






LINEA 6 – METROPOLITANA DI NAPOLI

				(PRIMA EMISSIONE) – OTTOBRE 2015	OTT 15					
Albinati	De Risi	Manferlotti	Di Luccio							
REDATTO	CONTROLLATO	APPROVATO	AUTORIZZATO	DESCRIZIONE REVISIONE DOCUMENTO	DATA	REV				
 Ansaldo STS A Finmeccanica Company CONCESSIONARIA				 COMUNE DI NAPOLI CONCEDENTE		PROG IMP NUMERO				
						L	M	6	7	F
				CODICE PRODOTTO		AREA	TIPO	FASE		
						2	C		E	S
A termini di legge è rigorosamente vietato riprodurre e comunicare a terzi il contenuto del presente documento	TITOLO DOCUMENTO: LINEA 6 METROPOLITANA DI NAPOLI PROGETTO ESECUTIVO OPERE CIVILI – MONITORAGGIO GEOTECNICO GEOREFERENZIATO REPORT DELLE MISURE (INTERNO) – STAZIONE CHIAIA									
	EMITTENTE  METROPOLITANA DI NAPOLI S.p.A. RESPONSABILE PROGETTAZIONE OPERE CIVILI				CODICE ENTE 					
	 Monitoraggio delle gallerie e prove di laboratorio per la qualifica dei materiali e loro controllo Monitoraggio opere civili e monitoraggio ambientale				FORMATO A4	SCALA /	FOGLIO 1 DI 107			

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 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO REPORT DELLE MISURE - STAZIONE CHIAIA</p>	<p>LM6 7FX 2C I 46 Data: 30/10/15 Metropolit. di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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1. PREMESSA

Nell'ambito della realizzazione della nuova Metropolitana di Napoli (**Linea 6, tratta Mergellina - Municipio**) è prevista una rete di monitoraggio e controllo finalizzata alla periodica registrazione delle grandezze fisiche di maggiore interesse e agli effetti legati alle attività di cantiere.

In generale, per le stazioni il sistema di monitoraggio prevede i seguenti strumenti:

- Capisaldi di livellazione, posti sul terreno e sui marciapiedi degli edifici adiacenti il pozzo di stazione;
- Staffe livellometriche, poste sugli edifici adiacenti il pozzo di stazione;
- Piezometri Casagrande o a tubo aperto, realizzati in prossimità delle paratie del pozzo di stazione;
- Piezometri elettrici, realizzati all'interno del pozzo di stazione;
- Inclinometri ed estenso-inclinometri, realizzati in prossimità delle paratie del pozzo di stazione;
- Inclinometri, realizzati nelle paratie perimetrali del pozzo di stazione;
- Mire ottiche, poste sulle paratie all'interno del pozzo di stazione
- Celle di carico, disposte sui puntoni metallici di contrasto;
- Barrette estensimetriche, disposte sui puntoni metallici di contrasto e/o all'interno delle paratie perimetrali del pozzo di stazione.

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L'installazione di tale strumentazione impiegata lungo le aree di cantiere (stazione Chiaia, S. Pasquale, Arco Mirelli e Municipio) risulta completa all'interno ed all'esterno dei pozzi di stazione; diversamente, quella relativa alla Galleria di linea è ad oggi in fase d'installazione.

Di seguito saranno restituiti i grafici frutto delle letture svolte nel cantiere, relativi alla sola strumentazione interna:


- Inclinometri, Estensimetri, Piezometri, acquisizione elaborazione restituzione dati competenza Tre Esse.
- Staffe di livellazione, Capisaldi acquisizione competenza ATI, elaborazione restituzione dati competenza Tre Esse.

2. DATI GENERALI

Commessa: Linea 6 – Metropolitana Di Napoli

Impresa esecutrice: Chiaia S.c.a.r.l.

Monitoraggio: Tre Esse Engineering S.r.l.

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3. STRUMENTAZIONE INTERNA INSTALLATA

La nomenclatura della strumentazione di monitoraggio ha subito una variazione rispetto all'installazione, necessaria per rendere uniforme ed univoco il nome di ogni strumento installato lungo tutta la tratta.

Esempio: CH_P50_S1;

la prima serie di simboli identifica la stazione di monitoraggio (in questo caso San Pasquale),

la seconda è identificativa del numero di pannello monitorato,

la terza corrisponde al tipo di barretta estensimetrica installata (S sta per Strain gauge – corda vibrante) e al numero progressivo della barretta (1,2,..).

Elenco strumentazione installata e funzionante.

- n°4 Inclinatori

CH_IN_P13

CH_IN_P50

CH_IN_P67

CH_IN_P81

- n°24 Barrette Estensimetriche a corda vibrante per metallo

CH_P13_S1-6

CH_P50_S1-6

CH_P67_S1-6

CH_PU1_S1-4

CH_PU2_S5-8

- n°11 Celle di Carico

Primo Ordine di Tiranti

CH_CC1-4

Secondo Ordine di Tiranti

CH_CC5-9

Puntoni

CH_PU1_CC

CH_PU2_CC

- n°74 Mire Ottiche

Primo Ordine

CH_MO1-16

Secondo Ordine

CH_MO17-32

Terzo Ordine


CH_MO33-40

Quarto Ordine

CH_MO36-44

Supplementari

CH_MO45-74

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4. PLANIMETRIA STRUMENTAZIONE MONITORAGGIO

Nella figura successiva viene rappresentata la planimetria del cantiere e la disposizione degli strumenti previsti per il monitoraggio geotecnico installati internamente al pozzo stazione.

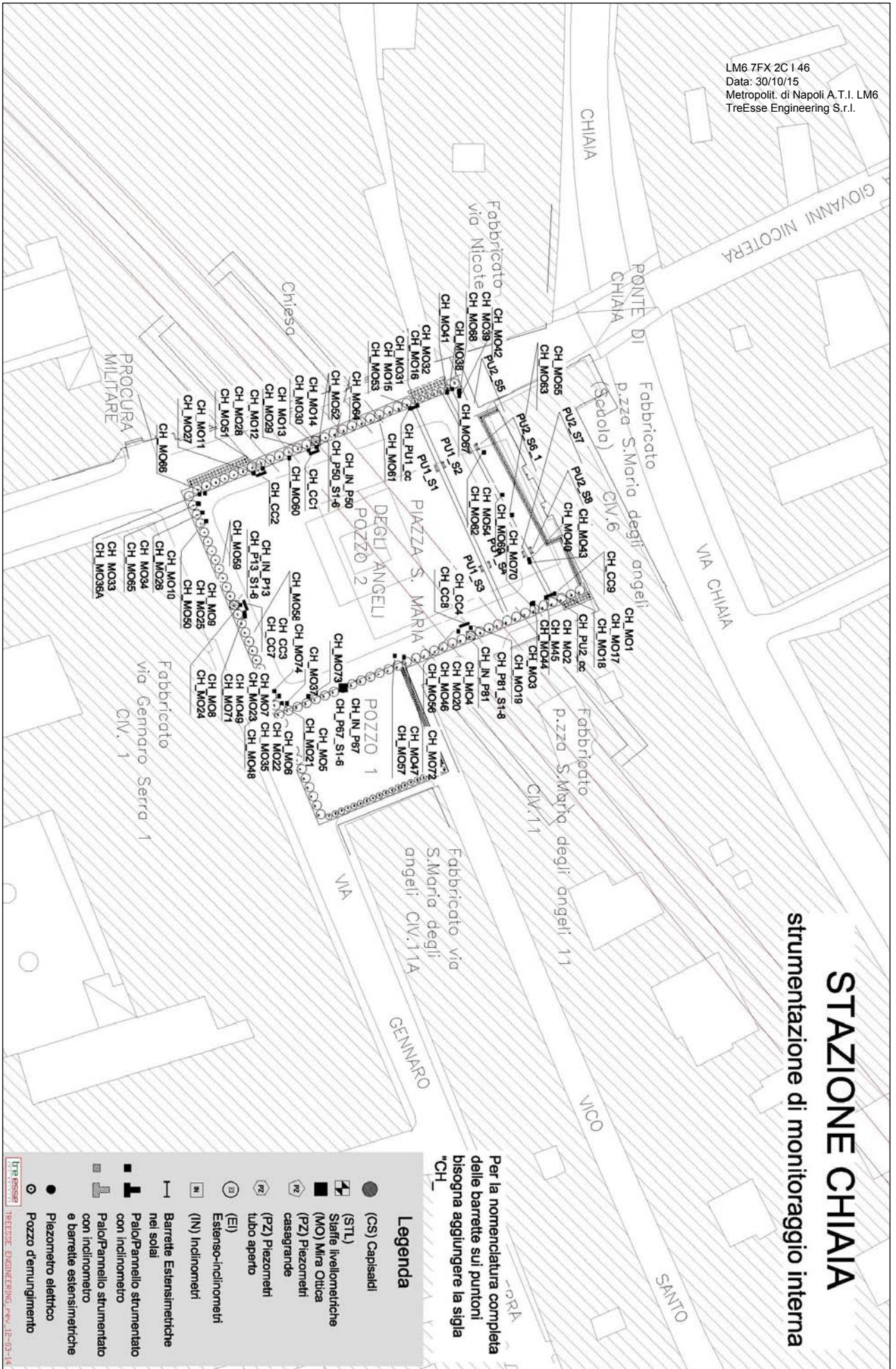



Figura 4.1.: Planimetria pozzo stazione, raffigurante la disposizione della strumentazione di monitoraggio geotecnico interno installata.

