2430	UTM: 458250E, 7098225N	
Orientation: 066°	← → 246°	Geomorphic landform: Alluvial Fan/Colluvial Apron		

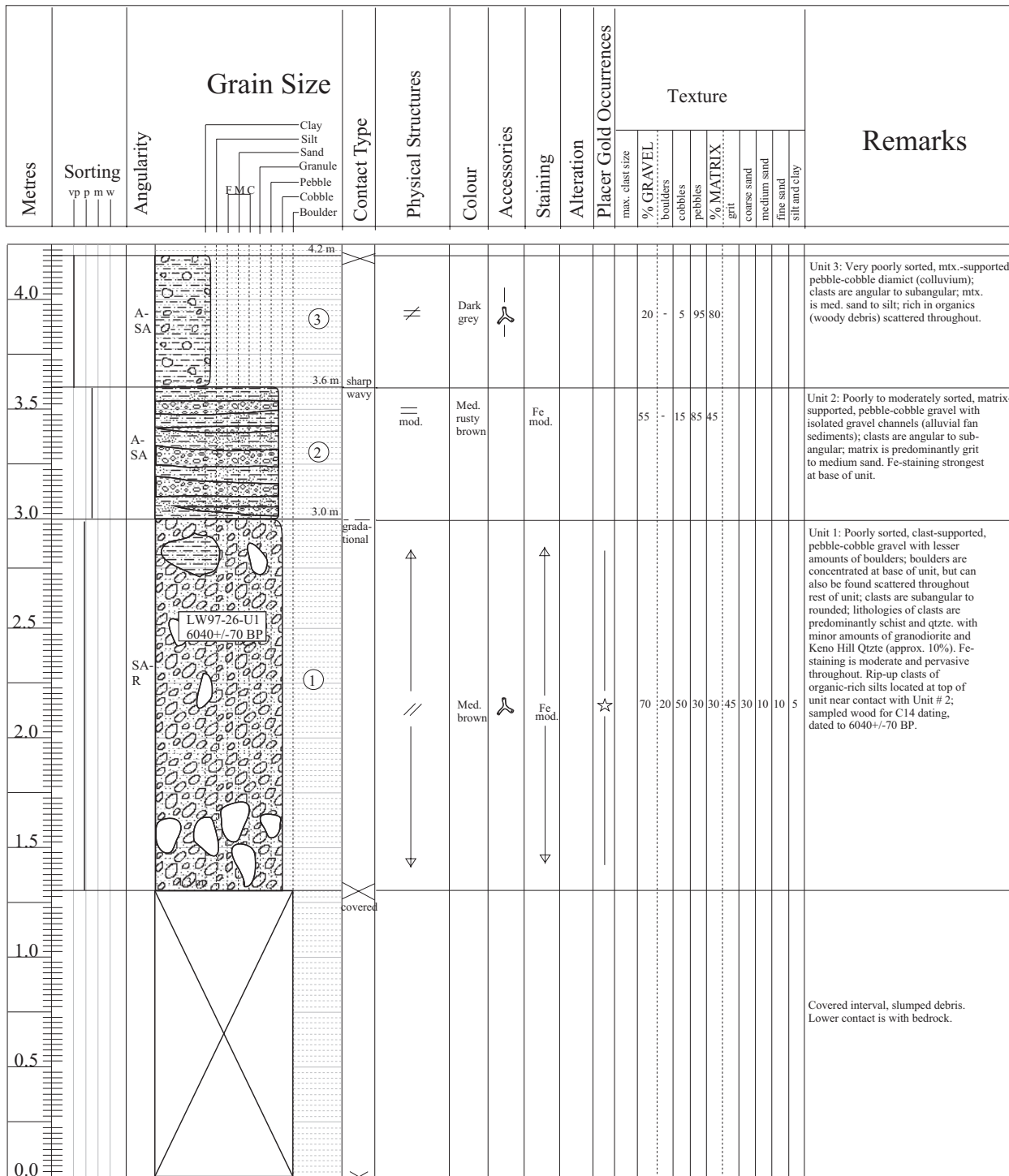
Metres	Sorting vp p m w	Angularity	Grain Size EMC Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences max. clast size	Texture							Remarks
											% GRAVEL boulders	cobbles	pebbles	% MATRIX grit	coarse sand	medium sand	fine sand	



Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 09/05/97 Section number: LW-97-26 Measured by: LW/LM Creek or River: Haggart Creek NTS: 106D4
 Latitude: 64°00'26"N Longitude: 135°51'11"W Elevation: 2435 ft UTM: 458250E,7098050N
 Orientation: 165° ← → 345°
 Geomorphic landform: Alluvial Plain/Alluvial Fan/Colluvial Apron
 upstream



