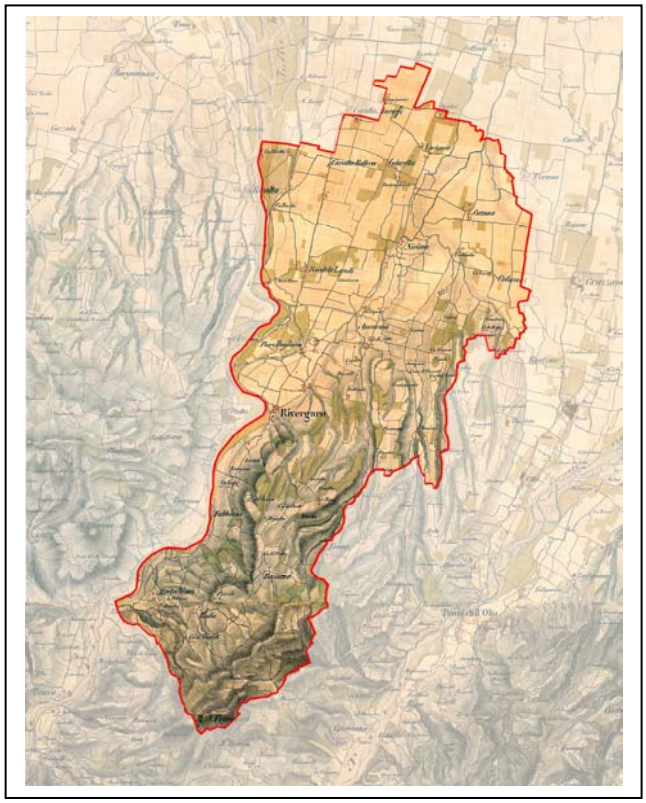
COMUNE DI RIVERGARO

**Provincia di PIACENZA**

# PSC

**PIANO STRUTTURALE COMUNALE**

(L.R. 24 marzo 2000, n. 20 art. 28)



## QUADRO CONOSCITIVO

## B. SISTEMA AMBIENTALE

## ALLEGATO B.1

## PROSPEZIONI SISMICHE

**MAGGIO 2016**

# MICROTREMOR REFRACTION (Re.Mi.)

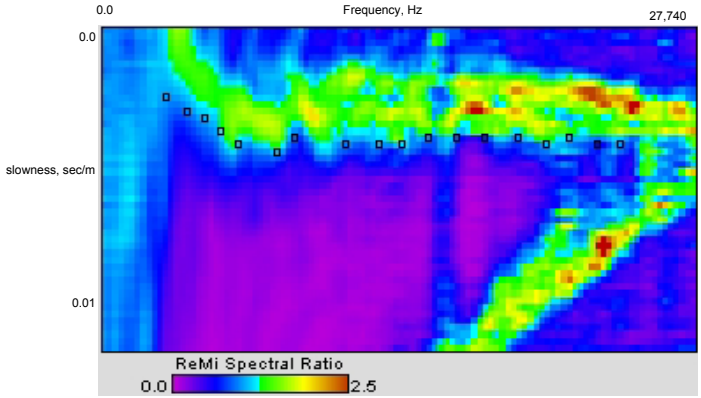
# REMI_PSC1

Cantiere : PSC Rivergaro

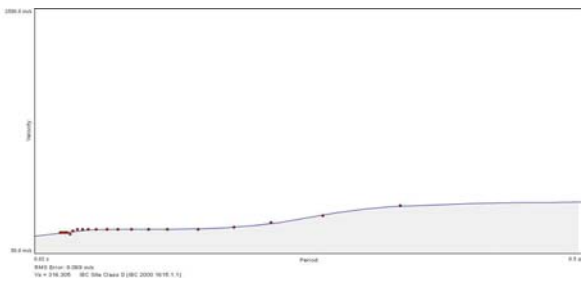
Località : Rallio di Montechiaro



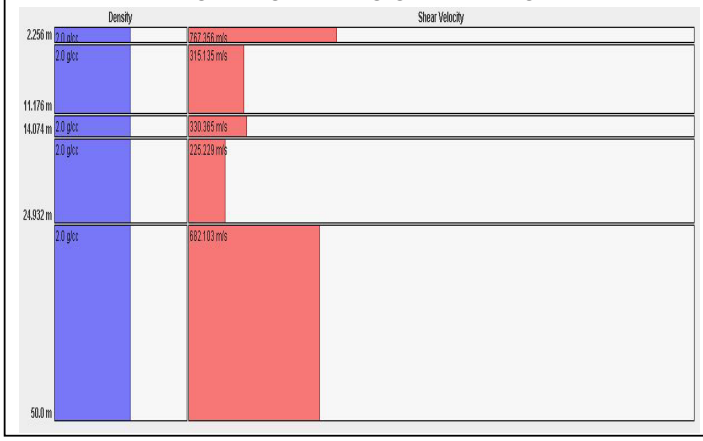
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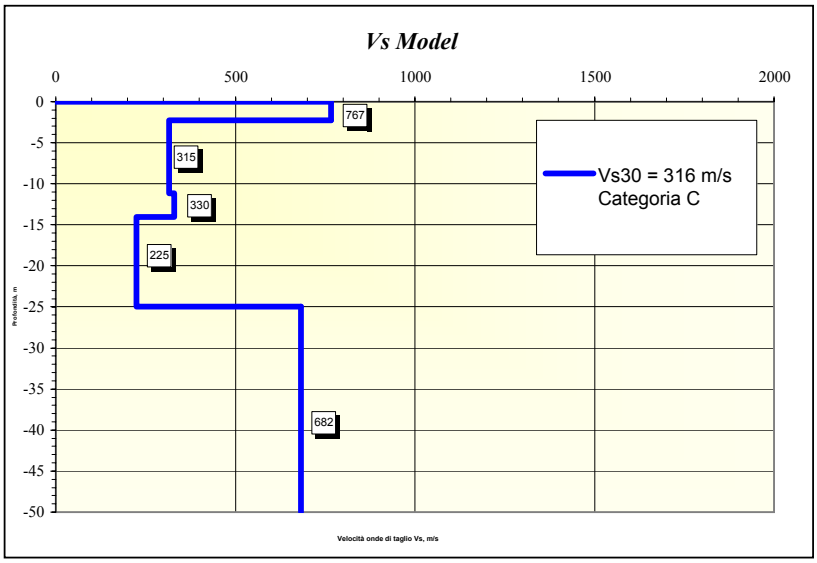