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5. PLANIMETRIA E SEZIONI ANDAMENTO TETTO DEL TUFO

Nella figura 5.1 viene rappresentata la Planimetria pozzo stazione, nella quale è riportata la collocazione di alcuni sondaggi effettuati per la campagna propedeutica alla stesura del Progetto Definitivo (2005).

Nella figura 5.2 viene rappresentato l'andamento del tetto del Tufo (lato monte e lato mare) con uno stralcio tratto dall'elaborato grafico del Progetto Definitivo (Stazione Chiaia) allegato alla Relazione Geologica (cod. doc.:LM67F2C0159 – ANNO 2005).

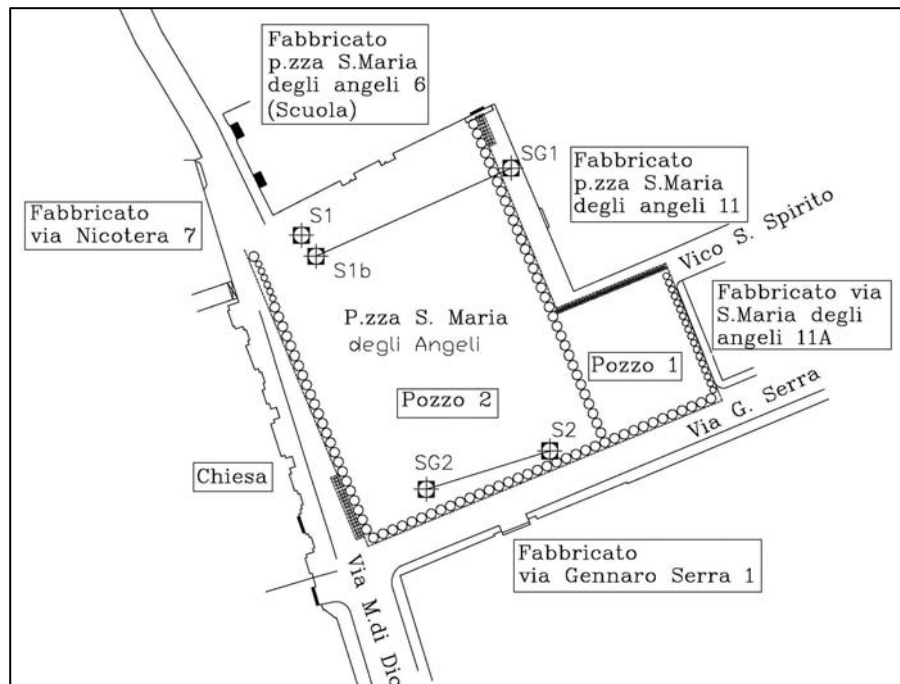


Figura 5.1.: Planimetria pozzo stazione, raffigurante la collocazione di alcuni sondaggi effettuati per la campagna propedeutica alla stesura del Progetto Definitivo (2005).

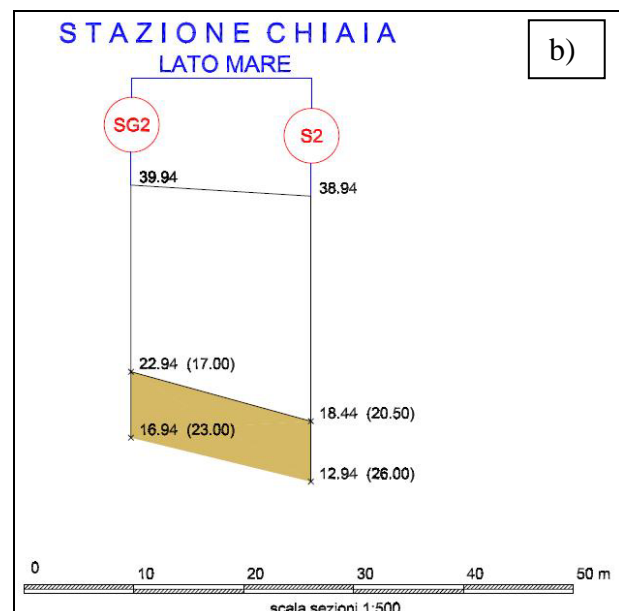
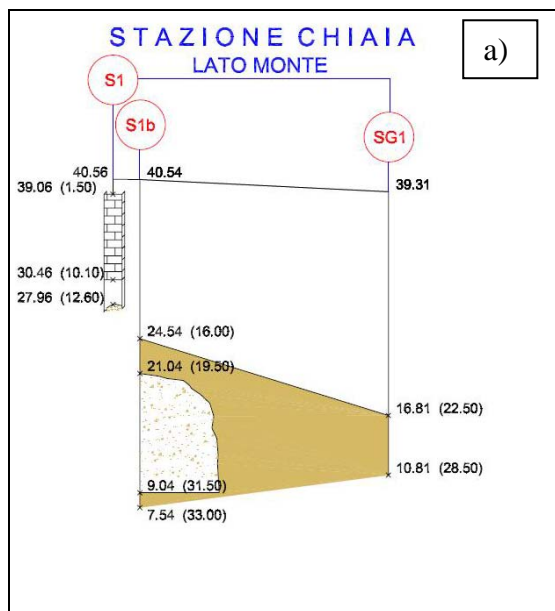



Figura 5.2a e5.2b.: Andamento del tetto del Tufo (lato monte e lato mare) - Stralcio da Elaborato grafico Progetto Definitivo Stazione Chiaia allegato alla Relazione Geologica (cod. doc.: LM67F2C0159 – ANNO 2005).

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1. 6. FASI LAVORATIVE

Nel presente capitolo vengono esposte le principali lavorazioni in svolgimento nel cantiere di Chiaia (Metropolitana di Napoli - Linea 6).

Le indicazioni riportate, aggiornate al periodo di riferimento del presente report, sono frutto sia delle osservazioni in sito dei tecnici Tre Esse sia delle informazioni comunicateci dall'Impresa Esecutrice.

Nella planimetria e nelle sezioni realizzate dalla Scrivente, di seguito riportate, sono state individuate e stimate qualitativamente le aree interessate dalle lavorazioni ritenute significative ai fini del monitoraggio, che rispetto al periodo d'osservazione precedente non hanno subito variazioni rilevanti. La planimetria in figura 6.1 raffigura il pozzo stazione, con la suddivisione in aree di lavoro. Riferendoci alle sezioni A-A' (fig.6.2), B-B' (fig.6.3), si osserva quanto di seguito riportato:

Le principali fasi lavorative hanno riguardato il proseguimento delle strutture interne come le pareti laterali e le opere di impermeabilizzazione. Nella data del 27/03/15 sono stati inoltre chiusi i pozzi di emungimento. Sul lato prossimo alla scuola, longitudinalmente alla facciata principale dell'edificio sono presenti 2 puntoni in acciaio di contrasto fra le paratie di pannelli. Le paratie di pannelli sono inoltre collegate fra di loro a varie quote grazie all'utilizzo di travi in acciaio tirantate.

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La strumentazione geotecnica prossima alle sezioni è la seguente:

- tubi inclinometrici CH_IN1, CH_IN_P67, tubo piezometrico (a tubo aperto) CH_PZ2, per la sezione A-A'
- tubo estenso-inclinometrico CH_EI1/ES1 e inclinometrico CH_IN3, CH_IN4, CH_PZ3 per la sezione B-B'

