

APPENDIX B-3: SUMMARY OF DIAMOND DRILLING (to 1979)

GL04259

NEW HOLE DESIGNATION	OLD HOLE DESIGNATION	LOCATION	COORDINATES	DATE COLLARED (DRILLED BY)	COLLAR ELEVATION(m)	DEPTH(m)	DEPTH OF OVERBURDEN(m)	MAXIMUM TEMPERATURE(°C)	BIT GRADIENT AT BOTTOM (°C/km)	COMMENTS
n.a.	301-1	Meager Creek hot springs	5,602,540N 467,160E	March 74 (EMR)	587	45	18	60	n.a.	- hole inclined at -70° - making water at 6 l/s - temperature inversion, -ve gradient at bottom
n.a.	301-2	Meager Creek hot springs	5,602,640N 467,200E	March 74 (EMR)	583	118	0	33	44	- making water at 1.7 l/s
n.a.	303-1	Lillooet Valley	5,608,510N 471,970E	Sept 77 (EMR)	580	213	0	15.5	48	- making water at less than 1 l/s
M1-74D	74-H-1	South Reservoir Outflow Plume	5,601,440N 466,350E	Nov 74 (B.C. Hydro)	635	347	124	68.9	27.7	- making water at 3 l/s - temperature inversion in overburden section
M2-75D	75-H-1	South Reservoir	5,601,610N 465,200E	Sept 75 (B.C. Hydro)	774	91	11	15.4	112	- making water at 0.3 l/s
M3-75D	75-H-2	South Reservoir	5,601,200N 464,015E	Sept 75 (B.C. Hydro)	770	87	65	35.0	365	
M4-75D	75-H-3	South Reservoir	5,601,770N 463,000E	Sept 75 (B.C. Hydro)	808	60	12	20.8	289	- inclined at -70°
L1-78D	78-H-1	North Lillooet Valley	5,614,630N 463,090E	Sept 78 (Joint Venture)	760	603	47	102.8	211	- temperature inversion between 387 and 450m
M5-78D	78-H-2	South Reservoir	5,601,310N 463,160E	Oct 78 (Joint Venture)	822	250	250	103.7	n.a.	- temperature inversion in bottom section
M6-79D	79-II-1	South Reservoir	5,602,280N 464,280E	July 79 (B.C. Hydro)	885	321	15.6	140.8	n.a.	- temperature inversion in mid section - near isothermal in bottom section
M7-79D	79-H-2	South Reservoir	5,601,850N 463,060E	Oct 79 (B.C. Hydro)	900	367	26	202.2	225	- gradient inflection near 300m.
M8-79D	79-H-3	South Reservoir	5,601,870N 461,630E	Nov 79 (B.C. Hydro)	875	290.4	10	26.8	156	- extension planned for 1980

Summary of geochemical data all Qd 1-200

	Maximum	Minimum	Mean	standard deviation
Na	29,100	1,030	23,090	4,642
K	31,900	2,460	8,045	4,522
Ca	24,900	5,210	43,320	8,125
Mg	22,300	1,510	9,373	2,173
Fe	62,300	6,450	39,650	5,572
Al	114,000	44,000	92,820	10,380
Ti	4,140	335	2,587	417
P	1,530	44	868	759
Sc	1,600	147	699	720
Be	2,030	135	559	241
Cr				
Mn	23,100	459	1,220	1,766
Co	101	6	41	13
Ni				
Cu				
Pb				
Zn	21,500	24	120	1,516
Li	218	3	9	4
B	1,87	.67	1.11	.13
Zr				
La				
Ce				
As*				
Hg				

PROJECT: Meager Creek 9, 10, 13

Operator: Bakke

ppb Hg Data

Date: 9/81

(1)

