



Bergvesenet

Postboks 3021, 7002 Trondheim

Rapportarkivet

Bergvesenet rapport nr BV 808	Intern Journal nr	Internt arkiv nr	Rapport lokalisering Trondheim	Gradering Fortrolig
Kommer fra ..arkiv Østlandske	Ekstern rapport nr	Oversendt fra	Fortrolig pga Utmål	Fortrolig fra dato:
Tittel Rapport over niobforekomstene på Søve ved Ulefoss. Bind II				
Forfatter H Bjørlykke		Dato 11.11 1952	Bedrift Norsk Bergverk a.s.	
Kommune Nome	Fylke Telemark	Bergdistrikt Østlandske	1: 50 000 kartblad 17134	1: 250 000 kartblad Skien
Fagområde Geologi geokjemi malmberegning	Dokument type Rapport	Forekomster Cappelen Hydrogangen Filadelfia Søve Tufte Fen jerngruver		
Råstofftype Malm/metall Industrimineral	Emneord Nb apatitt			
Sammendrag Omfattende rapport med luftfotografier og gode kart/profiler i to bind. Bind I: BV 807. Bind II: BV 808.				















Tufte deposit

Hydro deposit

Cappelen deposit



Fenit



Alkalistilatbergarter (Alkaline rocks)



Damtjernit



Sövit



Rauhaugit



Rödberg (red rock)

KART
over
SØVITT - FELTET

ULEFOSS

M. = 1:5000

Ekv. 5 m.

The Fen Region
COLUMBIUM OCCURRENCE

near Ulefoss, Southern Norway

(Map showing outcrops)



NORDS JØ

(15,18 m.)

(PLATE II)
K. 12.

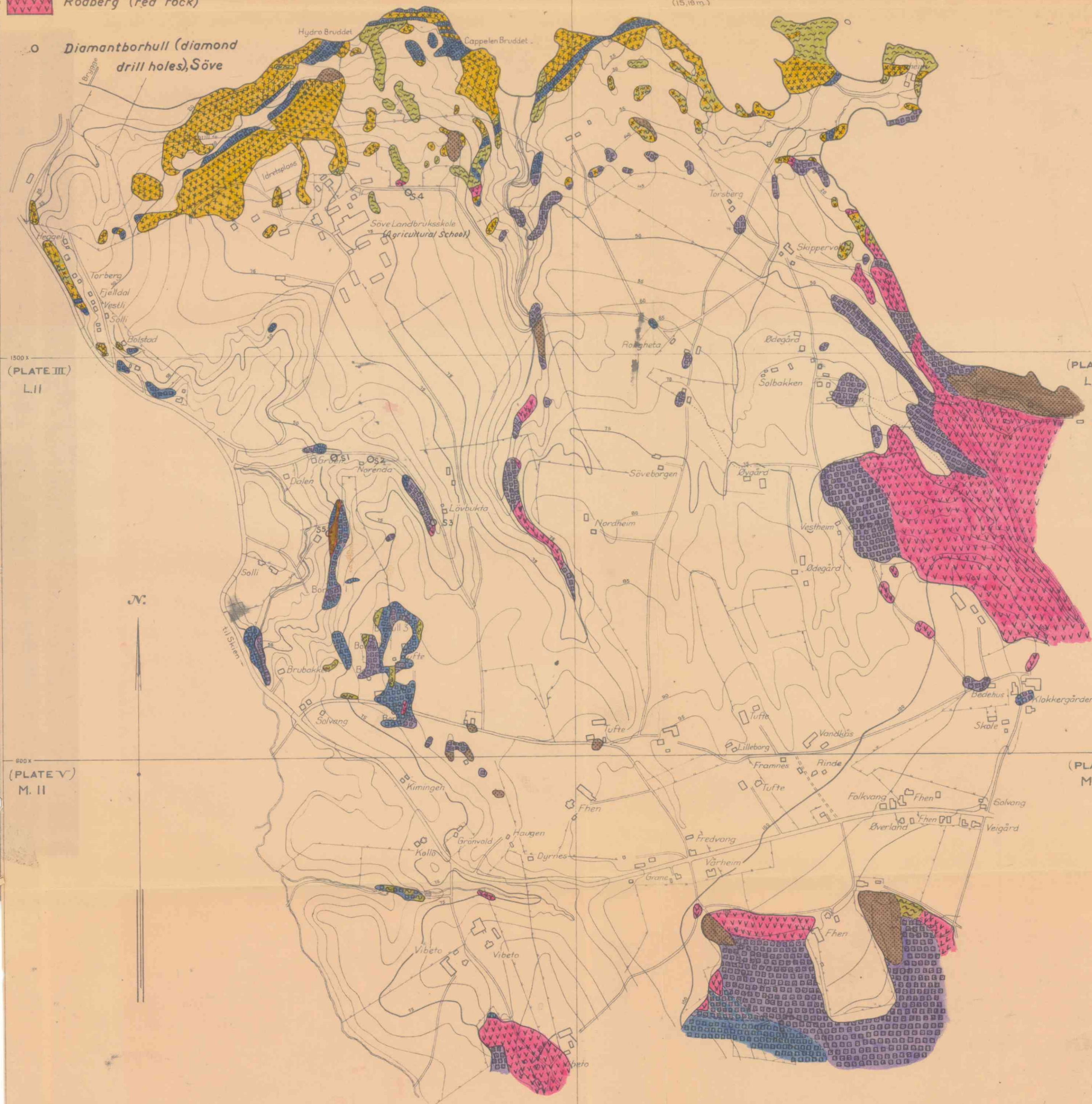
(PLATE IV)
L. 12

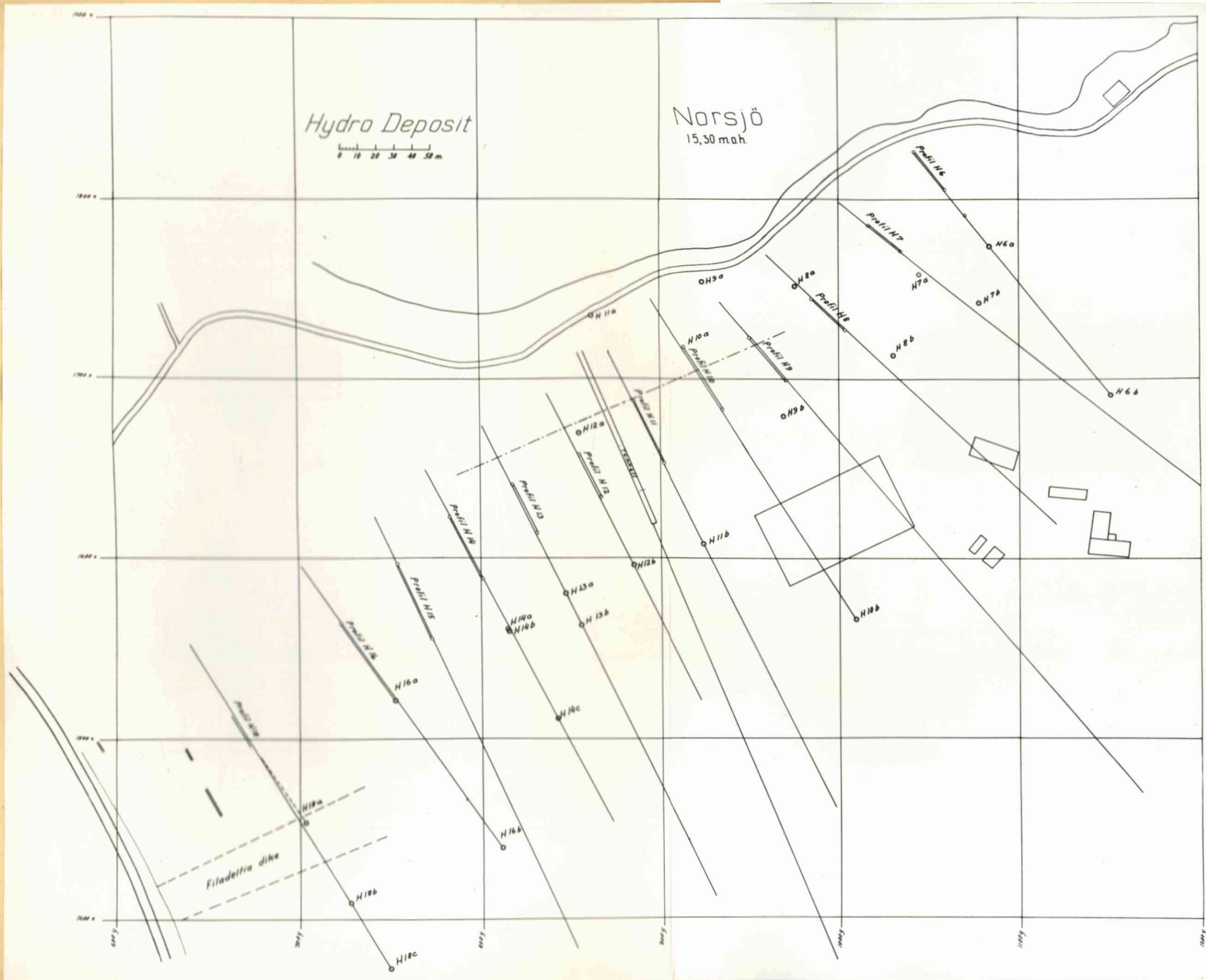
(PLATE VI)
M. 12.

