



ALLEGATO 1

Prove Geognostiche

Parte 1: PROVE PENETROMETRICHE DINAMICHE

Parte 2: PROVE PENETROMETRICHE DINAMICHE STANDARD SPT in foro

Parte 3: PROVE PENETROMETRICHE STATICHE CPT

Parte 4: TRINCEE / SCAVI ESPLORATIVI

Parte 5: SONDAGGI / STRATIGRAFIE





Cod. Indag.	Indirizzo	Autore	Data	Penet. Din.	Trincee	SONDAGGI	CPT	SPT in foro	Sigla in Tav. 2
IGT0	Scuole Medie	Geoinvest s.r.l.	02/1986	7	2				P1-P7, TrA-TrB
IGT1	Piano di Lottizzazione PEC1a	Geoinvest s.r.l.	02/2000	13					P8-P20
IGT2	Via XXV 04/	Studio Geologico Tecnico Lecchese	01/2005	5					P21-P25
IGT3	Via Martin Luther King	Geoplanet Studio Geologico	03/2005	4					P26-P29
IGT4	Via Donizzetti	Dott. Geol. Riccardo Cortiana	12/2001	9					P30-P38
IGT5	Via Mazzini	Studio Geoplan	01/2003	5					P39-P43
IGT6	AT 1, tra S.P.211 e S.P.215	Fusina s.r.l.	04/2013	8					P44-P51
IGT7	AT 3, via Dante	Studio Geoplan	09/2013	1					P52
IGT8	AT 4, via E. De Amicis - S.P.215	GeoArbor studio	01/2022	6	3				P53-P58, TrC-TrE
IGT9	Via Leopardi n. 16	Geotecno srl	03/2019	2					P59-P60
IGT10	Via Luigi Galvani n.5	IPOGEO Studio Geologico		2					P61-P62
IGT11	Via dell'Industria 3/A-3/B	GEO GROUP s.r.l.	05/2019				2		Ps1-Ps2
IGT12	P.zza Matteotti	Dott. Ing. Cristiano Tomasi	05/2020	3					P63-P64
IGT13	via Galileo Galilei n. 15	FAPA engineering srl	07/2020	1					P66
IGT14	via Galileo Galilei	IDROTECNA	07/2020	4					P67-P70
IGT15	via Galvani 3	GEOPLAN s.r.l.		3					P71-P73
IGT16	presso stabilimento Salchi Metalcoat	GEO GROUP S.R.L.	07/2020						
IGT17	via Verdi	Dott. Geol. Gianbattista Fianza	11/2020	3					P74-P76
IGT18	via Leopardi	IDROTECNA	05/2020	1					P77
IGT19	Via Meucci 1	GEOCONSULT	01/2022						
IGT20	via Primo Villa 10	Geotecno srl	02/2011	4					P78-P81
IGT21	via F. Turati	Studio Geologico Ballabio	12/2021	1					P82
IGT22	via Galileo Galilei n. 13	Geotest s.r.l.		6					P83-P88
IGT23	via Aldo Moro AT1	Fusina srl	02/2019	8					
IGT24	via Turati	ERA, Geol. Umberto Locati	12/2021	3					P89-P91
IGT25	via Caravaggio n. 24	Dott. Geol. Alessandro Ratazzi	03/2022	2					P92-P93
IGT26	via E. Fermi n. 1	Dott. Geol. Alessandro Ratazzi	01/2022	6					P94-P99
IGT27	presso stabilimento Salchi Metalcoat	GEOGROUP	07/2021	6		2		14	P100-P105, S1-S2, Pf1-Pf14
IGT28	via E. Fermi n.1	Dott. Geol. Alessandro Ratazzi	09/2021			3			S3-S5

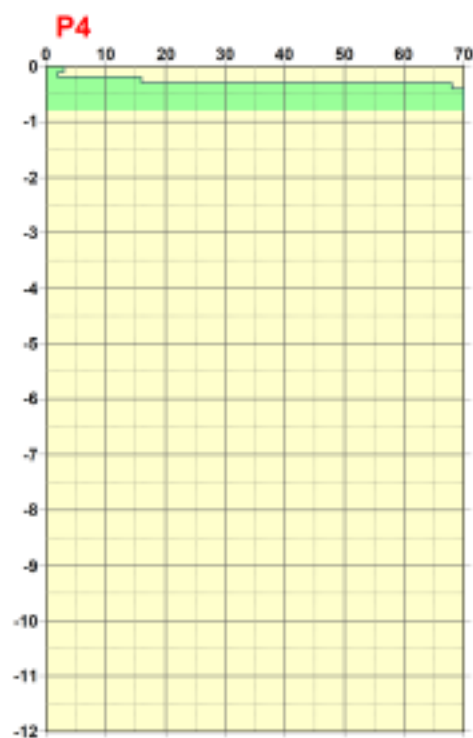
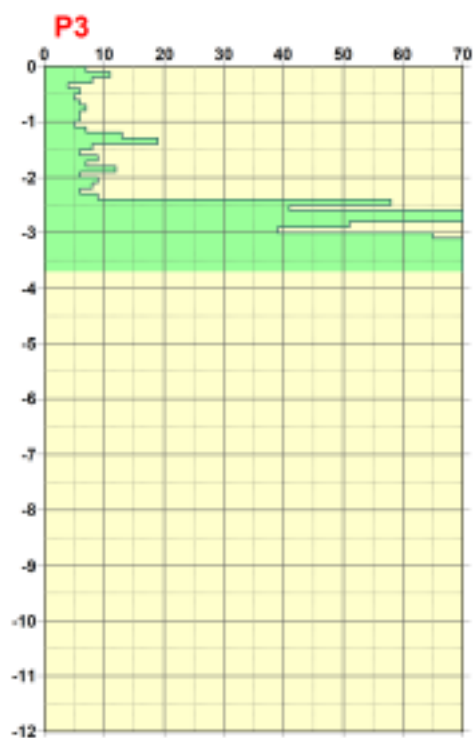
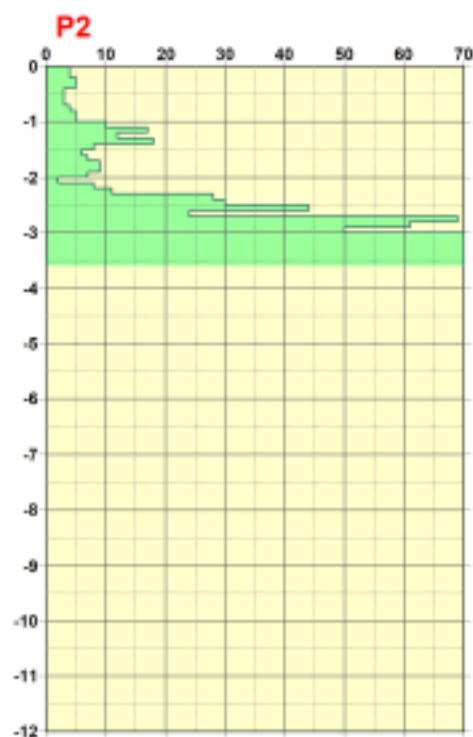
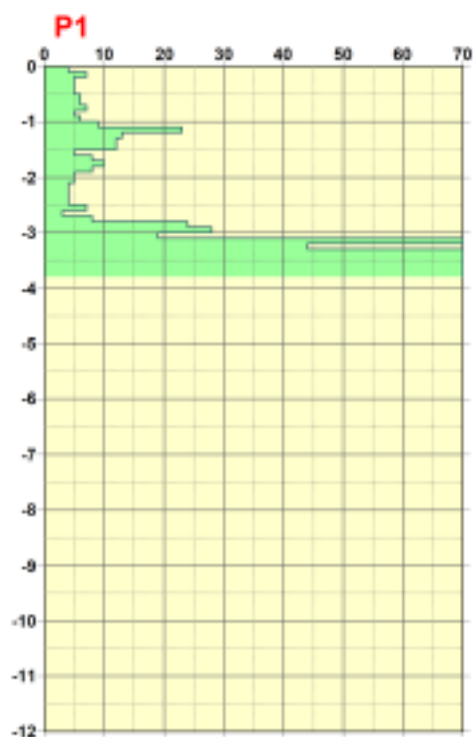


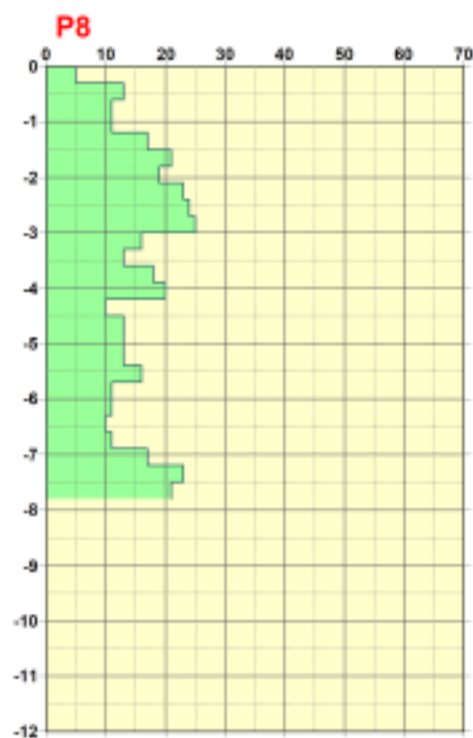
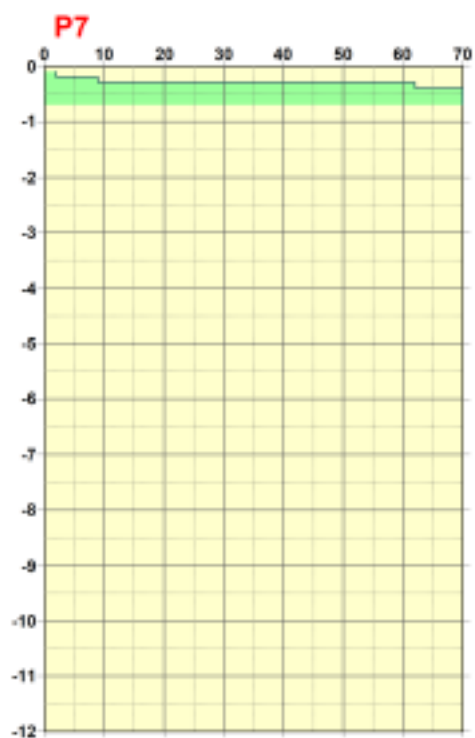
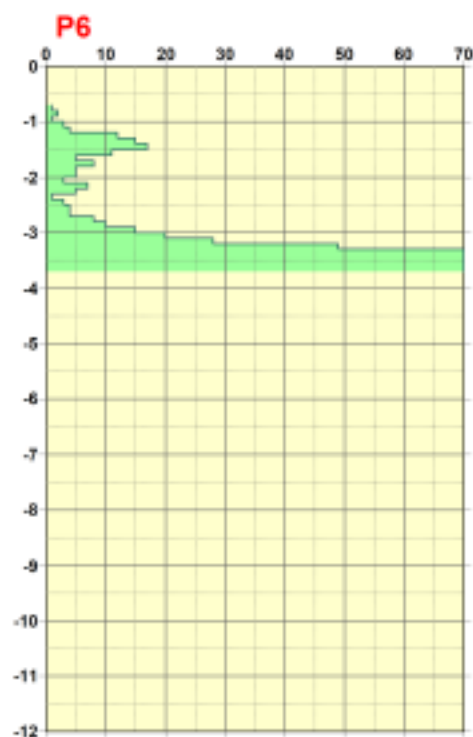
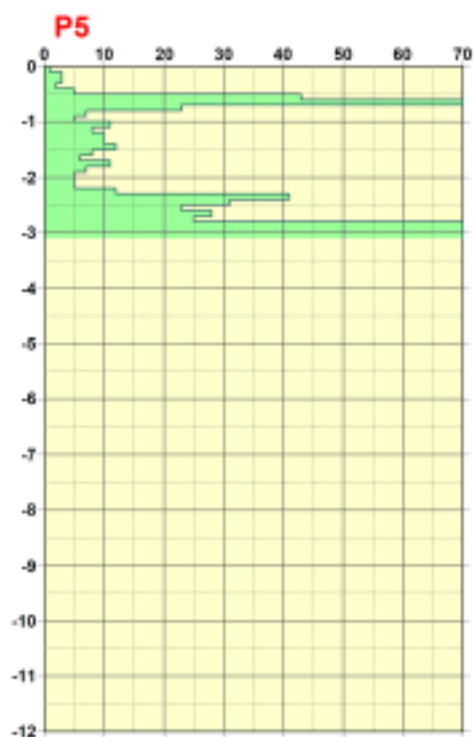


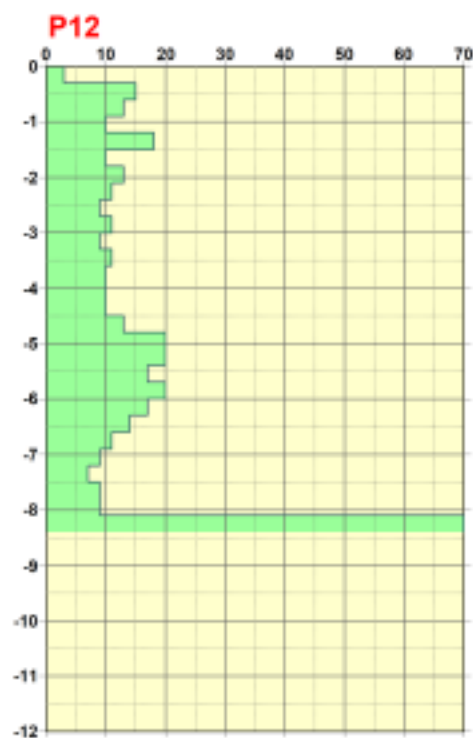
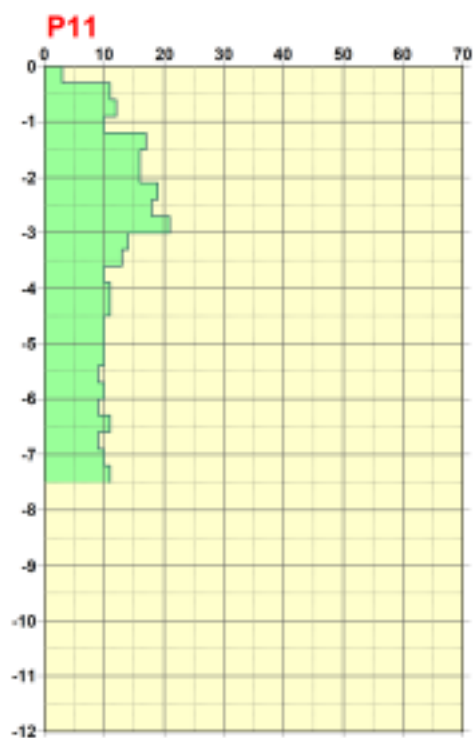
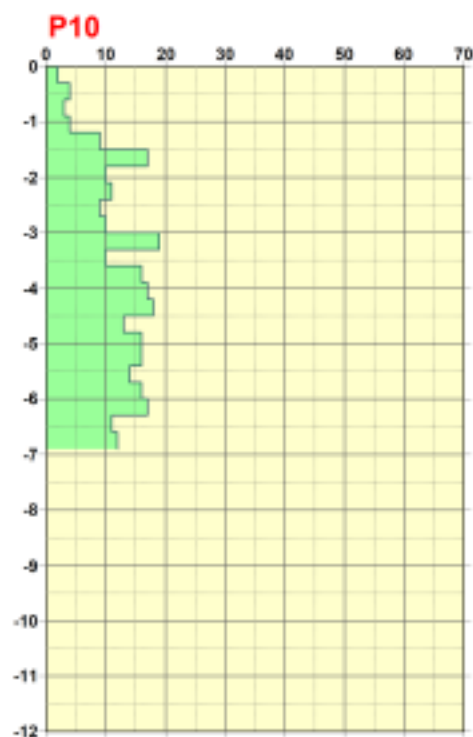
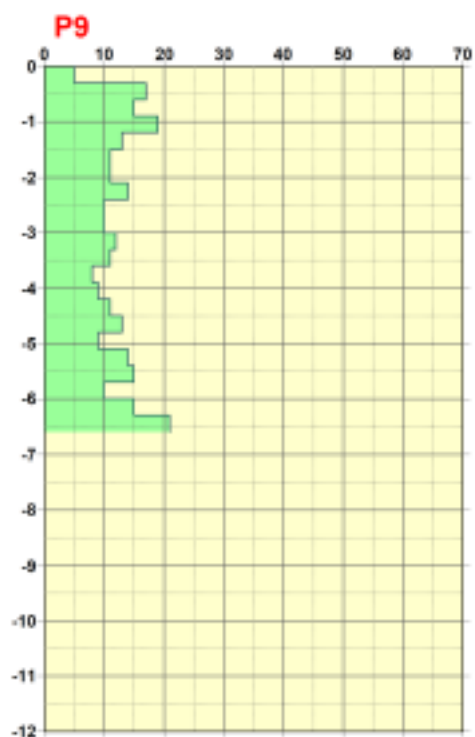
Parte 1