Input
10/15/81
BKM

	Sample #	ppb		Sample #	ppb		Sample #	ppb	
1	1010	5	M-9	500	(25R) 25	M-10	1000	<5	M-10
2	1013	5		520	<5		1020	<5	
3	1050	5		540	<5		1040	<5	
4	1070	35		560	<5		1060	<5	
5	1090	(65R) 65		580	<5		40	20	M-13
6	1110	(<5R) <5		600	<5		60	20	
7	1130	5		620	<5		80	60	
8	140	<5	M-10	640	5		100	(140R) 190	
9	160	<5		660	<5		120	20	
10	180	<5		680	<5		140	10	
11	200	<5		700	<5		160	10	
12	220	<5		720	<5		180	5	
13	240	<5		740	<5		200	10	
14	260	<5		760	<5		220	(400R) 470	
15	280	25		780	40		240	30	
16	300	<5		800	5		260	5	
17	320	<5		820	<5		280	40	
18	340	<5		840	(800R) 750		300	5	
19	360	65		860	95		320	(280R) 260	
20	380	<5		880	(90R) 90		340	10	
21	400	<5		900	15		360	1000	
22	420	<5		920	(130R) 140		380	30	
23	440	<5		940	10		400	10	
24	460	<5		960	<5		420	10	
25	480	<5		980	30		440	10	

PROJECT: Meager Creek 7,8,9,12
PPB Hg Data

Operator: DAK
Date: 9/8/81

9/29/81
compiled
into
file

(1)

	Sample #	ppb		Sample #	ppb		Sample #	ppb	
1	40	<5	M-7	300	5	M-7	200	5	M-8
2	50	(25)R <5		310	10		210	<5	
3	60	<5		320	<5		220	<5	
4	70	<5		330	20		230	<5	
5	80	<5		340	<5		240	<5	
6	90	<5		350	<5		250	<5	
7	110	<5		360	<5		260	<5	
8	120	20		20	5	M-8	270	<5	
9	130	<5		30	(45)R 40		280	<5	
10	140	<5		40	5		290	<5	
11	150	25		50	<5		300	<5	
12	160	10		60	<5		310	<5	
13	170	(10)R 15		70	<5		320	<5	
14	180	150		80	<5		330	<5	
15	190	5		90	<5		340	<5	
16	200	<5		100	<5		350	<5	
17	210	<5		110	<5		360	<5	
18	220	10		120	<5		370	<5	
19	230	(25)R 30		130	10		380	<5	
20	240	10		140	<5		390	<5	
21	250	<5		150	<5		400	<5	
22	260	<5		160	(10)R 10		410	(150)R 140	
23	270	<5		170	<5		420	<5	
24	280	<5		180	<5		430	<5	
25	290	<5		190	<5		440	<5	

PROJECT: Meager Creek 7,8,9,12
ppb Hg Data

Operator: Bakke
Date: 9/15/81

(2)

	Sample #	ppb		Sample #	ppb		Sample #	ppb	
1	450	<5	M-8	530	5	M-9	30	5	M-12
2	460	<5		550	<5		40	5	
3	470	<5		570	<5		50	<5	
4	480	<5		590	<5		60	(10 R) 10	
5	490	<5		610	(500 R) 550		70	10	
6	130	<5	M-9	630	5		80	<5	
7	150	<5		650	<5		90	<5	
8	170	<5		670	<5		100	5	
9	190	<5		690	<5		110	<5	
10	210	<5		710	<5		120	<5	
11	230	(75 R) 80		730	5		130	<5	
12	250	<5		750	<5		140	5	
13	270	<5		770	<5		150	10	
14	290	(10 R) 10		790	<5		160	<5	
15	310	<5		810	<5		170	<5	
16	330	<5		830	<5		180	25	
17	350	<5		850	<5		190	5	
18	370	<5		870	<5		200	<5	
19	390	<5		890	<5		210	5	
20	410	<5		910	<5		220	<5	
21	430	<5		930	<5		230	<5	
22	450	<5		950	<5		240	20	
23	470	5		970	<5		250	<5	
24	490	<5		990	<5		260	10	
25	510	<5		20	10	M-12	270	(10 R) 5	

FOR SELECTED INTERVALS

Subfile 2 (M7)
4 intervals

2-9
12-12
17-19
22-33

Subfile 4 (M12)
4 intervals

2-18
21-32
36-54
57-60

Subfile 5 (M9)
7 intervals

2-18
20-21
24-24
26-33
35-35
37-45
47-49

Subfile 6 (M8)
2 intervals

36-40
42-49

Subfile 7 (M10)
6 intervals

2-9
11-13
20-23
25-30
32-33
35-36

MEAGER-CREEK

Subfile 8 (M13)