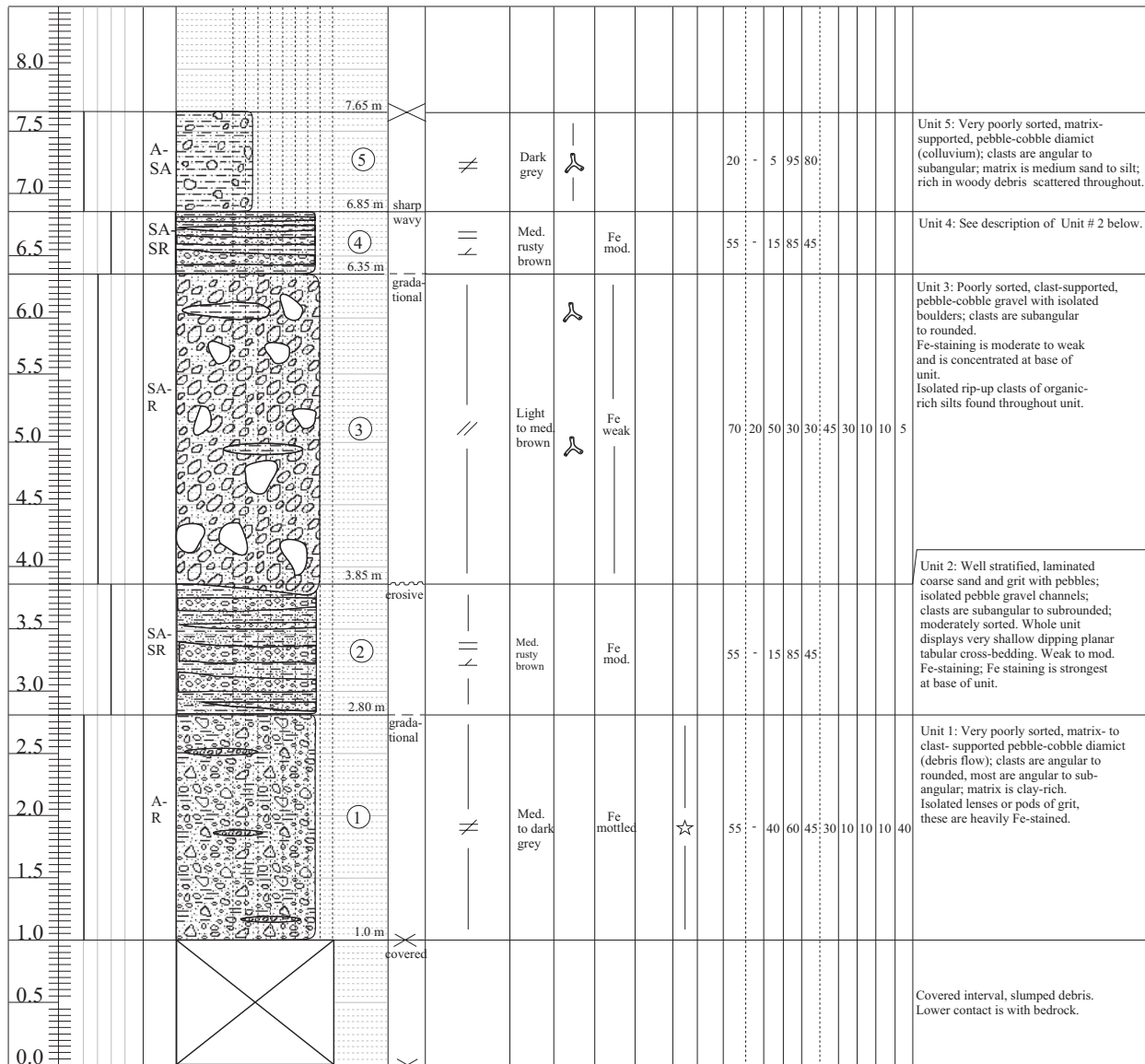
Legend

	Mud (Silt/clay)		Gravel		Planar stratified		Massive		Imbricate		Ripples		Organics
	Sand		Diamicton		Cross-stratified		Trough cross-stratified		Fossils		Planar Tabular Cross Beds		

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 09/07/97 Section number: LW-97-27 Measured by: LW/LM Creek or River: Haggart Creek NTS: 106D4
 Latitude: 64°0'26''N Longitude: 135°51'11''W Elevation: 2400 UTM: 458250E, 7098050N
 Orientation: 162° ← → 342° upstream Geomorphoic landform: Alluvial Plain/Alluvial Fan/Colluvial Apron