Diamantborhull (diamond
drill holes), Söve

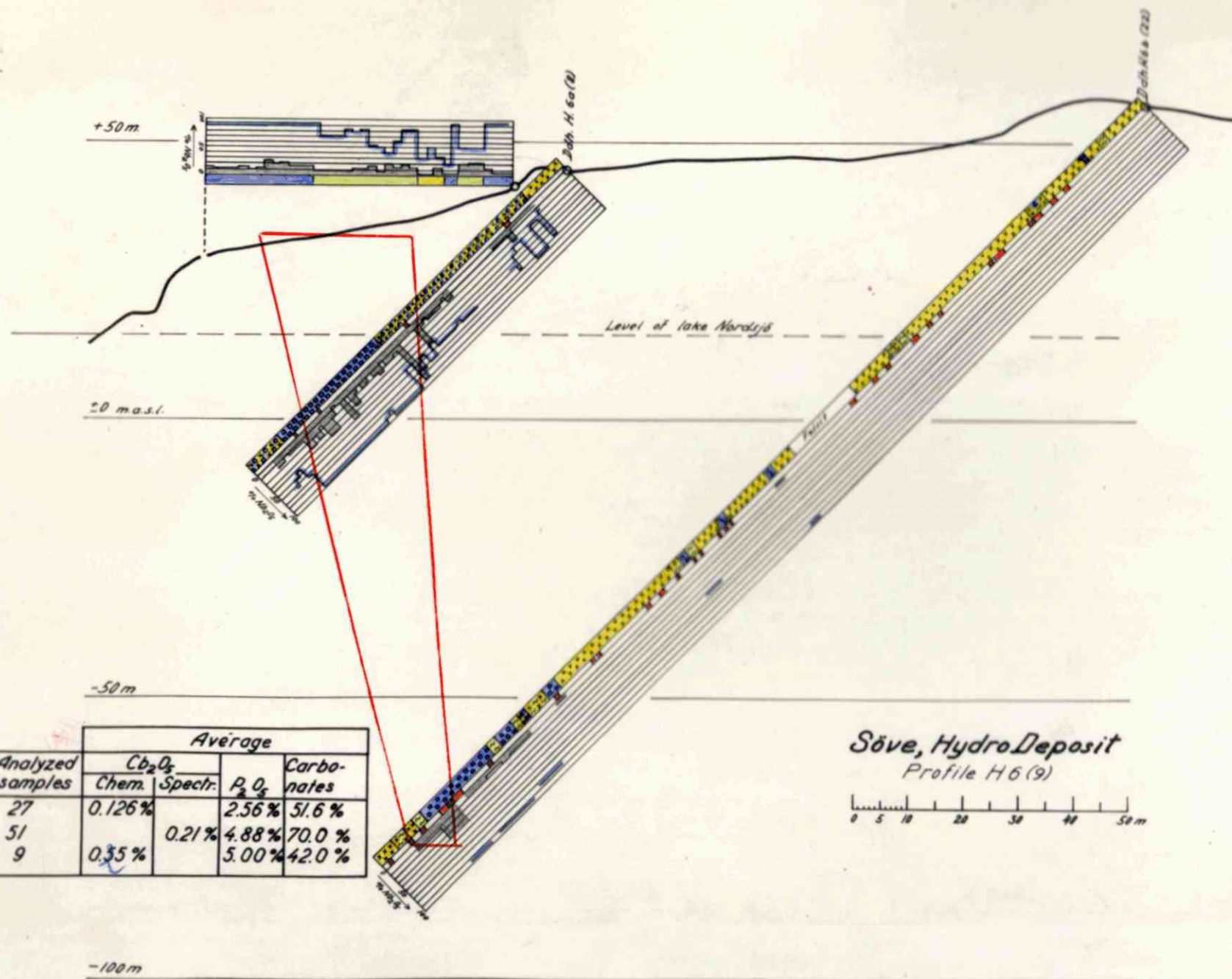
(PLATE III)
L. 11

(PLATE V)
M. 11



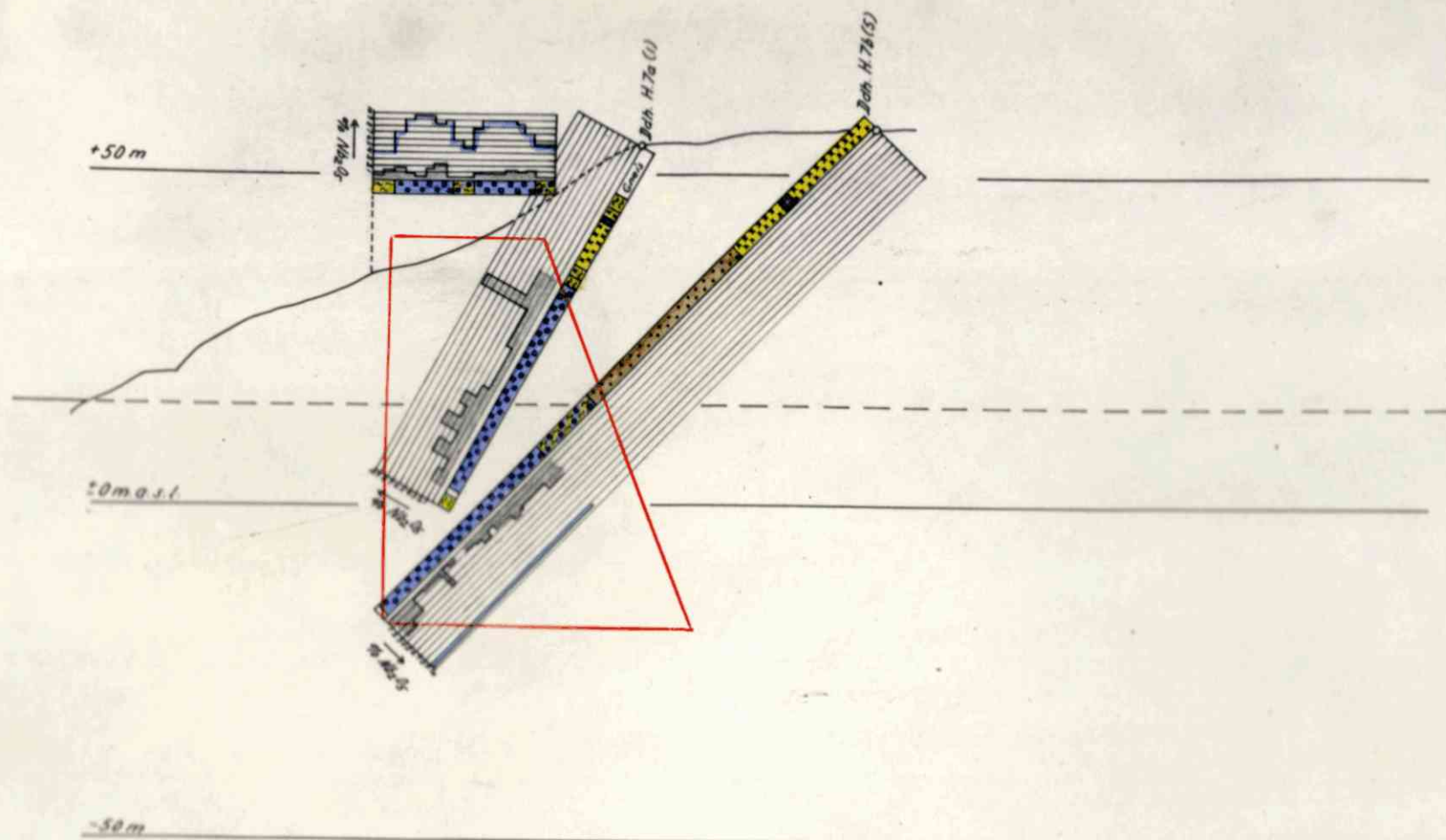


	Length of ore	Analyzed samples	Average			
			Cb ₂ O ₃		P ₂ O ₅	Carbonates
Trench H 6	40.5 m.	27	Chem.	Spectr.	2.56 %	51.6 %
Ddh. 6a (8)	30.0 m.	51		0.21 %	4.88 %	70.0 %
— 6b (22)	3.0 m.	9	0.35 %		5.00 %	42.0 %



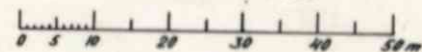
Söve, Hydro Deposit
Profile H 6 (9)