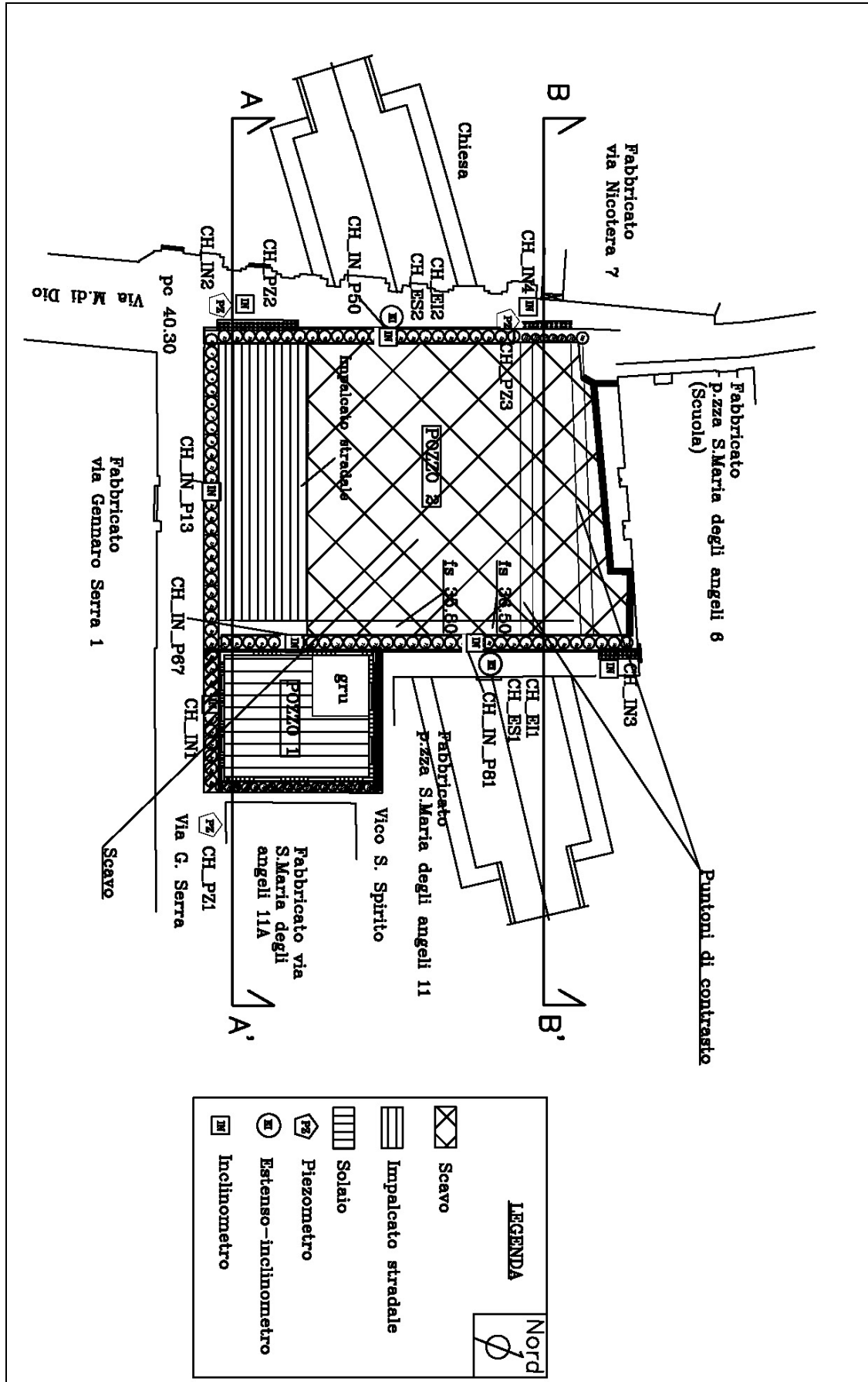


Figura 6.1.: Planimetria pozzo stazione, raffigurante la suddivisione in aree di lavoro.

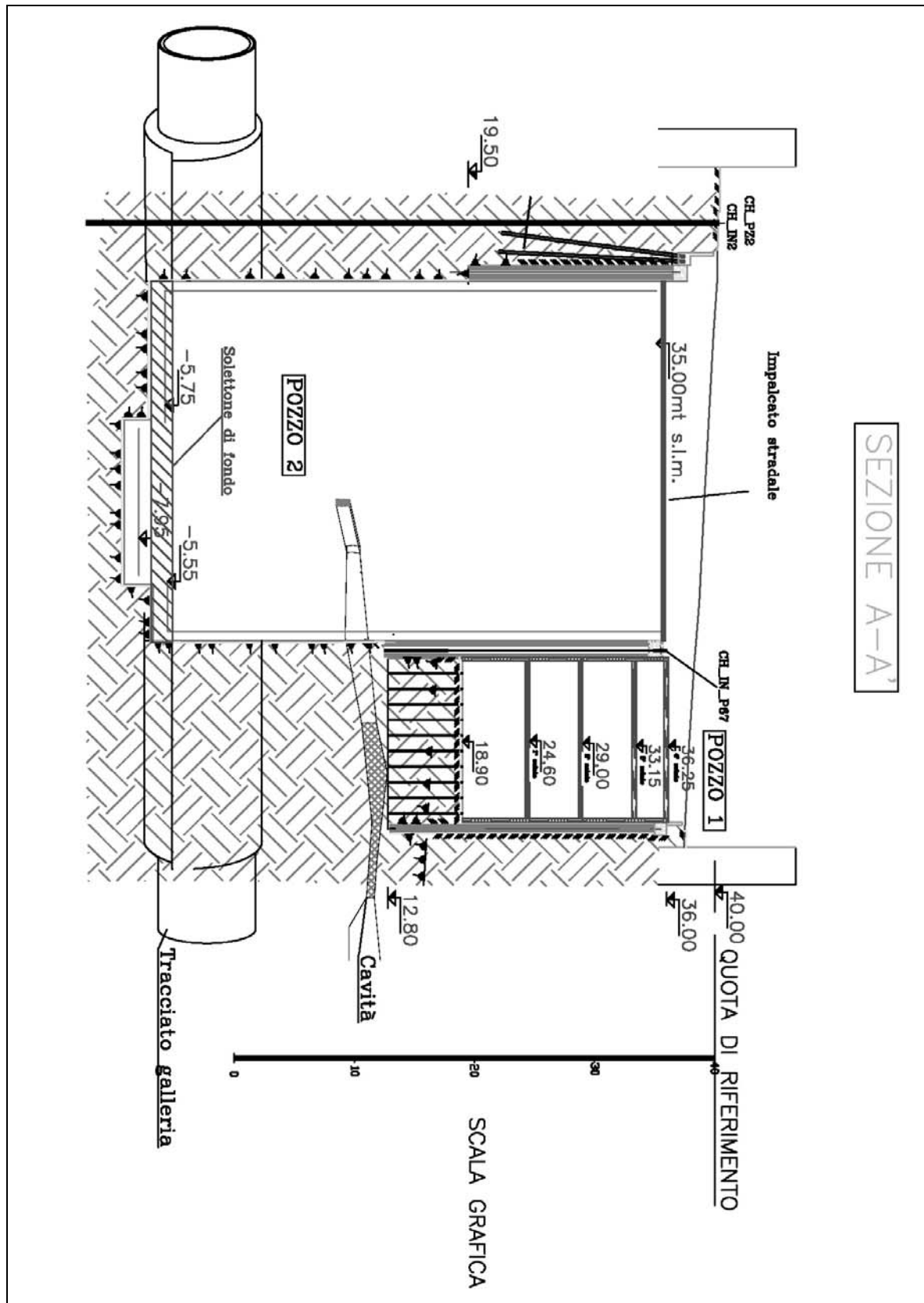


Figura 6.2.: Sezione A-A' pozzo stazione, raffigurante la suddivisione in aree di lavoro.

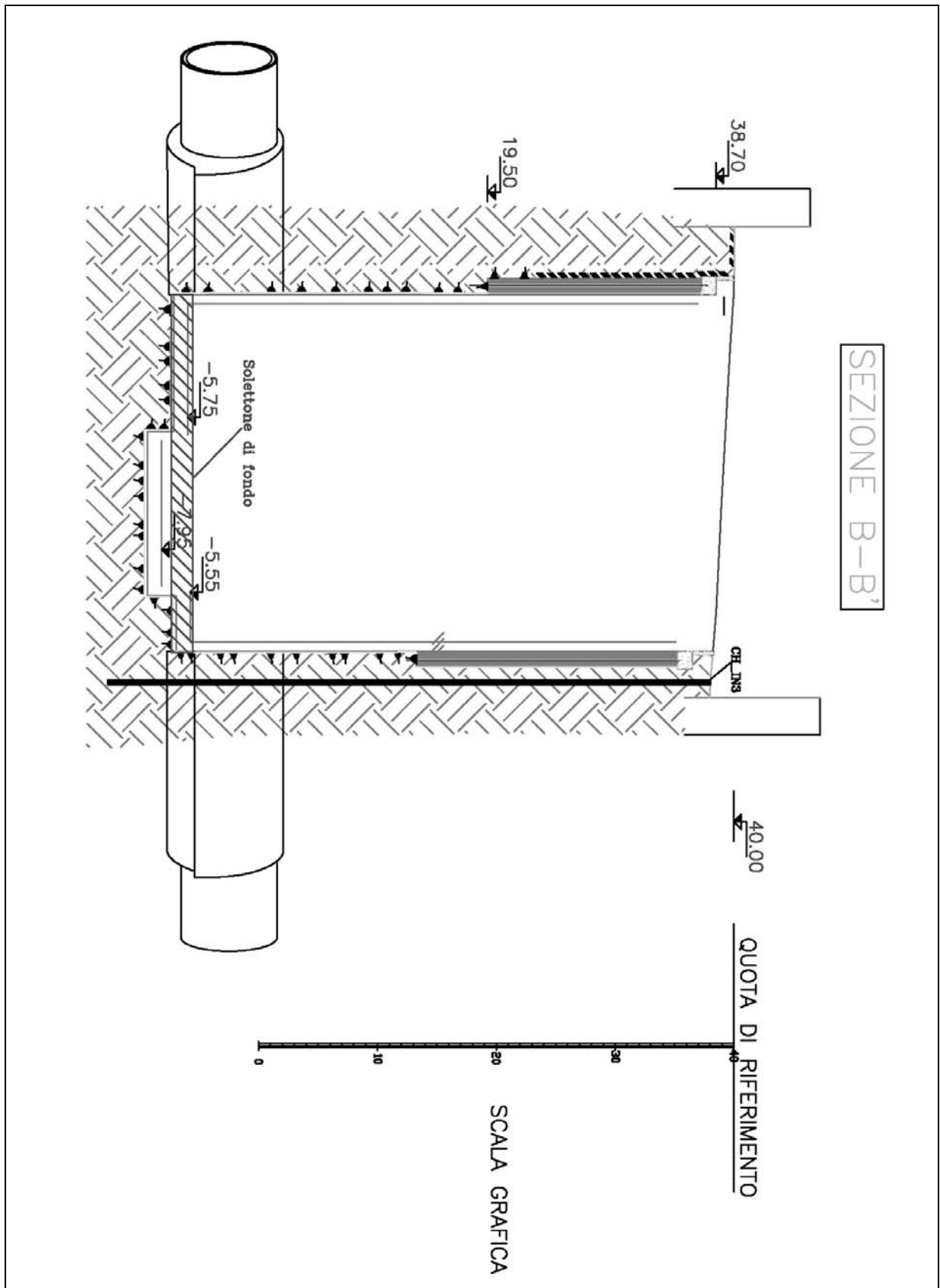


Figura 6.3.: Sezione B-B' pozzo stazione, raffigurante la suddivisione in aree di lavoro.