Metres	Sorting vp p m w	Angularity	Grain Size boulder cobble pebble granule sand silt clay	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture										Remarks
											max. clast size	% GRAVEL	boulders	cobbles	pebbles	% MATRIX	grit	coarse sand	medium sand	fine sand	



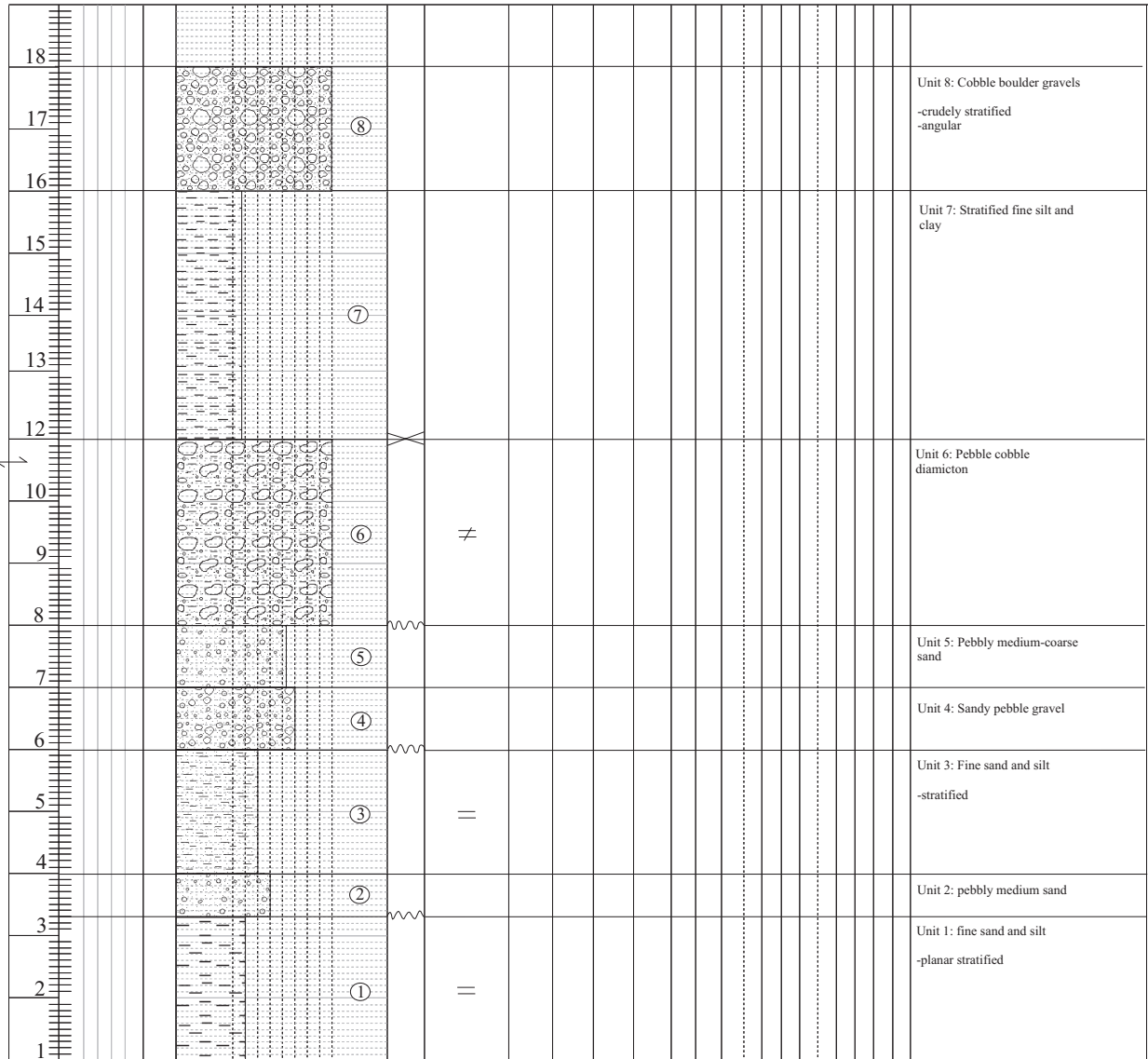
Legend

Mud (Silt/clay)	Gravel	Planar stratified	Massive	Imbricate	Ripples	Organics
Sand	Diamicton	Cross-stratified	Trough cross-stratified	Fossils	Planar Tabular Cross Beds	

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 7/08/95 Section number: RH1-95 Measured by: WPL Creek or River: Haggart Creek NTS: 106D4
 Latitude: 64°01.03 Longitude: 135°51.18 Elevation: 2540 ft UTM: _____
 Orientation: 300 ← → 120 Geomorphc landform: Remnant moraine (terrace)