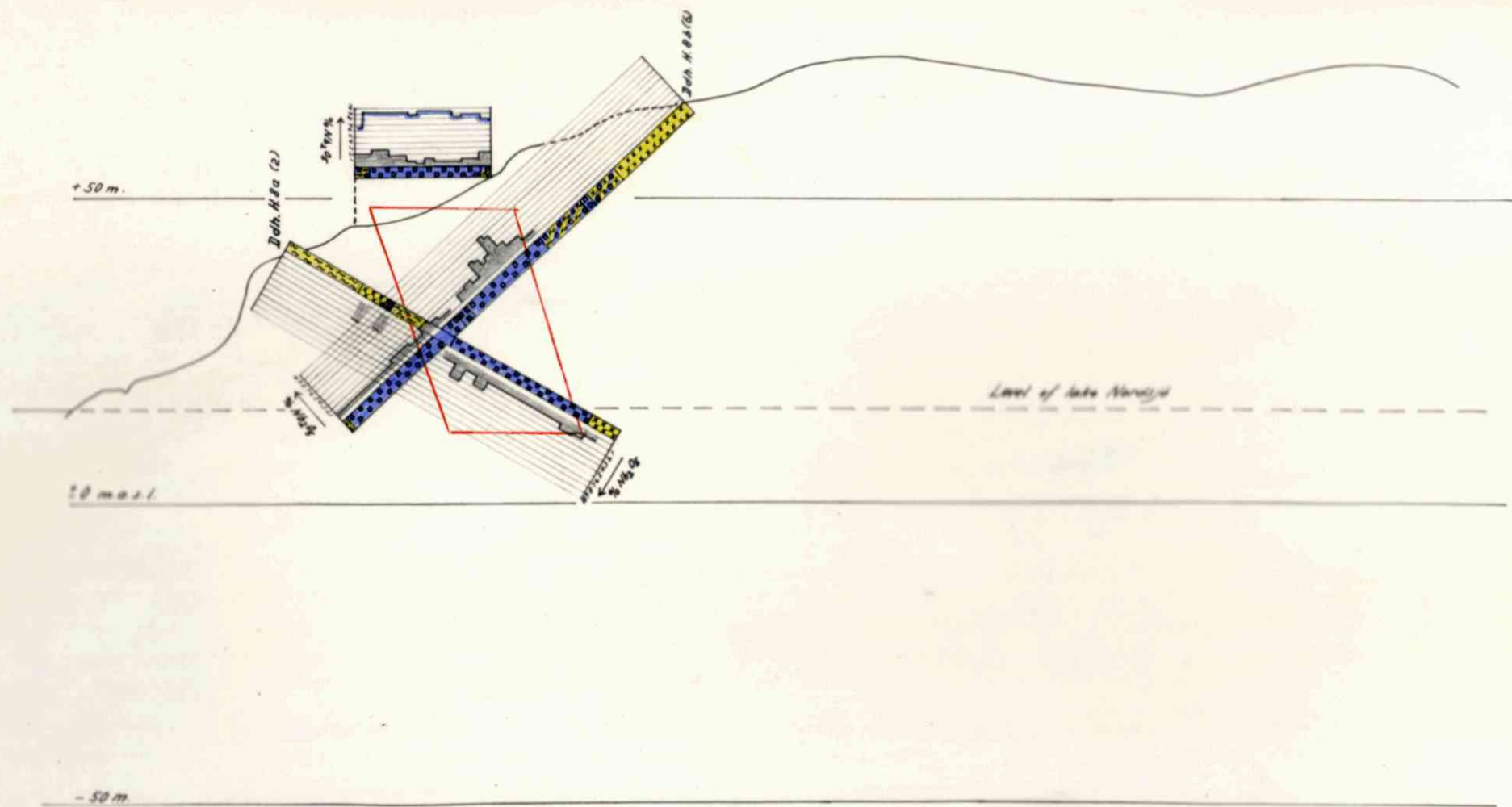
0 5 10 20 30 40 50 m



	Length of ore	Analyzed samples	Average			
			Cb ₂ O ₅		P ₂ O ₅	Carbo-nates
			Chem.	Spectr.		
Trench H7(2)	22.5 m.	15	0.108%		3.39%	48.3 %
Ddh. H7a (1)	35.0 m.	18		0.274%		
—H7b (5)	33.5 m.	23	0.153%	0.207%	3.07%	87.0 %

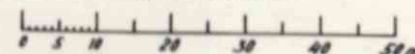
Söve, Hydro Deposit
Profile H. 7(2)





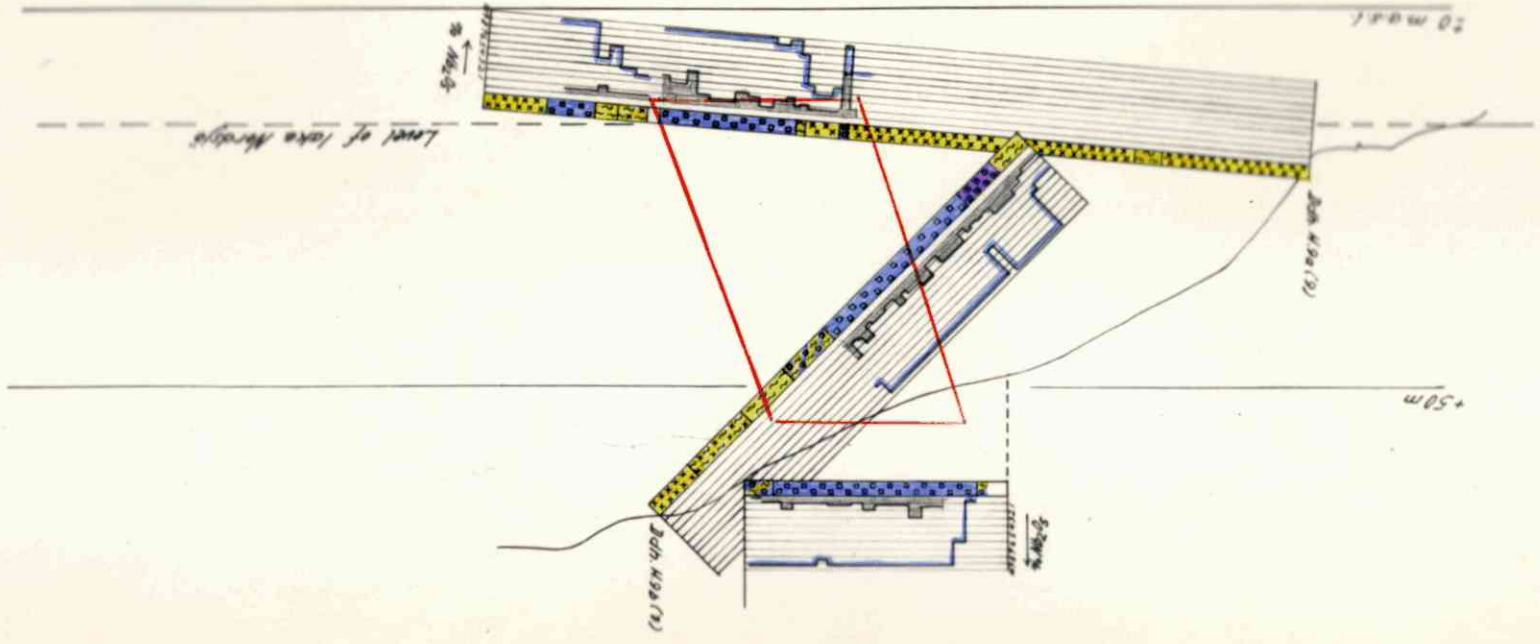
	Length of ore	Analyzed samples	Average			
			C _b O ₃		P ₂ O ₅	Carbonates
Trench H8 (4)	22.5 m.	15	Chem. 0.149%	Spectr.	2.50%	88.6 %
Dth. H8a (2)	26.0 m.	16	0.127%			
"-H8b (6)	22.4 m.	27	0.179%	0.308%	5.00 %	79.5 %

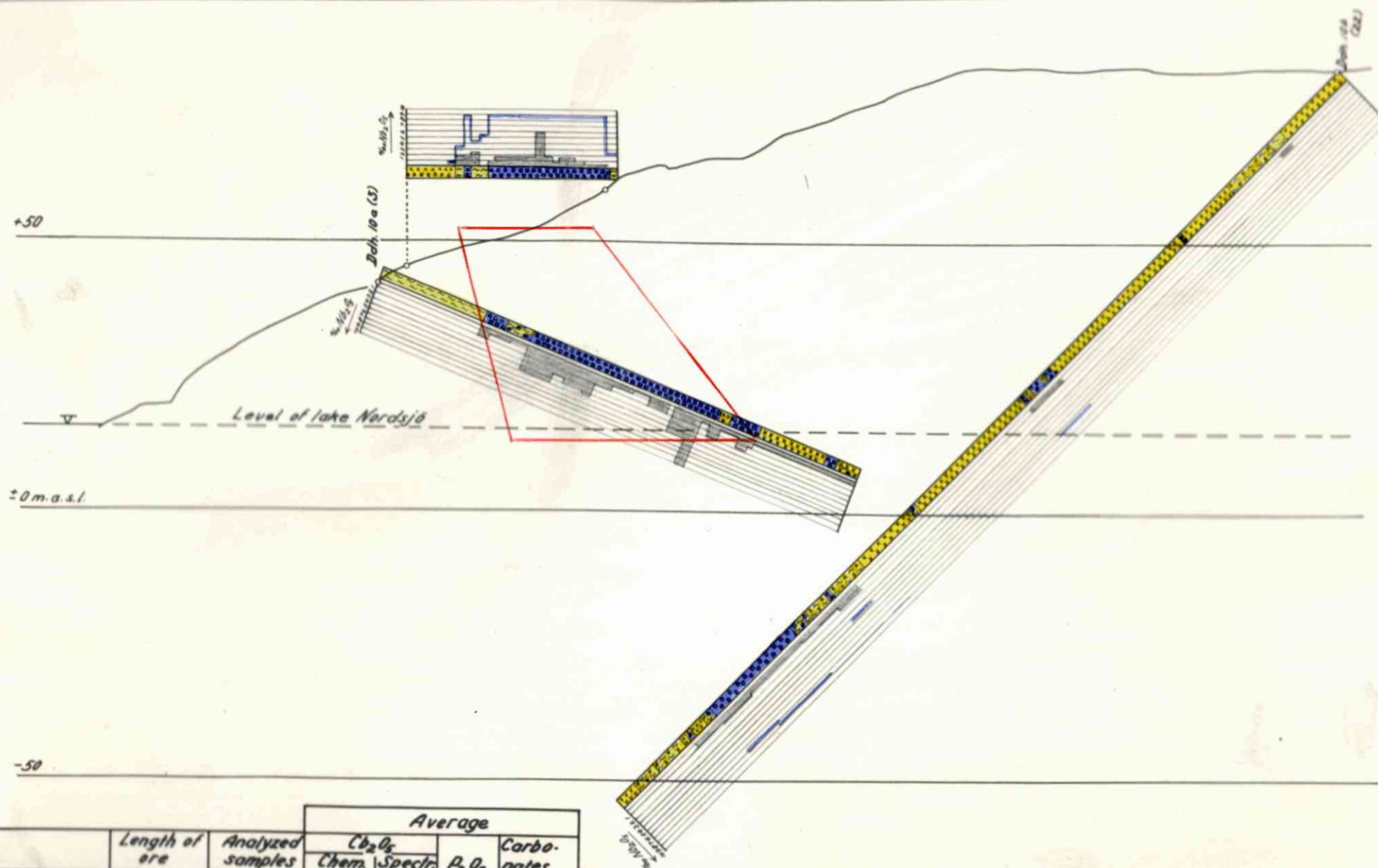
Söve, Hydro Deposit
Profile H8 (4)



Length of ore analyzed	Number of samples	Average		
		Chem. Spec.	P ₂ O ₅	Carbo. notes
Trench H9 (a)	16	0.136%	2.59%	53.5%
Dth. H9a (9)	27	0.15%	6.13%	81.0%
--H9b (7)	24	0.148%	4.21%	61.5%

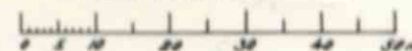
0 5 10 20 30 40 50 m
 Profile H9 (10)
 Sove, Hydro Deposit

