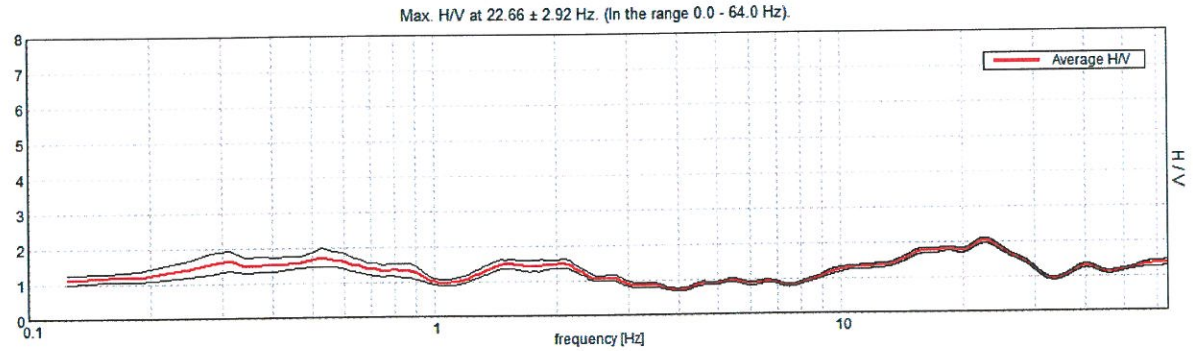
RISULTATO INDAGINE

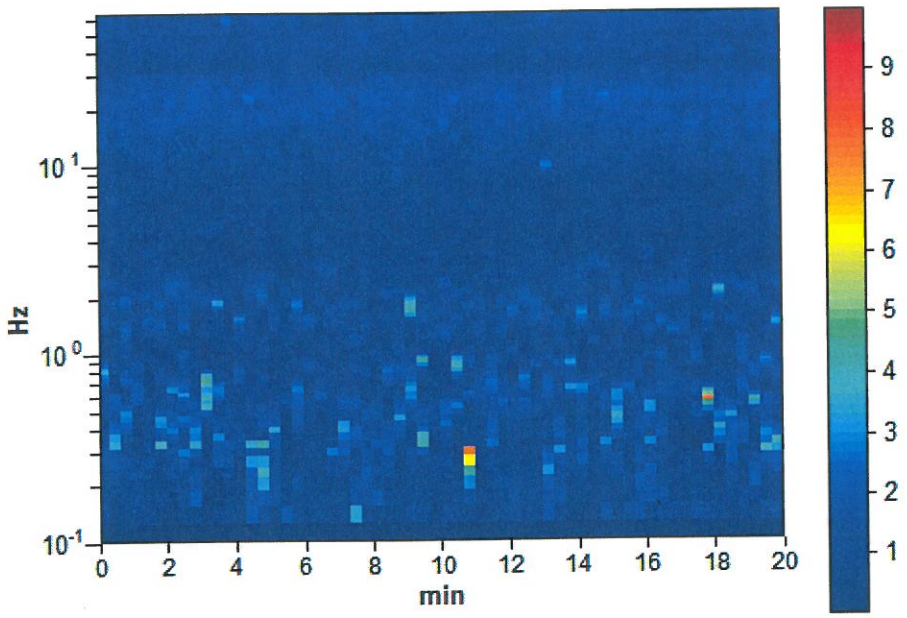
SAN BENEDETTO DEL TRONTO, VIA CELLINI

Instrument: TEP-0064/01-10
Start recording: 17/05/11 11:21:22 End recording: 17/05/11 11:41:23
Smoothing window: Triangular window
Channel labels: NORTH SOUTH; EAST WEST ; UP DOWN
GPS data not available
Trace length: 0h20'00". Analysis performed on the entire trace.
Sampling frequency: 128 Hz
Window size: 20 s
Smoothing window: Triangular window
Smoothing: 10%