7. MISURE GEOTECNICHE – INCLINOMETRICHE

Gli inclinometri sono strumenti di controllo dei movimenti e delle deformazioni dei terreni nonché delle variazioni di assetto delle strutture. I rilievi consistono nella misura della variazione delle inclinazioni rispetto alla verticale di punti significativi, dall'inclinazione, mediante integrazione numerica si risale agli spostamenti sul piano x-y. La strumentazione di base è composta da tubo inclinometrico a sezione circolare provvisto di scanalature con funzione di guida per la sonda, sonda inclinometrica, cavo e centralina di misura.

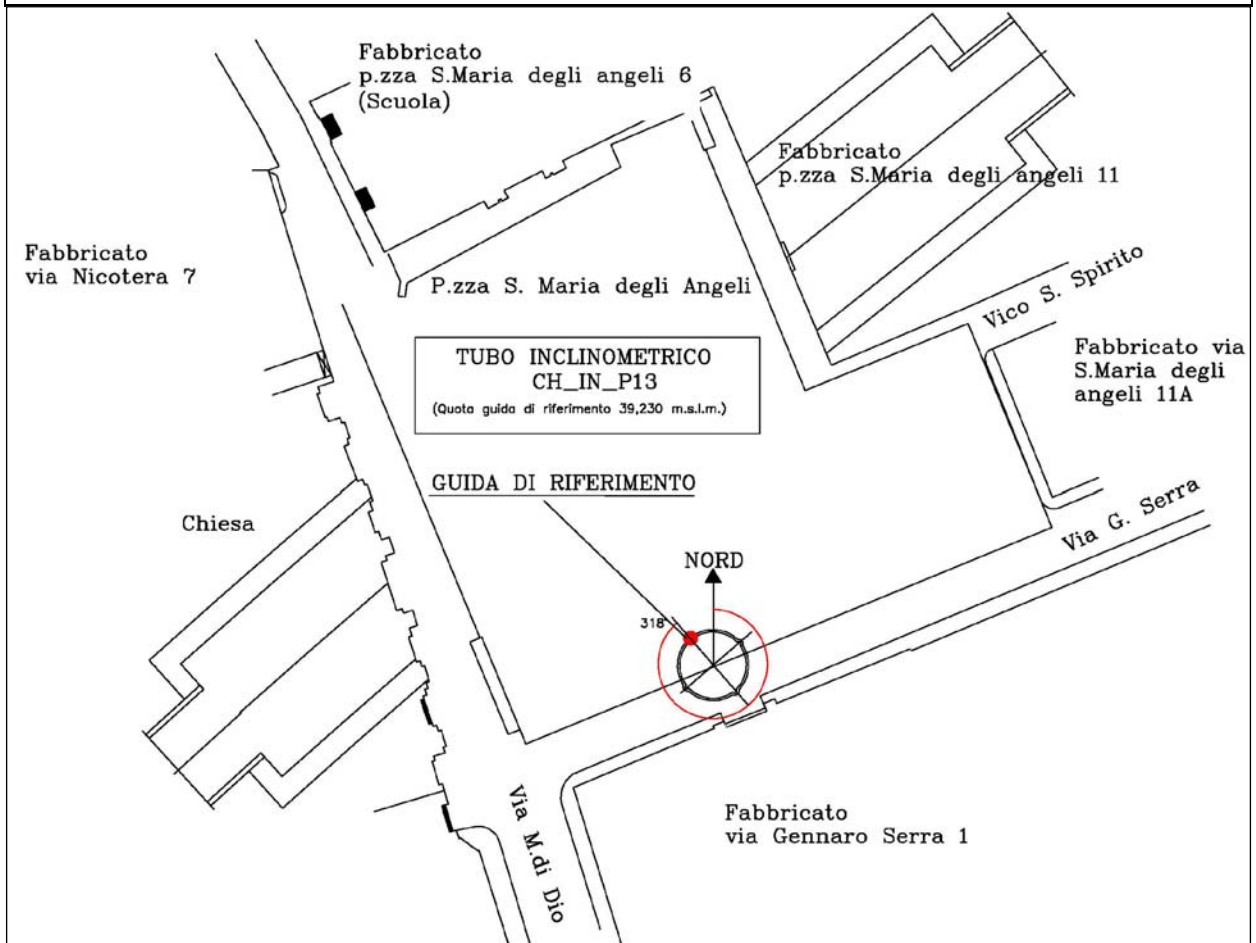
Tabella riepilogativa per gli inclinometri installati in cantiere

NOME	TIPOLOGIA STRUMENTO	DATA INSTALLAZIONE	DISPONIBILITA' LETTURA			NOTE
			DATA LETTURA DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
CH_IN_P13	INCLINOMETRO	06/12/10	22/12/10			
CH_IN_P50	INCLINOMETRO	21/12/10	21/01/11			
CH_IN_P67	INCLINOMETRO	18/11/09	25/11/09			
CH_IN_P81	INCLINOMETRO	21/12/10	21/01/11			

(*) al presente Report non ci sono misure da consegnare per lo strumento

Inclinometro

CH_IN_P13



Affidabilità strumentale
A.T.I. LM6 – TreEsse

buono
da rivedere
da scartare

X

Congruenza progettuale
C.T. ATI LM6 – C.T. Monitoraggio

congruente
non congruente, da valutare
non congruente con implicazioni sulla
sicurezza

NOTE

Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P13**
 Azimut di riferimento **318**
 Quota guida rif. (m.s.l.m.) **39,23**
 Data lettura di zero **22/12/2010**
 Data posa in opera **06/12/2010**

Misura **110** in data **20/10/2015 10:19**

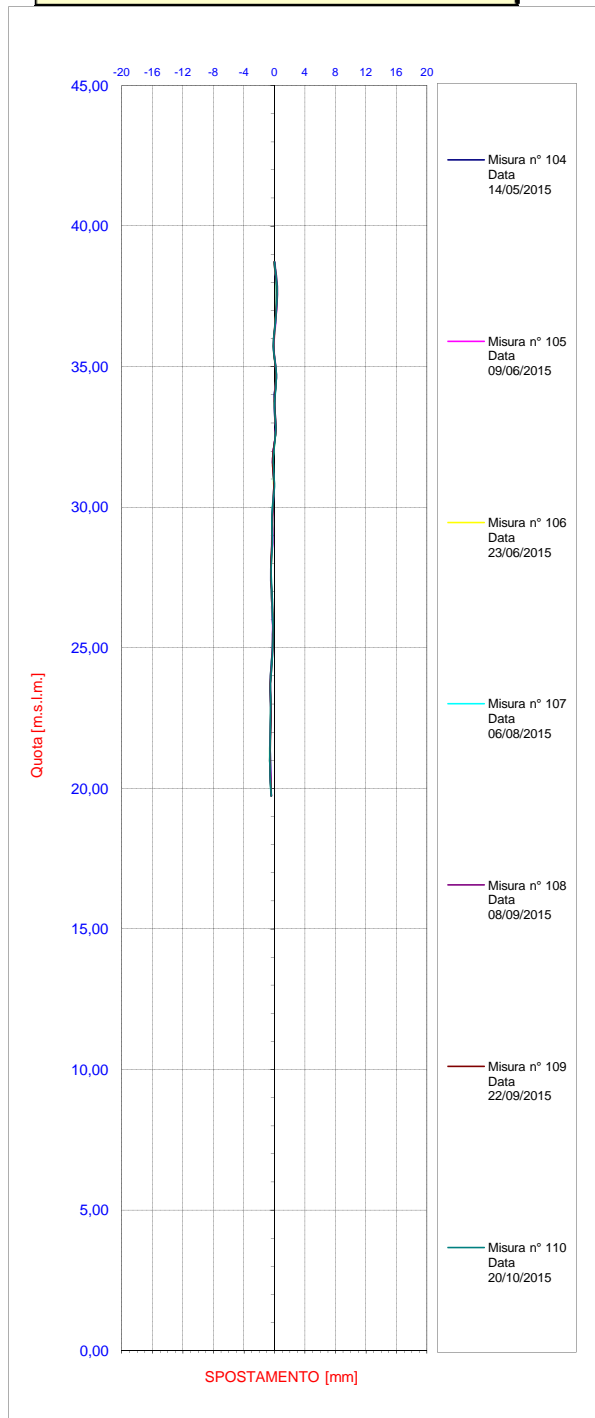
SPOSTAMENTI LOCALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
38,7	-0,001	0,238	0,238	359,710
37,7	0,351	0,238	0,424	55,813
36,7	0,156	0,021	0,158	82,487
35,7	-0,128	0,216	0,251	329,407
34,7	0,252	0,434	0,502	30,200
33,7	0,020	0,154	0,155	7,324
32,7	0,160	-0,041	0,165	104,370
31,7	-0,154	-0,181	0,237	220,392
30,7	-0,011	-0,137	0,138	184,409
29,7	-0,324	0,089	0,336	285,389
28,7	-0,297	0,372	0,476	321,432
27,7	-0,434	0,089	0,443	281,610
26,7	-0,288	0,291	0,410	315,282
25,7	-0,197	0,357	0,408	331,109
24,7	-0,258	0,440	0,510	329,665
23,7	-0,516	0,430	0,672	309,810
22,7	-0,480	0,446	0,655	312,920
21,7	-0,561	0,309	0,640	298,893
20,7	-0,597	0,379	0,707	302,381
19,7	-0,432	0,580	0,723	323,333