Metres	Sorting vp p m w	Angularity	Grain Size EMC Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture								Remarks
											max. dist size	% GRAVEL	boulders	pebbles	% MATRIX	grit	coarse sand	medium sand	

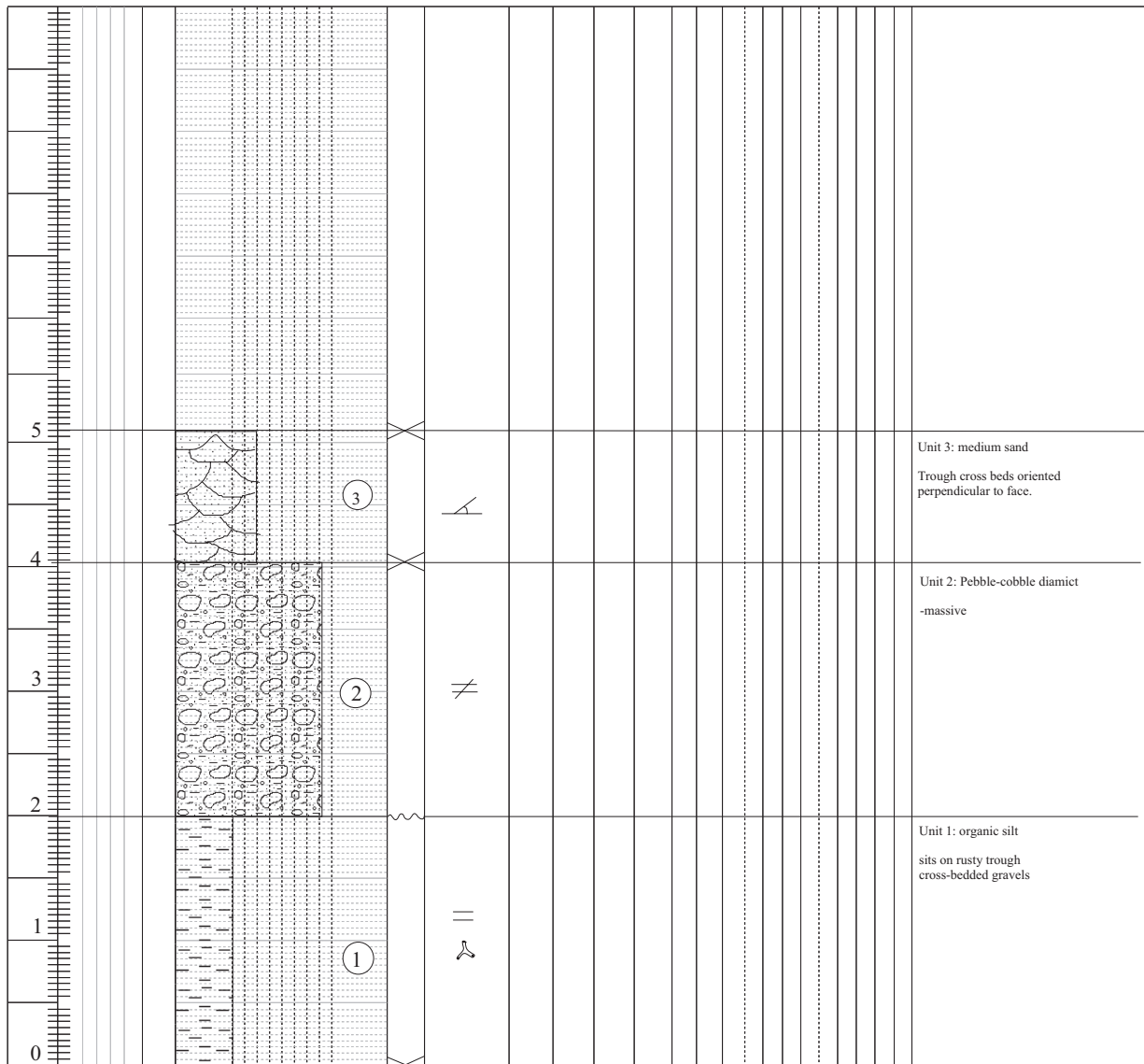


Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 24/09/95 Section number: RH2-95 Measured by: WPL Creek or River: Haggart Creek NTS: _____
 Latitude: 64°00'.9 N Longitude: 135°51'.06W Elevation: 2530 ft UTM: _____
 Orientation: 252 ← → 72 Geomorphic landform: _____