**CURVA DISPERSIONE**



**MODELLO DIRETTO OTTIMIZZATO**



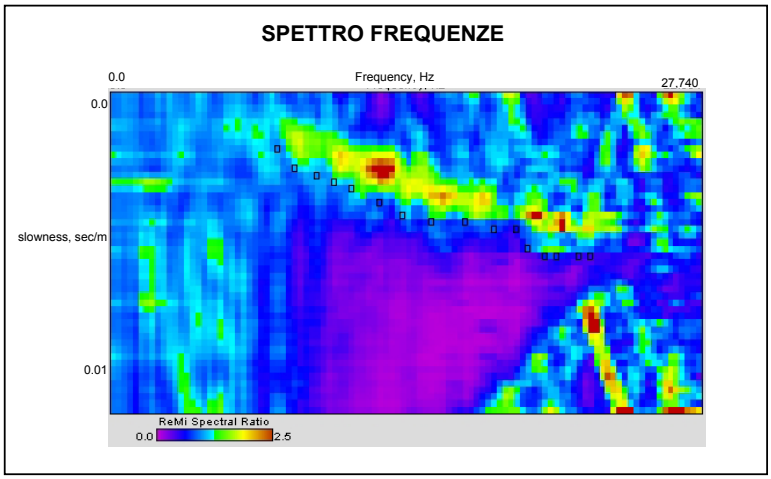

**Vs30 = 369 m/s**
**Categoria suolo (DM 14/1/08) : B**

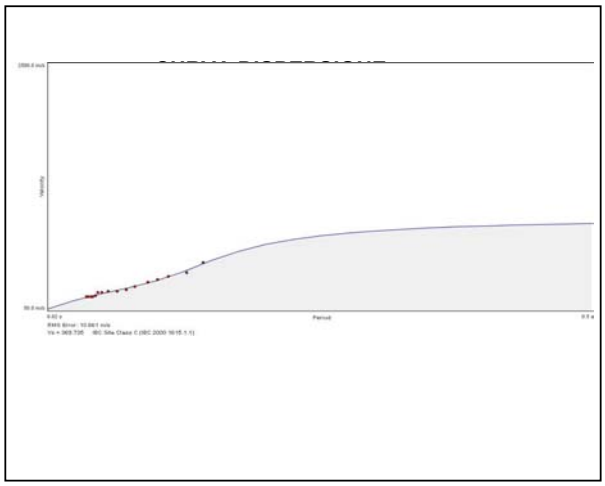
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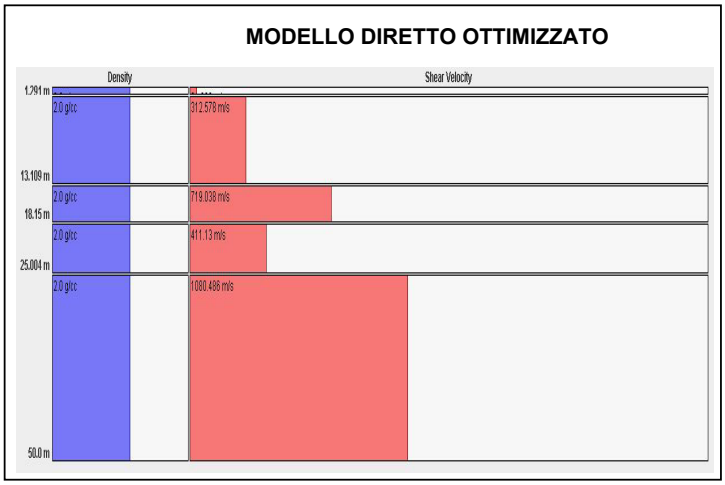
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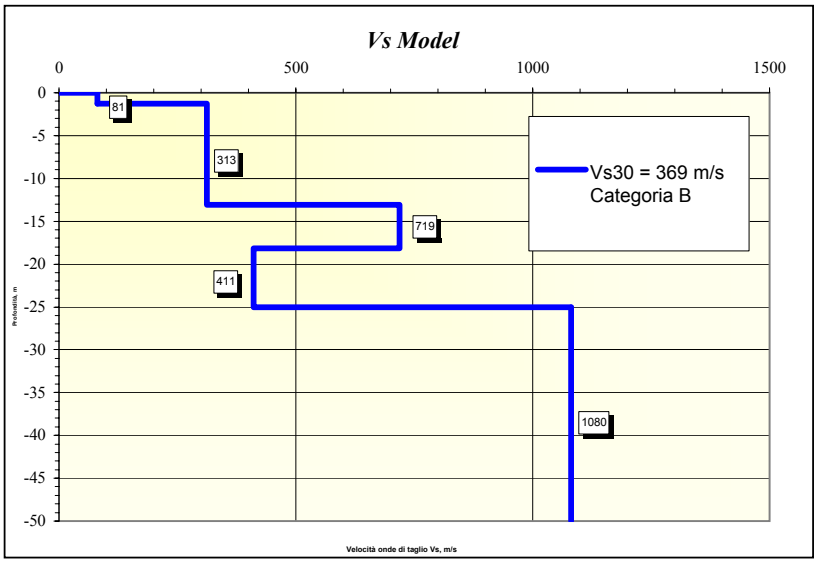
Cantiere : PSC Rivergaro
Località : Cisiano








**Vs30 = 369 m/s**
**Categoria suolo (DM 14/1/08) : B**

Studio Geologico Ambientale Dr. GABRIELE CORBELLI - C.so Garibaldi, 80 - Fiorenzuola d'Arda (PC) - Tel. 0523-944096

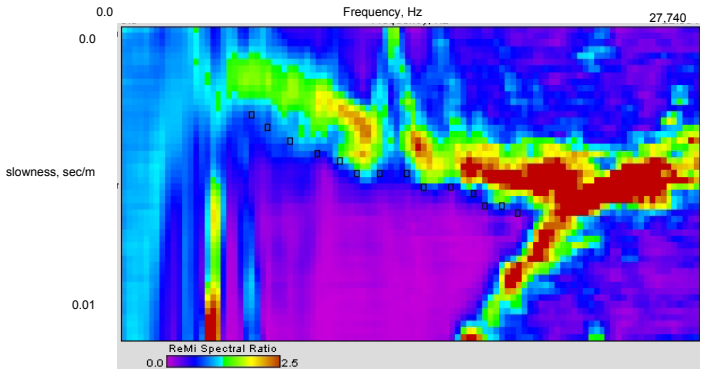
# MICROTREMOR REFRACTION (Re.Mi.)

# REMI_PSC3

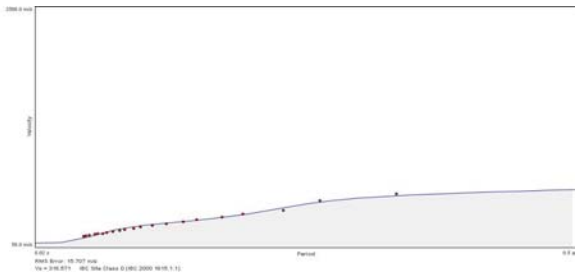
Cantiere : PSC Rivergaro
Località : Fabbiano