SPOSTAMENTI INTEGRALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
38,7	-3,737	4,724	6,024	321,655
37,7	-3,736	4,486	5,838	320,214
36,7	-4,086	4,248	5,895	316,111
35,7	-4,243	4,227	5,989	314,897
34,7	-4,115	4,012	5,747	314,270
33,7	-4,367	3,578	5,646	309,326
32,7	-4,387	3,424	5,565	307,973
31,7	-4,547	3,465	5,717	307,310
30,7	-4,393	3,646	5,709	309,688
29,7	-4,383	3,783	5,790	310,800
28,7	-4,059	3,694	5,489	312,304
27,7	-3,762	3,322	5,019	311,442
26,7	-3,328	3,233	4,640	314,166
25,7	-3,040	2,942	4,230	314,058
24,7	-2,843	2,584	3,842	312,273
23,7	-2,585	2,144	3,359	309,671
22,7	-2,069	1,714	2,687	309,636
21,7	-1,589	1,268	2,033	308,578
20,7	-1,029	0,958	1,406	312,972
19,7	-0,432	0,580	0,723	323,333

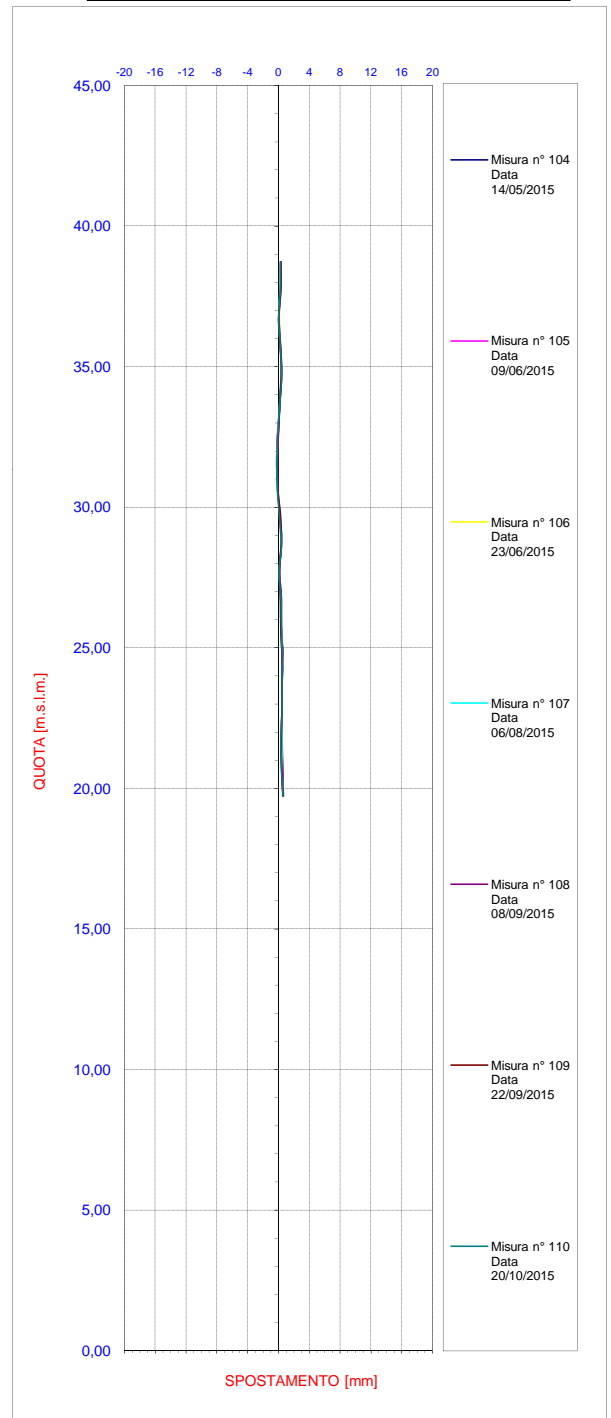
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P13**
 Azimut di riferimento **318**
 Quota guida rif. (m.s.l.m.) **39,23**
 Data lettura di zero **22/12/2010**
 Data posa in opera **06/12/2010**

Ultima Misura **110** in data **20/10/2015 10:19**

Spostamenti Differenziali Locali
OVEST- (valori negativi) / EST + (valori positivi)

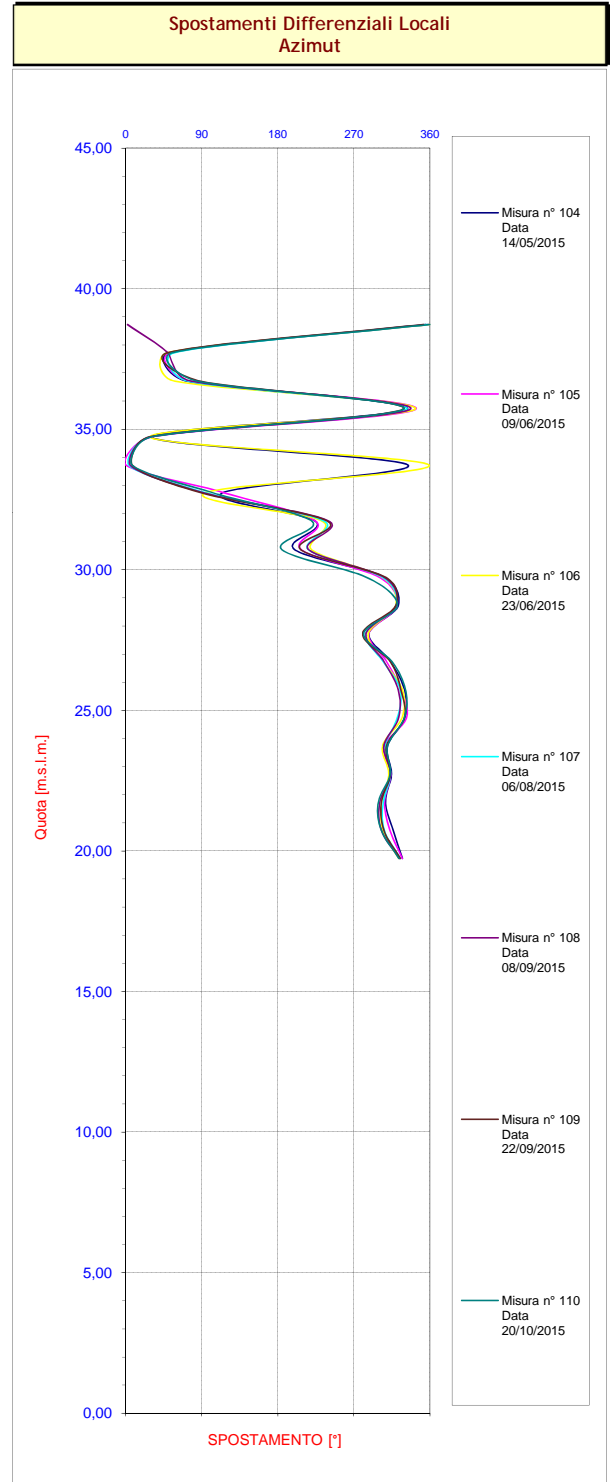
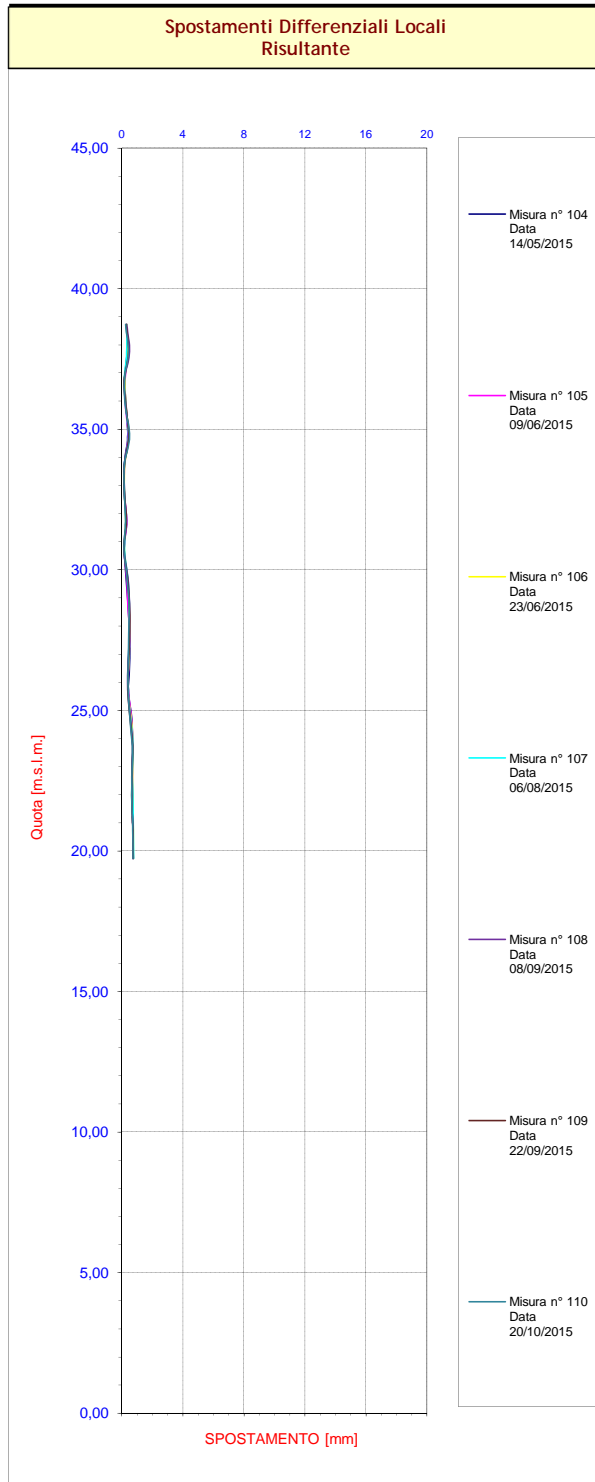