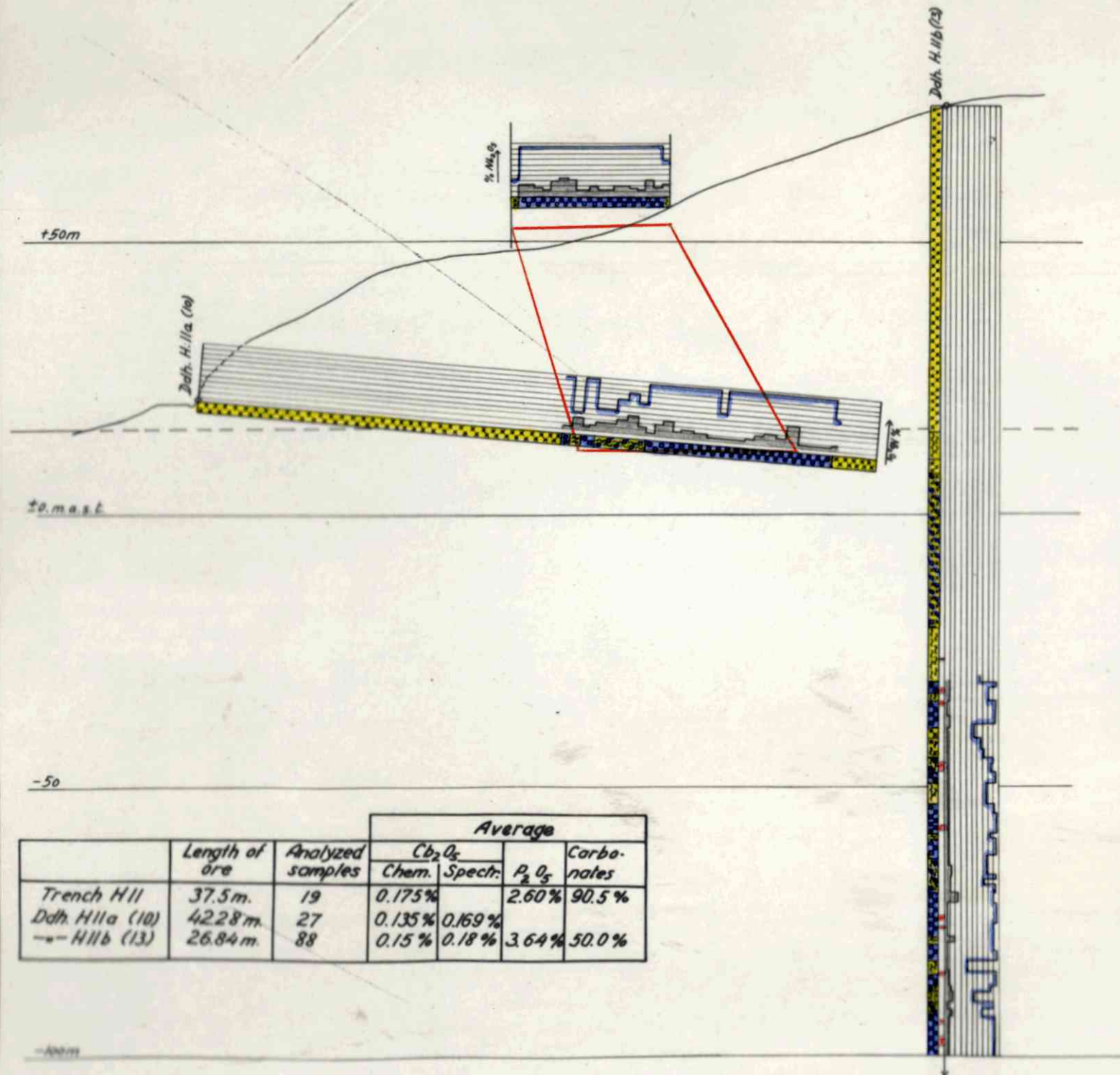




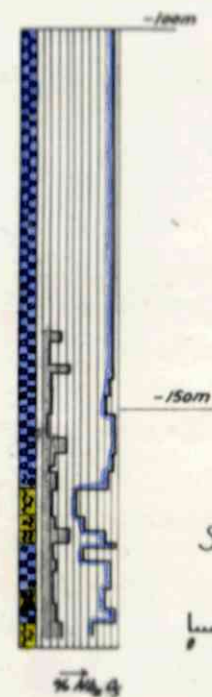
	Length of ore	Analyzed samples	Average		
			Chem.	Spectr.	Carbo-nates
Trench H10 (5)	22.5 m.	15	0.159%		80.8 %
Ddh. H10a (3)	56.0 m.	36	0.255%		
— H10b (24)	4.98 m.	7	0.15 %		48.2 %
				P ₂ O ₅	
				2.74%	
				4.10%	

Söve, Hydro Deposit
Profile H. 10 (5)



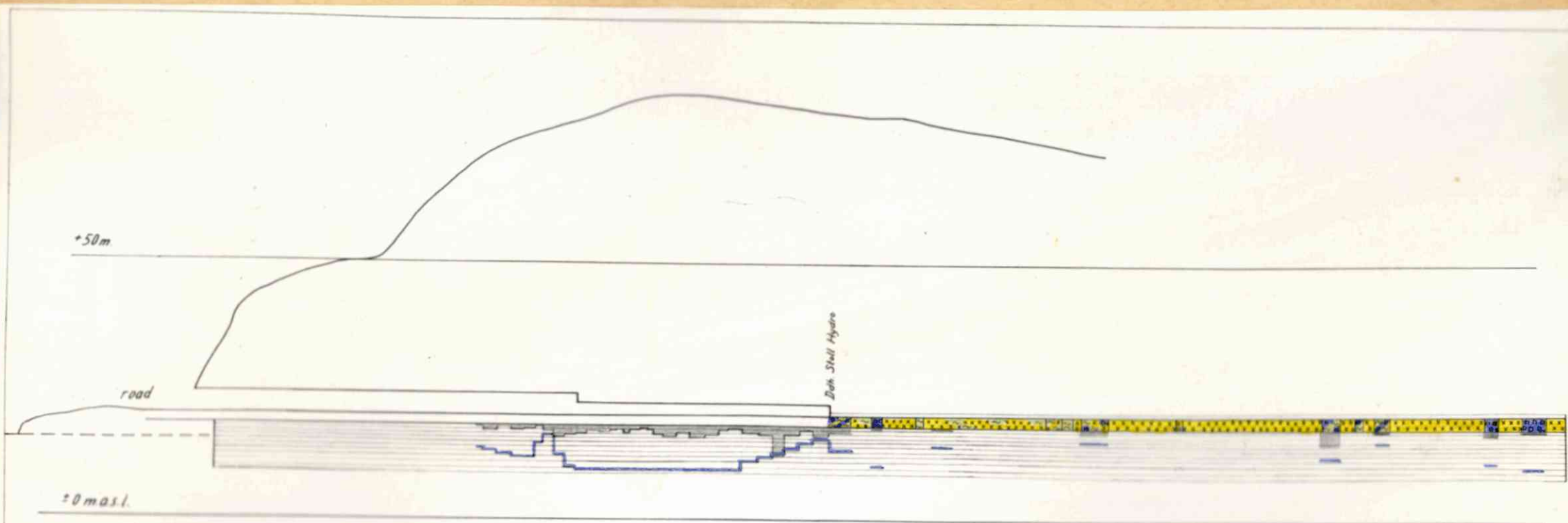


	Length of ore	Analyzed samples	Average			
			Cb ₂ O ₅		P ₂ O ₅	Carbo-nates
Trench HII	37.5m.	19	0.175%		2.60%	90.5%
Ddh. H.11a (10)	42.28m.	27	0.135%	0.169%		
— H.11b (13)	26.84m.	88	0.15%	0.18%	3.64%	50.0%



Söve, Hydro Deposit
Profile HII

0 5 10 20 30 40 50m



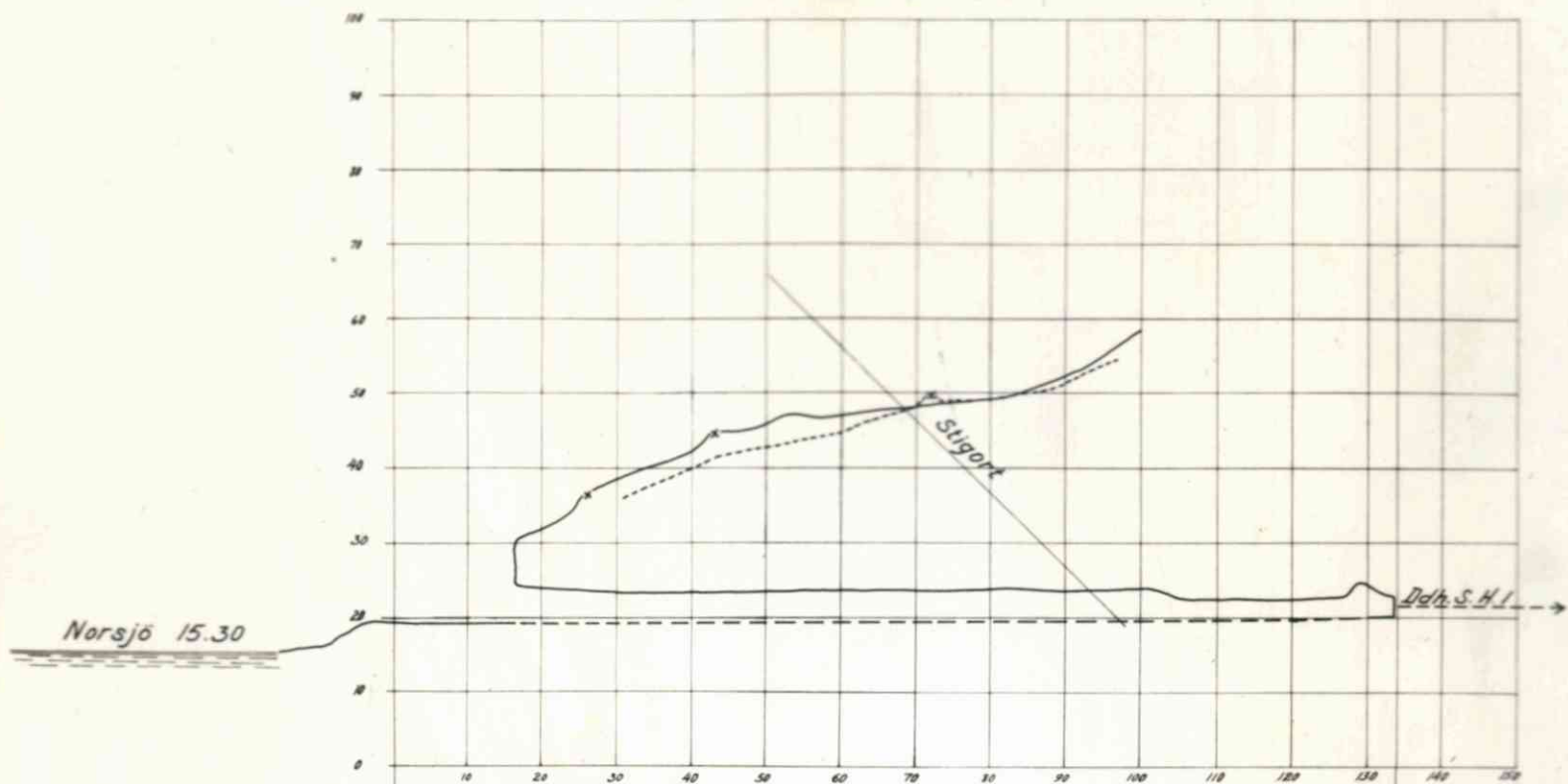
Hydro stoll		average		
Length of ore	Analysed samples	P ₂ O ₅	Nb ₂ O ₅	CaCO ₃
56.89 m.	33	2.96%	0.206%	63.8%