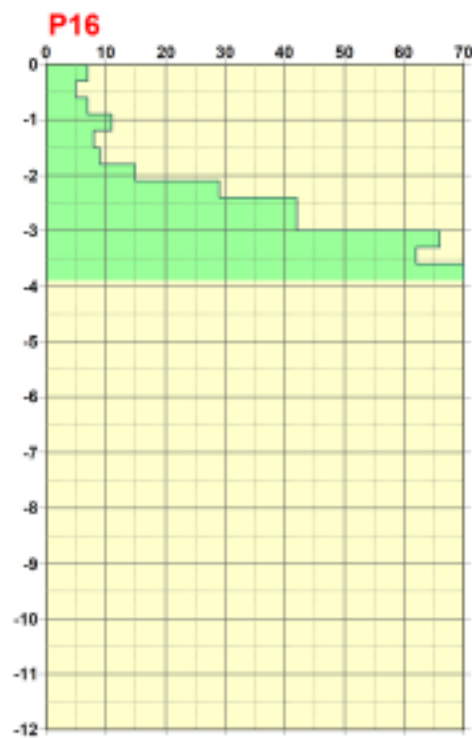
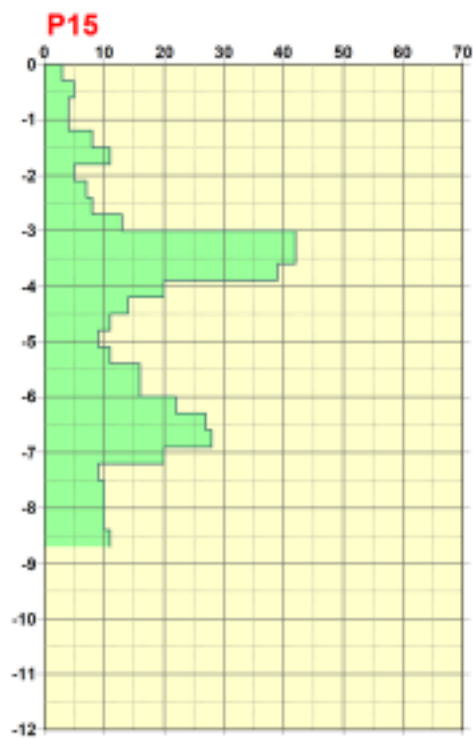
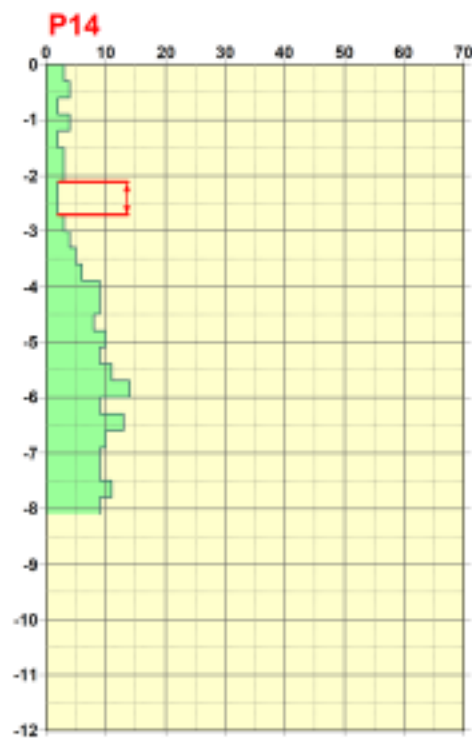
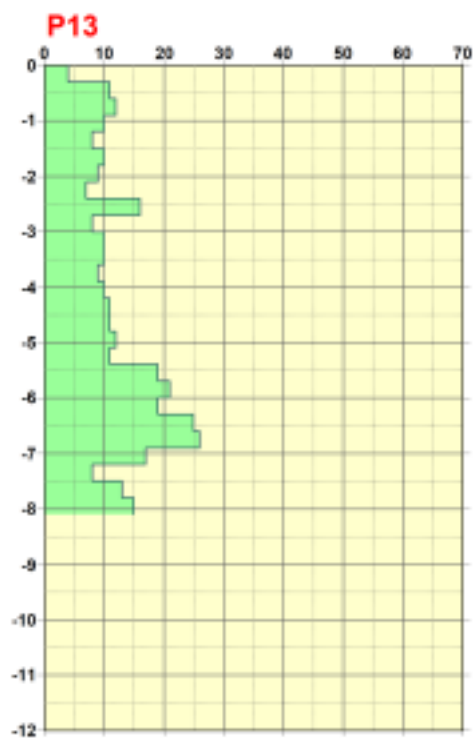
PROVE PENETROMETRICHE DINAMICHE

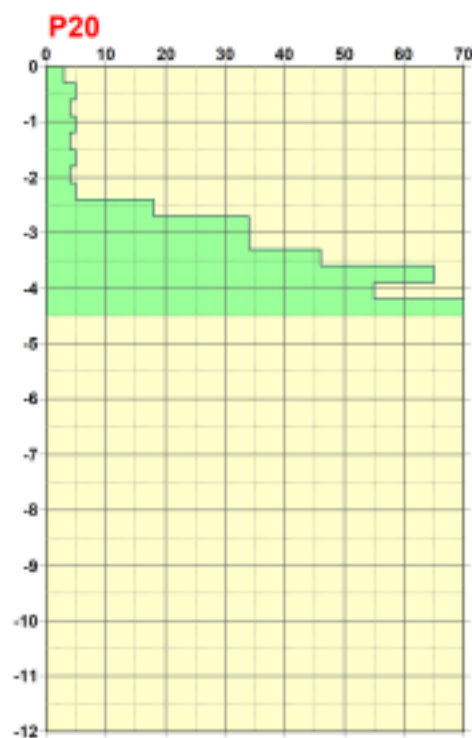
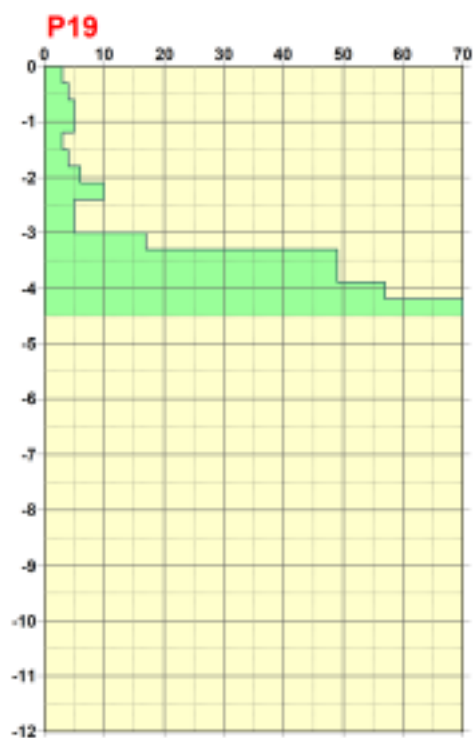
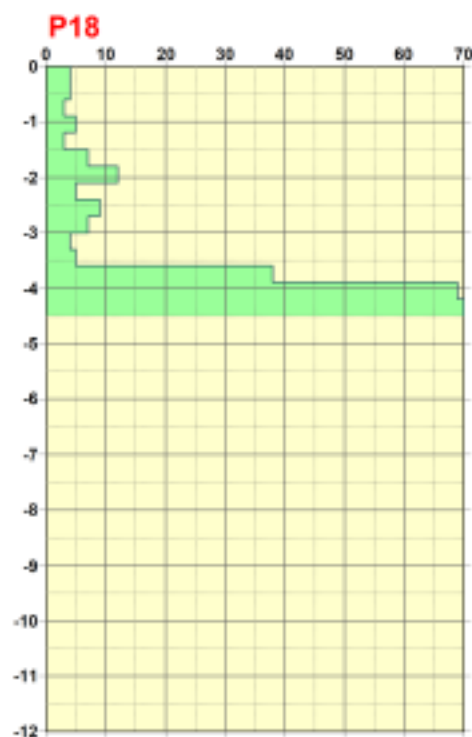
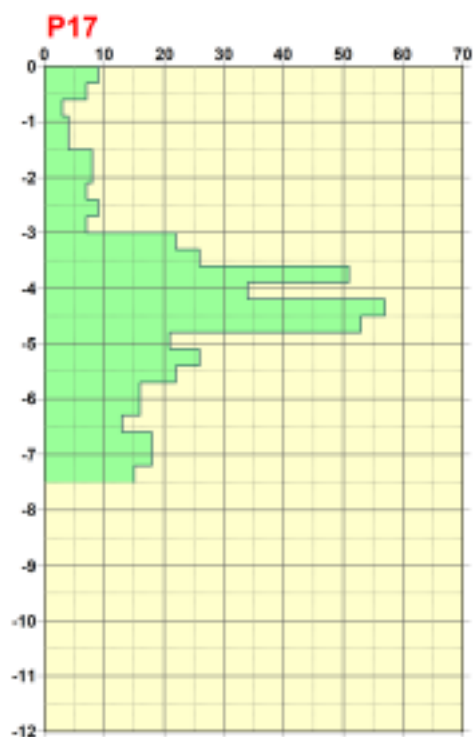


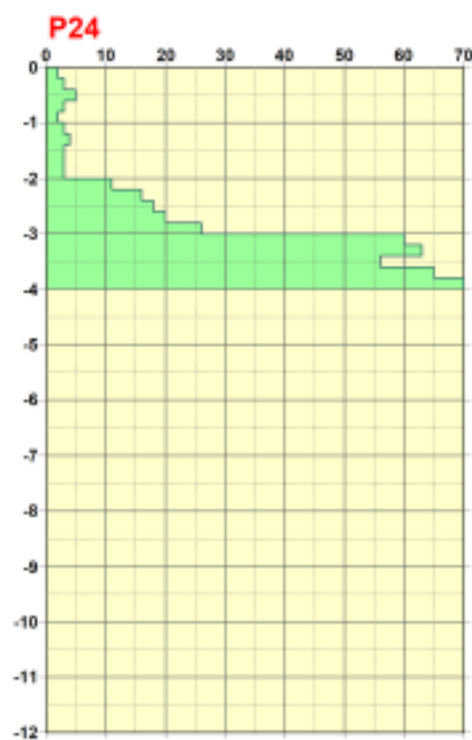
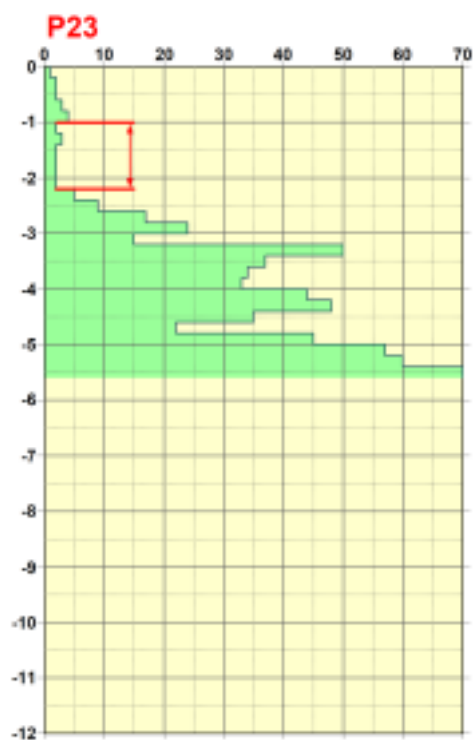
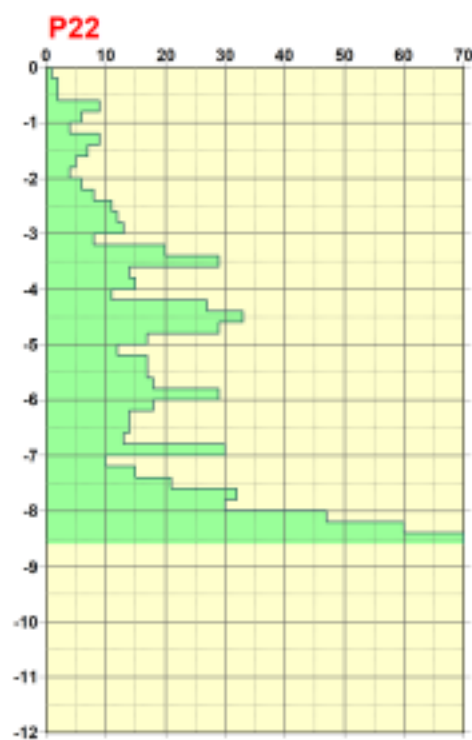
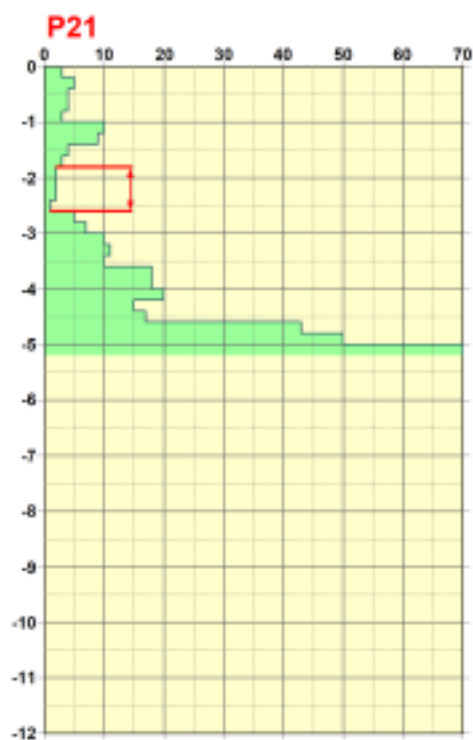


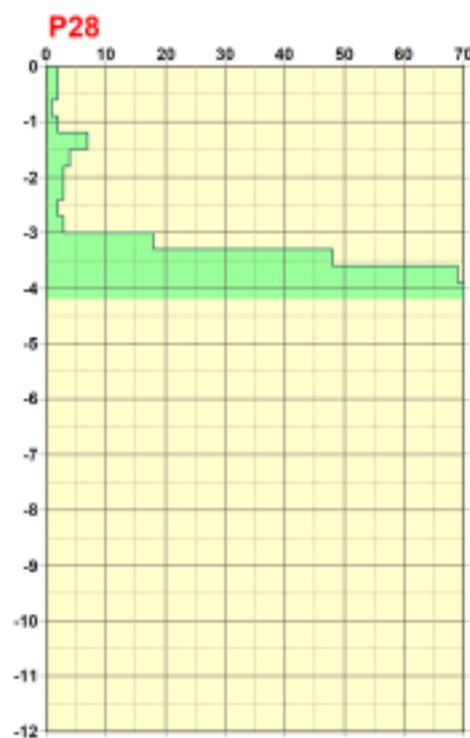
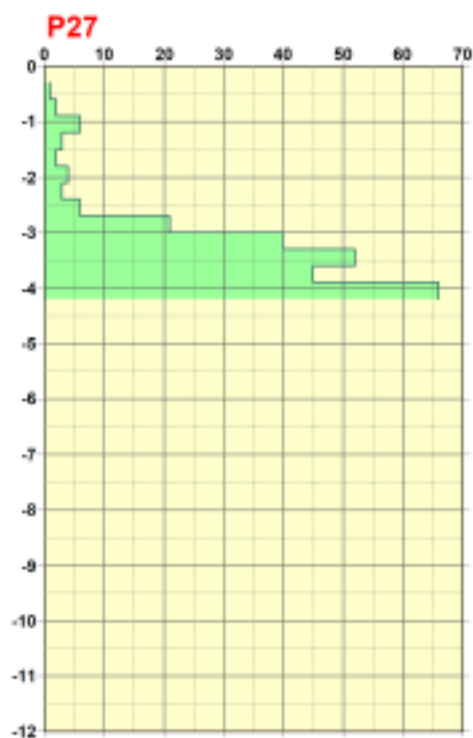
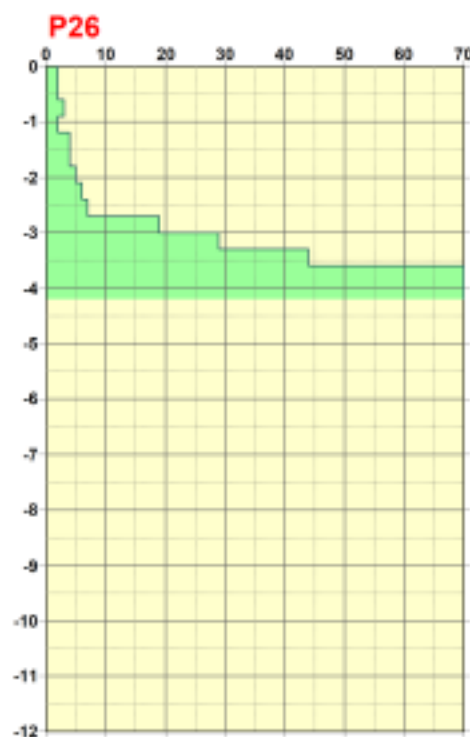
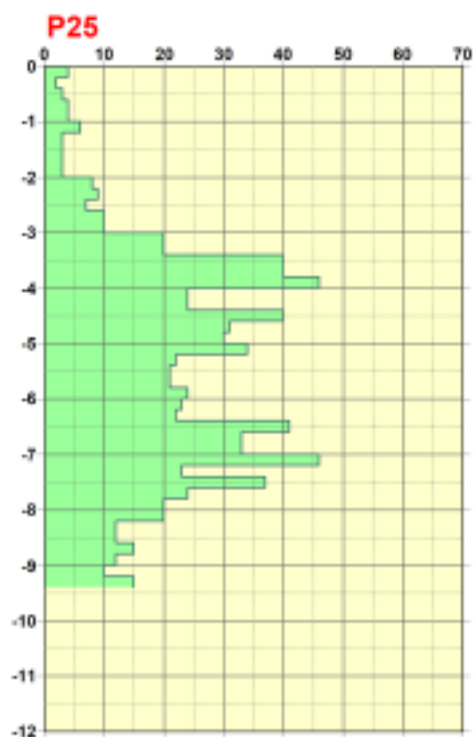