Spostamenti Differenziali Locali
SUD - (valori negativi) / NORD + (valori positivi)



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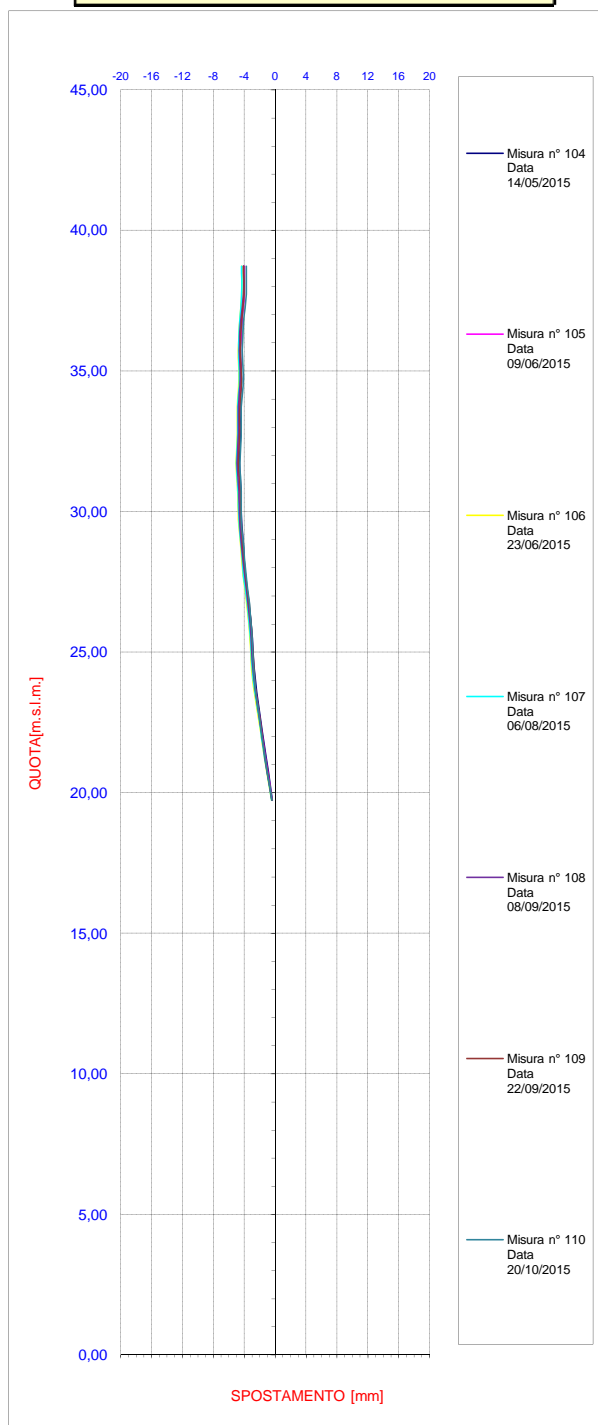
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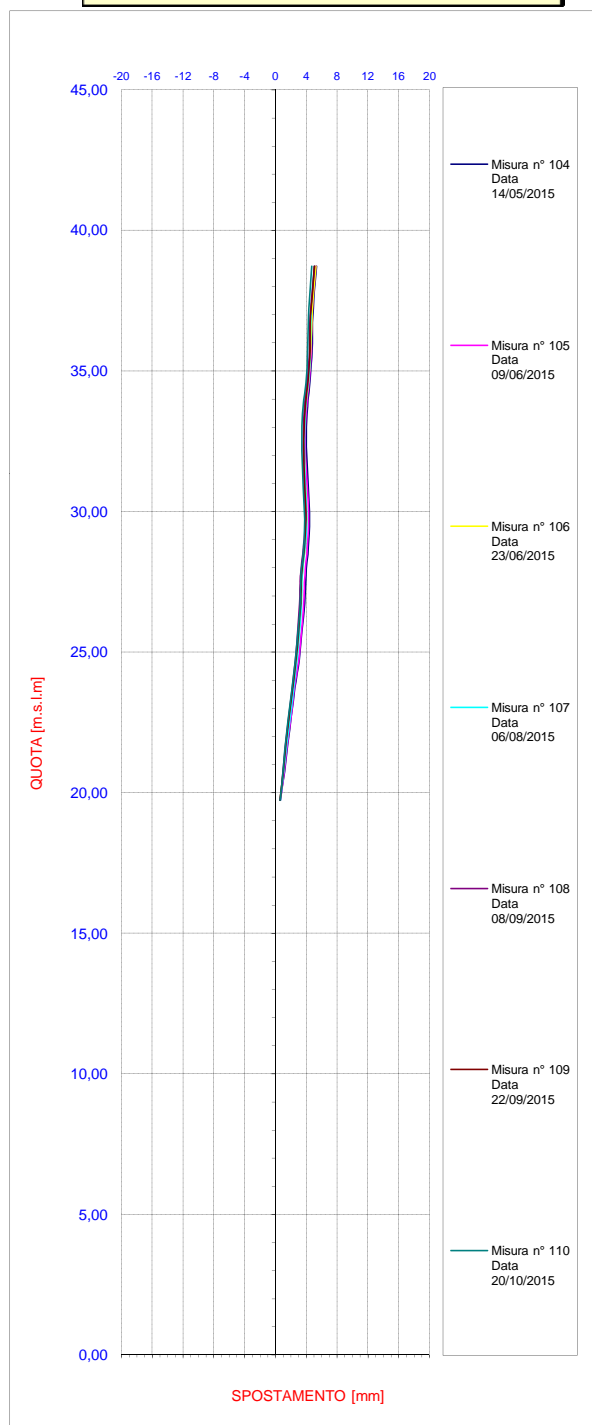
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P13**
 Azimut di riferimento **318**
 Quota guida rif. (m.s.l.m.) **39,23**
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Ultima Misura **110** in data **20/10/2015 10:19**

Spostamenti Differenziali Integrali
OVEST- (valori negativi) / EST + (valori positivi)