Söve, Hydro Deposit
Profile Grunnstoll

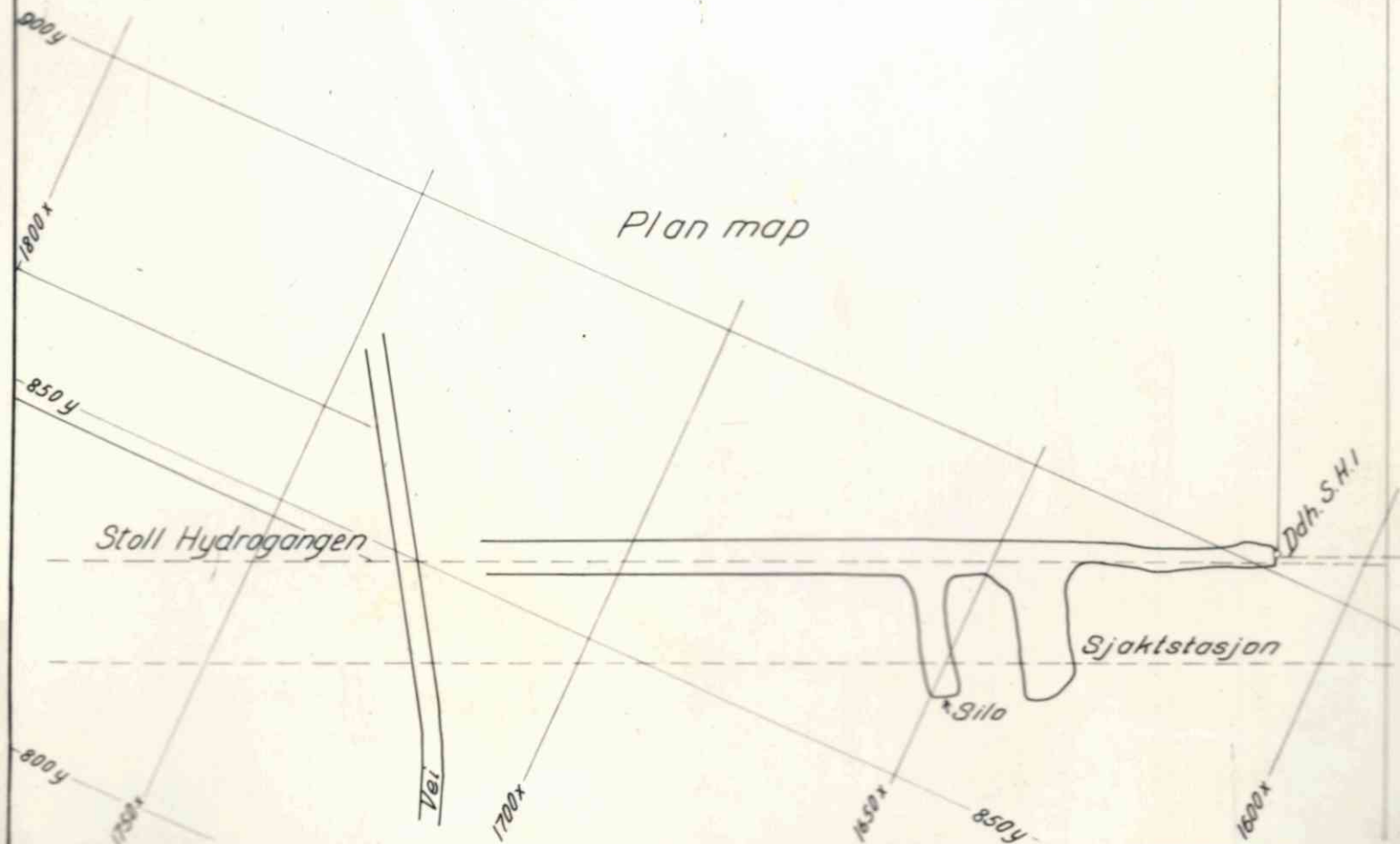
100 m

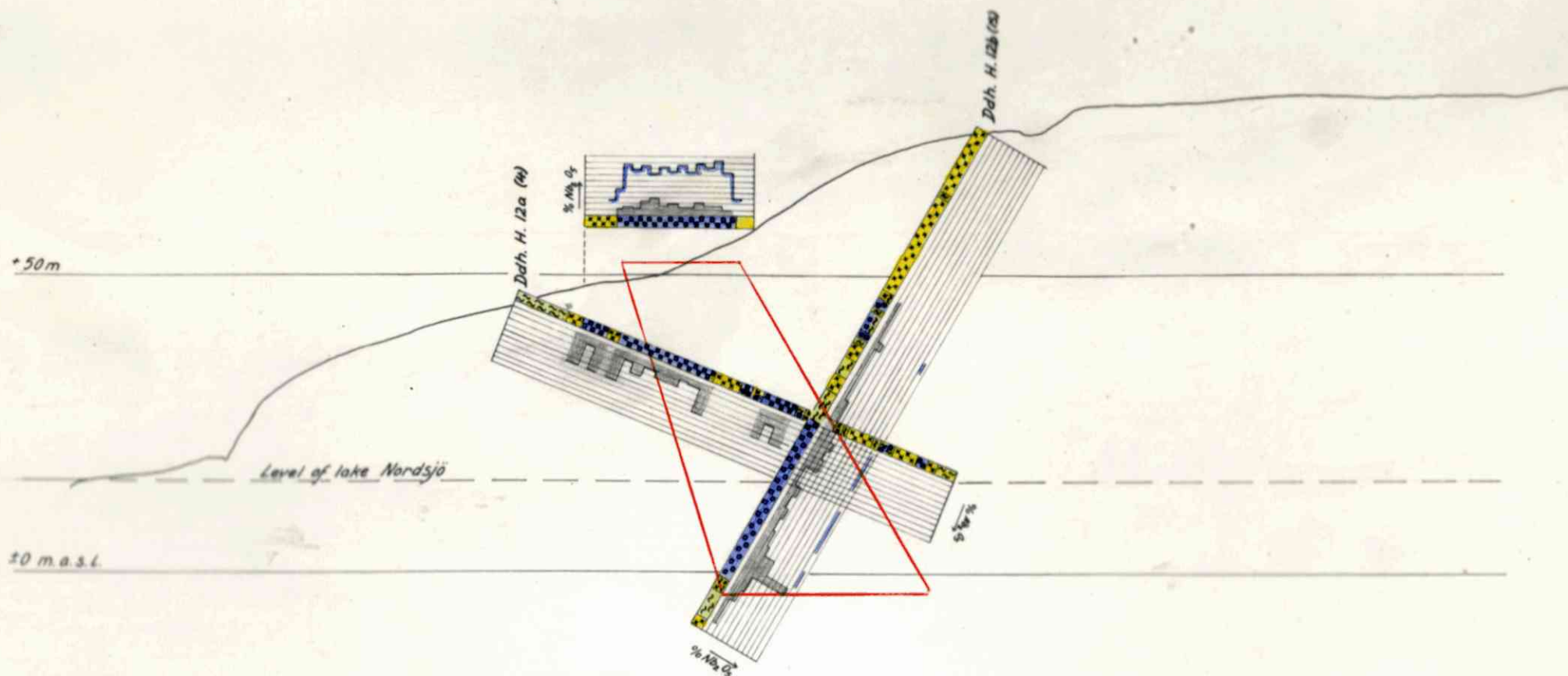
Hydra Tunnel

0 10 20 30 40 50 m



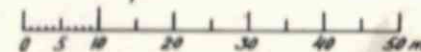
Plan map

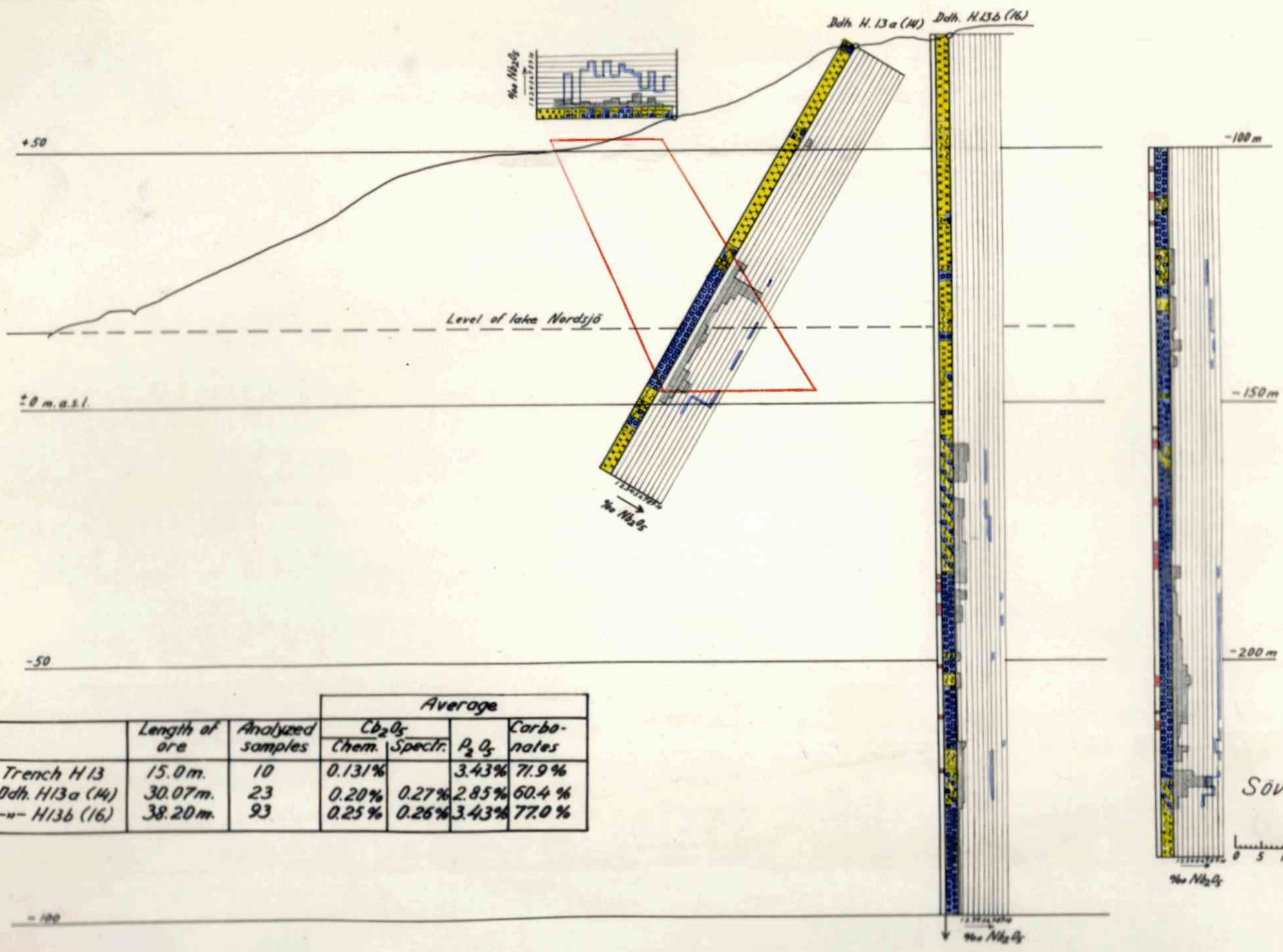




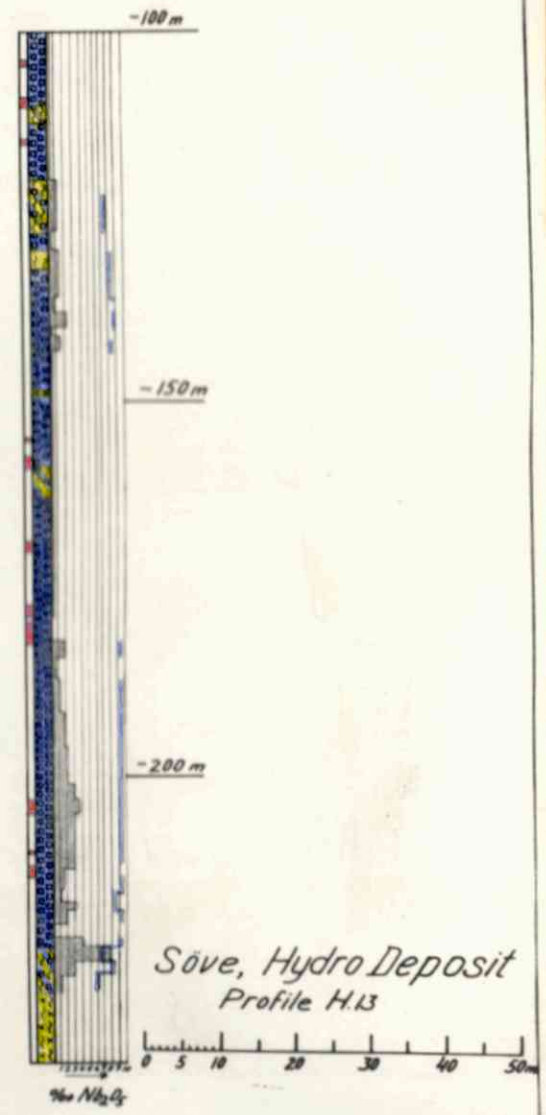
	Length of ore	Analyzed samples	Average			Carbo-nates
			Cb ₂ O ₃		P ₂ O ₅	
Trench H 12	18.0m.	12	Chem.	Spectr.	2.98%	80.1%