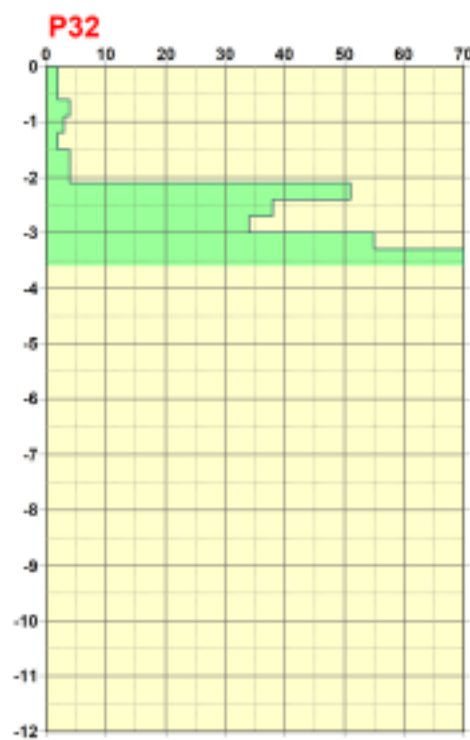
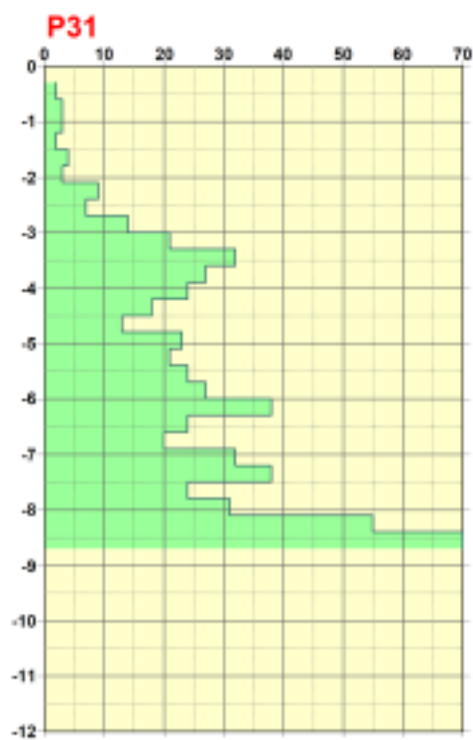
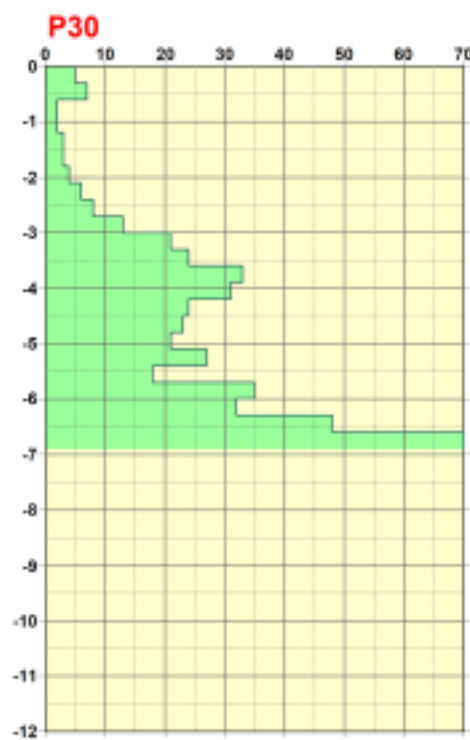
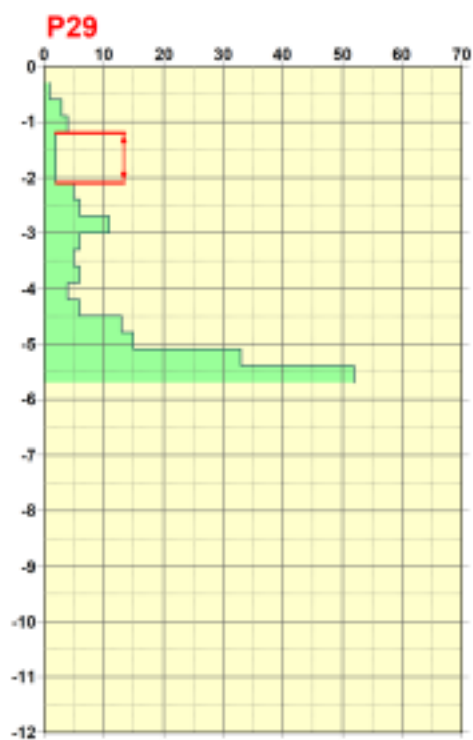


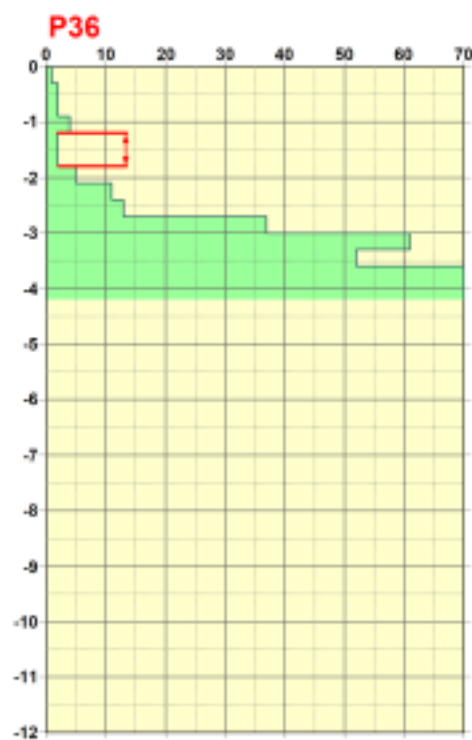
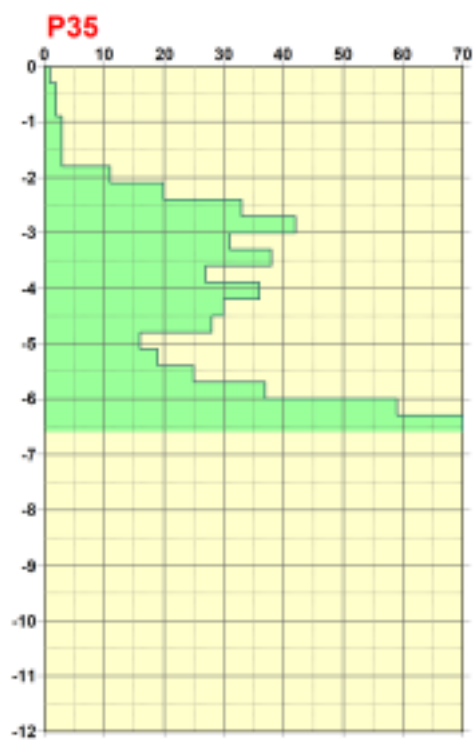
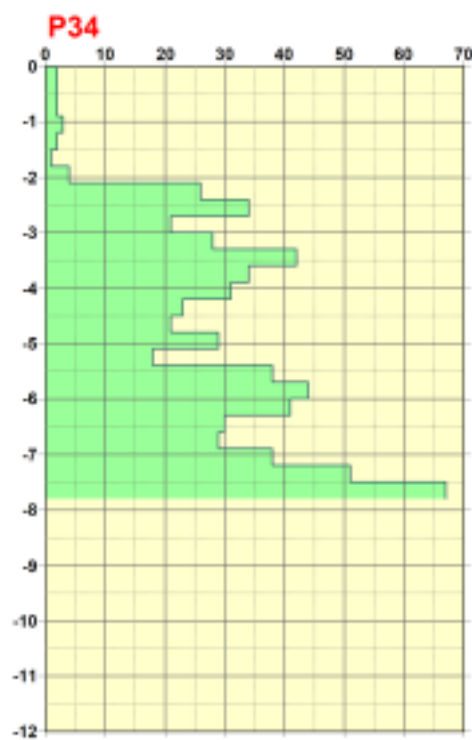
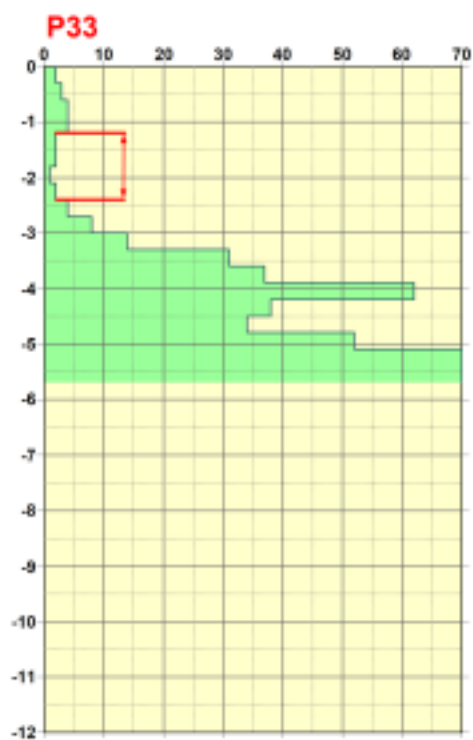


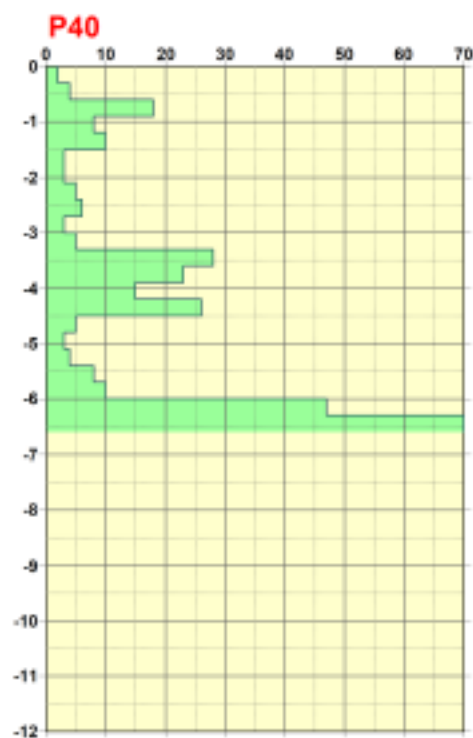
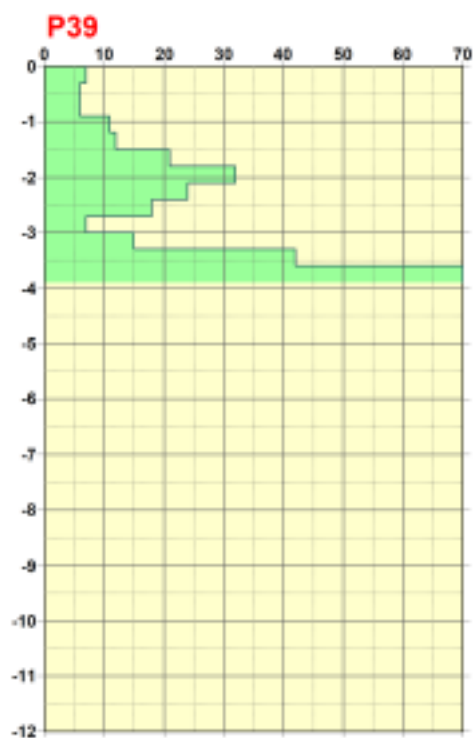
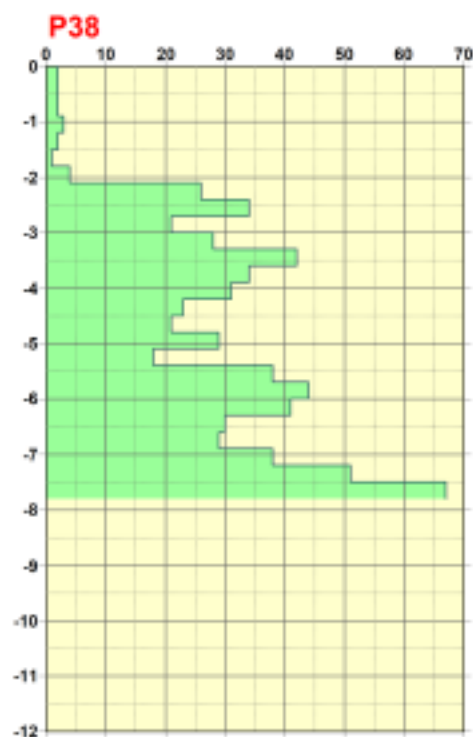
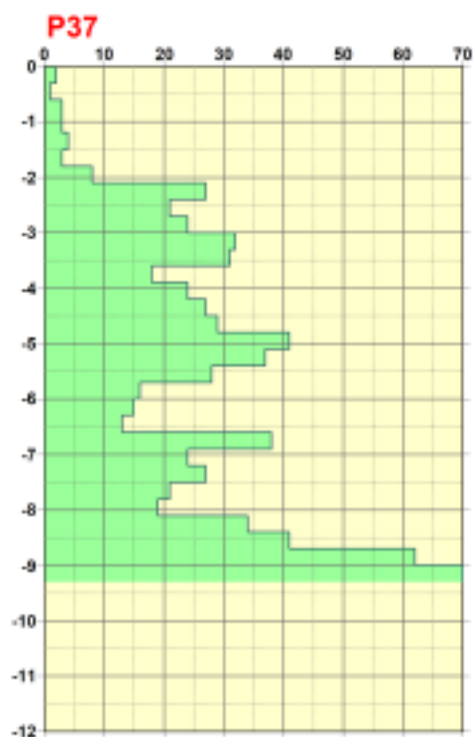


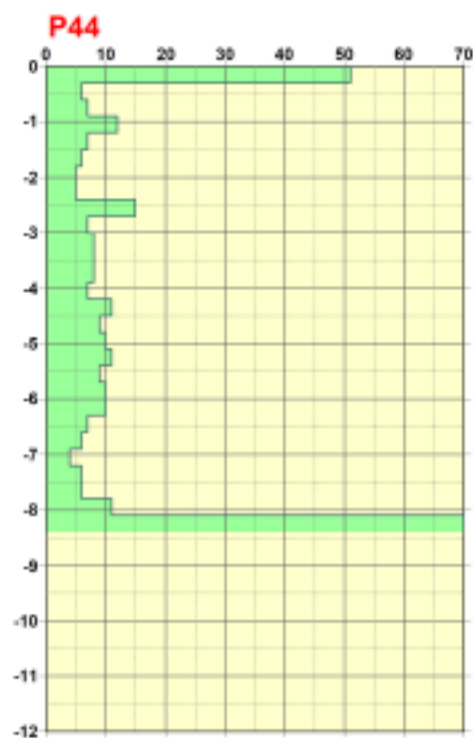
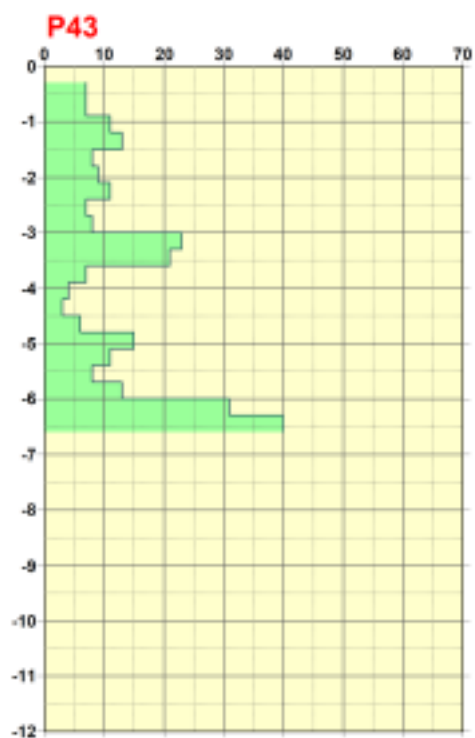
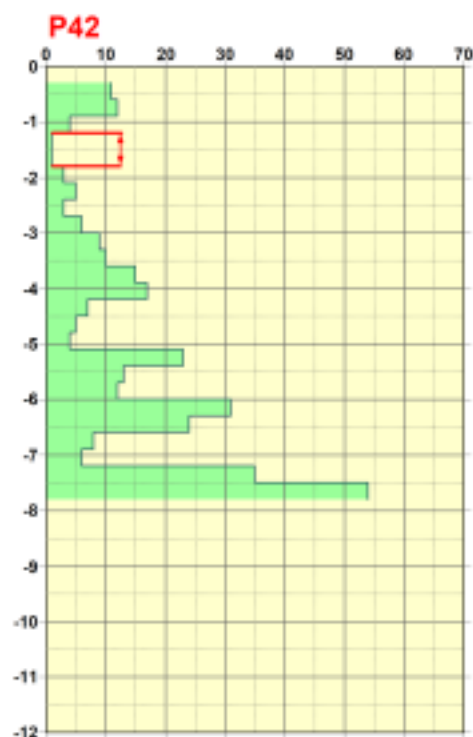
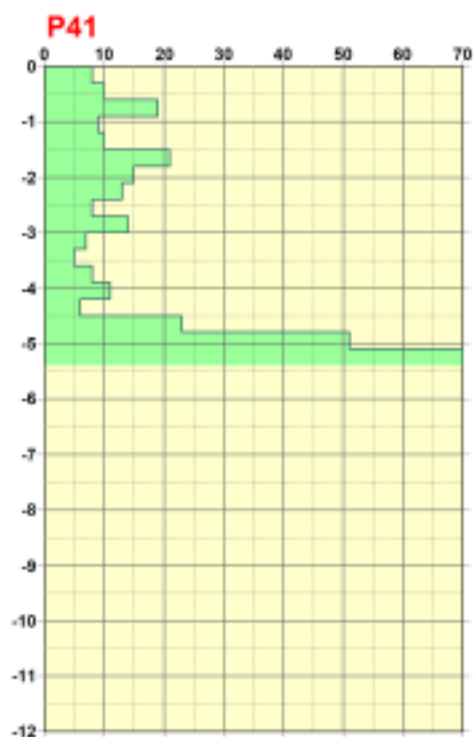