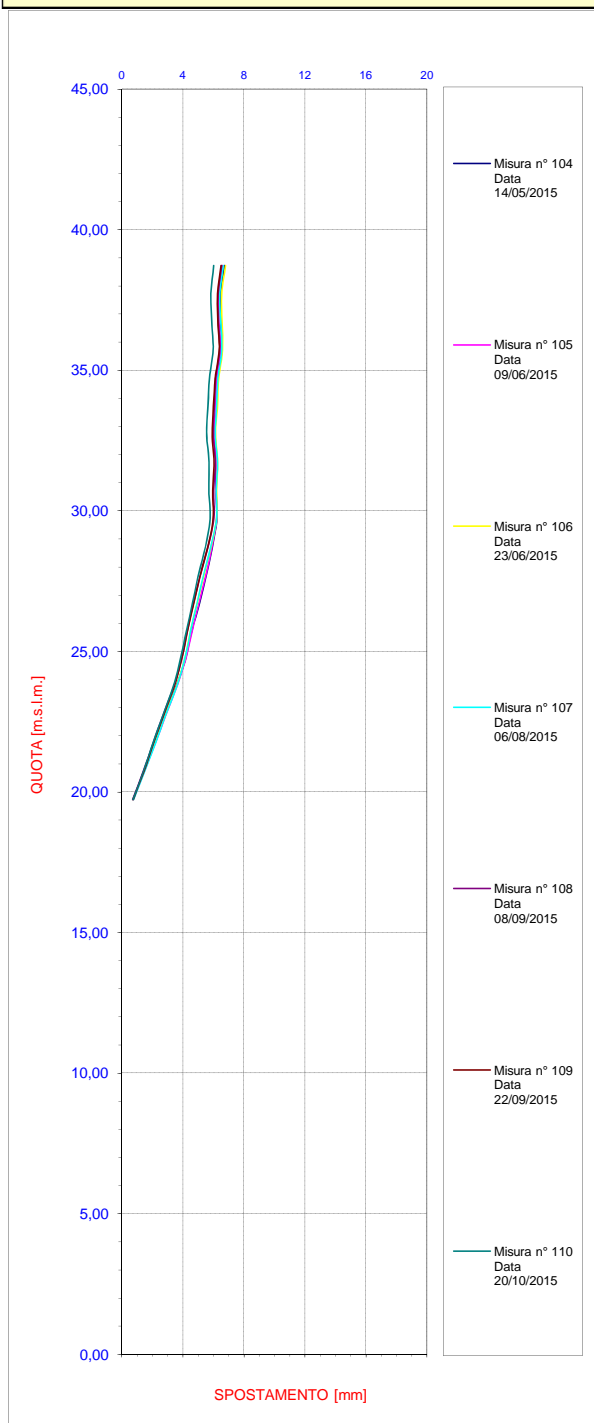
Spostamenti Differenziali Integrali
SUD - (valori negativi) / NORD + (valori positivi)



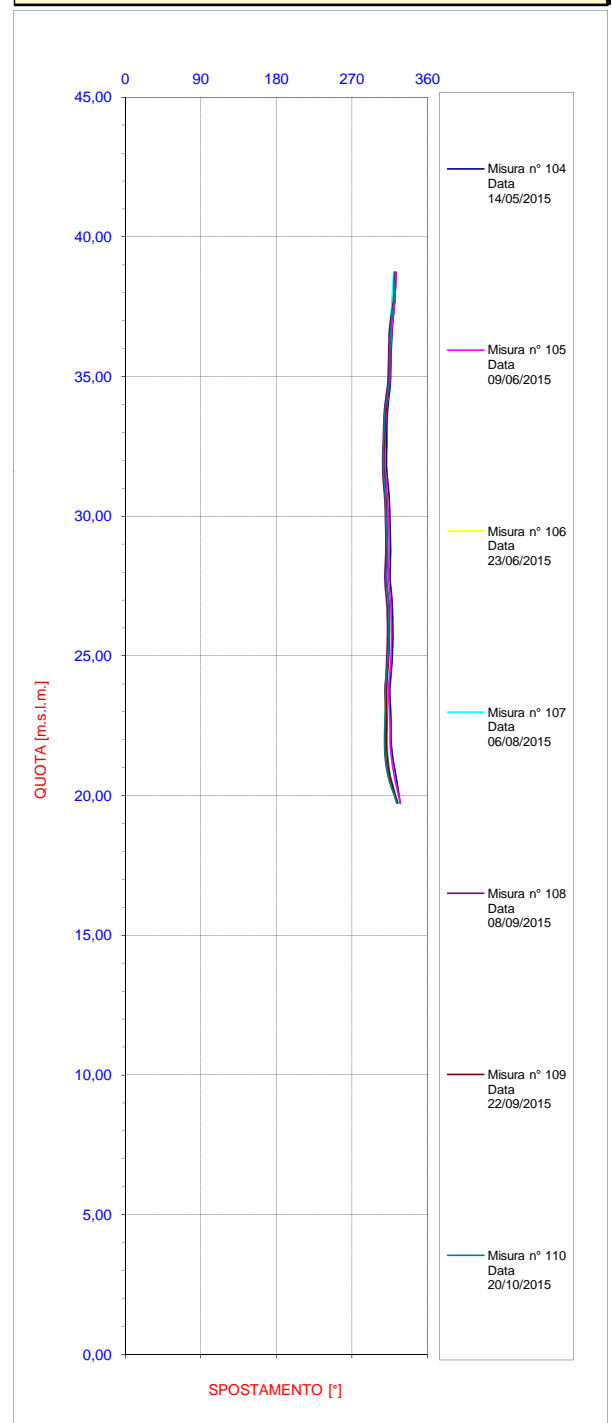
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 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P13**
 Azimut di riferimento **318**
 Quota guida rif. (m.s.l.m.) **39,23**
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 Data posa in opera **06/12/2010**

Ultima Misura **110** in data **20/10/2015 10:19**

Spostamenti Differenziali Integrali Risultante



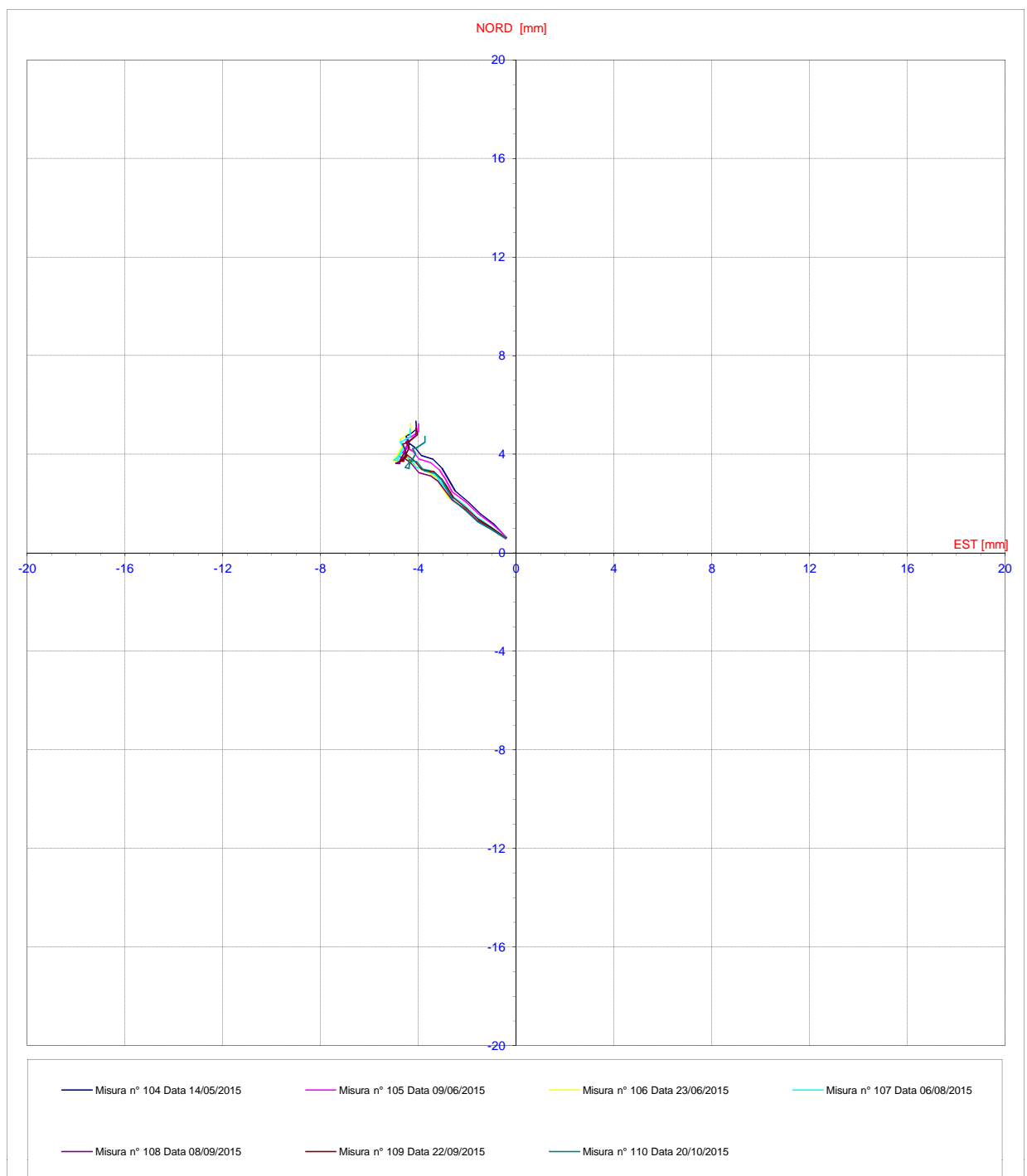
Spostamenti Differenziali Integrali Azimut