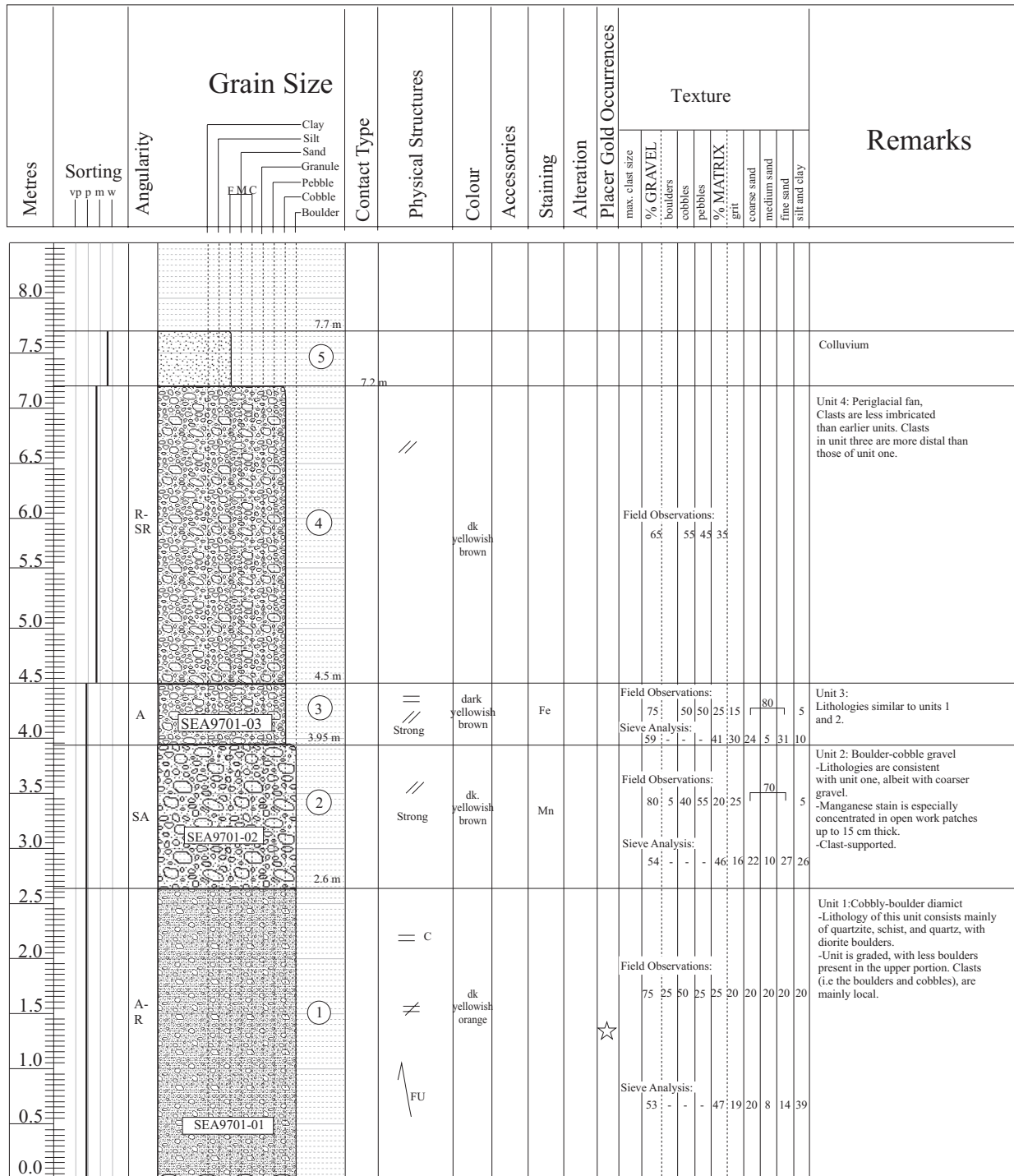
Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture							Remarks
											max. clast size	% GRAVEL boulders	pebbles	% MATRIX grit	course sand	medium sand	fine sand	



Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 02/07/97	Section number: SEA9701	Measured by: TA, WL	Creek or River: Seattle Creek	NTS: 115 P/16
Latitude: 63°49'17"	Longitude: 136°04'2.3"	Elevation: 2600 ft	UTM: N7077354, E0447463	
Orientation: 170°	← → 350°	Geomorphic landform: Alluvial Fan		