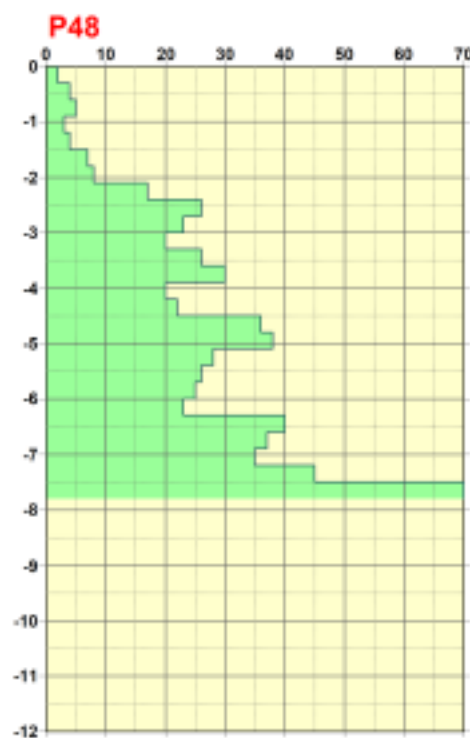
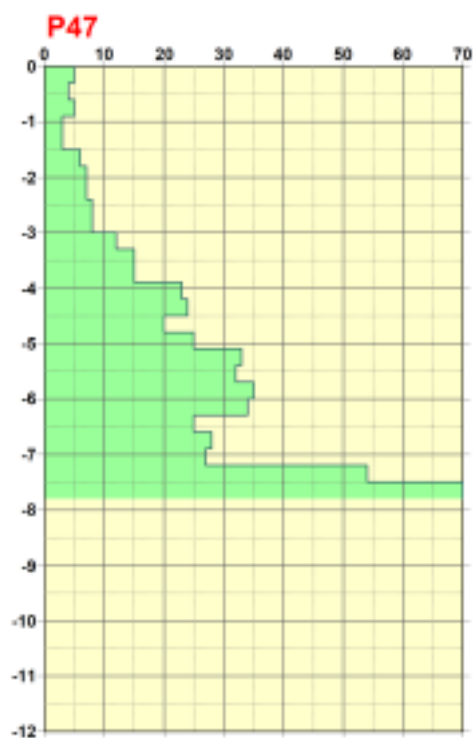
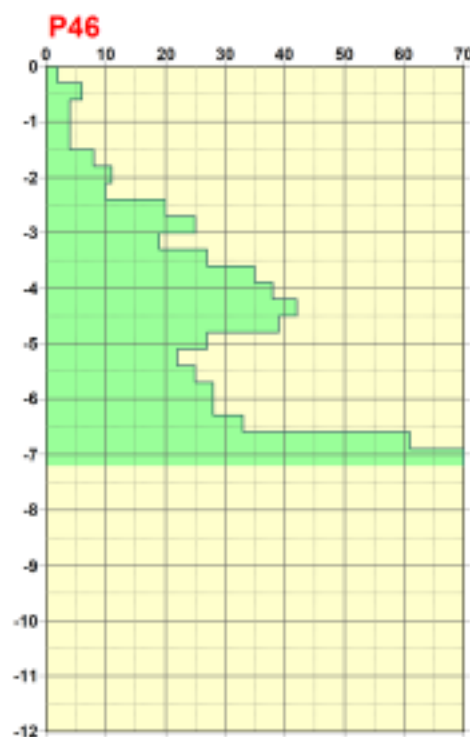
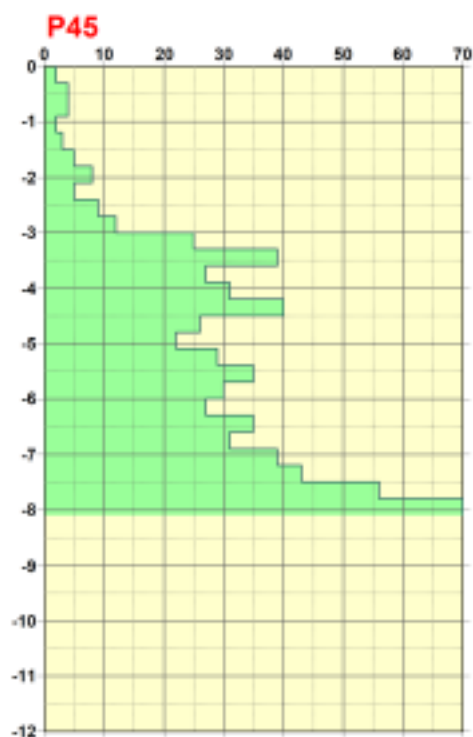


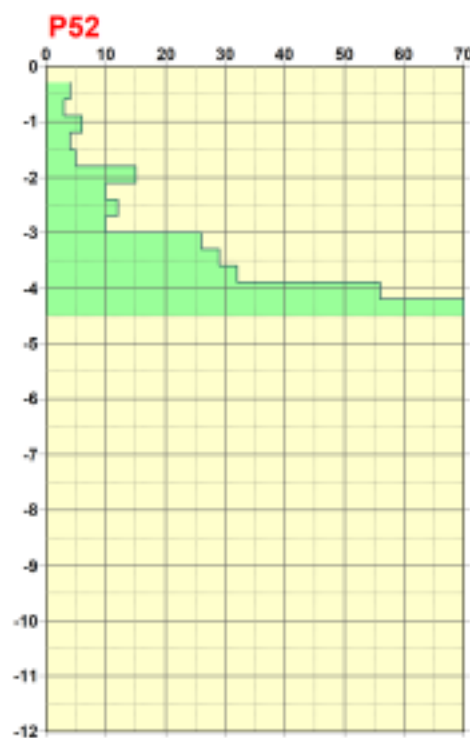
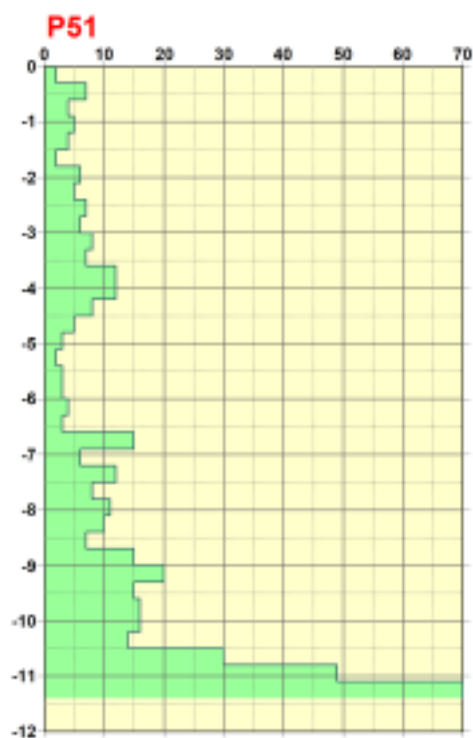
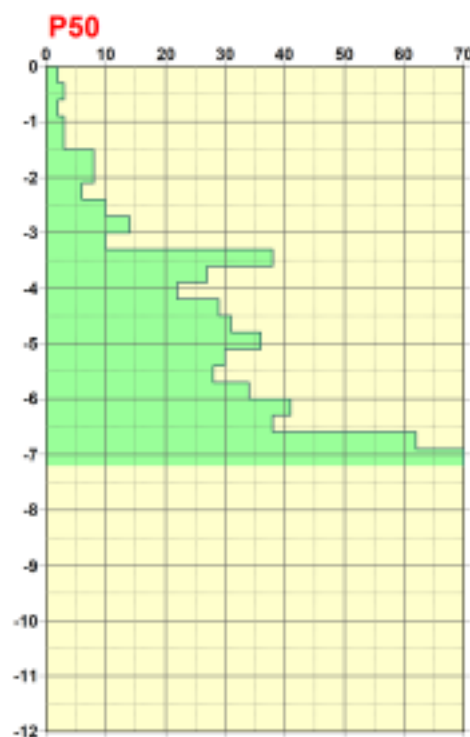
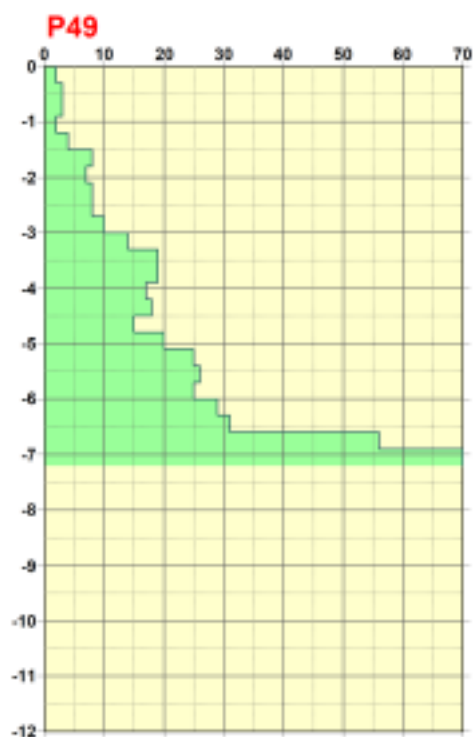


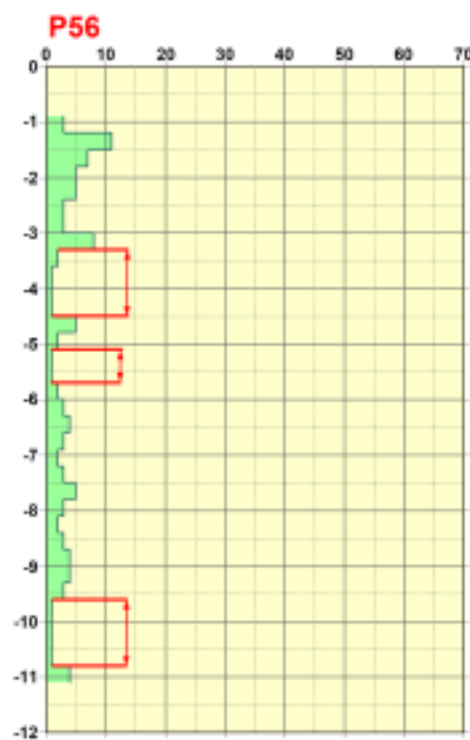
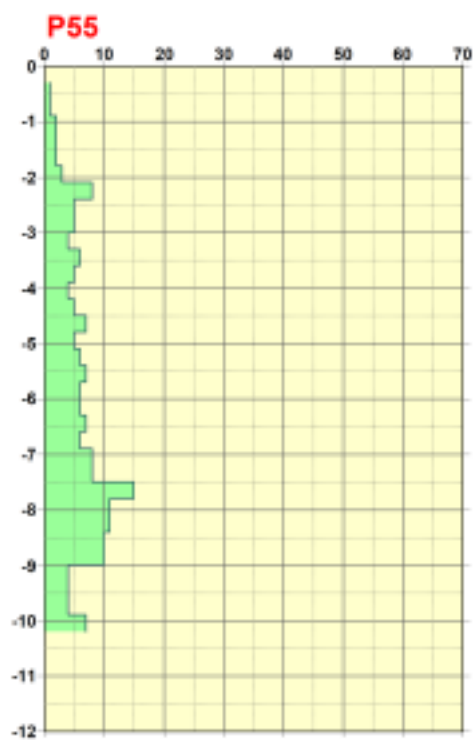
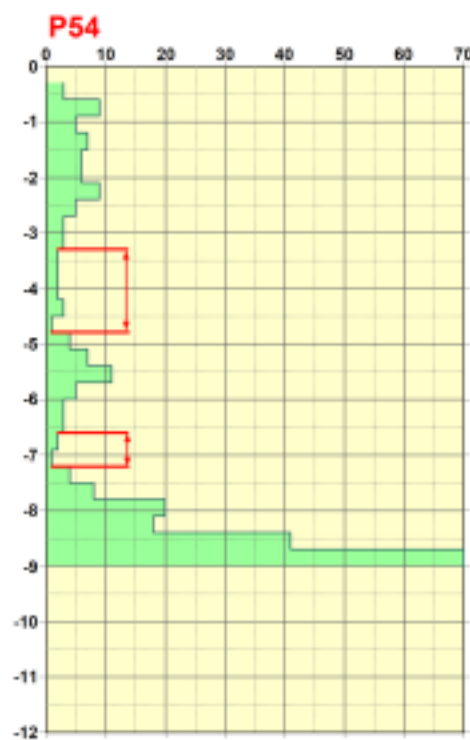
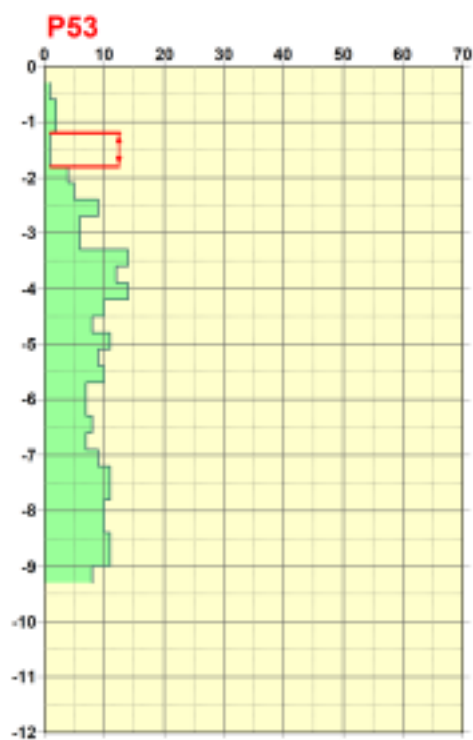


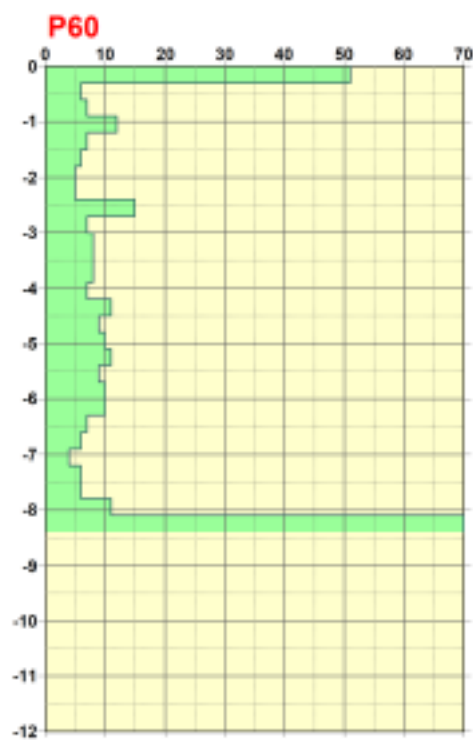
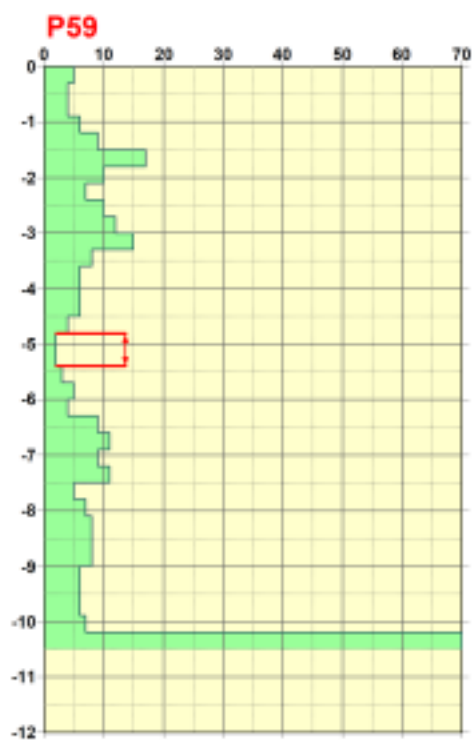
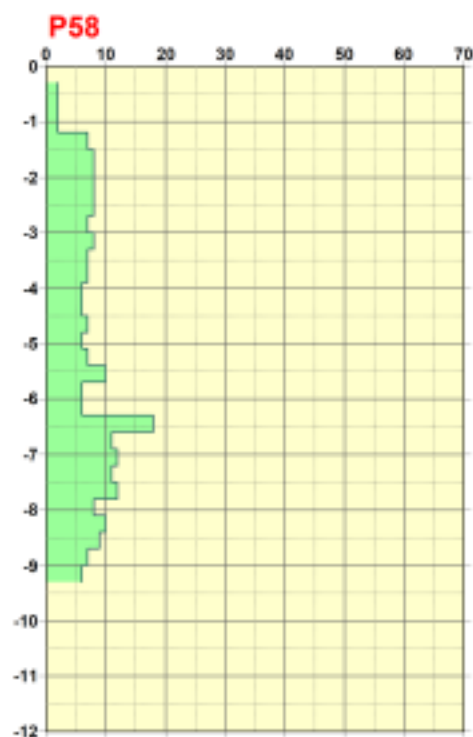
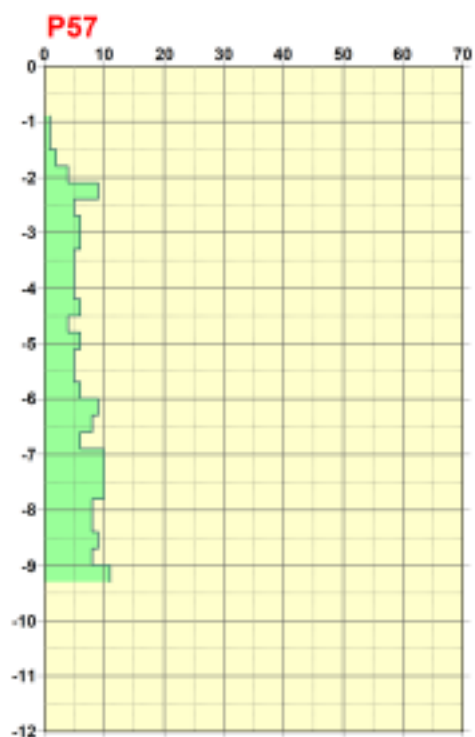


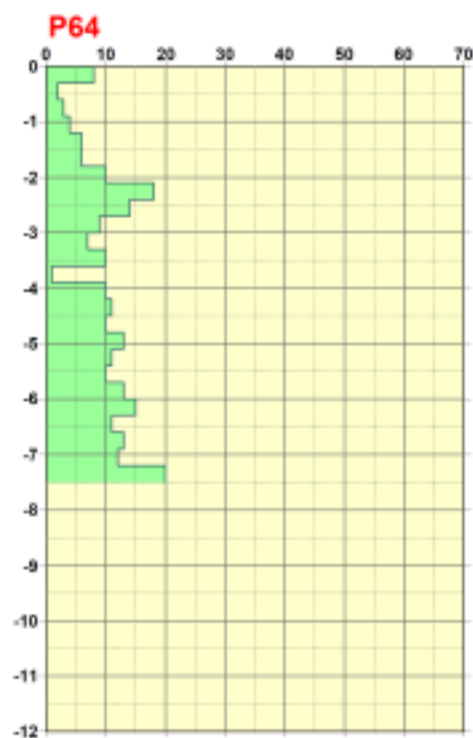
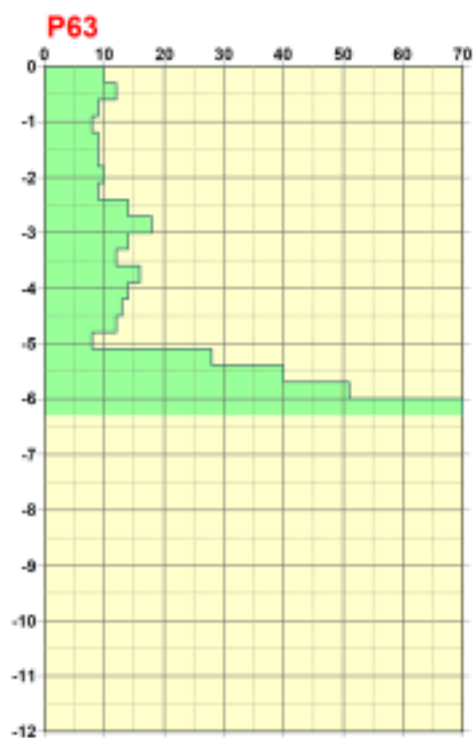
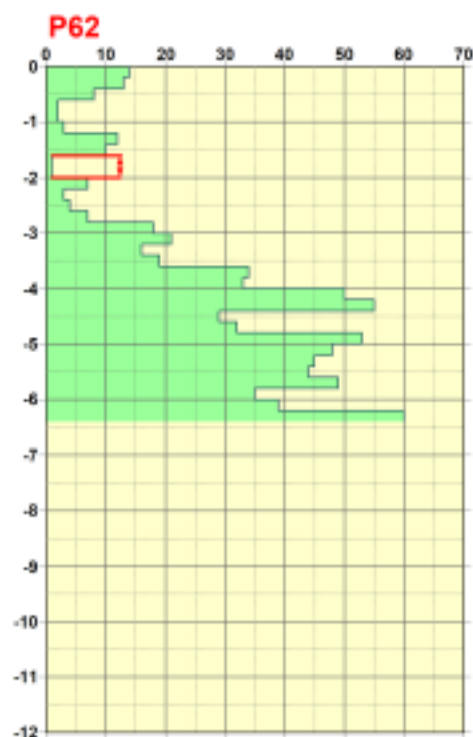
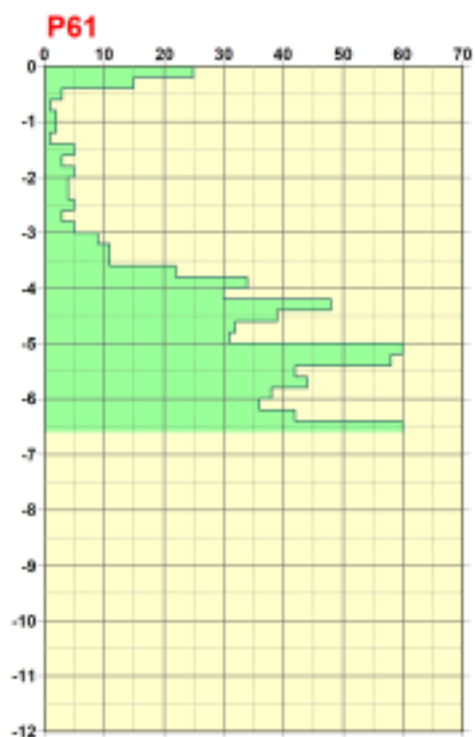