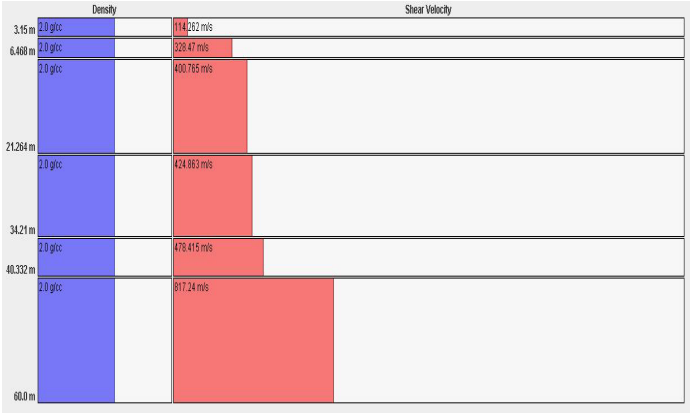
**SPETTRO FREQUENZE**

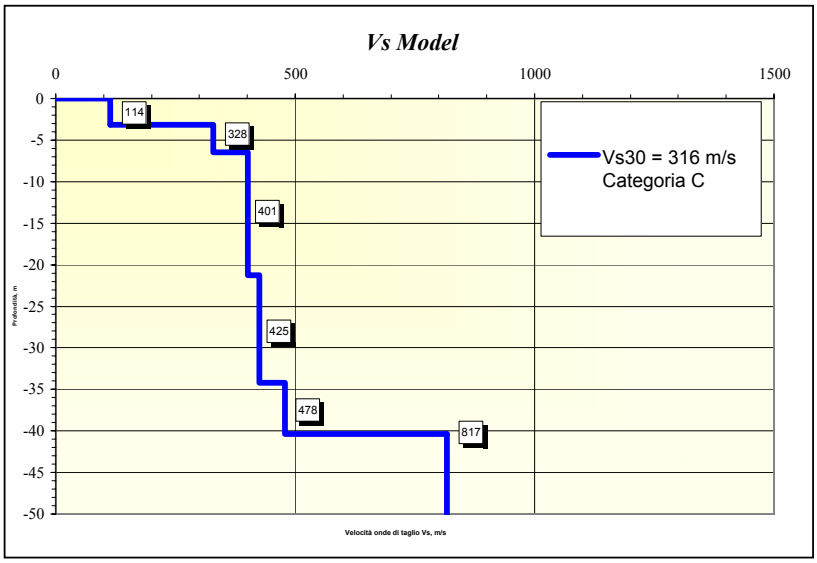



**CURVA DISPERSIONE**



**MODELLO DIRETTO OTTIMIZZATO**




**Vs30 = 316 m/s**
**Categoria suolo (DM 14/1/08) : C**

# MICROTREMOR REFRACTION (Re.Mi.)

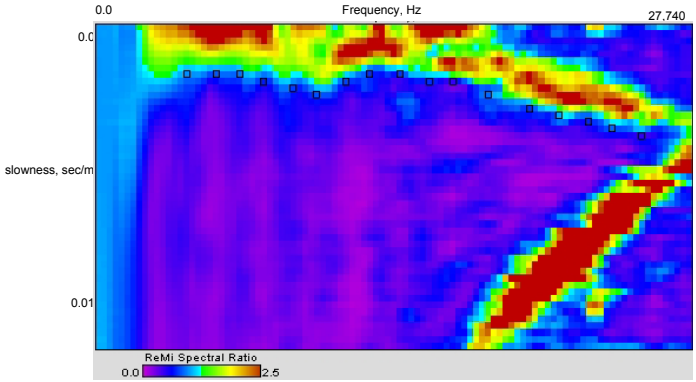
# REMI_PSC4

Cantiere : PSC Rivergaro

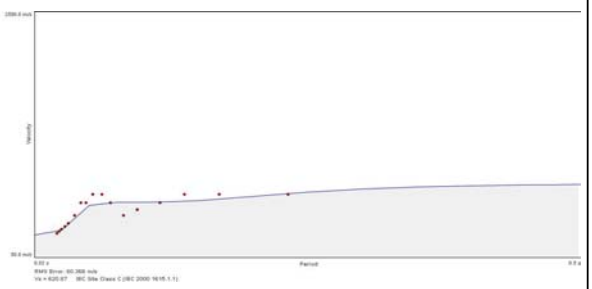
Località : Suzzano



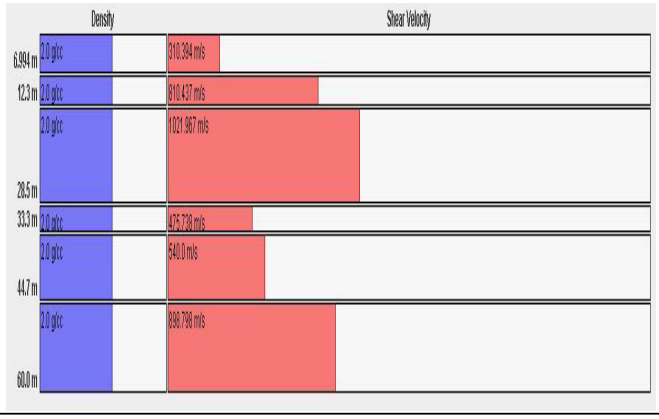
**SPETTRO FREQUENZE**

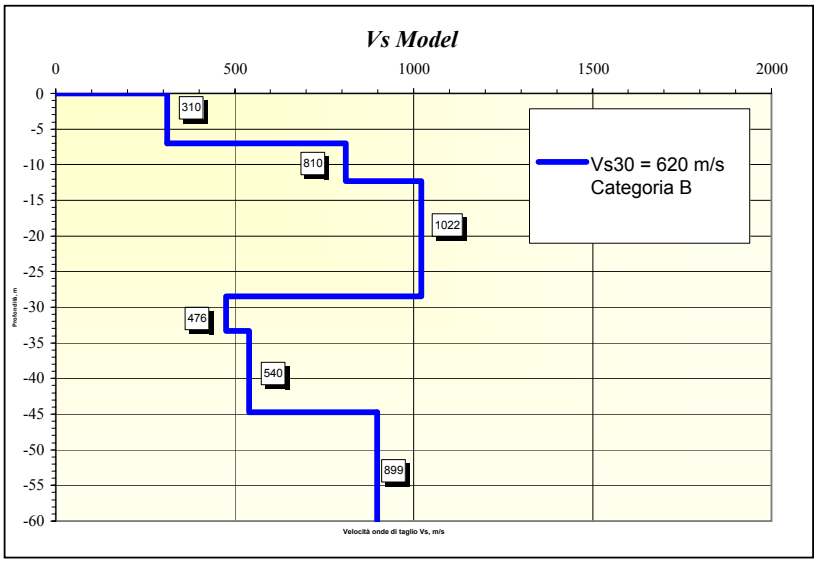



**CURVA DISPERSIONE**



**MODELLO DIRETTO OTTIMIZZATO**




**Vs30 = 620 m/s**
**Categoria suolo (DM 14/1/08) : B**

Studio Geologico Ambientale Dr. GABRIELE CORBELLI - C.so Garibaldi, 80 - Fiorenzuola d'Arda (PC) - Tel. 0523-944096

