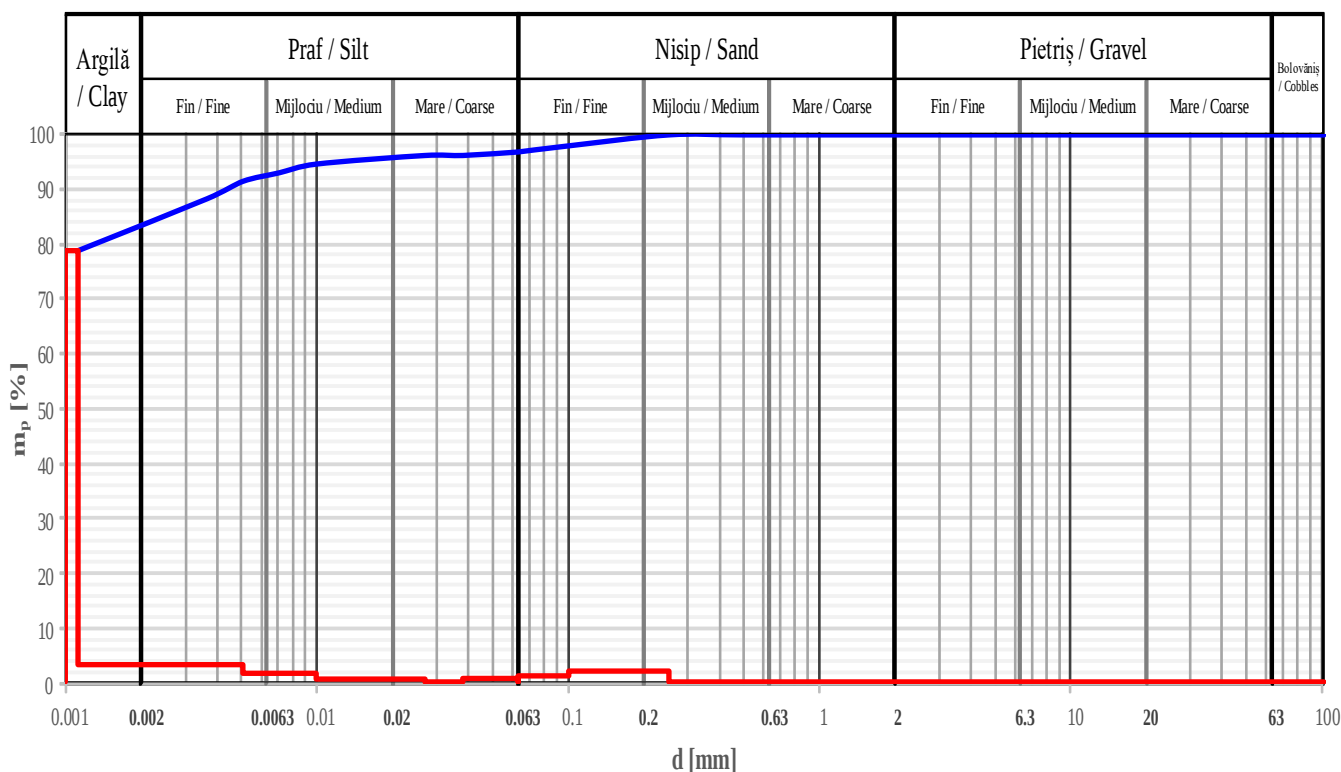


DCC-GEO-TEST CONSULT S.R.L.
 LABORATOR DE ANALIZE ȘI ÎNCERCĂRI
 ÎN CONSTRUCȚII - GRAD II
 Autorizație nr. 2940 din 15.08.2014/24.08.2018

Amplasament / Location: Reabilitarea liniei de cale ferata Roman – Iasi - Frontiera
 Forajul/Borehole: FTN 43
 Proba/Sample: PT 7
 Adancimea/Depth(m): 7,00

Raport de incercare nr. / Test report no.75 1113



Curba granulometrica / Granulometric curve

Identificarea și clasificarea pământurilor SR EN ISO 14688/2-2018 / SR EN ISO 14688/2-2018 / STAS 1913/5-85											
Argila / Clay (CI)											
cenusie Un = #N/A											
Conform SR EN ISO 14688/2-2005, la cerința beneficiarului	Pământ fin / Fine				Pământ grosier / Coarse						Pământ foarte grosier / Very coarse
Argila (CI)	Praful (Si)				Nisip (Sa)			Pietriș (Gr)			Bolovanis (Co)
	Fin (fSi)	Mediu (mSi)	Mare (cSi)		Fin (fSa)	Mediu (mSa)	Mare (cSa)	Fin (fGr)	Mediu (mGr)	Mare (cGr)	
	82	15			3			0			0
	< 0,002	< 0,0063	< 0,02	< 0,063	< 0,2	< 0,63	< 2	< 6,3	< 20	< 63	< 200mm
%	82	10	4	1	2	1	0	0	0	0	0

CLASIFICAREA PĂMÂNTURILOR /SR Pământ fin / Fine soil
 EN ISO 14688/2-2018 / SR EN ISO 14688/2-2018 #N/A