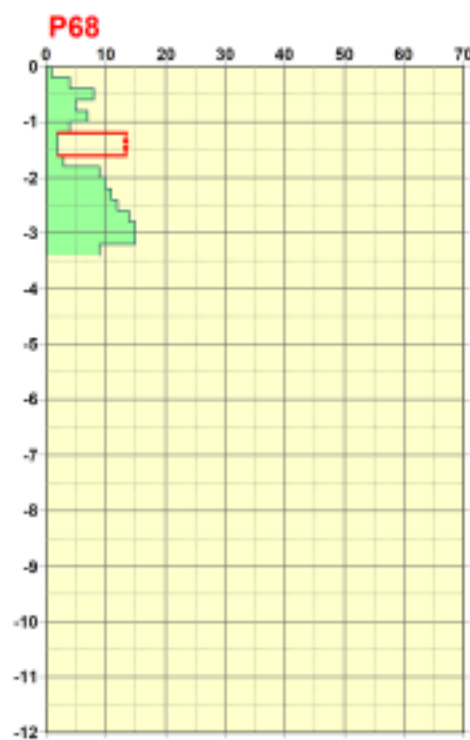
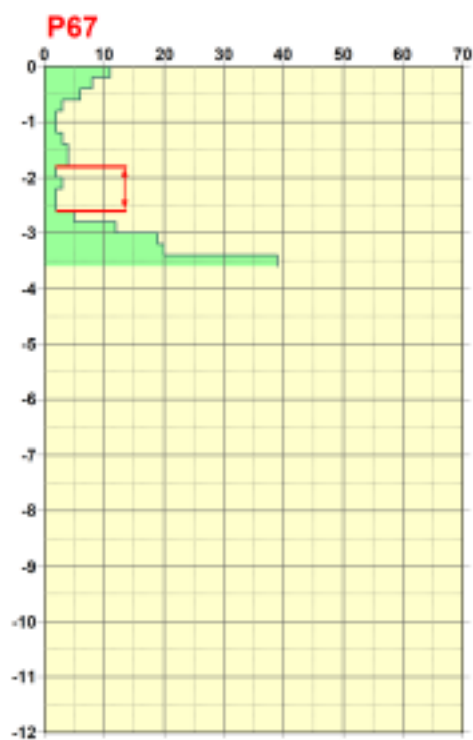
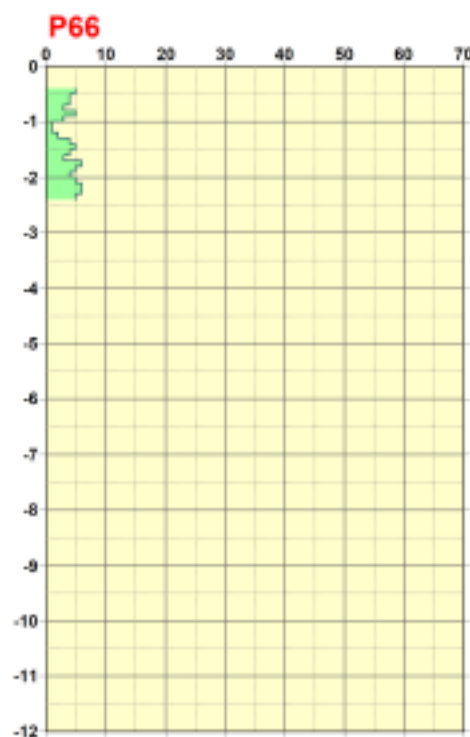
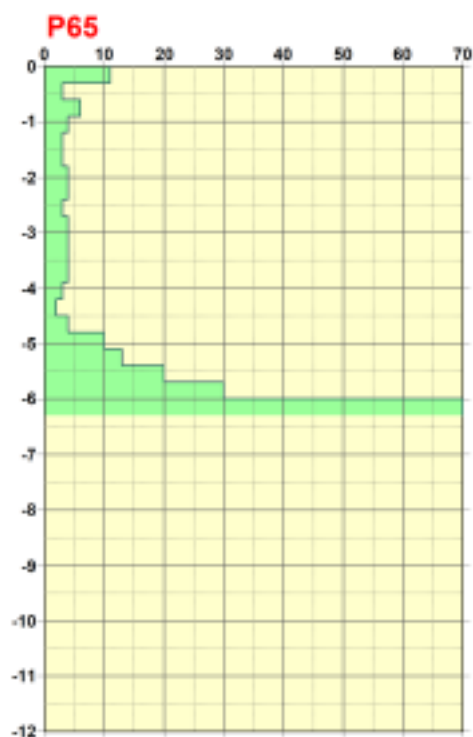


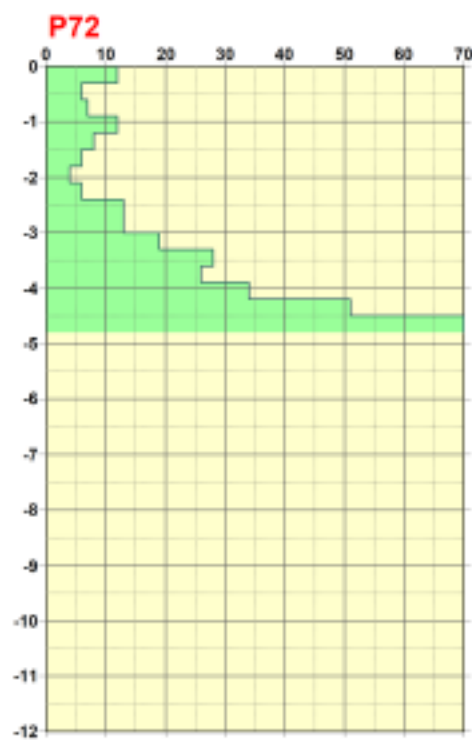
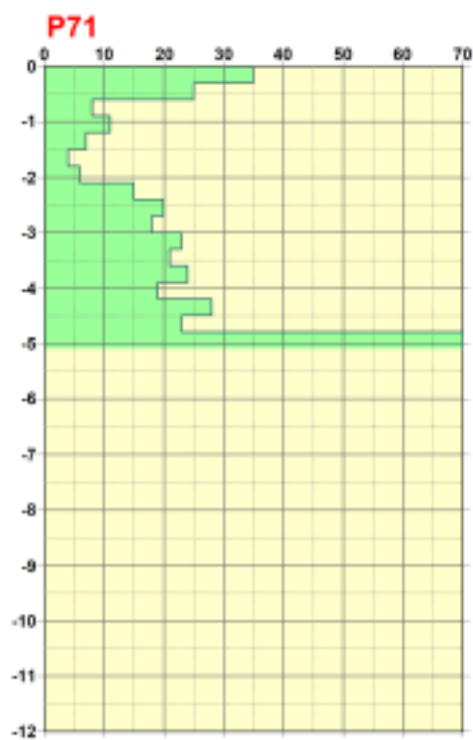
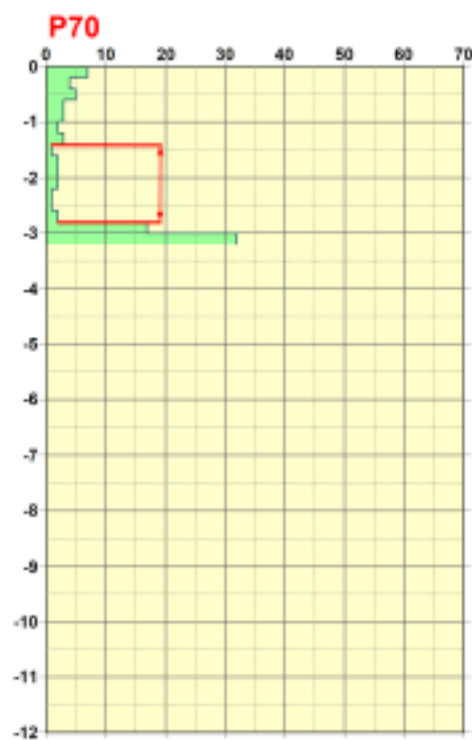
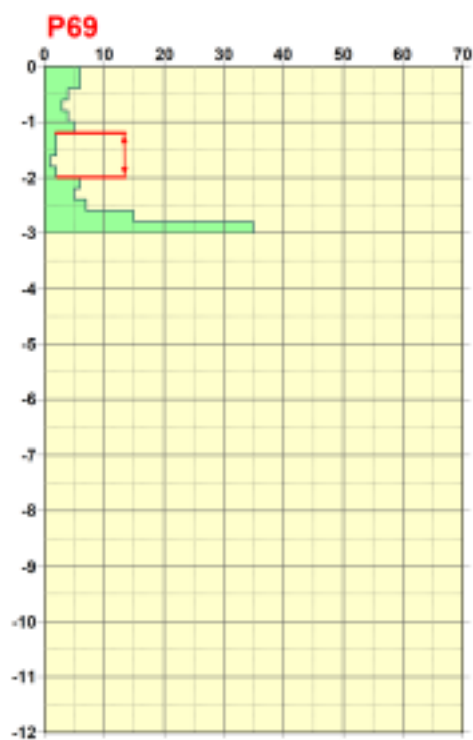


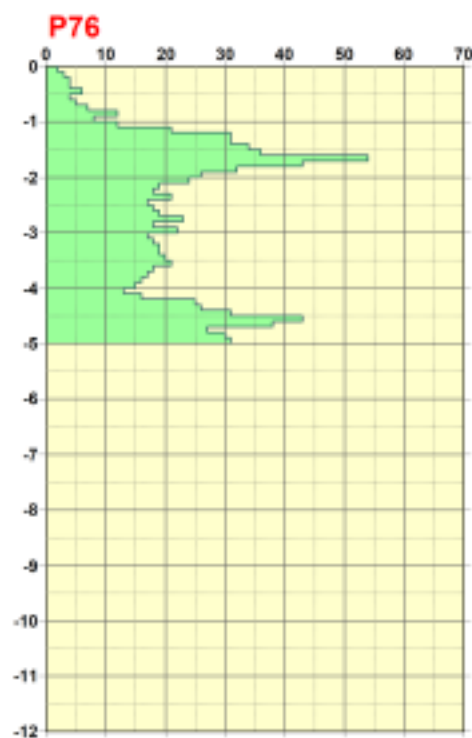
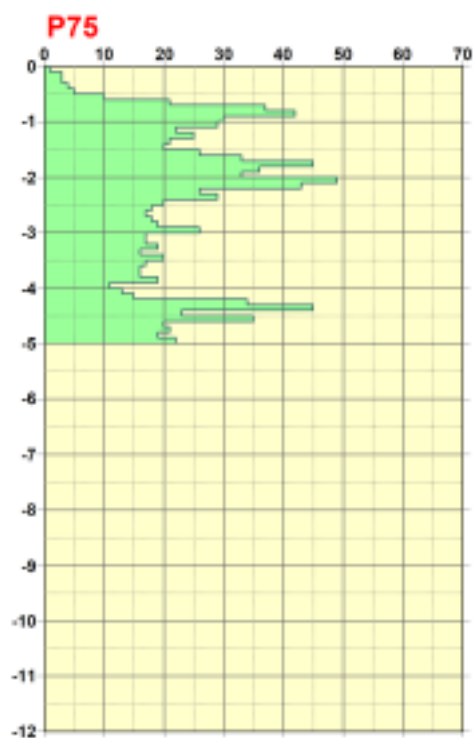
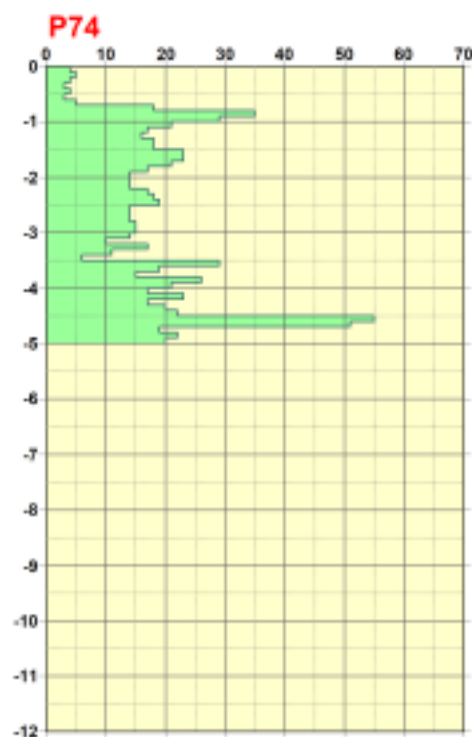
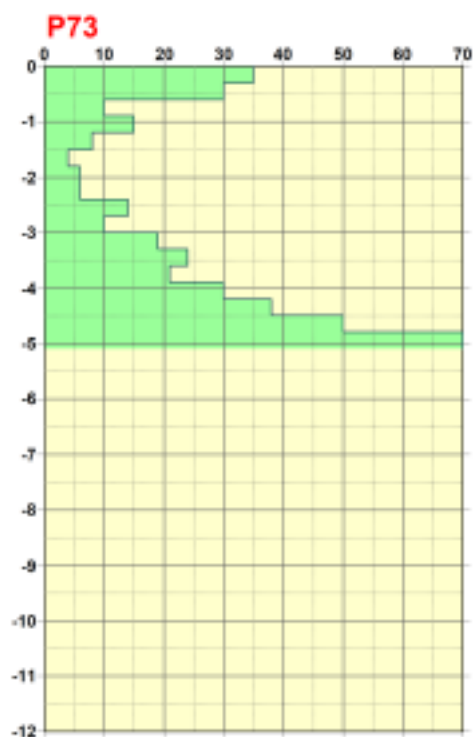


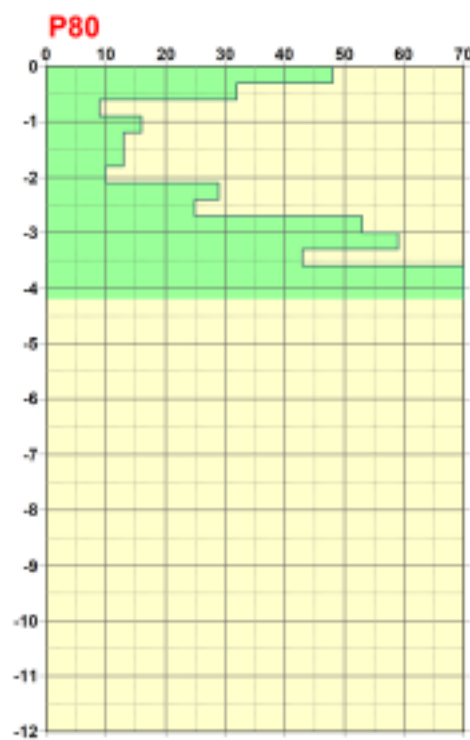
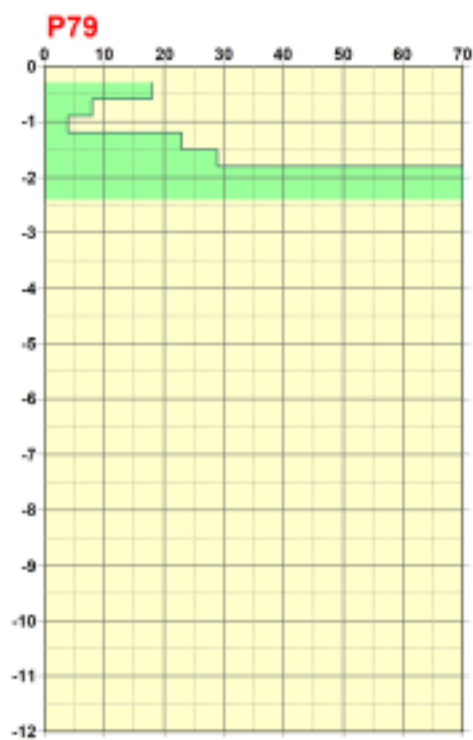
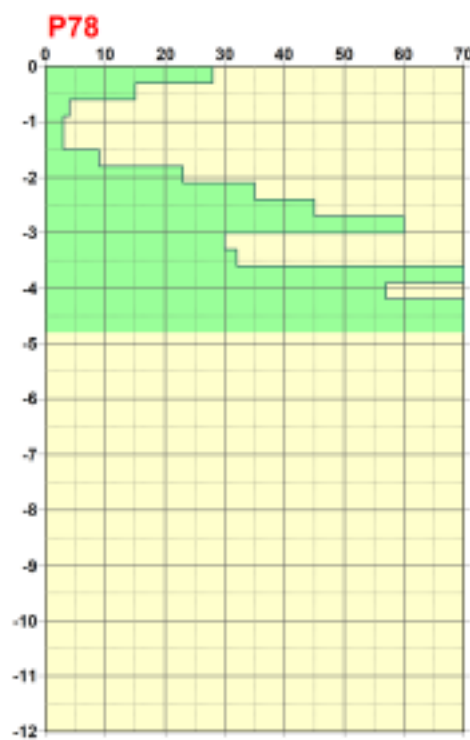
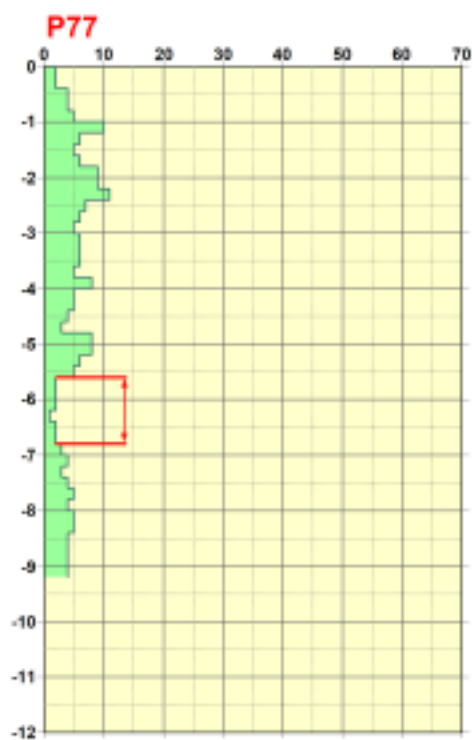