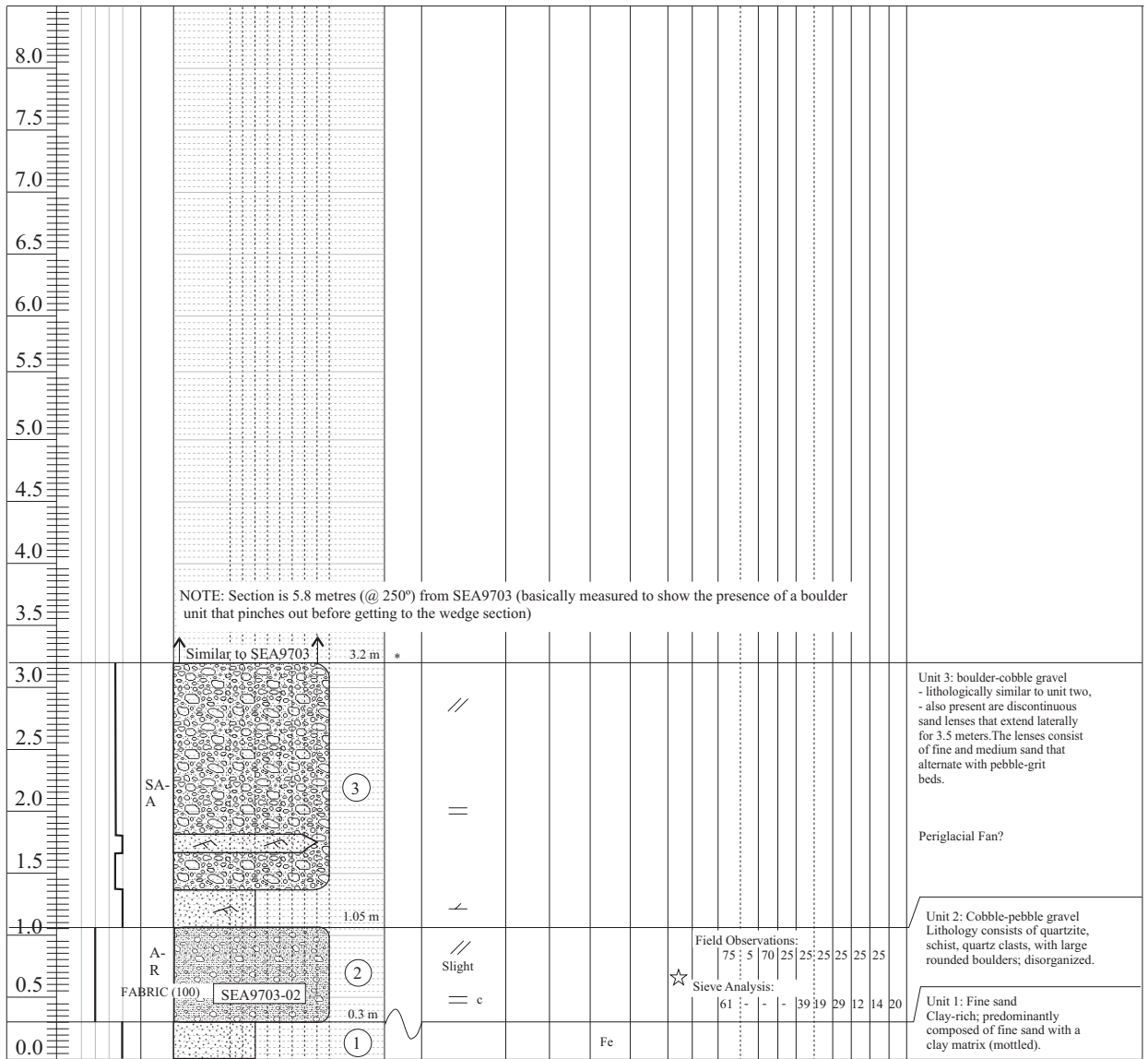
Legend

Mud (Silt/clay)	Gravel	Planar stratified	Massive	Imbricate	Ripples	Organics
Sand	Diamicton	Cross-stratified	Trough cross-stratified	Fossils	Planar Tabular Cross Beds	

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 03/07/97 Section number: SEA9704 Measured by: TA, WL Creek or River: Seattle Creek NTS: 115 P/16
 Latitude: 63°49'17" Longitude: 136°04'02" Elevation: UTM: N7077354, E0447463
 Orientation: 250° ← → 070° Geomorph landform: Periglacial Alluvial Fan

Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture								Remarks
											max. clast size	% GRAVEL boulders	cobbles	pebbles	% MATRIX grit	coarse sand	medium sand	fine sand	



Legend

Mud (Silt/clay)	Gravel	Planar stratified	Massive	Imbricate	Ripples	Organics
Sand	Diamicton	Cross-stratified	Trough cross-stratified	Fossils	Planar Tabular Cross Beds	