Executat de / Performed by:
 ing. Nina IOSIF

Nina IOSIF

Sef Laborator / Laboratory head: Constanta ANDREI

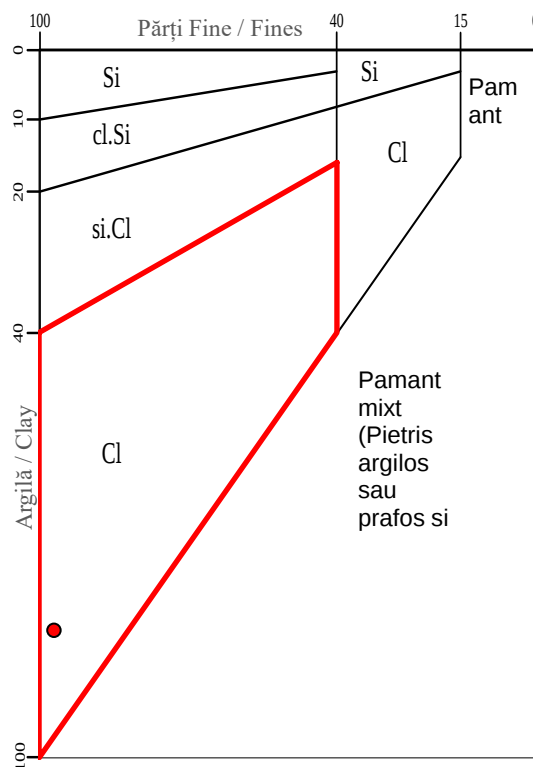
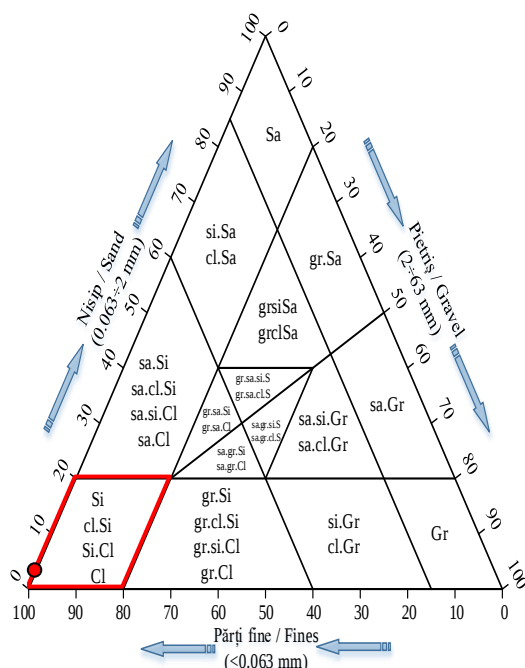


Data / Date: 13.01.2021

COD PROBA 75 1113

Raport de incercare nr. / Test report no.75 1113

	d (mm)	mp (%)
CERNERE	100	100,0
	100	100,0
	100	100,0
	100	100,0
	100	100,0
	100	100,0
	90	100,0
	63	100,0
	45	100,0
	31,5	100,0
	22,4	100,0
	16	100,0
	11,2	100,0
	5,6	100,0
	3,15	100,0
SEDIMENTARE	2	100,0
	0,5	100,0
	0,25	100,0
	0,10	98,0
	0,063	96,9
	0,063	96,88
	0,038	96,24
	0,027	96,24
	0,019	95,72
	0,014	95,19
	0,010	94,66
	0,007	93,08
	0,005	91,50
	0,004	88,34
	0,003	85,17
	0,002	82,01
	0,001	78,85



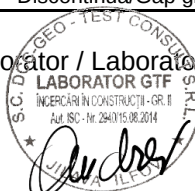
Clasificarea pamantului dupa SR EN ISO 14688-1:2018 / SR EN ISO 14688-2:2018

Tip pamant / Soil group	Tip fractiune		%	C _u (Un)	C _c	Forma curbei granulometrice / Shape of grading curve	C _u (Un)	C _c
Pamant fin / Fine	Argila	Cl	82	<3	< 1	Foarte uniforma / Very uniform	#N/A	#####
	Praf	Si	15			Uniforma / Uniform		
Pamant grosier / Coarse	Nisip	Sa	3	3---6	< 1	Uniformitate medie / Medium uniformity		
	Pietris	Gr	0	6---15	< 1	Neuniforma / Non-uniform		
Pamant foarte grosier / Very coarse	Bolovanis	Co		>15	1---3	Discontinua / Gap graded		
				>15	<0,5			