5 intervals

2-4
6-13
15-21
24-24
27-28

#	sq ft	sq ft	Qd	Pos	av	high No	low No	#	Sept	Qd	high No	av	high No	low No
#7	330	15	+						220	11	+			
	410	16	+						240	12	+			
	430	17	+						260	13	+			
#19	450	18	+						280	14	?			-
	470	19	-				-		300	15	?			-
	490	20	+						320	16	?			-
	510	21	+						340	17	?			-
	530	22	-				-		360	18		?		-
	550	23	-				-		380	19		?		-
	570	24	+						400	20	+			
	590	25	-				-		420	21	+			
	610	26	+						440	22	+			
	630	27	+						460	23	+			
	650	28	+						480	24	?			-
	670	29	+						500	25	+			
	690	30	+						520	26	+			
	710	31	+						540	27	+			
	730	32	+						560	28	+			
	750	33	+						580	29	+			
	770	34	-				-		600	30	+			
	790	35	+						620	31	?			-
	810	36	-				-		640	32	+			
	830	37	+						660	33	+			
	850	38	+						680	34	?			-
	870	39	+						700	35	+			
	890	40	+						720	36	+			
	910	41	+						740	37	?			-
	930	42	+						760	38	?			-
	950	43	+						780	39	?			-
	970	44	+						800	40		?		-
	990	45	+						820	41	?			-
	1010	46					-		840	42	?			-
	1030	47	+						860	43	?			-
	1050	48	+						880	44		?		-
	1070	49	+						900	45		?		-
	1090	50	-				-		920	46		?		-
	1110	51	-				-		940	47	?			-
	1130	52	-				-		960	48		?		-
	0	1	x						980	49		?		-
	30-3015	2	+						1000	50		?		-
	50	3	+						1020	51		?		-
	70	4	+						1040	52	?			-
	90	5	+						1060	53		?		-
	110	6	+											
	130	7	+											
	150	8	+											
	170	9	+											
	190	10	?				-							

pg

#10

#	0.4 th	0.5	Qd	POC	QV	high No	low No	level	#	Sept	Q	and	high	low	
0	1								160	16					
40-40.5	2	+							170	17					} gneiss & migmatite
50	3	+						180	18						
60	4	+						190	19						
70	5	+						200	20						
80	6	+						210	21	?					
90	7	+						220	22	?					
100	8	+						230	23						} gneiss & migmatite
110	9	+						240	24						
120	10	⊖						250	25						} gneiss & migmatite
130	11	⊖						260	26						
140	12	+						270	27						} gneiss & migmatite
150	13	⊖						280	28						
160	14	⊖						290	29						} gneiss & migmatite
170	15	?						300	30						
180	16	⊖						310	31						} gneiss & migmatite
190	17	+						320	32						
200	18	+						330	33						} gneiss & migmatite
210	19	+						340	34						
220	20							350	35						} gneiss & migmatite
230	21	⊖						360	36	+					
240	22	+						370	37	+					} gneiss & migmatite
250	23	+						380	38	+					
260	24	+						390	39	+					} gneiss & migmatite
270	25	+						400	40	+					
280	26	+						410	41	?					} gneiss & migmatite
290	27	+						420	42	+					
300	28	+						430	43	+					} gneiss & migmatite
310	29	+						440	44	+					
320	30	+						450	45	+					} gneiss & migmatite
330	31	+						460	46	+					
340	32	+						470	47	+					} gneiss & migmatite
350	33	+						480	48	+					
0	1							490	49	+					} gneiss & migmatite
20-20.5	2							0	1	+					
30	3	?						130-130.5	2	+					} gneiss & migmatite
40	4	?						150	3	+					
50	5							170	4	+					} gneiss & migmatite
60	6							190	5	+					
70	7							210	6	+					} gneiss & migmatite
80	8							230	7	+					
90	9							250	8	+					} gneiss & migmatite
100	10							270	9	+					
110	11							290	10	+					} gneiss & migmatite
120	12							310	11	+					
130	13							330	12	+					} gneiss & migmatite
140	14							350	13	+					
150	15							370	14	+					