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 04/07/97 Section number: SEA9705 Measured by: TA, WL Creek or River: Seattle Creek NTS: 115 P/16
 Latitude: 63°49'23.2" Longitude: 136°04'0.4" Elevation: 2550 ft UTM: E0447491, N7077546
 Orientation: 235° ← → 055° Geomorphic landform: Periglacial Alluvial Fan

Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture										Remarks	
											max. clast size	% GRAVEL boulders	pebbles	% MATRIX grit	coarse sand	medium sand	fine sand	silt and clay				
10.0					=	yellowish grey - dusky yellow			Fe												Loess	
9.5									Fe												Unit 7: boulder cobble gravel	
9.0																					Unit 6: diamicton	
8.5																					Field Observations: 65 5 35 60 35 5 15 10 60 10	
8.0					//	yellowish grey															Field Observations: 80 5 30 65 20 30 20 45 5	Unit 5: boulder cobble gravel
7.5					=																Unit 4: stratified fine sand	
7.0		A-SA			∧ CU	light olive grey															Field Observations: 65 5 35 60 35 5 15 10 60 10	Unit 3: Diamicton -matrix supported; clast near top appear shattered. Debris flow.
6.5		A-SA			= c	light olive grey															Field Observations: 80 1 35 69 20 30 35 10 20 5	Unit 2: Cobble gravel -Lithology of unit 2 is similar to unit 1, -unit 2 has more prominent stratification and an ice cast that is approximately 25 cm across. -Material is flattened, and some clasts are highly weathered. -Unit is likely equal to SEA9703/SEA9704-03. Periglacial fan.
5.5		A-SA			//																Sieve Analysis: 59 - - - 41 33 32 6 23 6	
5.0																						
4.5		A-SA																			Field Observations: 70 25 35 40 30 10	
4.0																						
3.5																						
3.0																						
2.0																						
1.5		A-SA				yellowish grey				☆											Field Observations: 80 10	Unit 1: Diamicton -very disorganized with a high quartzite/schist/vein quartz content. - Matrix coarsens upwards and there are some open work patches at 1.5 meters. Similar to SEA9704-2.
0					FABRIC (50)																Sieve Analysis: 48 - - - 52 18 22 10 25 25	