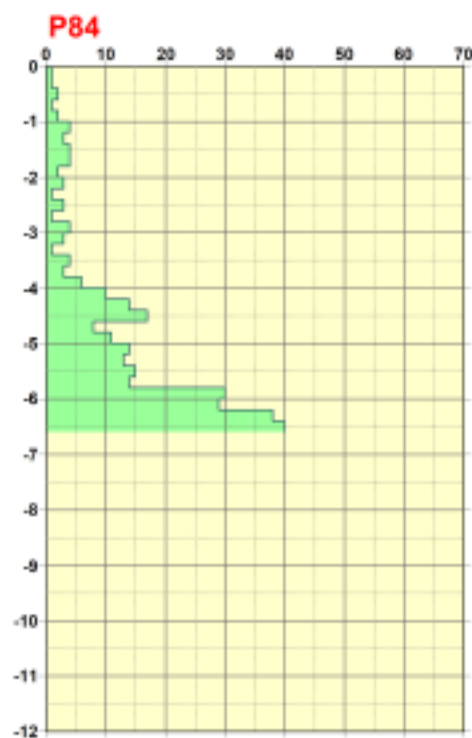
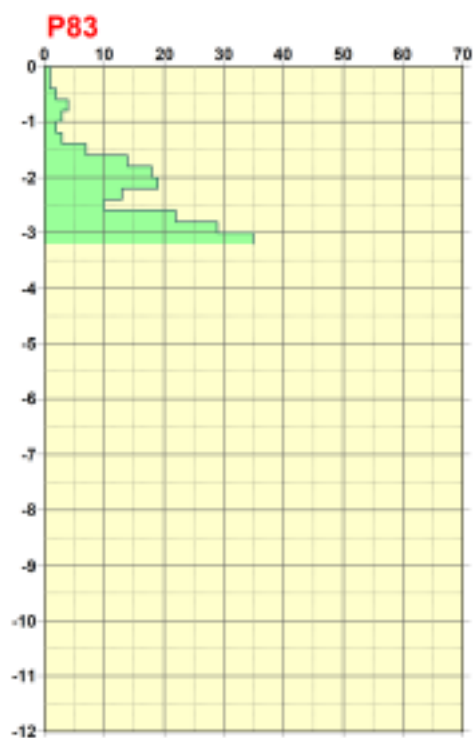
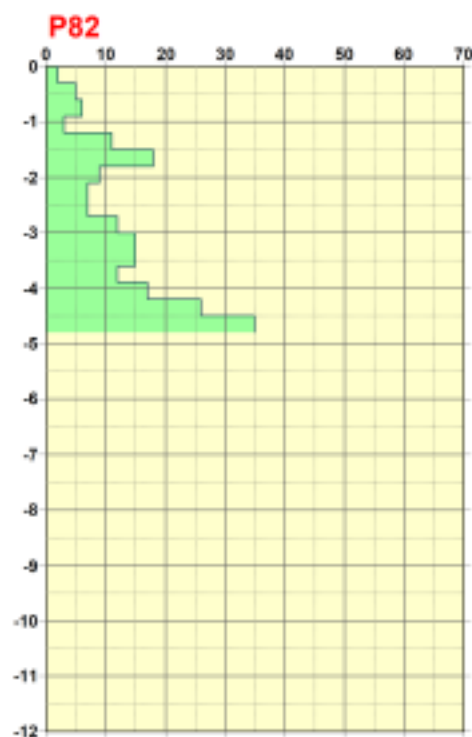
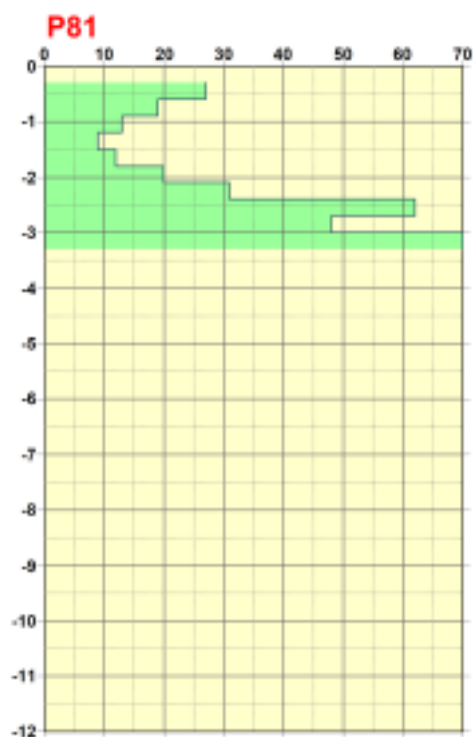


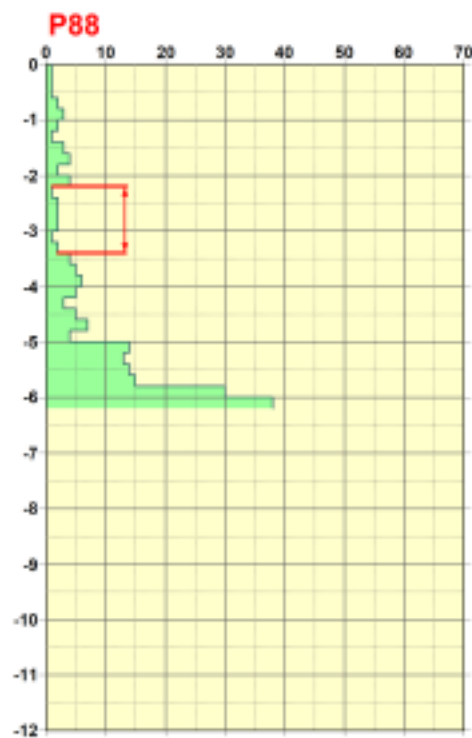
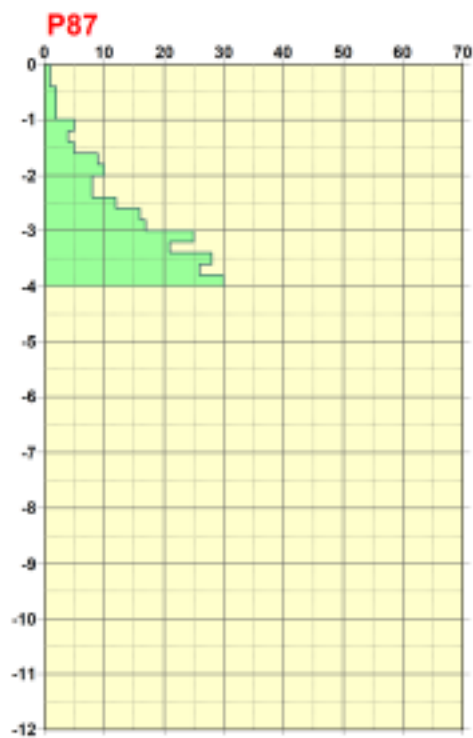
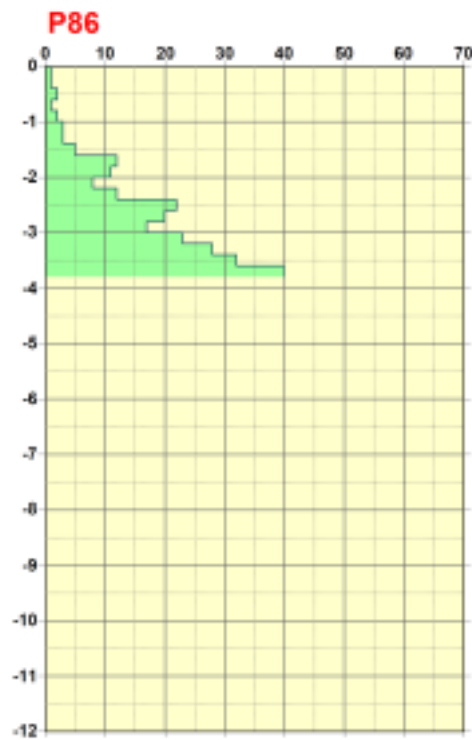
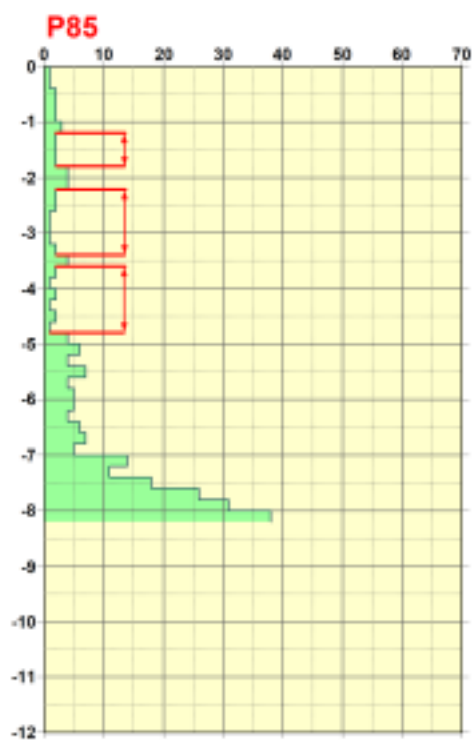


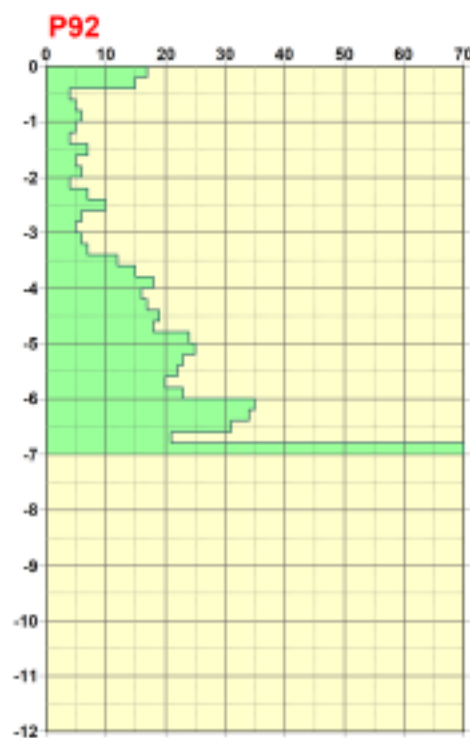
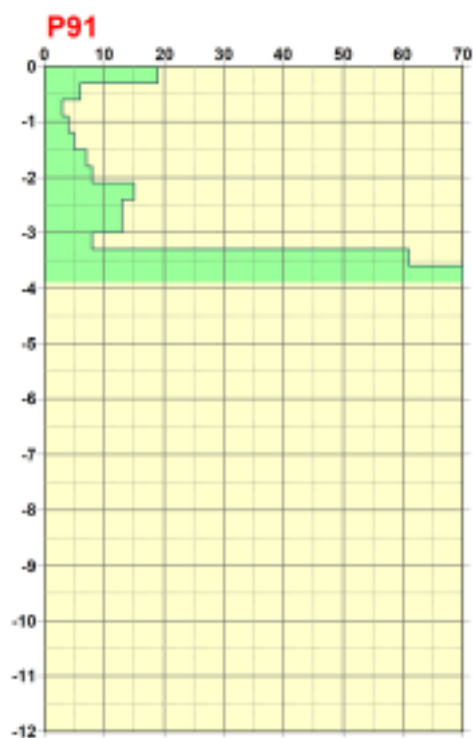
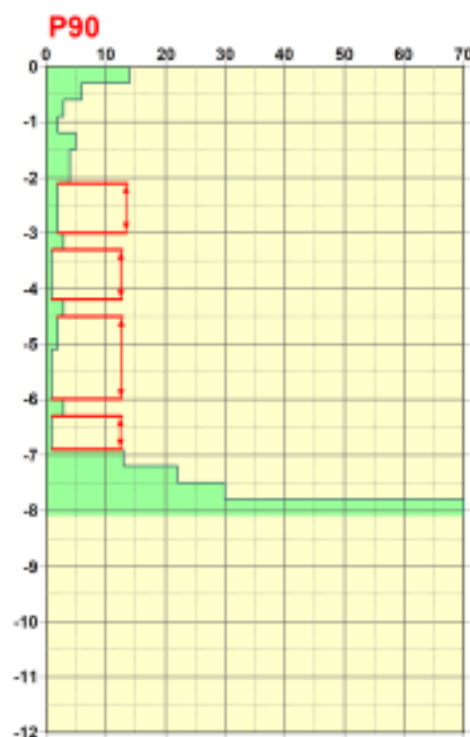
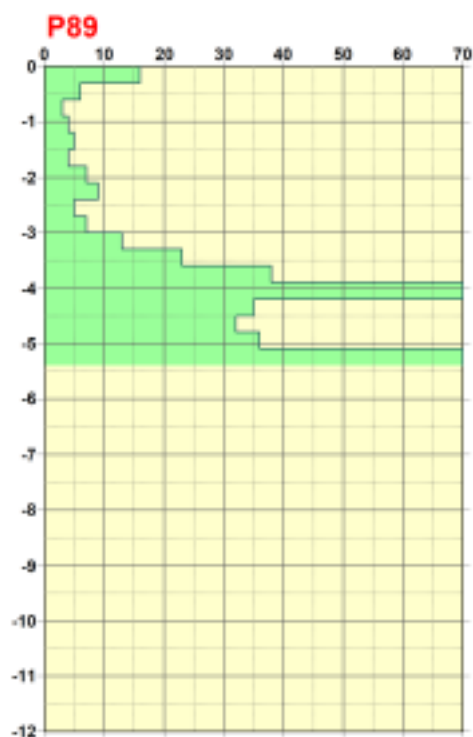


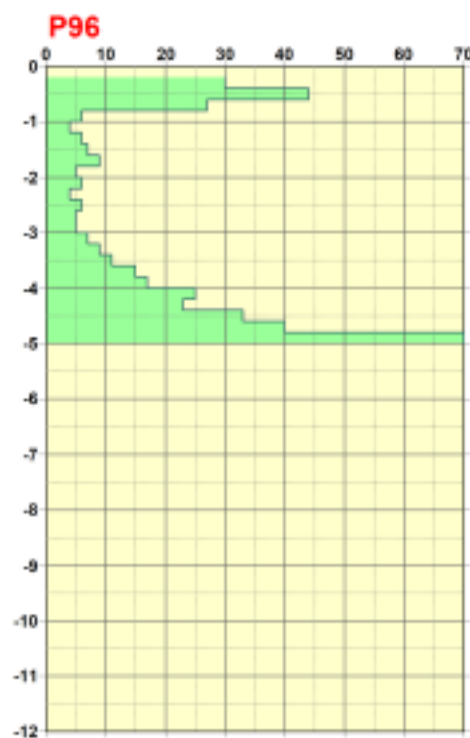
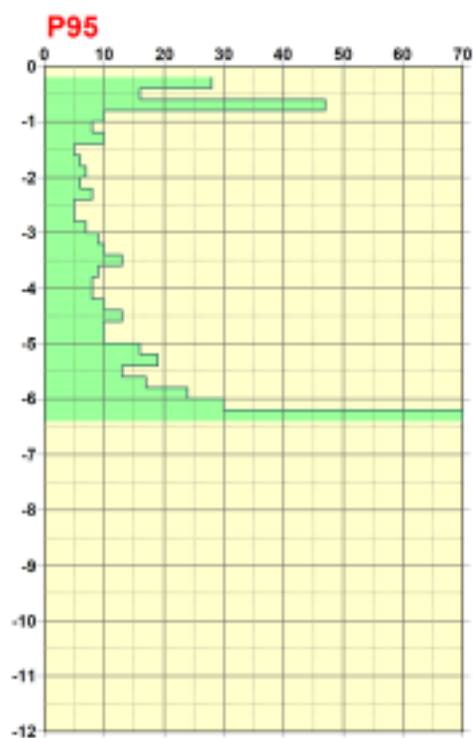
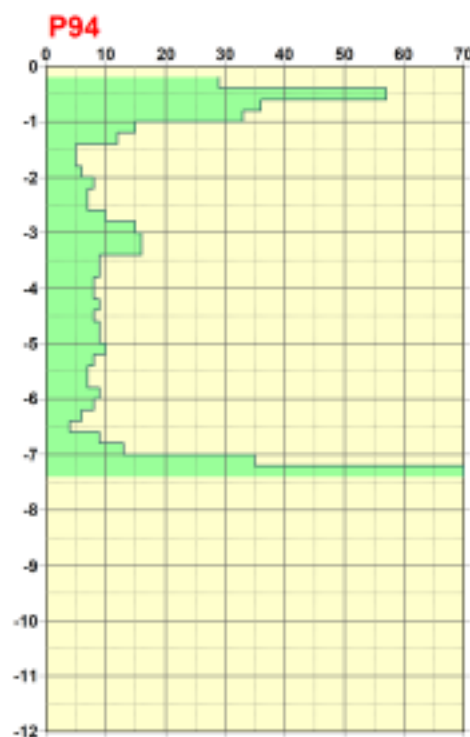
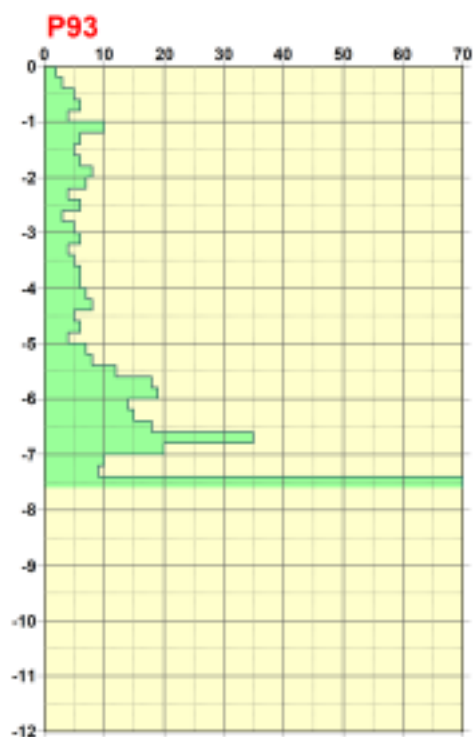