Ddh. H 12a (4)	39.4m.	16	0.185%			
— " — H 12b	30.55m.	28	0.277%	0.26%	4.02%	72.10%

Söve, Hydro Deposit
Profile H 12

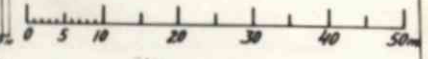


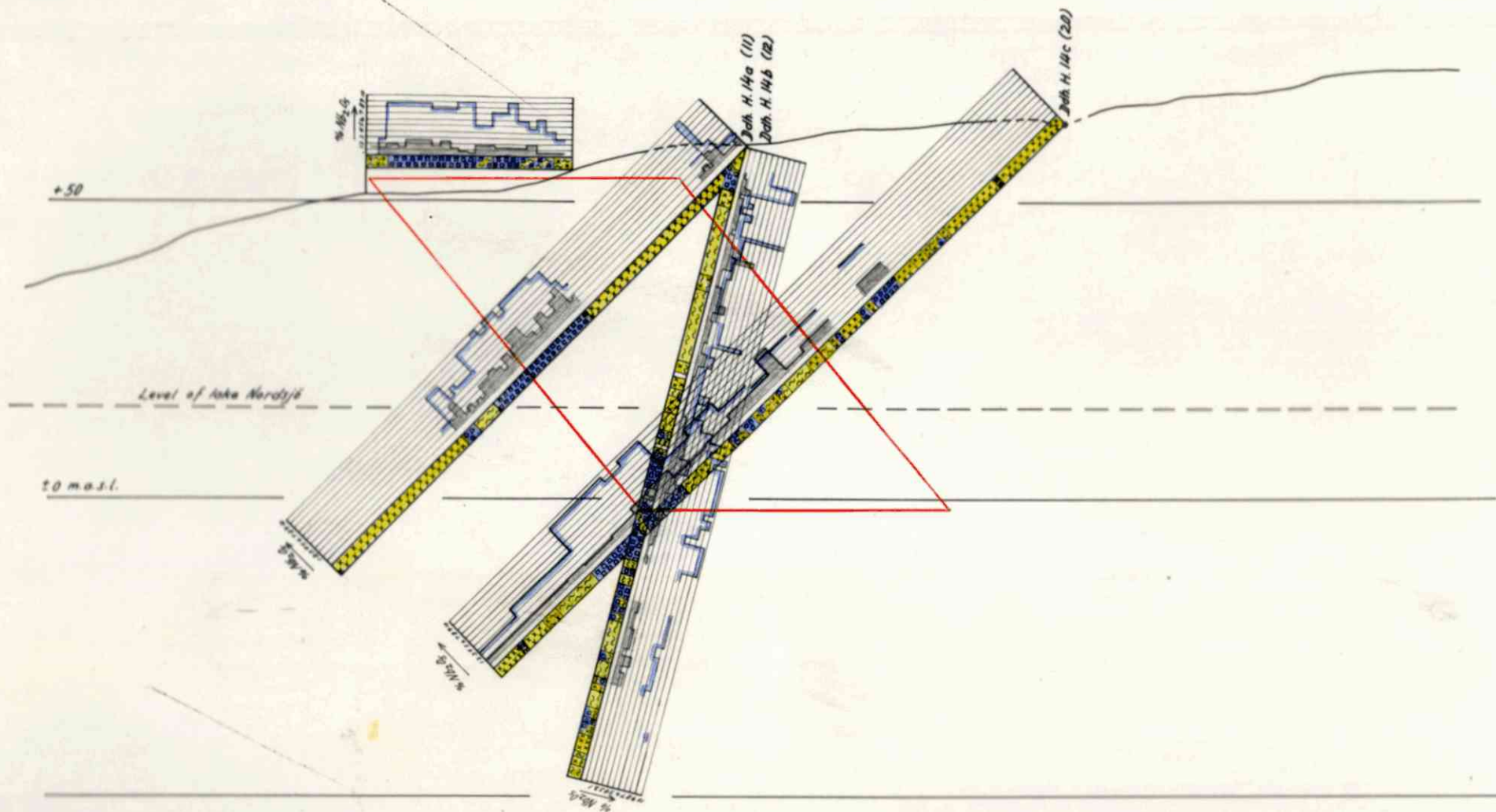


	Length of ore	Analyzed samples	Average			
			Nb ₂ O ₅		P ₂ O ₅	Carbonates
Trench H 13	15.0 m.	10	0.131%		3.43%	71.9%
Dth. H 13a (14)	30.07 m.	23	0.20%	0.27%	2.85%	60.4%
-u- H 13b (16)	38.20 m.	93	0.25%	0.26%	3.43%	77.0%