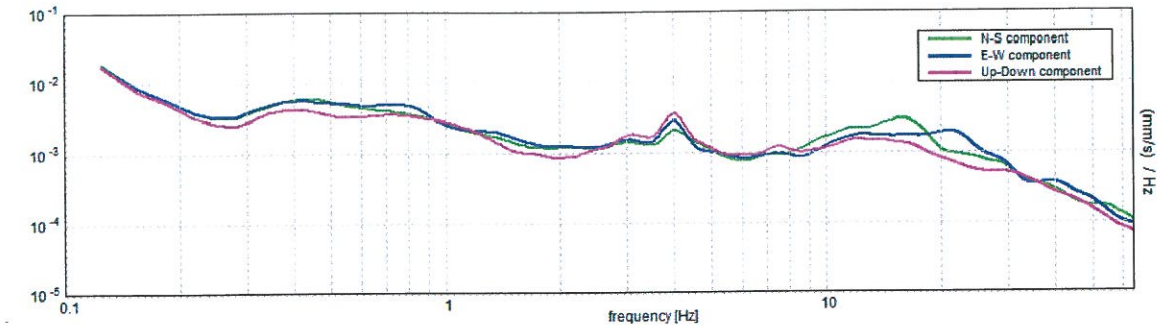
HORIZONTAL TO VERTICAL SPECTRAL RATIO



H/V TIME HISTORY



SINGLE COMPONENT SPECTRA



Sesame Guidelines (2005)

Max. HVSR at 22.06 ± 2.92Hz. (in the range 0.0 - 64.0 Hz).

Criteria for a reliable HVSR curve [All 3 should be fulfilled]			
$f_0 > 10 / L_w$	22.66 > 0.50		OK
$n_c(f_0) > 200$	27187.5 > 200		OK
$\sigma_A(f) < 2$ for $0.5f_0 < f < 2f_0$ if $f_0 > 0.5$Hz	Exceeded 0 out	1088	OK
$\sigma_A(f) < 3$ for $0.5f_0 < f < 2f_0$ if $f_0 < 0.5$Hz	times of		
Criteria for a clear HVSR peak [At least 5 out of 6 should be fulfilled]			
Exists f_- in $[f_0/4, f_0]$ | $A_{H/V}(f_-) < A_0 / 2$	8.688 Hz		OK
Exists f_+ in $[f_0, 4f_0]$ | $A_{H/V}(f_+) < A_0 / 2$	31.75 Hz		OK
$A_0 > 2$	2.02 > 2		OK
$f_{peak}[A_{H/V}(f) \pm \sigma_A(f)] = f_0 \pm 5\%$	|0.04801| < 0.05		OK
$\sigma_f < \varepsilon(f_0)$	1.03385 < 1.17813		OK
$\sigma_A(f_0) < \theta(f_0)$	0.0374 < 1.58		OK

EXPERIMENTAL VS. SYNTHETIC H/V

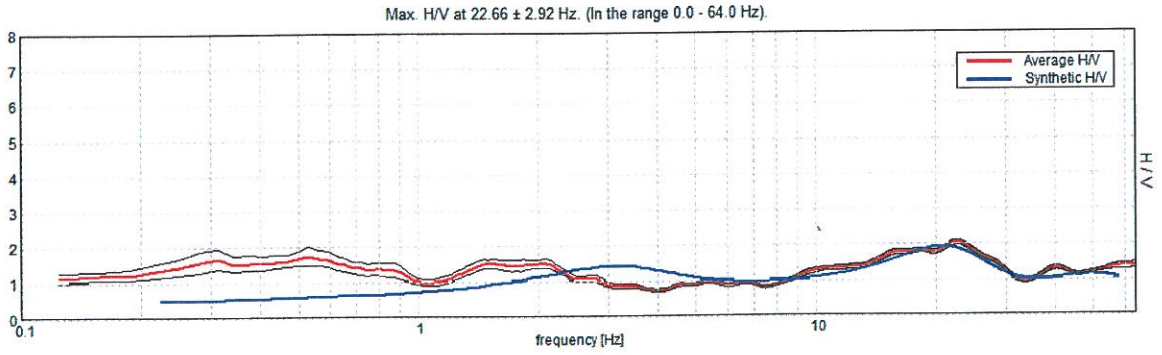


TABELLA VELOCITA' ONDE S

Depth (layer bottom) [m]	Thickness [m]	Vs [m/s]
0.20	0.20	50
0.40	0.20	80
1.20	0.80	100
3.20	2.00	170
4.20	1.00	180
5.20	1.00	190
6.20	1.00	200
7.20	1.00	210
8.20	1.00	220
9.20	1.00	230
11.20	2.00	240
13.20	2.00	260
15.20	2.00	270
17.20	2.00	280
18.20	1.00	290
19.20	1.00	300
20.20	1.00	310
21.20	1.00	320
22.20	1.00	325
23.20	1.00	330
24.20	1.00	335
25.20	1.00	340
26.20	1.00	345
28.20	2.00	350
29.20	1.00	355
30.20	1.00	360
32.20	2.00	365
inf.	0.00	370

Vs(0.0-30.0)=240m/s