# MICROTREMOR REFRACTION (Re.Mi.)

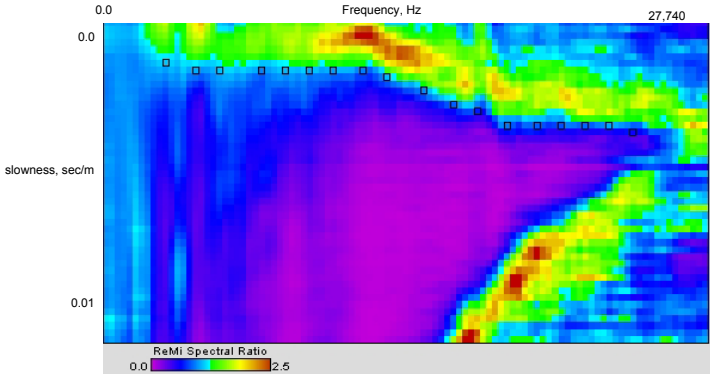
# REMI_PSC5

Cantiere : PSC Rivergaro

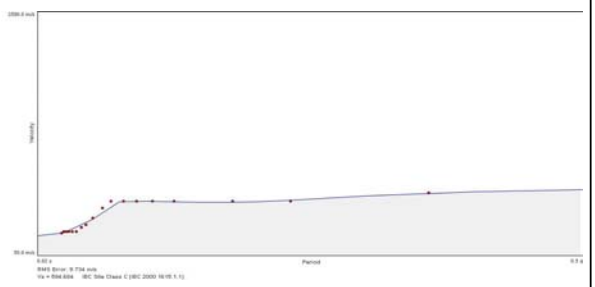
Località : Ancarano



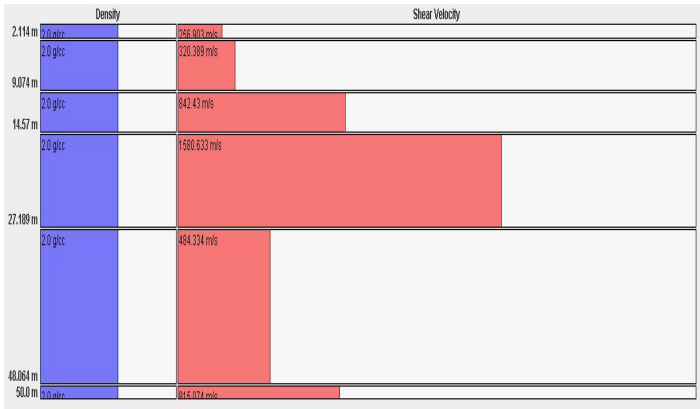
## SPETTRO FREQUENZE

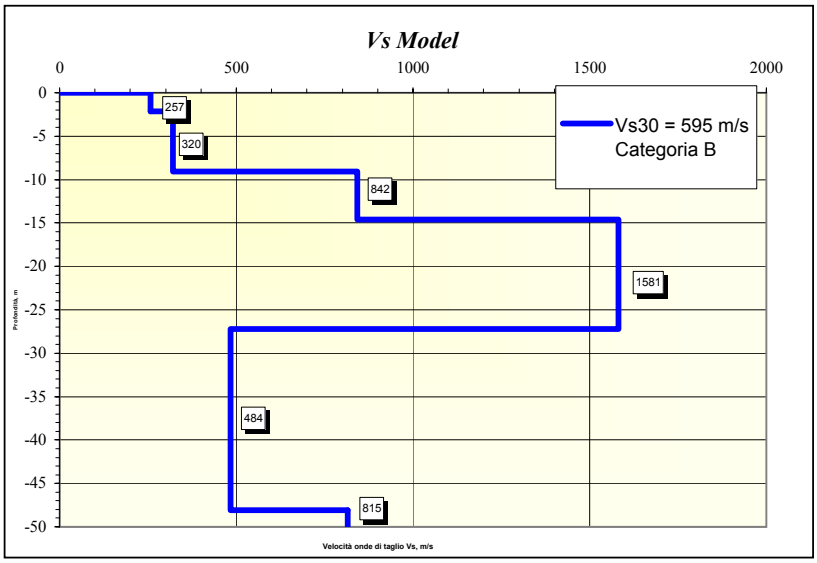



## CURVA DISPERSIONE



## MODELLO DIRETTO OTTIMIZZATO




**Vs30 = 595 m/s**
**Categoria suolo (DM 14/1/08) : B**

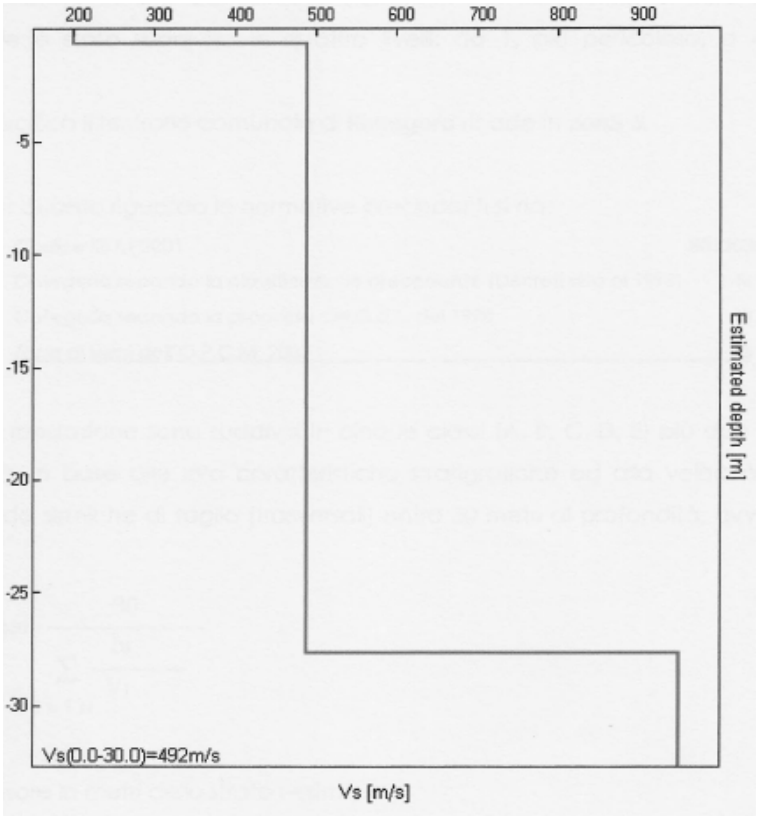
# Prospezione HVSR

# HVSR A

## Horizontal to Vertical Spectrum Ratio

Fonte : Dr.Geol. Gabriele Livelli

Località : Comune di Rivergaro




**Vs30 = 492 m/s**
**Categoria suolo (DM 14/1/08) : B**

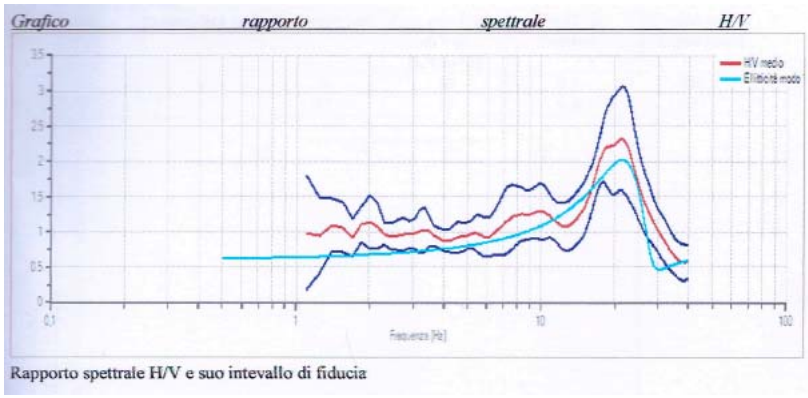
# Prospezione HVSR

# HVSR B

## Horizontal to Vertical Spectrum Ratio

Fonte : Dr.Geol. Massimo Mannini

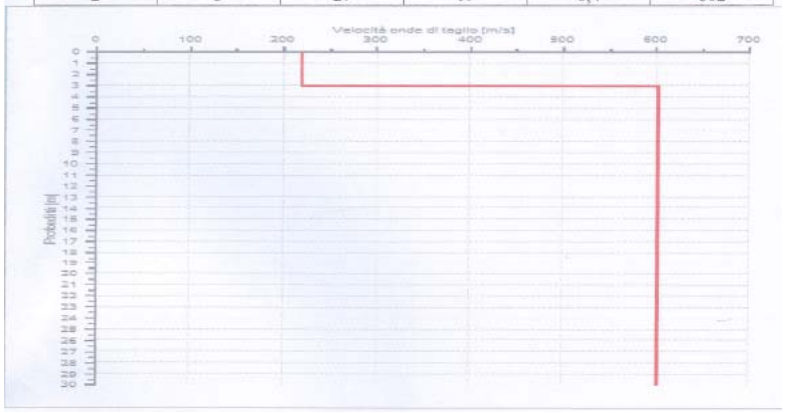
Località : Pieve Dugliara




Rapporto spettrale H/V e suo intevallo di fiducia

*Dati della stratigrafia:*

| Strato | Profondità [m] | Spessore [m] | Peso per Unità di Vol. [kN/m^3] | Coeff. di Poisson | Velocità onde di taglio [m/s] |
|---|---|---|---|---|---|
| 1 | 0 | 3 | 18 | 0,3 | 220 |
| 2 | 3 | 27 | 19 | 0,4 | 602 |