Söve, Hydro Deposit
Profile H. 13

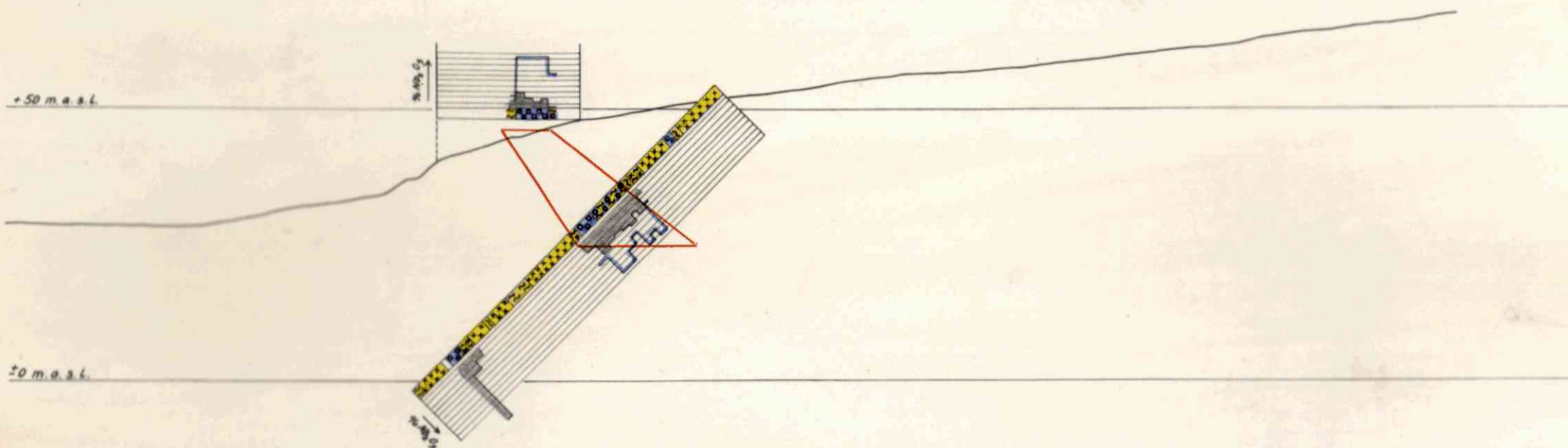




	Length of ore	Analyzed samples	Average		Carbonates
			Chem.	Spectr.	
Trench H 14	27.0 m.	18	0.166%		74.9%
Dalh. H 14a (11)	31.0 m.	34	0.231%	0.20%	55.5%
—H 14b (12)	43.0 m.	67	0.140%	0.155%	32.0%

Søve, Hydro Deposit
Profile H 14

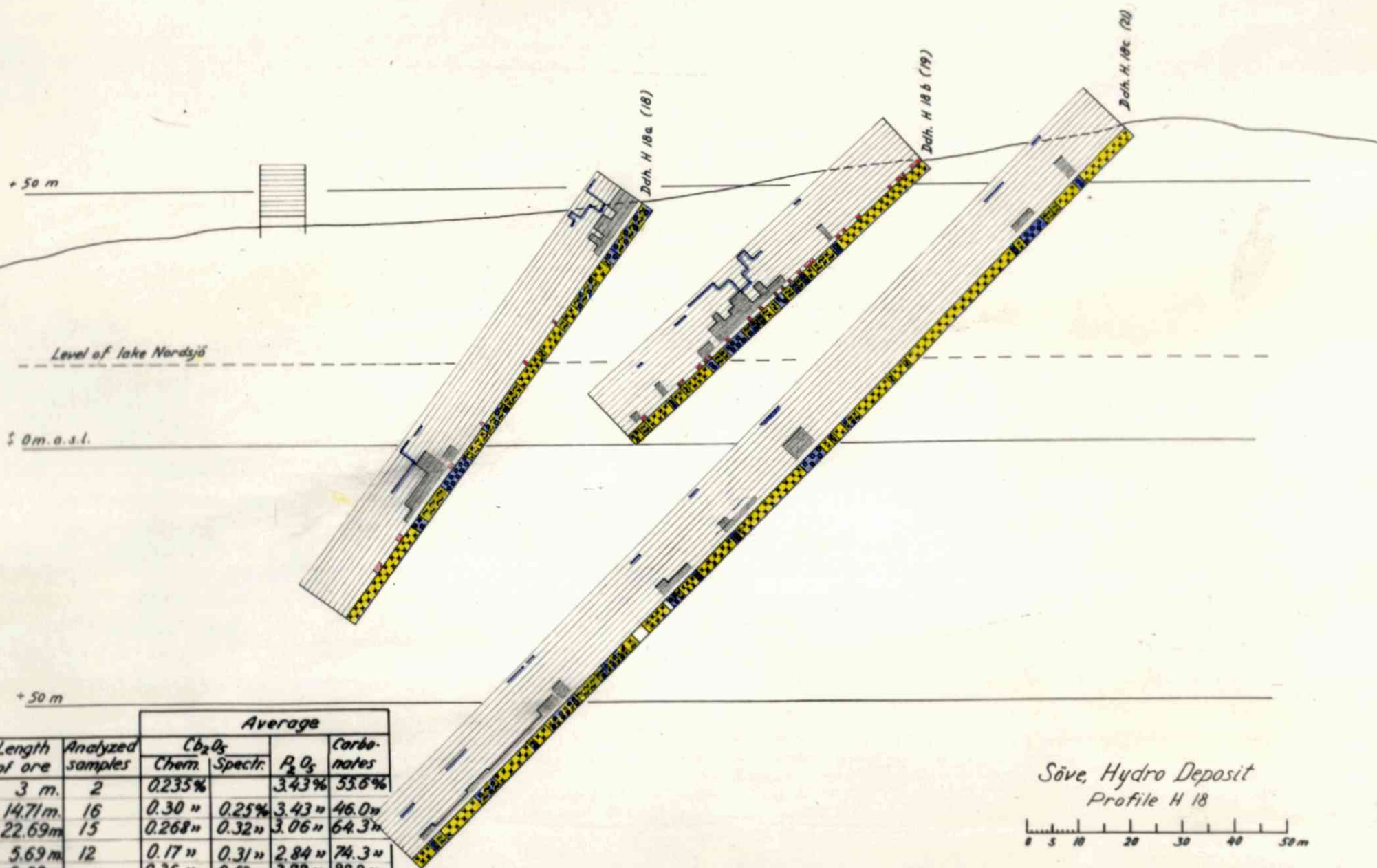




	Length of ore	Analyzed samples	Average			
			Chem.	Spectr.	P ₂ O ₅	Carbo-nates
Trench H 16	7.5 m.	5	0.162%		1.54%	64.2 %
Dth. H 16 a (17)	13.68 m.	12	0.348 "	0.425%	3.17 "	45.3 "

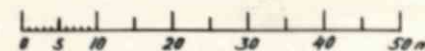
Söve, Hydro Deposit
Profile H 16 (16)

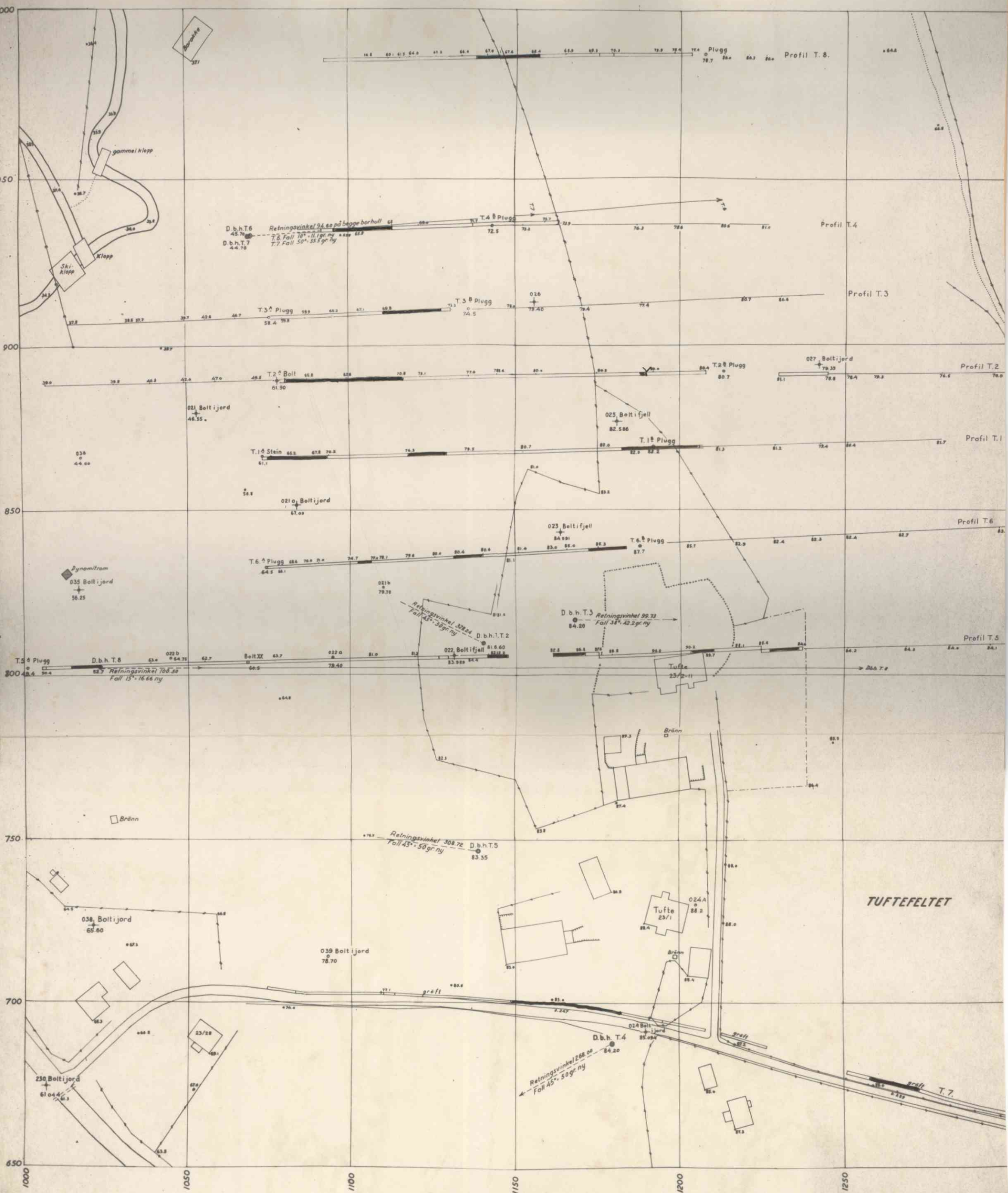
A horizontal scale bar with markings at 0, 5, 10, 20, 30, 40, and 50 m.