47

48

47

48

49

#	Seq M	QD	POS	QNT	High M	Low M	#	Seq M	QD	POS	QNT	High M	Low M
	0	1	X					200	20				
	40-40.5	2	+					210	21	+			
	60	3	+					220	22	+			
	80	4	+					230	23	+			
	100	5	?			-		240	24	+			
	120	6	+					250	25	+			
	140	7	+					260	26	+			
	160	8	+					270	27	+			
	180	9	+					280	28	+			
	200	10	+					290	29	+			
	220	11	+					300	30	+			
	240	12	+					310	31	+			
	260	13	+					320	32	+			
	280	14	?			-		330	33				
	300	15	+					340	34	+			
	320	16	+					350	35	+			
	340	17	+					360	36	+			
	360	18	+					370	37	+			
	380	19	+					380	38	+			
	400	20	+					390	39	+			
	420	21	+					400	40	+			
	440	22		?		-		410	41	+			
	460	23			?	-		420	42	+			
	480	24	+					430	43	+			
	500	25		?		-		440	44	+			
	520	26		?		-		450	45	+			
	540	27	+					460	46	+			
	560	28	+					470	47	+			
	580	29		?		-		480	48	+			
	0	1	X					490	49	+			
	20.0-20.5	2	+					500	50	+			
	30	3	+					510	51	+			
	40	4	+					520	52	+			
	50	5	+					530	53	+			
	60	6	+					540	54	+			
	70	7	+					550	55				
	80	8	+					560	56				
	90	9	+					570	57	+			
	100	10	+					580	58	+			
	110	11	+					590	59	+			
	120	12	+					600	60	+			
	130	13	+										
	140	14	+										
	150	15	+										
	160	16	+										
	170	17	+										
	180	18	+										
	190	19				-							

#13

#19

180
+ 90
270

15	Cr	2	✓
18	Ni	5	✓
19	Cu	5	✓
21	Pb	10	✓
34	Zr	5	✓
37	La	5	✓
38	Ce	10	✓
41	As*	1	✓
40	Hg	5	✓

Selected interval Meager - 2

Well #	supfile	Fall Ad	Free Ad	# 9 270-1
SV-7	2	5 2-9 40-110 12-12 140 15-15 170 17-20 190-220 22-33 240-350	3 19-19 210 24-26 260-280 32-32 340	
SV-12	4	4 2-18 20-120 21-32 240-320 34-54 340-540 56-60 560-600	9 5-5 50 50-51 8-8 80 59-6 10-10 100 12-12 120 16-16 160 36-36 360 46-46 460	
SV-9	5	5 2-18 120-450 20-21 450-570 24-33 570-750 35-35 750 37-45 820-950	9 66 210 40-41 820-510 43-45 950-520 9-12 220-450 20-21 450-570 24-24 570-570 27-27 620 31-31 710 37-38 820-950	9-12 1
SV-8	6	2 36-46 360-380 48-48 480	1 36-38 360-380	
SV-10	7	6 2-9 30-120 11-11 220 13-13 260 17-37 340-740 42-42 840 44-53 880-1060	4 2-2 30 26-26 620 35-36 700-720 49-50 980-1000	
SV-13	8	2 2-25 40-500 27-28 540-560	2 13-13 260 24-24 480	