**Vs30 = 513 m/s**
**Categoria suolo (DM 14/1/08) : B**

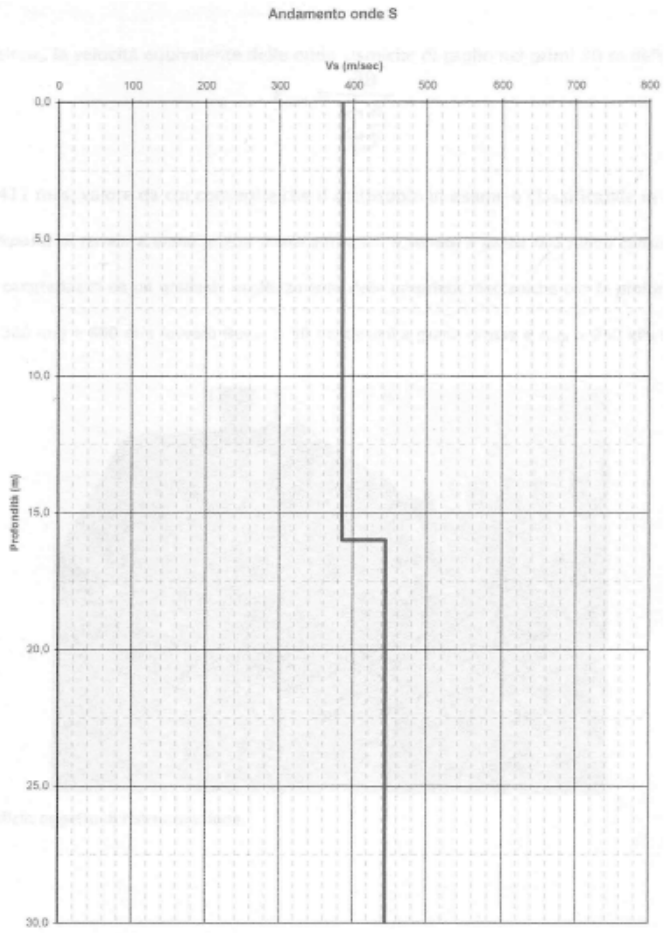
# Prospezione HVSR

# HVSR C

## Horizontal to Vertical Spectrum Ratio

Fonte : Dr.Geol. Roberto Ponzanibbio

Località : Comune di Rivergaro




**Vs30 = 411 m/s**
**Categoria suolo (DM 14/1/08) : B**

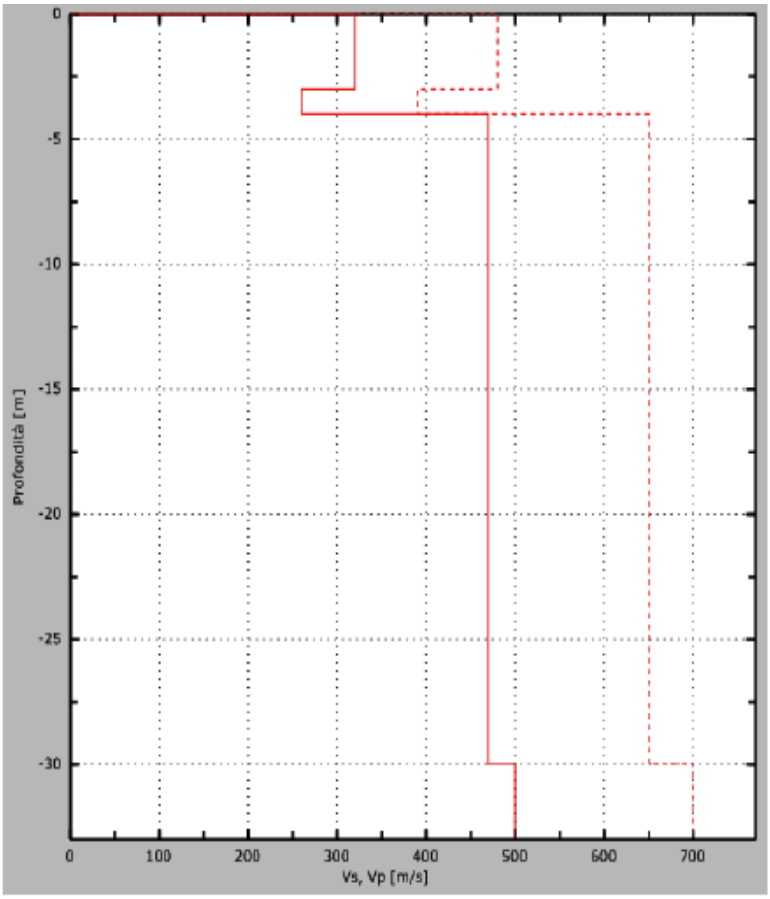
# Prospezione HVSR

## Horizontal to Vertical Spectrum Ratio

**HVSR D**

Fonte : Dr.Geol. Nicola Cavanna

Località : Comune di Rivergaro




Profili di velocità Vs e Vp

**Vs30 = 435 m/s**
**Categoria suolo (DM 14/1/08) : B**

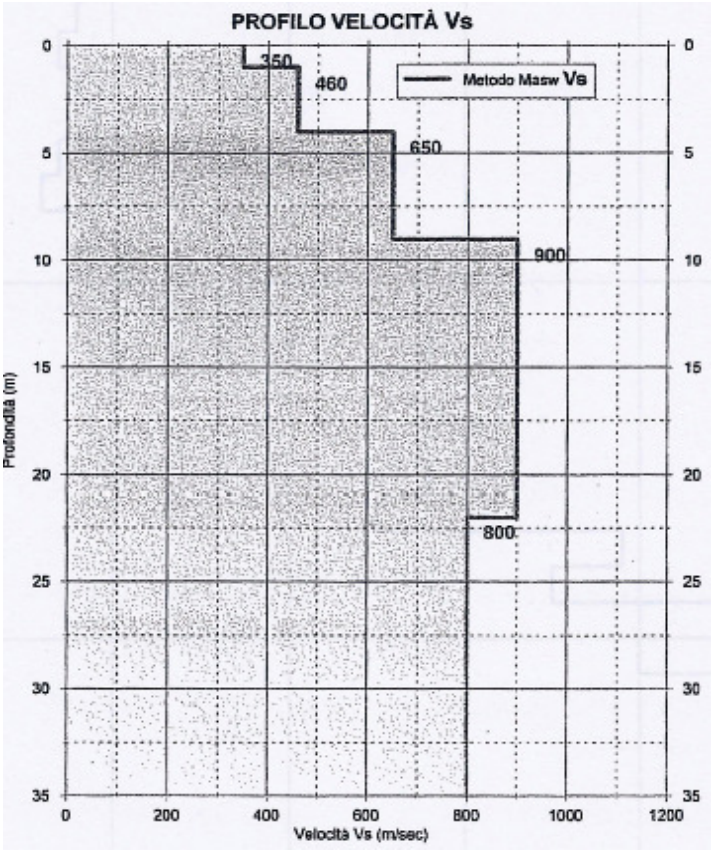
# Prospezione MASW

# MASW E

## Multichannel Analysis Surface Waves

Fonte : Dr.Geol. Alberto Lepori

Località : Bosco Gerolo




**Vs30 = 720 m/s**
**Categoria suolo (DM 14/1/08) : B**

# Prospezione MASW

# MASW F

## Multichannel Analysis Surface Waves

Fonte : Dr.Geol. Nicola Cavanna