Executat de / Performed by :
 ing. Nina IOSIF

Nina IOSIF

Sef Laborator / Laboratory head: Constanta ANDREI



COD PROBA 75 1113

Raport de incercare nr. / Test report no.75 1114

**DETERMINAREA LIMITELOR DE PLASTICITATE /
DETERMINATION OF ATTEBERG LIMITS**

STAS 1913/4-86

Nr. de caderi ale cupei (N)	25	UMIDITATE NATURALA NATURAL MOISTURE STAS 1913/1-82			LIMITA DE CURGERE LIQUID LIMIT W _L %				LIMITA DE FRAMANTARE PLASTIC LIMIT W _P %		
Adancimea de patrundere a conului (S) mm	10				Metoda cu cupa						
					46	33	23	15			
PROBA UMEDA + TARA A (gr)		150,00			32,12	34,10	32,04	34,82	17,76	17,98	18,60
PROBA USCATA + TARA B (gr)		109,53			22,36	23,75	22,44	24,12	16,66	16,78	17,34
TARA C (gr)					11,51	12,53	12,29	13,10	12,96	12,85	13,13
A - B		40,47			9,76	10,35	9,60	10,69	1,10	1,19	1,26
B -C		109,53			10,86	11,23	10,16	11,03	3,70	3,93	4,21
W(%) = (A-B)/(B-C)*100		36,95			89,89	92,15	94,51	96,97	29,65	30,36	29,91
W(%) MEDIU		36,95			94,04				29,98		

DESCRIZIONE PROBEI /
DESCRIPTION OF THE SOIL:

Argila cenusie cu FeO si concretiuni calcaroase plastic vartoasa / stiff consistency

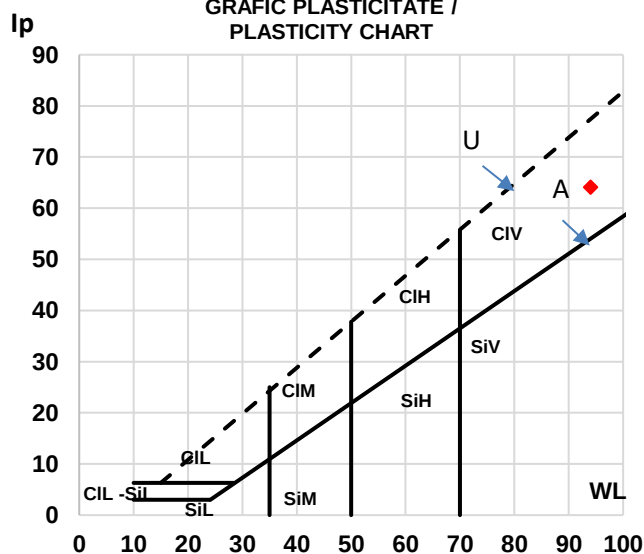
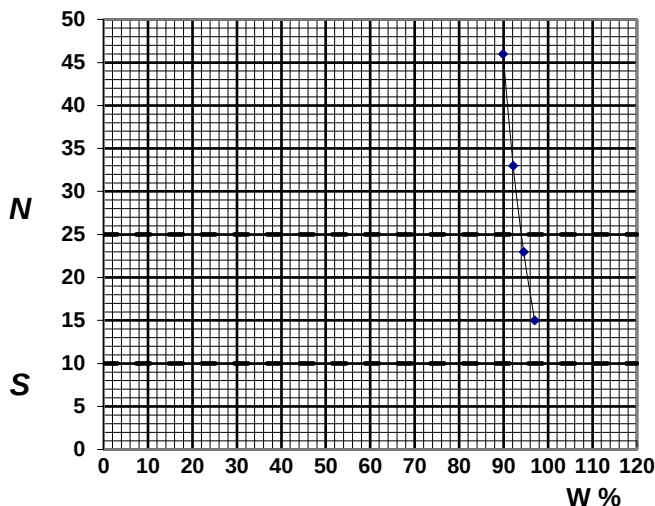
SR EN ISO 14688/1/2-2018

Pamant fin cu plasticitate foarte mare / Fine soil, very heigh plasticity

CIV

GRAFICUL LIMITEI SUPERIOARE DE PLASTICITATE UPPER LIMIT OF PLASTICITY CHART

GRAFIC PLASTICITATE / PLASTICITY CHART



				SR EN ISO 14688/2-2018				
LIMITA DE FRĂMÂNTARE / PLASTIC LIMIT	$W_p =$	29,98	%	Tip pamant / Type of Soil		Plasticitate / Plasticity		Limita de curgere / Liquid limit
UMIDIT. NATUR. / NATURAL MOISTURE	$W =$	36,95	%	Cl	Clay	Low	redusa	<35
LIMITA DE CURGERE / LIQUID LIMIT	$W_L =$	94,04	%	Si	Silt	Medium	medie	35----50
INDICE DE PLASTICIT./PLASTICITY INDEX	$I_p = W_L - W_p$	64,06	%			Heigh	mare	50----70
INDICE DE CONSISTENȚĂ / CONSISTENCY INDEX	$I_c = (W_L - W) / I_p$	0,89				Very heigh	foarte mare	>70
INDICE DE LICHIDITATE/ LIQUIDITY INDEX	$I_L = (W - W_p) / I_p$	0,11				O	organica	

Executat de / Performed by: Laborant Emilia Dumitru

Data / Date: 13.01.2021

COD PROBA 75

1114

Sef Laborator / Laboratory head: Constanta ANDREI