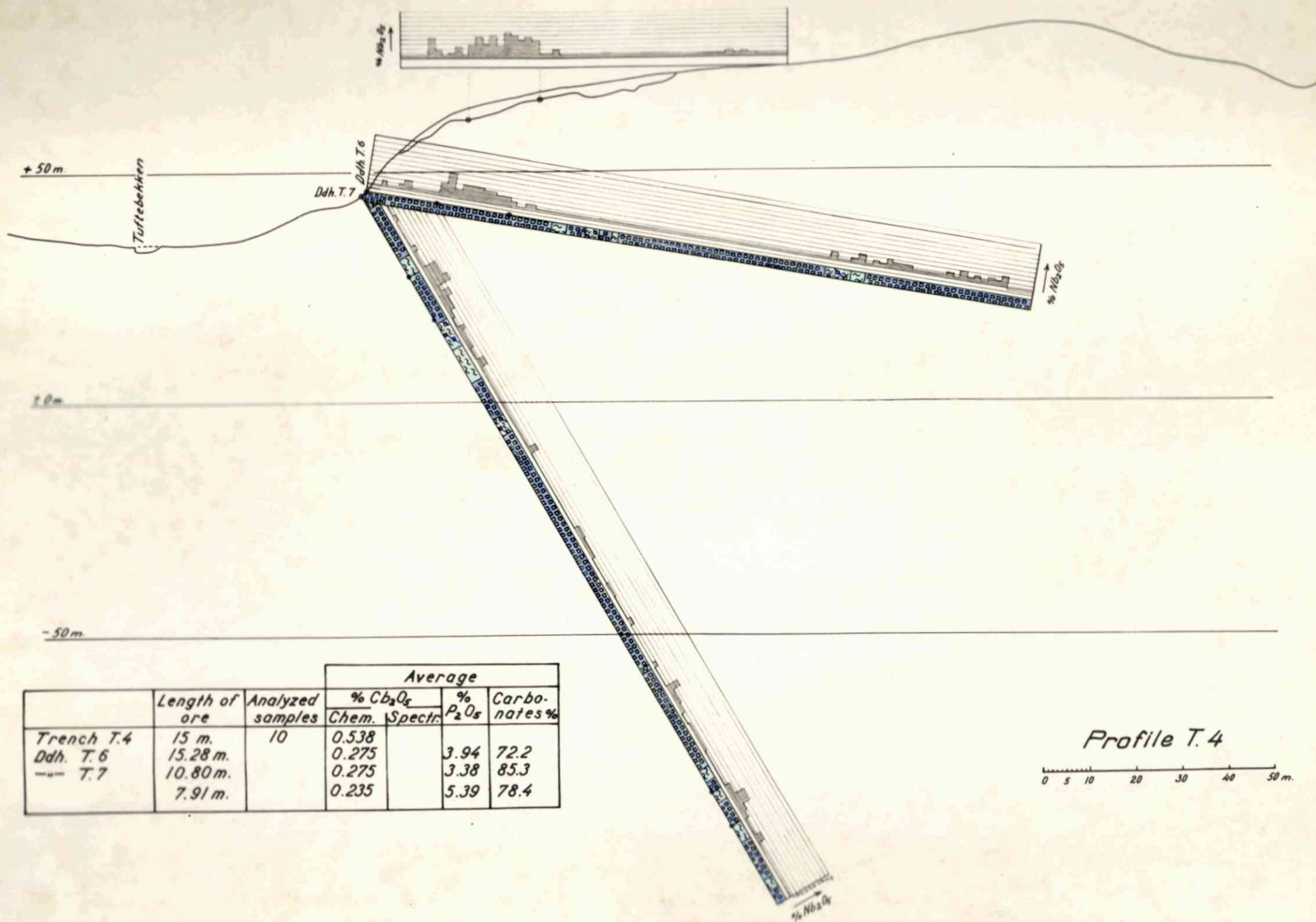


	Length of ore	Analyzed samples	Average			
			C ₂ O ₃		P ₂ O ₅	Carbo-nates
Trench H 18	3 m.	2	0.235%		3.43%	55.6%
Ddh. H 18a (18)	14.71 m.	16	0.30 "	0.25%	3.43 "	46.0 "
" H 18b (19)	22.69 m.	15	0.268 "	0.32 "	3.06 "	64.3 "
" H 18c (21)	5.69 m.	12	0.17 "	0.31 "	2.84 "	74.3 "
" "	5.58 m.		0.36 "	0.52 "	3.88 "	88.8 "
" "	8.19 m.		0.15 "			
" "	6.78 m.		0.20 "		2.70 "	72.0 "

Söve, Hydro Deposit
Profile H 18



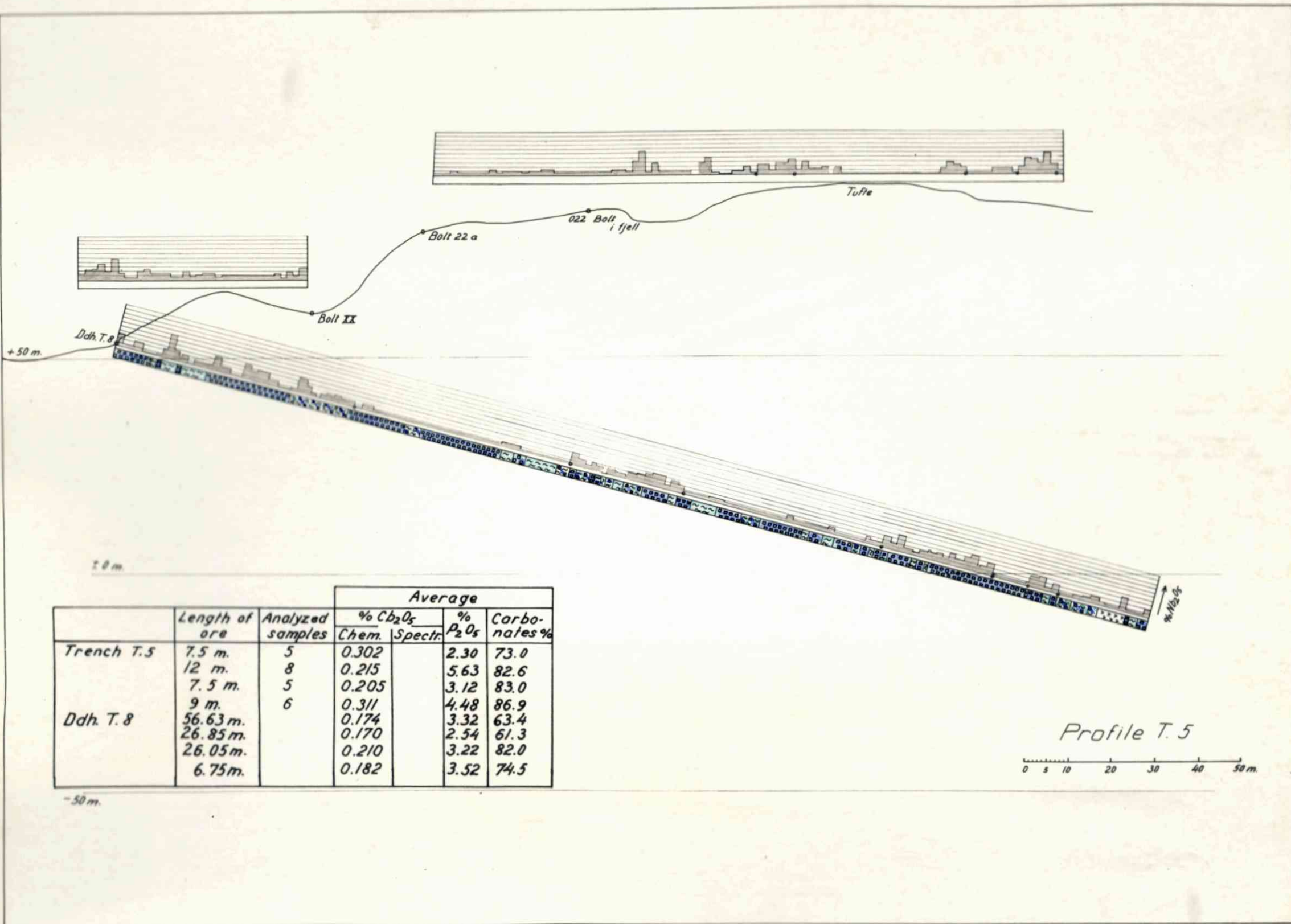




	Length of ore	Analyzed samples	Average		
			% Cb_2O_5 Chem. Spectr.	% P_2O_5	Carbo- nates %
Trench T. 4	15 m.	10	0.538		
Ddh. T. 6	15.28 m.		0.275	3.94	72.2
— " — T. 7	10.80 m.		0.275	3.38	85.3
	7.91 m.		0.235	5.39	78.4

Profile T. 4

0 5 10 20 30 40 50 m.



	Length of ore	Analyzed samples	Average		
			% Cb_2O_5		Carbo-nates %
			Chem.	Spectr.	
Trench T. 5	7.5 m.	5	0.302		2.30 73.0
	12 m.	8	0.215		5.63 82.6
	7.5 m.	5	0.205		3.12 83.0
Ddh. T. 8	9 m.	6	0.311		4.48 86.9
	56.63 m.		0.174		3.32 63.4
	26.85 m.		0.170		2.54 61.3
	26.05 m.		0.210		3.22 82.0
	6.75 m.		0.182		3.52 74.5

Profile T. 5

0 5 10 20 30 40 50 m.



	Length of ore	Analyzed samples	Average		Carbo- nates %
			% Cb_2O_5 Chem.	% P_2O_5 Spectr.	
Trench T.7	34.5 m.	23	0.247		72.5
	15.0 m.	10	0.229		70.5

Söve, Tuffefeltet
Profile T.7

0 5 10 20 30 40 50 m.