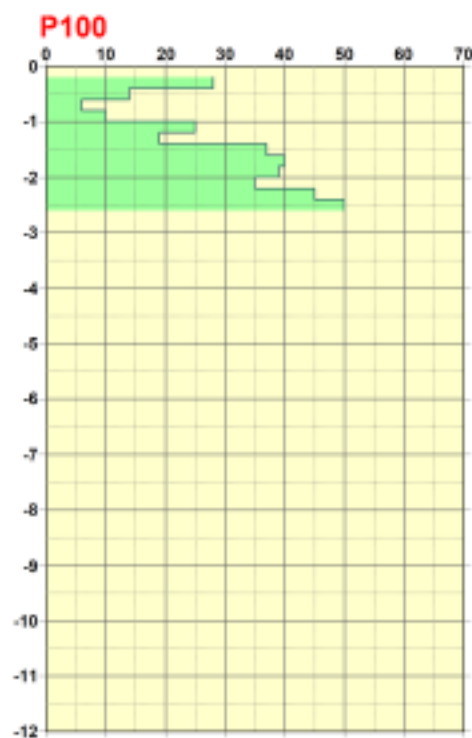
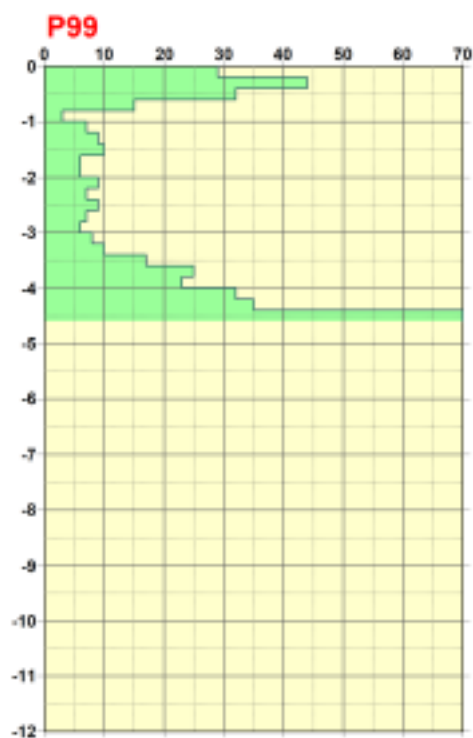
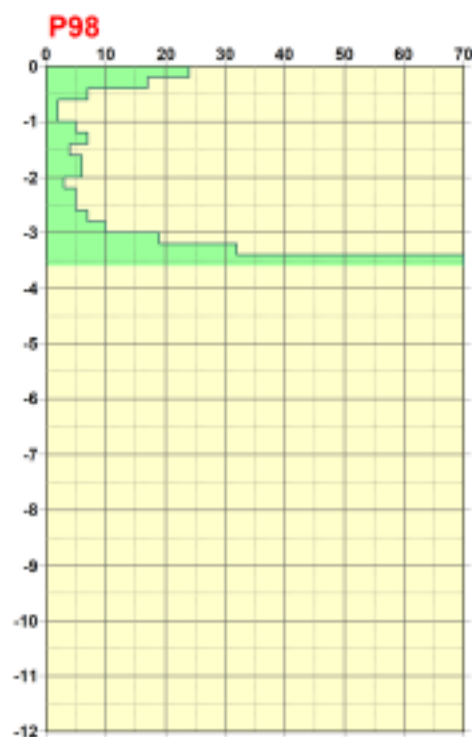
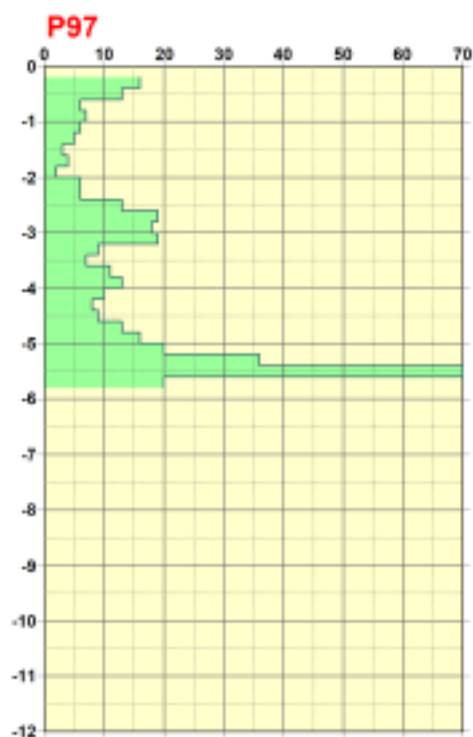


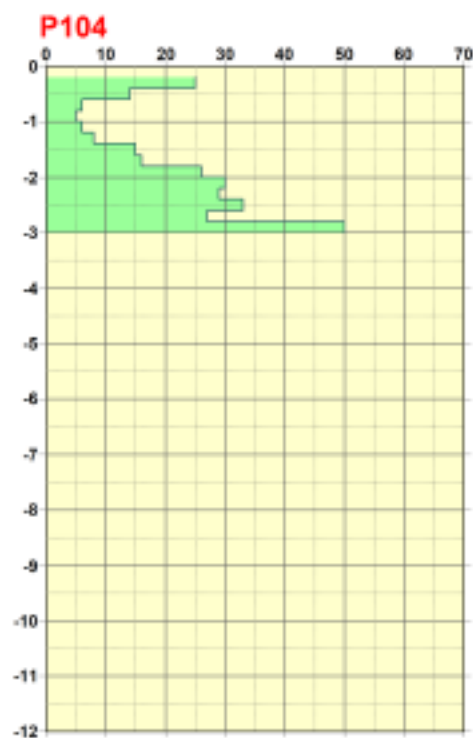
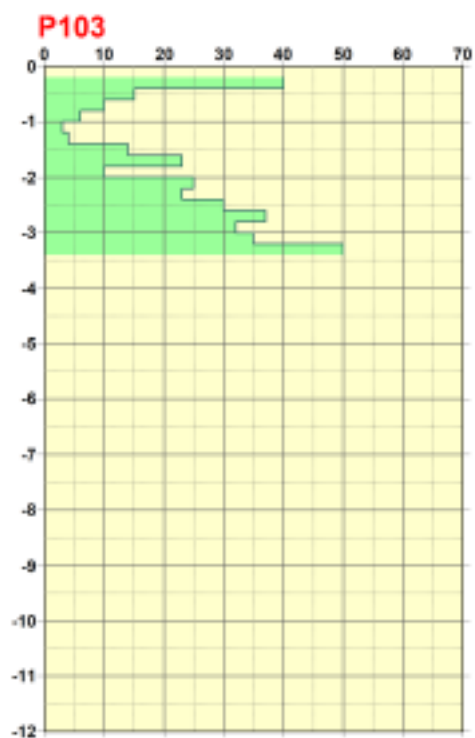
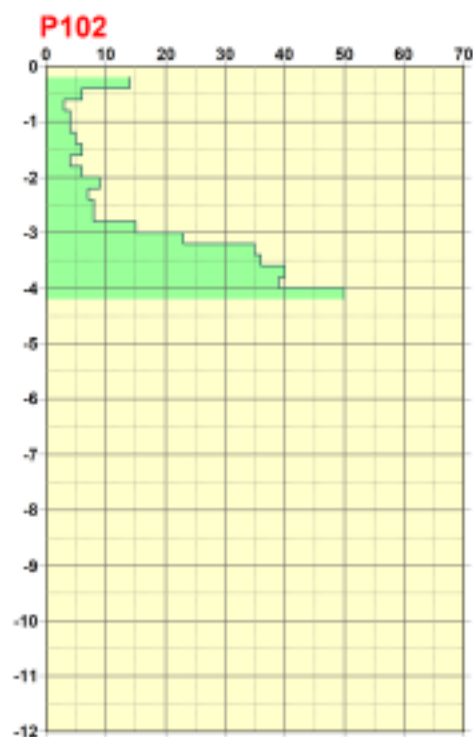
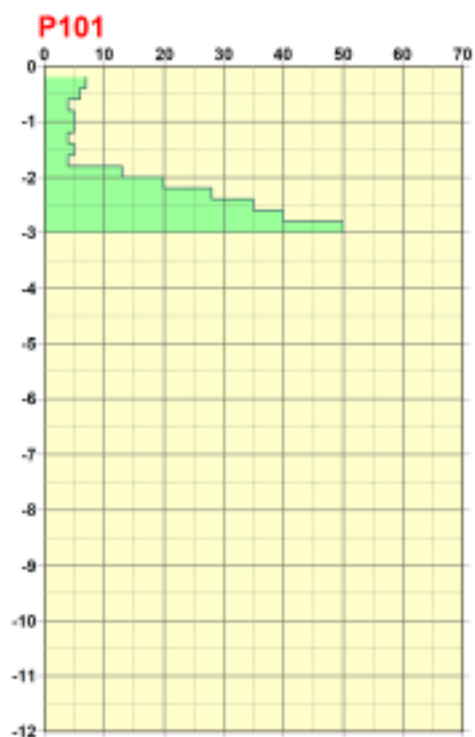


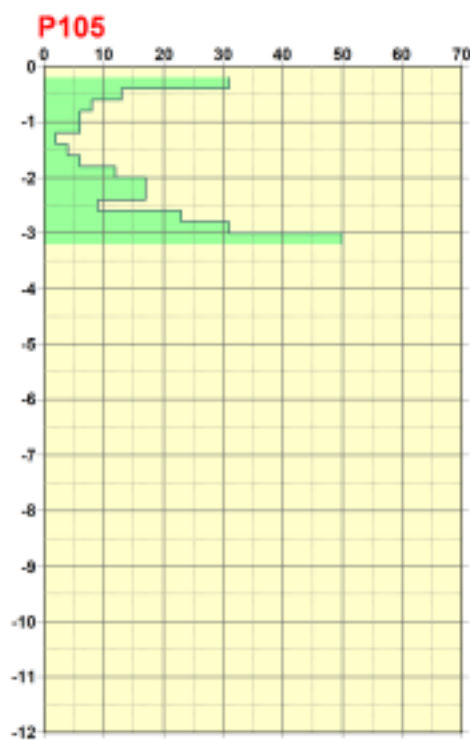












**IGT1**

P8-P9-P10-P11

Profondità dal p.c. (m)	N	γ (ton/m ³)	ϕ (°)
0 – 1.0	< 4	1.7	-
1.0 – 8.0	10-12	1.8	28
Note: -			

P12-P13

Profondità dal p.c. (m)	N	γ (ton/m ³)	ϕ (°)
0 – 0.5	< 4	1.7	-
0.5 – 5.0	8-10	1.8	27
5.0 – 8.0	15	1.9	30
Note: -			

P14

Profondità dal p.c. (m)	N	γ (ton/m ³)	ϕ (°)
0 – 4.0	< 4	1.7	-
4.0 – 8.0	8 - 10	1.8	27
Note: terreno scadente			

P15-P16-P17

Profondità dal p.c. (m)	N	γ (ton/m ³)	ϕ (°)
0 – 3.0	5	1.7	25
3.0 – 4.5	15-20	1.9	32
4.5 – 8.5	10-12	1.8	28
Note: intercalazioni di ghiaia fresca			

P18-P19-P20

Profondità dal p.c. (m)	N	γ (ton/m ³)	ϕ (°)
0 – 3.5	5	1.7	25
3.5 – 4.5	15-20	1.9	32
Note: -			

IGT2

P21-P25

Profondità dal p.c. (m)	N	γ (ton/m ³)	ϕ (°)
0 – 2.0	2-6	1.7-1.75	27-28
2.0 – 7.6	16-18	1.8-1.85	31-32
7.6 – 8.4	40-62	1.9-1.95	> 40
> 8.4	> 100	> 1.95	> 40
Note: terreno discreto (da moderatamente addensati a addensati)			

IGT3

P26-P29

Profondità dal p.c. (m)	N	γ (ton/m ³)	ϕ (°)
0 – 3.0	2-4	1.6-1.65	23-24
3.0 – 5.1	15-23	1.75-1.80	31-34
(*) 2.1 a 4.5	7	1.7	27
5.1 – 6.0	47-64	1.8-1.85	37-39
> 6	>100	1.85-1.90	>40
Note: ((*) strato presente in P29), buone caratteristiche geotecniche per P26-P27-P28, discreto in P29.			

**IG4**

P30-P38

Profondità dal p.c. (m)	N	γ (ton/m ³)	ϕ (°)
0 – 2.4	4	1.8	27
> 2.4	25	1.85	34
Note: terreno con caratteristiche da buone a ottime			

IGT6

P44-P45-P46-P47-P48-P49-P50

Profondità dal p.c. (m)	N	γ (ton/m ³)	ϕ (°)
0 – 1.5	4	1.7	26
1.5 – 2.5	7	1.8	28
> 2.5	35	1.9	36
Note: terreno da discreto			

P51

Profondità dal p.c. (m)	N	γ (ton/m ³)	ϕ (°)
0 – 2	4	1.7	26
2 – 3.5	7	1.8	28
3.5 – 6.5	5	1.8	27
> 6.5	35	1.9	36
Note: terreno scadente			

IGT8

P53-P58

Profondità dal p.c. (m)	N	γ (ton/m ³)	ϕ (°)
0.0 – 1.8/9.0	2-4	1.7	26
3.6 – 5.7 e 9.6 – 10.8 (*)	1-2	1.6	22
1.8 – 8.0/9.0	6-10	1.8-1.9	28-30
8.0 – 9	> 50	2.0-2.1	36
Note: terreno molto scadente, probabili "occhi pollini" (* strato presente in P54-P56)			

IGT9

P59-P60

Profondità dal p.c. (m)	N	γ (ton/m ³)	ϕ (°)
0 – 1.5	4-5	1.7	27-28
1.5 – 3.3	10-15	1.80-1.85	32-34.5
3.3 – 10.2	2-6	1.65-1.75	25.5-29
10.2 – 10.5	>10	>1.80	>32
Note: terreno scadente, probabili "occhi pollini"			

IGT10

P61-62

Profondità dal p.c. (m)	N	γ (ton/m ³)	ϕ (°)
0 – 0.6	20	17.9	26
1.5 – 3.0	5	17.3	24
3.0 – 3.6	11	17.4	29
3.6 – 5.0	33	19.8	33
5.0 – 6.4	39	19.8	34
6.4 – 7.2	50	19.8	36
Note: terreno pessimo-scadente fino ai 3 m			

**IGT12**

P63-P65

Profondità dal p.c. (m)	N	γ (ton/m ³)	ϕ (°)
0 – 4.8	6	15.5	28.9
4.8 – 6.8	13	17.8	30.8
6.8 – 7.5	28	20.5	35.5

Note: terreno scadente fino ai 4.8 m

IGT14

P67-P70

Profondità dal p.c. (m)	N	γ (ton/m ³)	ϕ (°)
0 – 2.4	3.76	16.74	29.82
2.4 – 3.0	14.76	18.60	31.76
3.0 – 3.6	33.50	20.99	36.15

Note:

IGT15

P71-P73

Profondità dal p.c. (m)	N	γ (ton/m ³)	ϕ (°)
0 – 1.5	-	17.0	29
1.5 – 2.4	-	16.5	28
2.4 – 4.8	-	19.0	35

Note: possibile netta variabilità laterale in termini di litologia e di caratteristiche geomeccaniche.

IGT17

P74-P76

Profondità dal p.c. (m)	N	γ (ton/m ³)	ϕ (°)
-			

Note: terreno con caratteristiche da buone a ottime

IGT18

P77

Profondità dal p.c. (m)	N	γ (ton/m ³)	ϕ (°)
Parametri non disponibili			

Note: possibile presenza di "occhi pollini".

IGT20

P78-P81 (* strato assente in P81)

Profondità Dal p.c. (m)	N	γ (ton/m ³)	ϕ (°)
0.0 – 0.6	Asfalto		
0.6 – 0.9/1.8 (*)	5-6	1.70-1.75	28-29
1.9/1.8 – 2.4/4.8	> 20	> 1.90	> 36

Note: caratteristiche geotecniche da buone a ottime

**IGT22**

P83-P88

Profondità dal p.c. (m)	N	γ (ton/m ³)	ϕ (°)
Parametri non disponibili			
Note: terreno scadente, zona a rischio di "occhi pollini".			

IGT24

P89-P91

Profondità dal p.c. (m)	N	γ (ton/m ³)	ϕ (°)
0.0 – 0.3	18	19.93	32.0
0.3 – 3.0	6	16.38	27.0
3.0 – 13.0	26	21.17	35.0
Note: possibile presenza di "occhi pollini" o riporti non costipati.			