Località : Ottavello

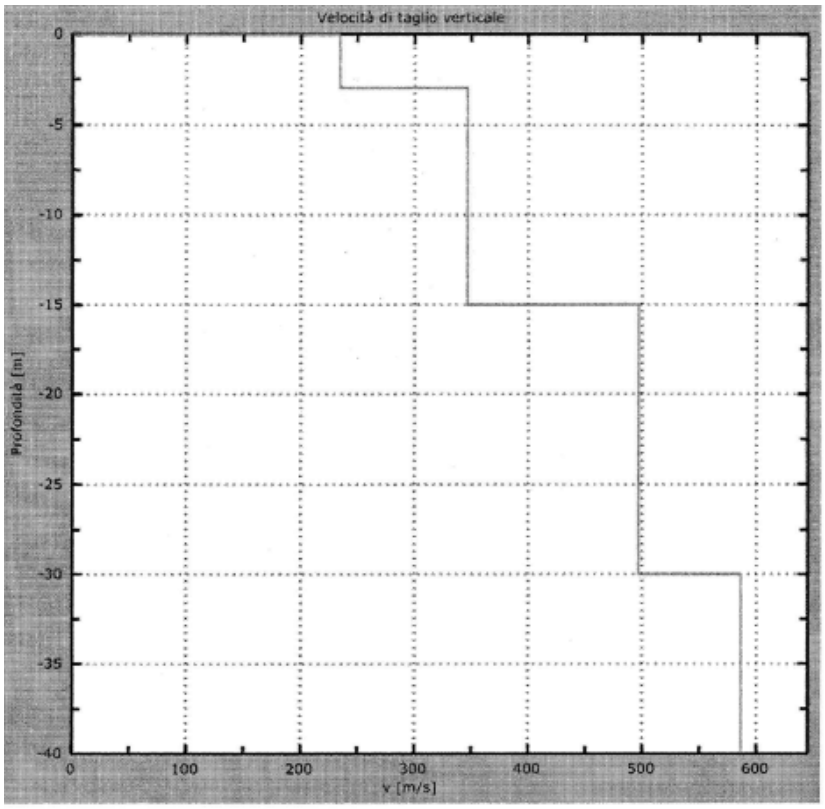



Grafico della velocità delle onde di taglio nell'area indagata

**Vs30 = 386 m/s**
**Categoria suolo (DM 14/1/08) : B**

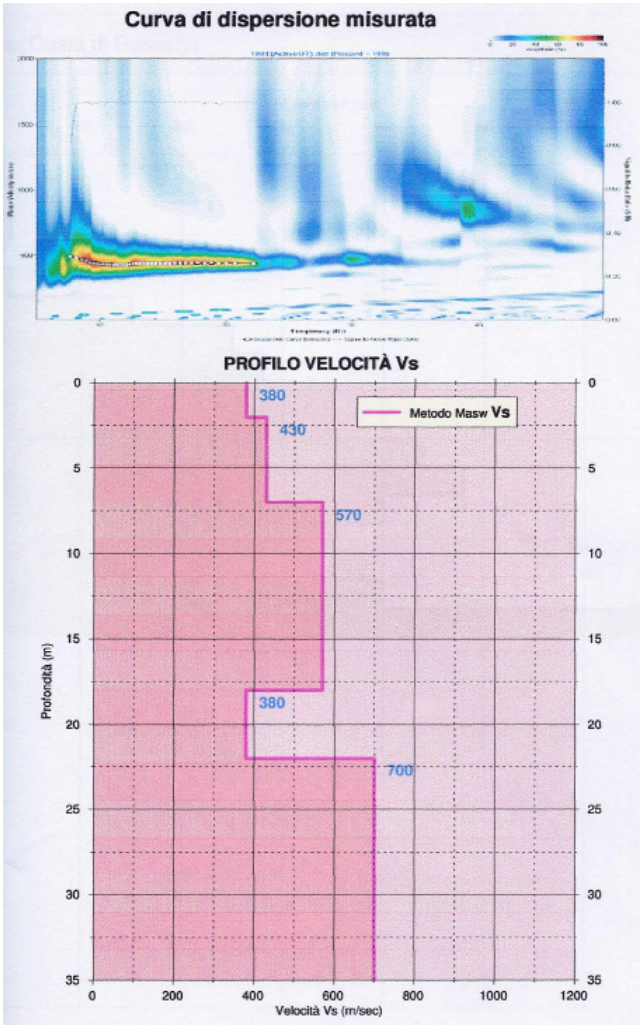
# Prospezione MASW

# MASW G

## Multichannel Analysis Surface Waves

Fonte : Dr.Geol. Alberto Lepori

Località : Bassano di Rivergaro




**Vs30 = 520 m/s**
**Categoria suolo (DM 14/1/08) : B**

# Prospezione MASW

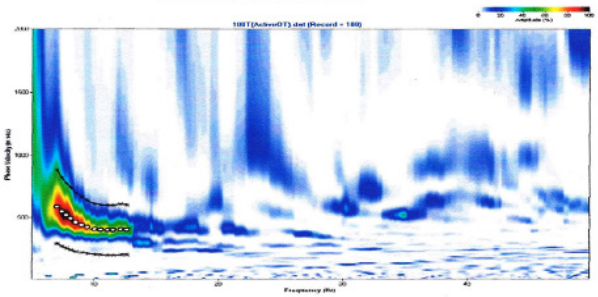
# MASW H

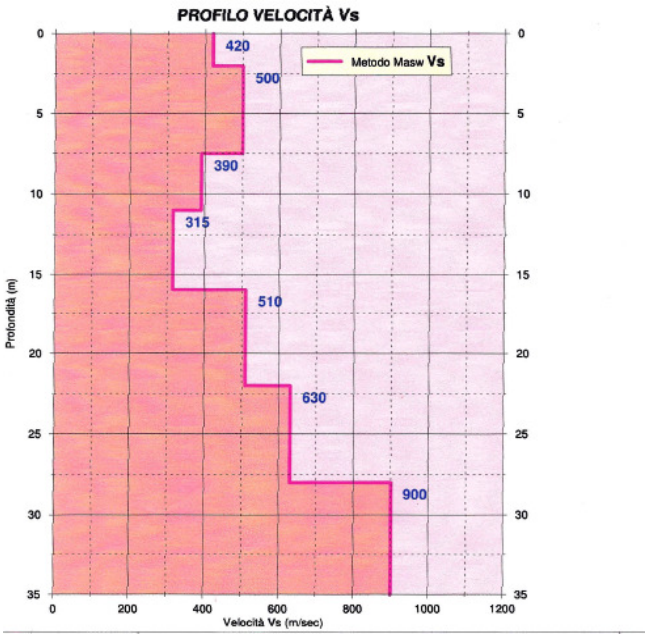
## Multichannel Analysis Surface Waves

Fonte : Dr.Geol. Alberto Lepori

Località : Bassano di Rivergaro

CURVA DI DISPERSIONE






**Vs30 = 407 m/s**
**Categoria suolo (DM 14/1/08) : B**

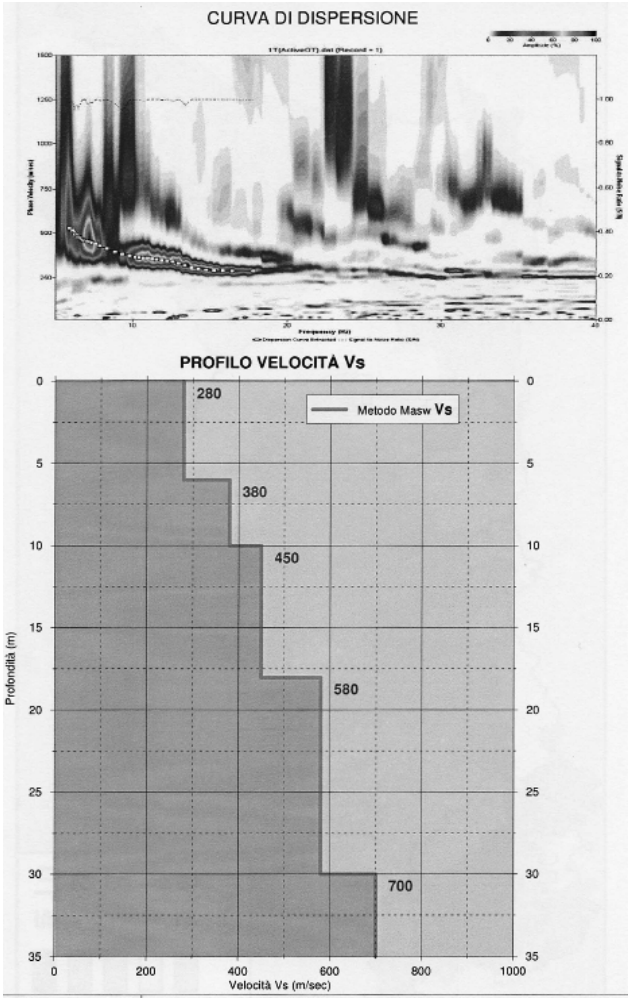
# Prospezione MASW

# MASW I

## Multichannel Analysis Surface Waves

Fonte : Dr.Geol. Filippo Valla