10/19 31

① Selected in pepals

Meager Creek 3

sub	fresh N-111	altered N-29	#12 fresh N-48
6 #8	2 ✓ 36-38 ✓ 43-43	3 ✓ 39-42 ✓ 44-46 ✓ 48-48	
8 #13	6 ✓ 9-10 ✓ 13-13 ✓ 17-17 ✓ 20-20 ✓ 24-24 ✓ 27-27	7 ✓ 2-8 ✓ 11-12 ✓ 14-16 ✓ 18-19 ✓ 21-23 ✓ 25-25 ✓ 28-28	
2 #7	6 ✓ 2-7 ✓ 17-19 ✓ 22-22 ✓ 24-26 ✓ 30-30 ✓ 32-33	7 ✓ 8-9 ✓ 12-12 ✓ 15-15 ✓ 20-20 ✓ 23-23 ✓ 27-29 ✓ 31-31	
7 #10	7 ✓ 13-13 ✓ 20-20 ✓ 22-23 ✓ 26-28 ✓ 35-35 ✓ 52-52	10 ✓ 3-9 ✓ 11-11 ✓ 17-19 ✓ 21-21 ✓ 24-25	✓ 29-34 ✓ 36-37 ✓ 42-42 ✓ 44-51 ✓ 53-53
5 #9	9 ✓ 3-3 ✓ 6-6 ✓ 8-18 ✓ 20-21 ✓ 24-24 ✓ 27-27 ✓ 31-32 ✓ 37-41 ✓ 43-45	8 ✓ 2-2 ✓ 4-5 ✓ 7-7 ✓ 25-26 ✓ 28-30	✓ 33-33 ✓ 35-35 ✓ 42-42
4 #12	7 ✓ 2-8 ✓ 10-17 ✓ 21-23 ✓ 26-32 ✓ 37-41 ✓ 43-54 ✓ 58-60	5 ✓ 9-9 ✓ 18-18 ✓ 24-25 ✓ 42-42 ✓ 56-57	7 ✓ 2-8 ✓ 10-17 ✓ 21-23 ✓ 26-32 ✓ 37-41 ✓ 43-54 ✓ 58-60

Selected intervals

I Fresh dacite

sbf 2 (1) 12-12

sbf 5 (4) 19-19
22-23
34-34
36-36

2, 3, 4, 5, 6, 8, 10

11, 12, 13, 15, 16, 17, 18, 19

21, 22, 24, 25, 31, 33, 34

40, 41

~~altered dacite~~

~~sbf 5 (1) 50-50~~

~~# 9 1090~~

mean
s.d.

II Porphyry fresh

sbf 2 (2) 9-10
13-13

~~Porphyry altered~~

~~sbf 2 (1) 15-15~~

~~# 7 120~~

V andesite fresh (11)

sbf 4 (3) 19-20
33-33
55-55

III sbf 5 (1) 46-46

sbf 7 (3) 10-10
12-12
15-16

sbf 8 (2) 26-26
29-29

not done
for 22, 24, 25, 31, 33, 34

andesite fresh (4)

IV sbf 4 (3) 19-20
33-33
55-55

$\sum_{i=1}^n x_i$
 $\sum_{i=1}^n x_i^2$

~~andesite/altered (2)~~

~~V sbf 7 (2) 14-14
43-43 not andesite~~

VI andesite altered (9)

sbf 5 (1) 46-46

sbf 7 (4) 10-10
12-12
14-16
43-43

sbf 8 (2) 26-26
29-29

MCG-2

- ✓ 100 M ✓
- ✓ 280 M ✓
- ✓ 350 M ✓
- ✓ 550 M ✓
- ✓ 750 M ✓
- ✓ 810 M ✓
- ✓ 950 M ✓
- ✓ 1140 M ✓
- ✓ 1190 M ✓
- ✓ 1250 M ✓
- ✓ 1380 M ✓
- ✓ 1450 M ✓
- ✓ 1600 M ✓
- ✓ 1680 M ✓
- ✓ 1800 M ✓
- ✓ 1850 M ✓
- ✓ 1900 M ✓
- ✓ 2020 M ✓
- ✓ 2070 M ✓
- ✓ 2130 M ✓
- ✓ 2300 M ✓
- ✓ 2500 M ✓
- ✓ 2630 M ✓
- ✓ 2700 M ✓
- ✓ 2750 M ✓
- ✓ 2800 M ✓
- ✓ 2850 M ✓
- ✓ 2900 M ✓
- ✓ 2950 M ✓ split

XRAY and
Thin Section
Splits for
Mike Adams
6/6/84

MCG-3

- ✓ 1250 M ✓ split
- ✓ 1300 M ✓
- ✓ 1325 M ✓
- ✓ 1350 M ✓
- ✓ 1375 M ✓
- ✓ 1400 M ✓
- ✓ 1425 M ✓
- ✓ 1450 M ✓
- ✓ 1475 M ✓
- ✓ 1500 M ✓
- ✓ 1550 M ✓
- ✓ 2650 M ✓
- ✓ 2700 M ✓
- ✓ 2725 M ✓
- ✓ 2750 M ✓
- ✓ 2775 M ✓
- ✓ 2850 M ✓
- ✓ 2875 M ✓
- ✓ 2900 M ✓
- ✓ 2950 M ✓