IGT25

P92-P93

Profondità dal p.c. (m)	N	γ (ton/m ³)	ϕ (°)
0.0 – 3.5/5.5	-	1.65-1.70	25-26
3.5/5.5 – 7.5	-	1.75-1.90	32-34
Note: terreno con discrete caratteristiche geotecniche			

IGT26

P94-P99

Profondità dal p.c. (m)	N	γ (ton/m ³)	ϕ (°)
0.0 – 3.5/5.5	-	1.65-1.70	26-28
3.5/5.5 – 7.5	-	1.75-1.80	32-34
Note: terreno con discrete caratteristiche geotecniche			

IGT27

P100-P105

Profondità dal p.c. (m)	N	γ (ton/m ³)	ϕ (°)
0.0 – 1.45	-	19.0-22.0	35
1.45 – 1.80	-	18.5-21.5	32
1.80 – 2.23	-	22.0-24.0	39
2.23 – 2.56	-	18.5-21.5	27
2.56 – 3.00	-	19.0-22.0	33
Note: Terreno scadenti ma nessuna evidenza di occhi pollini			





Parte 2

PROVE PENETROMETRICHE DINAMICHE STANDARD SPT in foro



**SONDAGGIO S1 –****Pf1**

Profondità (m)	Nr. Colpi
2.65	39
2.80	50
2.95	0

Pf2

Profondità (m)	Nr. Colpi
7.15	45
7.30	50
7.45	0

Pf3

Profondità (m)	Nr. Colpi
12.35	29
12.50	43
12.65	40

Pf4

Profondità (m)	Nr. Colpi
17.15	44
17.30	50
17.45	0

Pf5

Profondità (m)	Nr. Colpi
20.15	19
20.30	34
20.45	44

Pf6

Profondità (m)	Nr. Colpi
24.55	9
24.70	12
24.85	18

Pf7

Profondità (m)	Nr. Colpi
27.65	14
27.80	18
27.95	21

**SONDAGGIO S2 –****Pf8**

Profondità (m)	Nr. Colpi
2.75	5
2.90	8
3.05	12

Pf9

Profondità (m)	Nr. Colpi
6.25	37
6.40	46
6.55	50

Pf10

Profondità (m)	Nr. Colpi
11.85	10
12.00	16
12.15	17

Pf11

Profondità (m)	Nr. Colpi
14.75	7
14.90	11
15.05	11

Pf12

Profondità (m)	Nr. Colpi
16.95	9
17.10	13
17.25	16

Pf13

Profondità (m)	Nr. Colpi
23.95	8
24.10	14
24.25	14

Pf14

Profondità (m)	Nr. Colpi
28.65	10
28.80	13
28.95	16



Parte 3

PROVE PENETROMETRICHE STATICHE

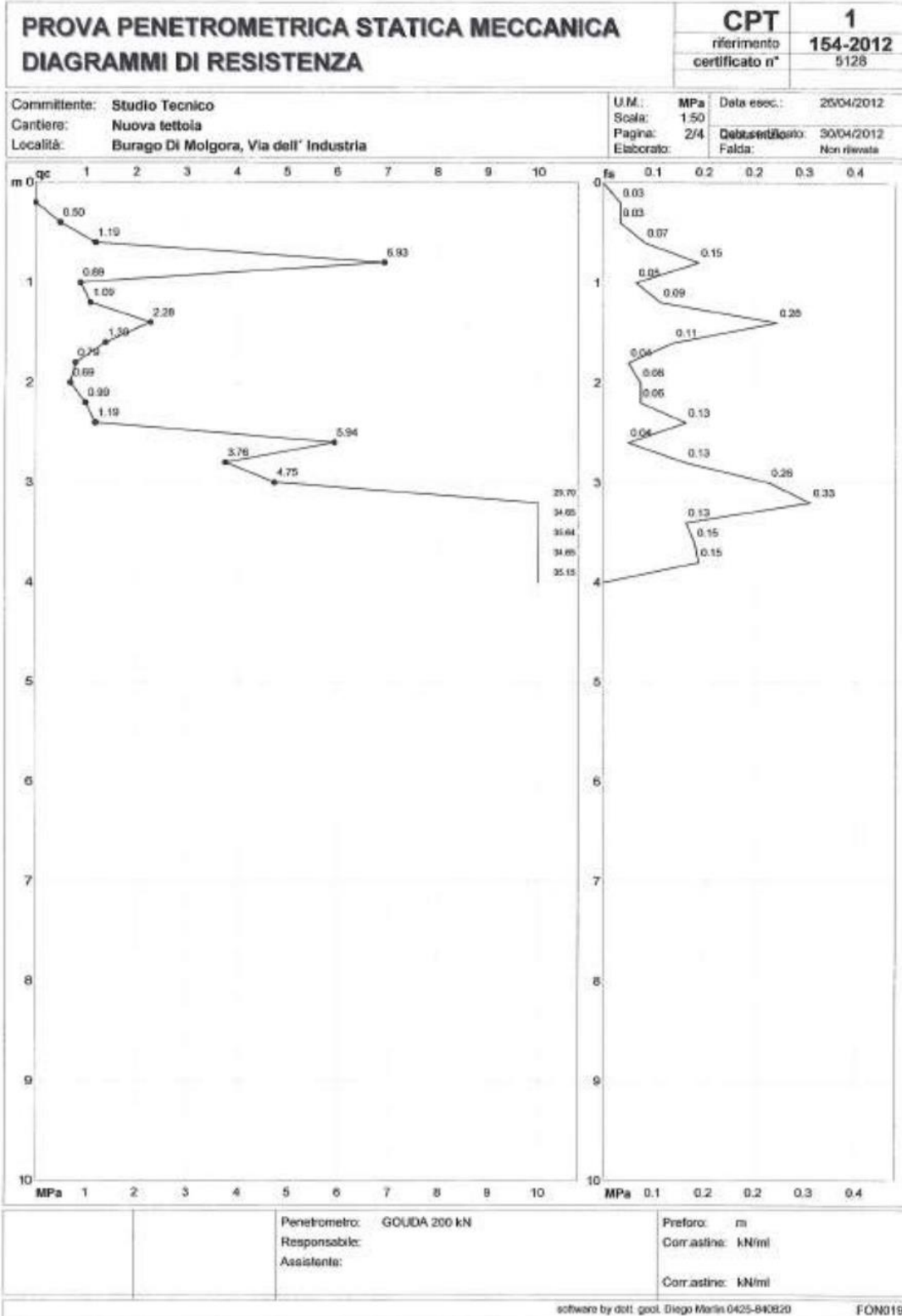




Ps1

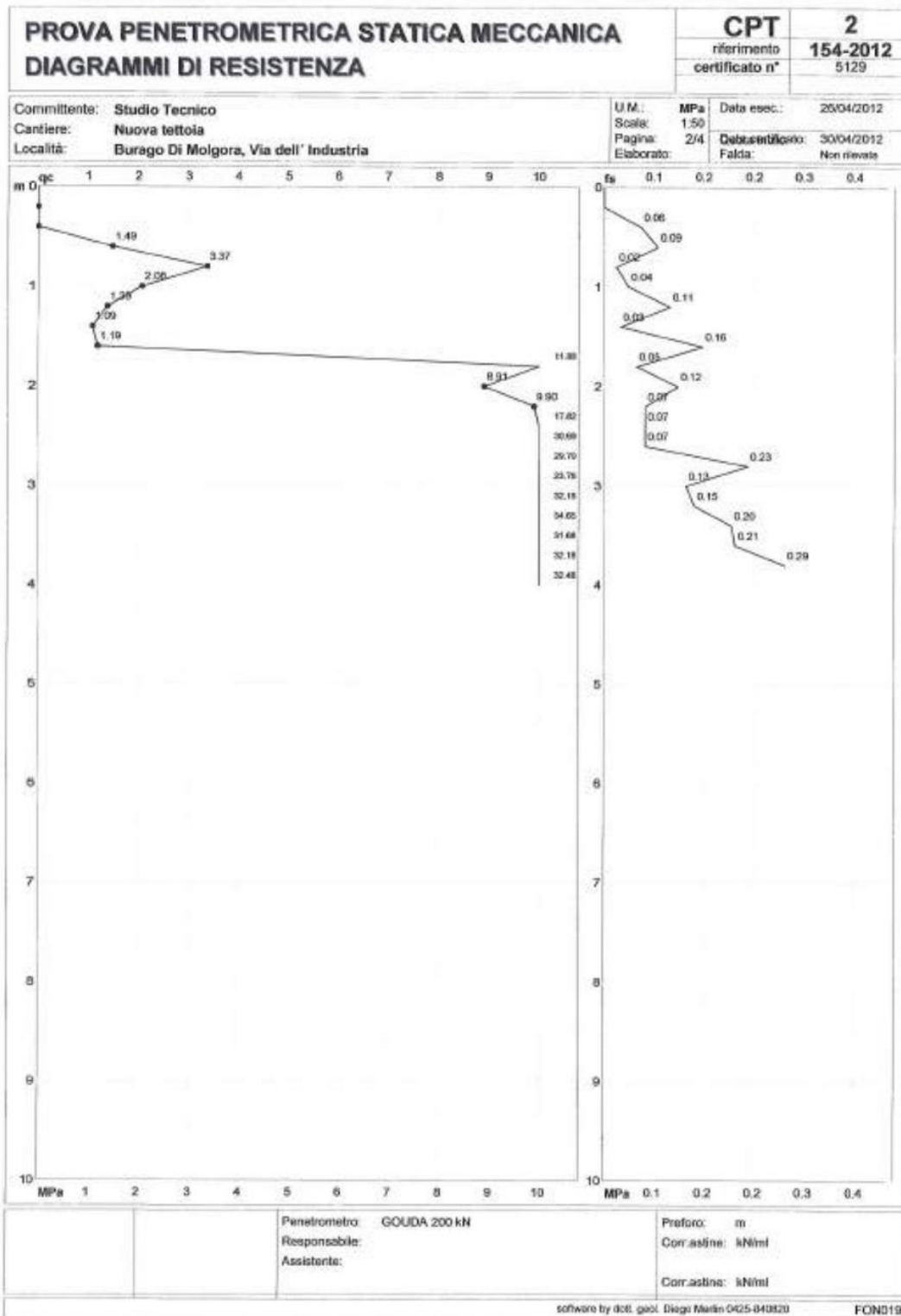


GEO GROUP S.R.L.
via Cesare Costa, 182 - 41100 Modena



**Ps2**

GEO GROUP S.R.L.
via Cesare Costa, 182 - 41100 Modena





Parte 4

TRINCEE / SCAVI ESPLORATIVI



**Trincea TrA**

Profondità dal p.c. (m)	Caratteristiche litologiche
0.00 – 0.40	Terreno agrario
0.40 – 1.70	Sabbie e limi d'alterazione colore ocra
1.70 – 2.30	Rari ciottoli in abbondante matrice limo-argillosa
2.30 – 3.10	Ghiaia mediamente alterata in abbondante matrice argillosa
3.10 – 3.40	Ghiaie e sabbie ben addensate.

Trincea TrB

Profondità dal p.c. (m)	Caratteristiche litologiche
0.00 – 0.90	Riporto grossolano
0.90 – 1.80	Argille e limi con rari ciottoli
1.80 – 2.30	Ghiaie alterate in matrice limo-argillosa
2.30 – 3.10	Ghiaia e sabbie grigiastre

Trincea TrC**GeoArbon**Studio**TRINCEA T1****Località:**

Burago Molgora (MB), Ambito 4 di Trasformazione Residenziale

Data: 16/02/2021**STRATIGRAFIA****Note:**

Profondità da p.c.	Descrizione
0,0 - 0,2 m	Terreno coltivato
0,2 - 0,9 m	Argilla limosa
0,9 - 2,4 m	Argilla sabbiosa limosa inglobante ciottoli

*Stratigrafie trincee esplorative – Ambito 4 di Trasformazione Residenziale, Burago Molgora (MB)*

{ Rif. L. 2800

{ Referente: Simone Origgi

{ Allegato

Trincea TrD**GeoArbon**Studio**TRINCEA T2****Località:**

Burago Molgora (MB), Ambito 4 di Trasformazione Residenziale

Data: 16/02/2021**STRATIGRAFIA****Note:**

Profondità da p.c.	Descrizione
0,0 - 0,3 m	Terreno coltivato
0,3 - 0,8 m	Argilla limosa
0,8 - 4,0 m	Ghiaie e ciottoli in matrice argillosa e grossi ciottoli sparsi

*Stratigrafie trincee esplorative – Ambito 4 di Trasformazione Residenziale, Burago Molgora (MB)*

{ Rif. L. 2800

{ Referente: Simone Origi

{ Allegato

Trincea TrE**GeoArbon**Studio**TRINCEA T3****Località:**

Burago Molgora (MB), Ambito 4 di Trasformazione Residenziale

Data: 16/02/2021**STRATIGRAFIA****Note:**

Profondità da p.c.	Descrizione
0,0 - 0,2 m	Terreno coltivo
0,2 - 1,2 m	Argilla limosa
1,2 - 2,2 m	Argilla sabbiosa limosa inglobante ciottoli

*Stratigrafie trincee esplorative – Ambito 4 di Trasformazione Residenziale, Burago Molgora (MB)*

{ Rif. L. 2800

{ Referente: Simone Origgi

{ Allegato



Parte 5

SONDAGGI / STRATIGRAFIE





Sondaggio S1



UFFICI: via Per Modena, 12 - 41051 Castelnovo R. (MO)
SEDE LEGALE: via C. Costa, 182 - 41123 Modena (MO)
tel. 059/3967169; 059/828367 - FAX 059/5960176 p. Iva e C.F. 02981500362
Email: info@geogroupmodena.it Pec: geo.group@winpec.it Sito: www.geogroupmodena.it
Azienda con Sistema di Gestione della Qualità certificato da DNV - ISO 9001
Operatore APR certificato ENAC per operazioni non critiche - Rif. ENAC 18627

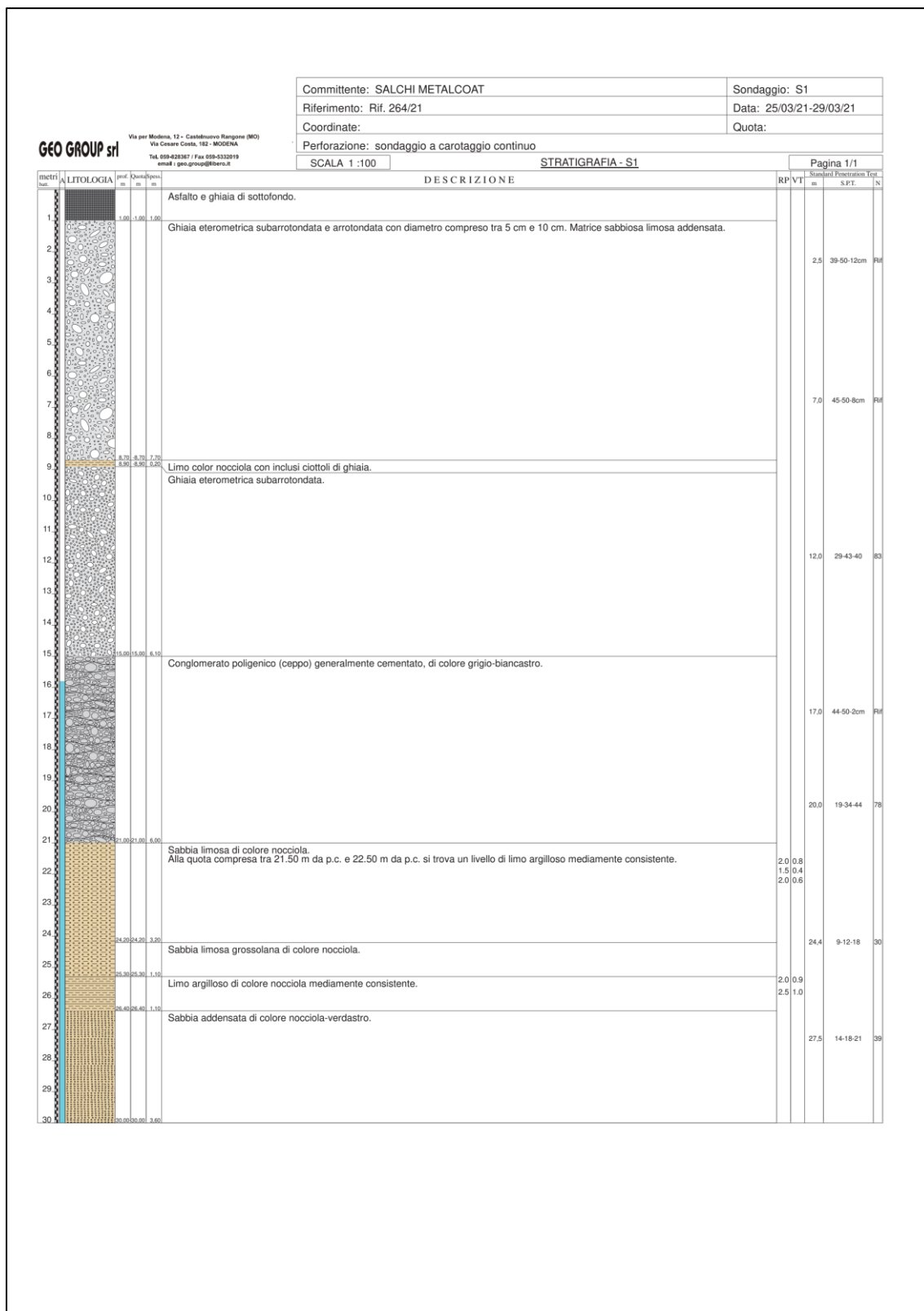
SONDAGGIO A CAROTAGGIO CONTINUO Allegato fotografico

Codice: **S1**

INFORMAZIONI GENERALI

Oggetto: Nuovo magazzino – Burago di Molgora (MB)
Data inizio perforazione: 25/03/2021
Data fine perforazione: 29/03/2021
Strumentazione utilizzata: PERFORATRICE IDRAULICA ATLAS
Carotiere: $\Phi = 101$ mm
Rivestimento: $\Phi = 127$ mm
Profondità raggiunta: 30.00 m da p.c.







UFFICI: via Per Modena, 12 - 41051 Castelnuovo R. (MO)
SEDE LEGALE: via C. Costa, 182 - 41123 Modena (MO)
tel. 059/3967169; 059/828367 - FAX 059/5960176 p. lva e C.F.02981500362
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Sondaggio S2



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SONDAGGIO A CAROTAGGIO CONTINUO Allegato fotografico

Codice: **S2**

INFORMAZIONI GENERALI

Oggetto: Nuovo magazzino – Burago di Molgora (MB)
Data inizio perforazione: 29/03/2021
Data fine perforazione: 31/03/2021
Strumentazione utilizzata: PERFORATRICE IDRAULICA ATLAS
Carotiere: $\Phi = 101$ mm
Rivestimento: $\Phi = 127$ mm
Profondità raggiunta: 30.00 m da p.c.







UFFICI: via Per Modena, 12 - 41051 Castelnovo R. (MO)
SEDE LEGALE: via C. Costa, 182 - 41123 Modena (MO)
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