Località : Comune di Rivergaro




**Vs30 = 430 m/s**
**Categoria suolo (DM 14/1/08) : B**

# Prospezione MASW

# MASW L

## Multichannel Analysis Surface Waves

Fonte : Dr.Geol. Raffaello Zanardi

Località : Suzzano

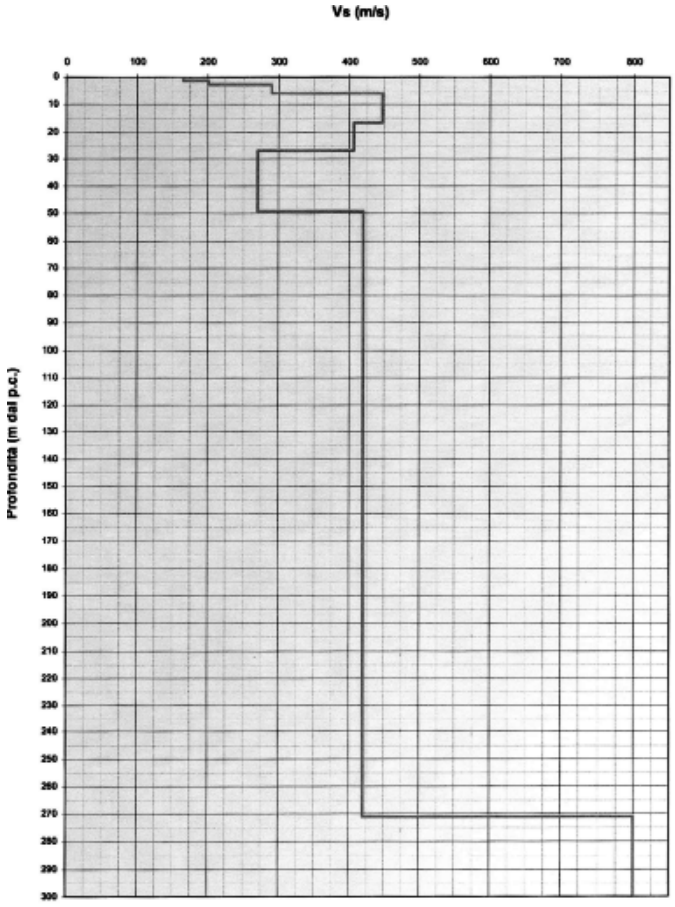



*Figura 11. Profilo di velocità ottenuto dall'analisi congiunta.*

**Vs30 = 350 m/s**
**Categoria suolo (DM 14/1/08) : B**

# Prospezione MASW

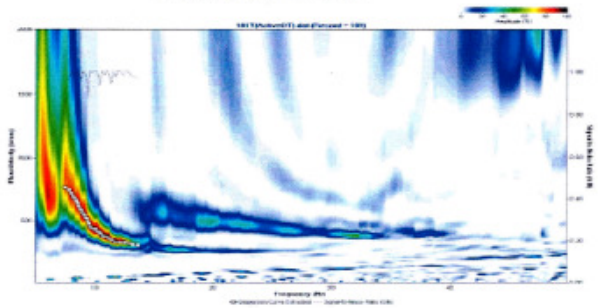
# MASW PRG

## Multichannel Analysis Surface Waves

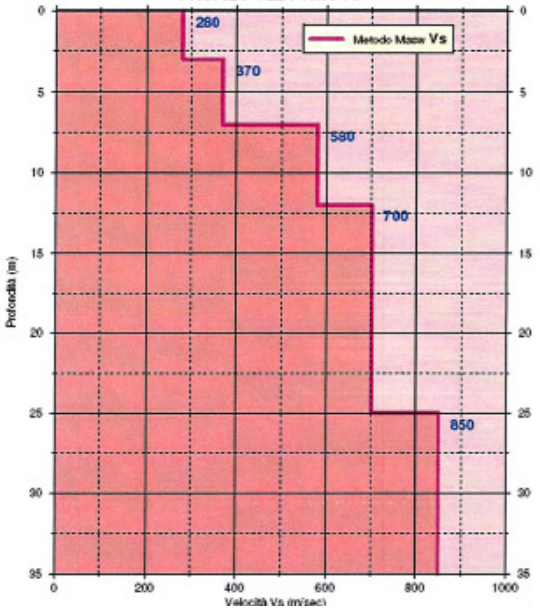
Fonte : Dr.Geol. Nicola Cavanna

Località : Comune di Rivergaro

CURVA DI DISPERSIONE



PROFILO VELOCITÀ Vs

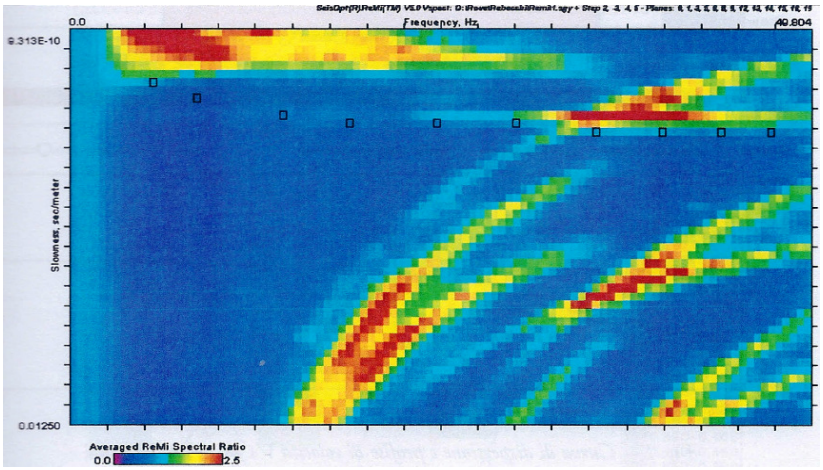



**Vs30 = 550 m/s**
**Categoria suolo (DM 14/1/08) : B**

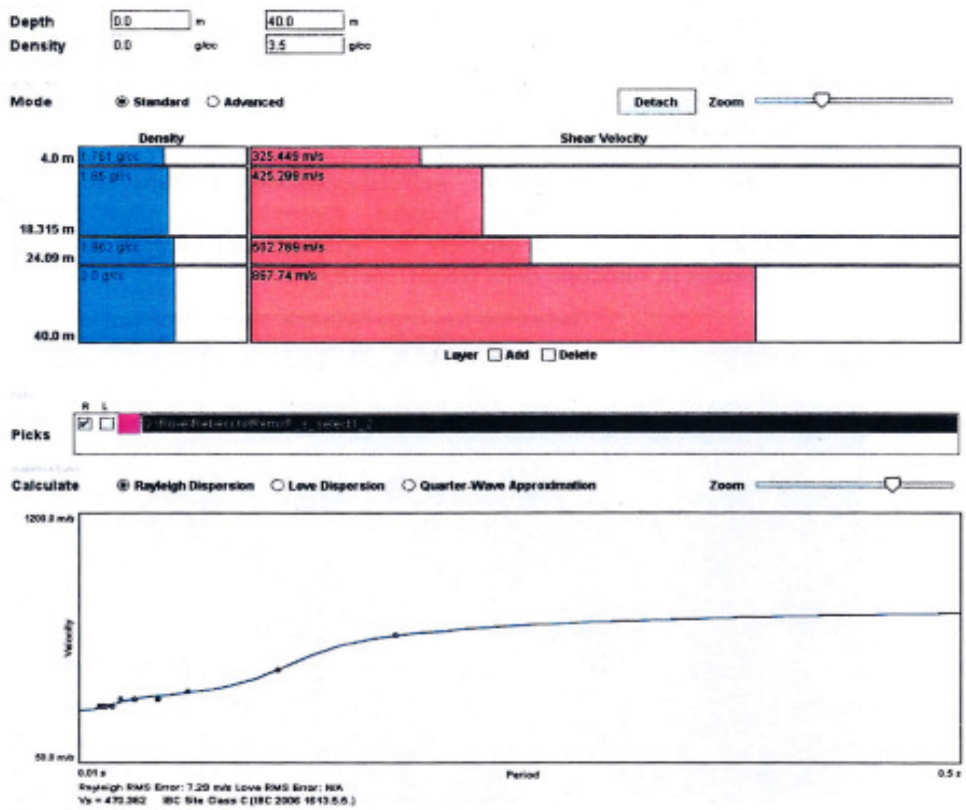
# MICROTREMOR REFRACTION (Re.Mi.) Remi M