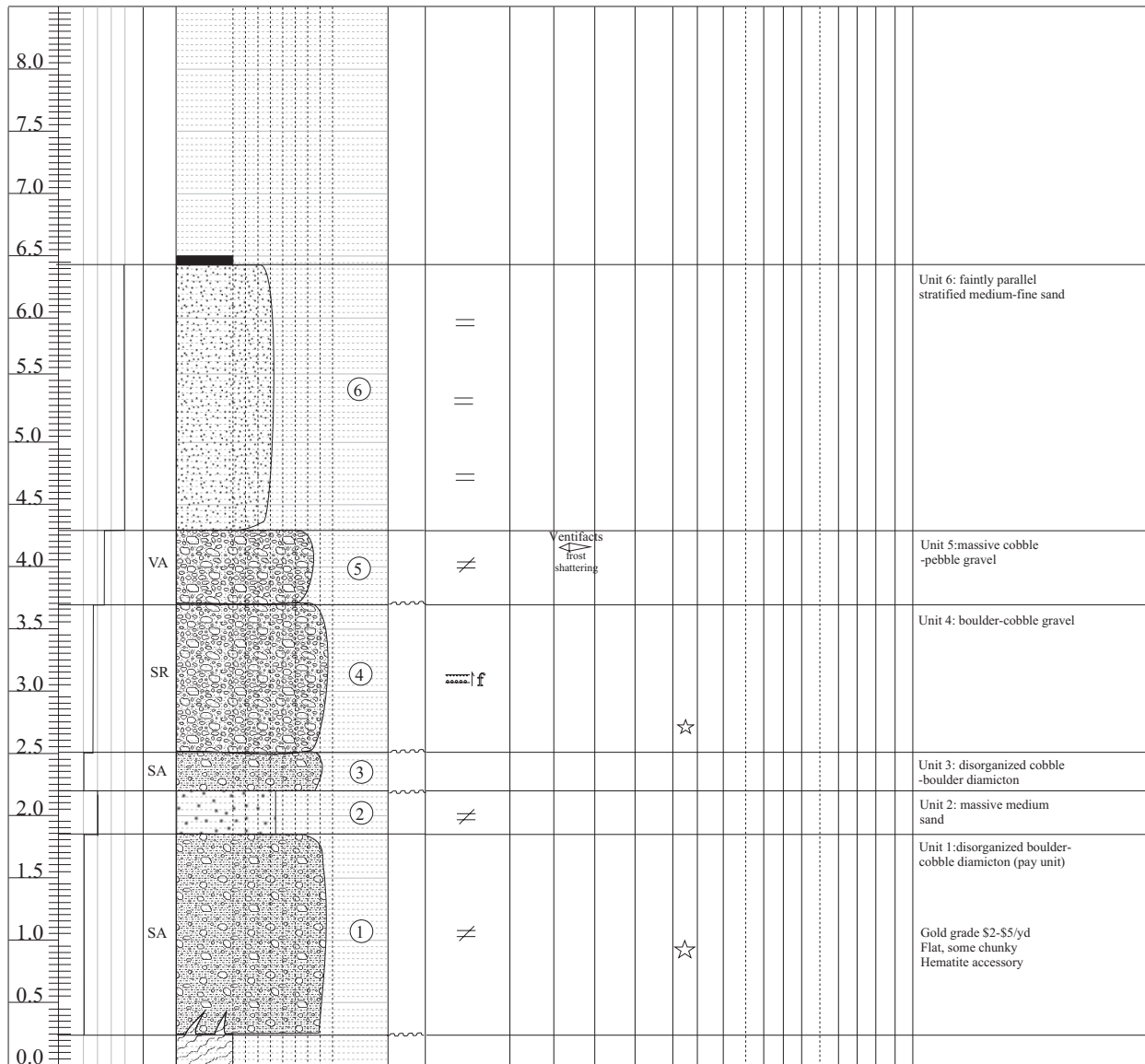
At stream junction

Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

Date: 08/08/95 Section number: GD1-95 Measured by: WPL Creek or River: Goodman Creek NTS: 115P16
 Latitude: 63°55'36"N Longitude: 136°11'33"W Elevation: 2380 UTM: 0441450E, 7089250N
 Orientation: 285 ← → 105 upstream Geomorphic landform: Periglacial Fan

Metres	Sorting vp p m w	Angularity	Grain Size							Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture							Remarks
			Clay	Silt	Sand	Granule	Pebble	Cobble	Boulder								max. clast size	% GRAVEL boulders	pebbles	% MATRIX grit	coarse sand	medium sand	fine sand	



Legend

Mud (Silt/clay)	Gravel	Planar stratified	Massive	Imbricate	Ripples	Organics
Sand	Diamicton	Cross-stratified	Trough cross-stratified	Fossils		

Modifiers: c = crude d = discontinuous

Date: 12/08/97 Section number: GDM9702 Measured by: TA, DP Creek or River: Goodman Creek NTS: 115P/16
 Latitude: 63°54'21.7" Longitude: 136°08'57.1" UTM: 443596E, 7086881N Elevation: 2050 ft
 Orientation: 080 (ds) ← → 260 (us) Geomorphic landform: _____

Metres	Sorting vp p m w	Angularity	Grain Size Clay Silt Sand Granule Pebble Cobble Boulder	Contact Type	Physical Structures	Colour	Accessories	Staining	Alteration	Placer Gold Occurrences	Texture										Remarks
											max. class size	% GRAVEL boulders	pebbles	% MATRIX grit	coarse sand	medium sand	fine sand	silt and clay			
8.5						Dusky yellow-lt grey/yellow-grey															Unit 7: Fine sand and silt with organic bands; 5 cm flat angular pebble / grit lens.
8.0																					
7.5					Sharp	// c															Unit 6: boulder-cobble gravel - Clast- to matrix-supported (varies); open-work. Matrix varies from mostly medium sand to mostly grit and coarse sand;
7.0		R-SR																			
6.5																					
6.0																					
5.5					Sharp																
5.0						Lt. grey															Unit 5: Alternating light grey silty clay and rusty stained medium-coarse sand (5-10 cm thick intervals). -Predominantly sand; sharp contacts between different grain sizes
4.5					Sharp	// c															
4.0		SA-A				Mod. Yellow-brown															Unit 4: boulder-cobble-pebble gravel. -Matrix-supported Broadly undulating lower contact (50 cm relief). Medium sand lens with small pebbles (2.5 m x 0.25 m) occurs between units 3 and 4.
3.5																					
3.0																					
2.5						Lt olive-grey (5Y6/2)															Unit 3: Boulder-cobble-pebble gravel. Clast-supported; tightly packed open - work.
2.0					Sharp	// c															
1.5		R-SR				Mod. Yellow-brown															Unit 2: Matrix-supported cobble-pebble gravel - Imbrication in opposing directions (080°, 360°). Gritty matrix.
1.0																					
0.5					Sharp and undulating	// c															Unit 1: Clast-supported, open work. Gravel.
0						Olive grey															

Legend

Modifiers: c = crude d = discontinuous cv = convoluted cryo = cryogenic features