Fonte : Dr. Davide Roverselli
Località : Comune di Rivergaro

**SPETTRO FREQUENZE**




**CURVA DISPERSIONE E MODELLO DIRETTO OTTIMIZZATO**

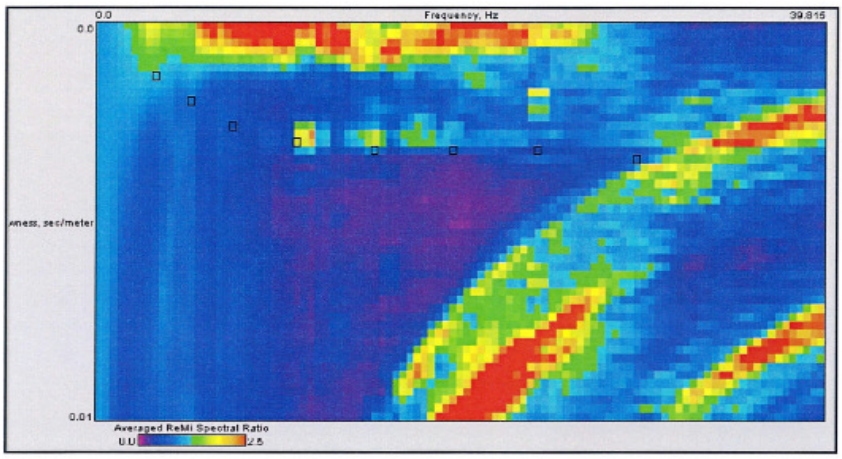



**Vs30 = 415 m/s**
**Categoria suolo (DM 14/1/08) : B**

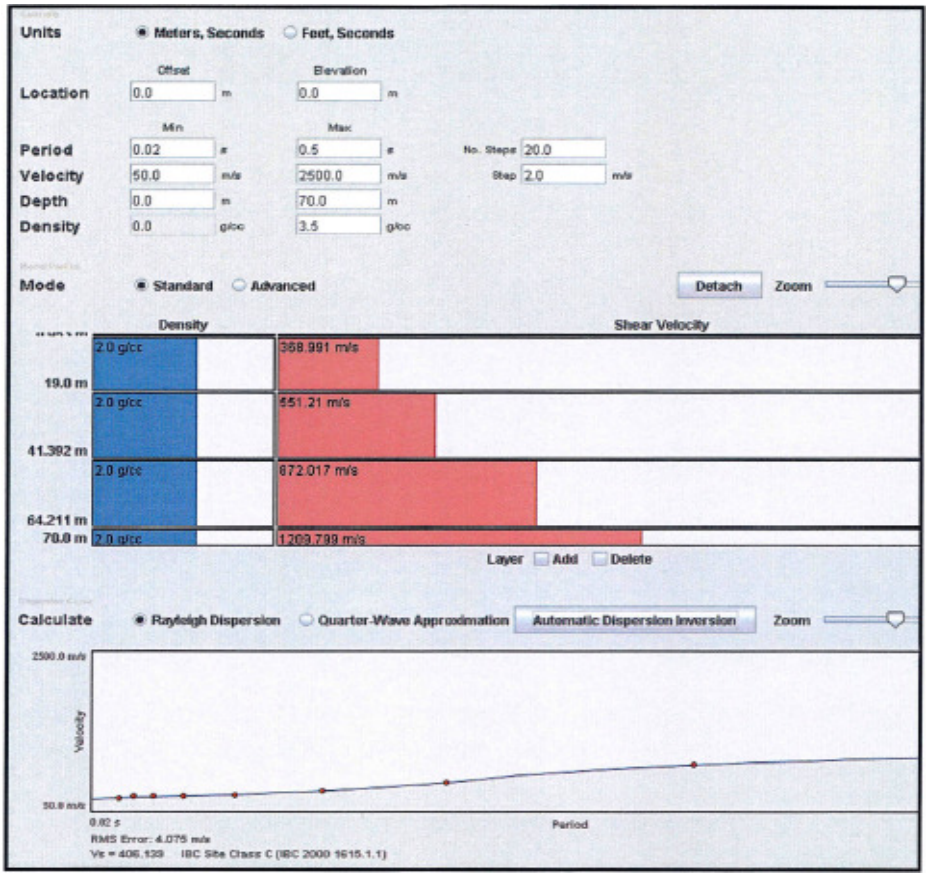
# MICROTREMOR REFRACTION (Re.Mi.) Remi N

Fonte : Dott. Geologo Andrea Carpena
Località : Loc. Case Leoni

**SPETTRO FREQUENZE**




**CURVA DISPERSIONE E MODELLO DIRETTO OTTIMIZZATO**




**Vs30 = 400 m/s**
**Categoria suolo (DM 14/1/08) : B**

# MICROTREMOR REFRACTION (Re.Mi.) Remi O

Fonte : Dr. Aldo Ambrogio
Località : Loc. Niviano

**SPETTRO FREQUENZE E MODELLO DIRETTO OTTIMIZZATO**

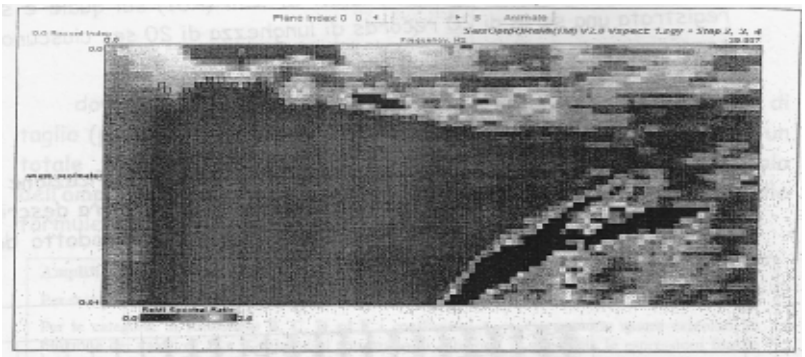
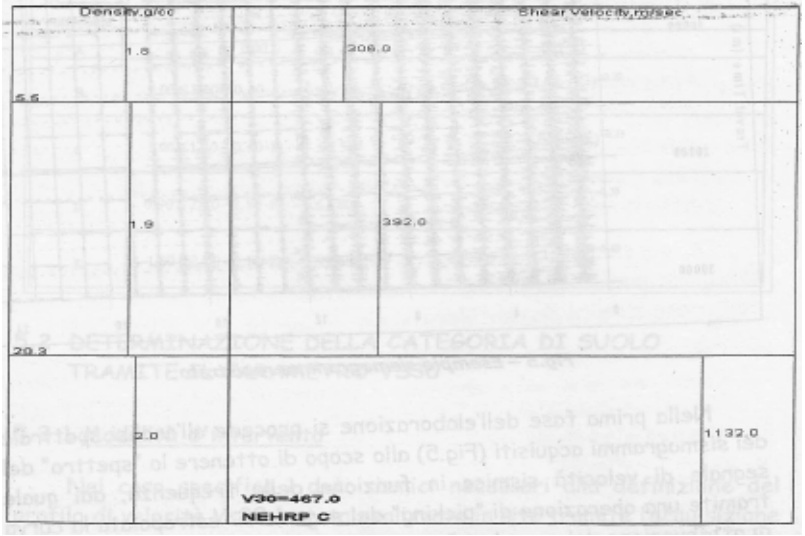


*Fig.6 – Spettro del segnale e "picking" della "curva di dispersione"*




**Vs30 = 467 m/s**
**Categoria suolo (DM 14/1/08) : B**

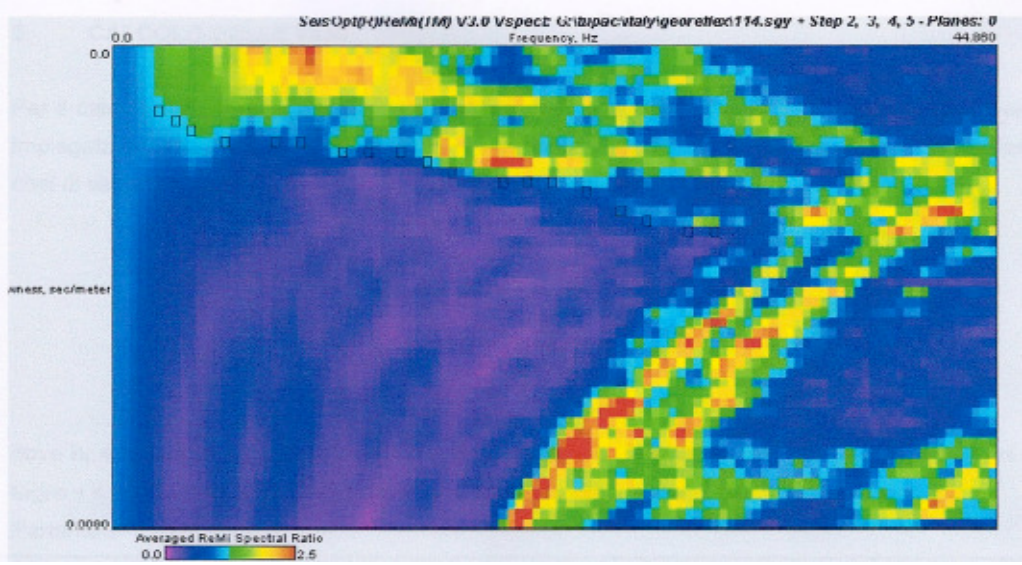
# MICROTREMOR REFRACTION (Re.Mi.)

# Remi P

Fonte : Dr. Andrea Carpena

Località : Loc. Roveleto Landi

**SPETTRO FREQUENZE**




**Vs30 = 600 m/s**
**Categoria suolo (DM 14/1/08) : B**