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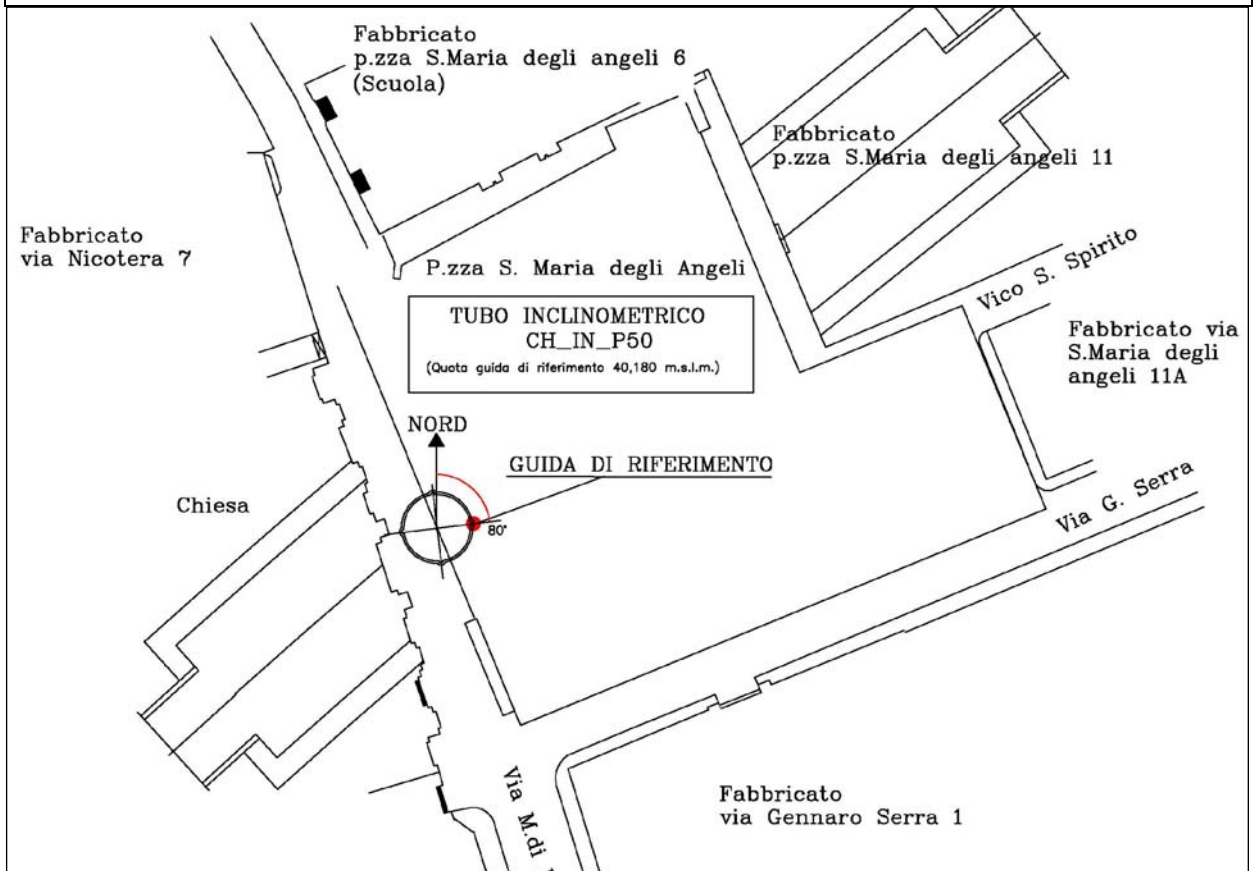
Ultima Misura **110** in data **20/10/2015 10:19**

Spostamenti Differenziali Integrali
Diagramma polare



Inclinometro

CH_IN_P50



Affidabilità strumentale
A.T.I. LM6 – TreEsse

buono
da rivedere
da scartare

X

Congruenza progettuale
C.T. ATI LM6 – C.T. Monitoraggio

congruente
non congruente, da valutare
non congruente con implicazioni sulla
sicurezza

NOTE



MISURE INCLINOMETRICHE
ELABORAZIONE DA FONDO FORO
-TABULATI-

Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P50**
 Azimut di riferimento **80**
 Quota guida rif. (m.s.l.m.) **40,18**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

Misura **115** in data **20/10/2015 10:26**

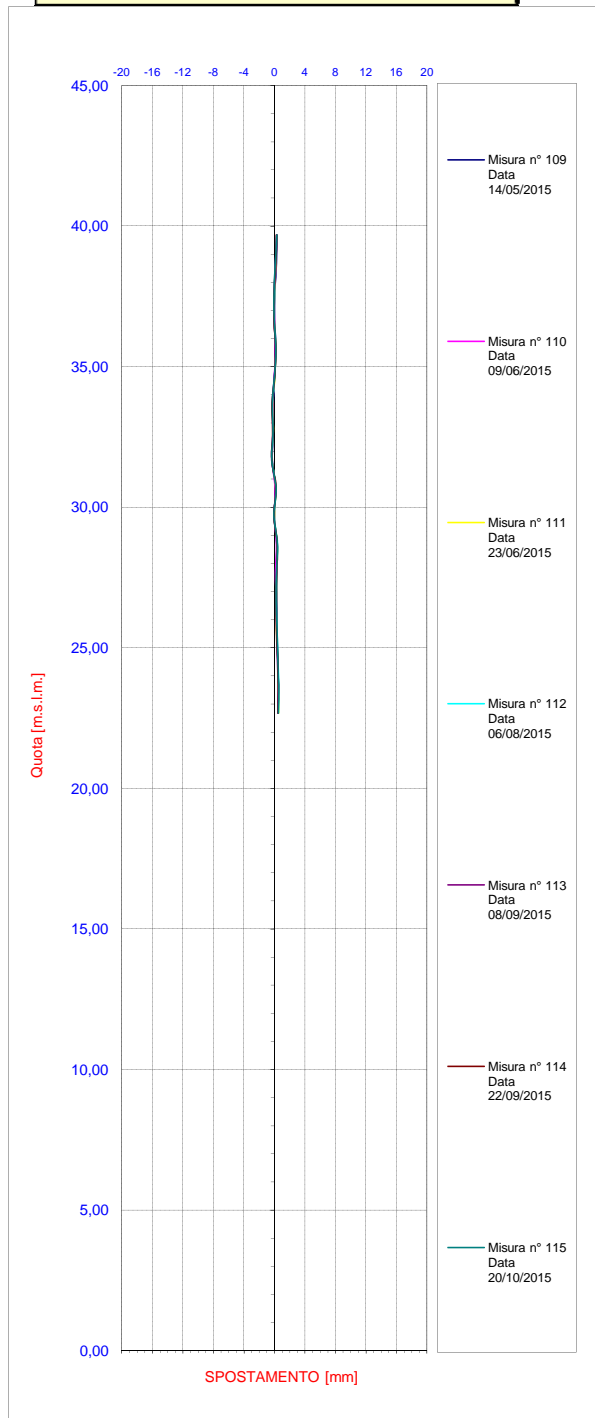
SPOSTAMENTI LOCALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
39,7	0,300	-0,408	0,507	143,657
38,7	0,106	-0,447	0,459	166,629
37,7	-0,073	-0,186	0,200	201,426
36,7	-0,056	-0,446	0,450	187,138
35,7	0,153	-0,304	0,341	153,250
34,7	0,001	-0,285	0,285	179,855
33,7	-0,317	-0,213	0,382	236,105
32,7	-0,207	0,062	0,217	286,772
31,7	-0,370	-0,145	0,397	248,624
30,7	0,180	-0,084	0,198	115,088
29,7	-0,086	-0,055	0,102	237,303
28,7	0,371	-0,052	0,375	98,051
27,7	0,229	0,183	0,293	51,385
26,7	0,208	-0,270	0,341	142,381
25,7	0,315	-0,082	0,325	104,574
24,7	0,425	-0,243	0,489	119,742
23,7	0,527	-0,050	0,529	95,390
22,7	0,492	-0,017	0,492	92,016

SPOSTAMENTI INTEGRALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
39,7	2,197	-3,042	3,753	144,165
38,7	1,897	-2,634	3,246	144,245
37,7	1,791	-2,188	2,827	140,699
36,7	1,864	-2,001	2,735	137,038
35,7	1,920	-1,555	2,470	129,011
34,7	1,766	-1,251	2,164	125,302
33,7	1,765	-0,966	2,012	118,681
32,7	2,082	-0,753	2,214	109,882
31,7	2,289	-0,815	2,430	109,605
30,7	2,659	-0,671	2,743	104,154
29,7	2,480	-0,587	2,548	103,309
28,7	2,566	-0,531	2,620	101,698
27,7	2,195	-0,479	2,246	102,307
26,7	1,966	-0,661	2,074	108,593
25,7	1,758	-0,392	1,801	102,554
24,7	1,444	-0,310	1,476	102,110
23,7	1,019	-0,067	1,021	93,764
22,7	0,492	-0,017	0,492	92,016

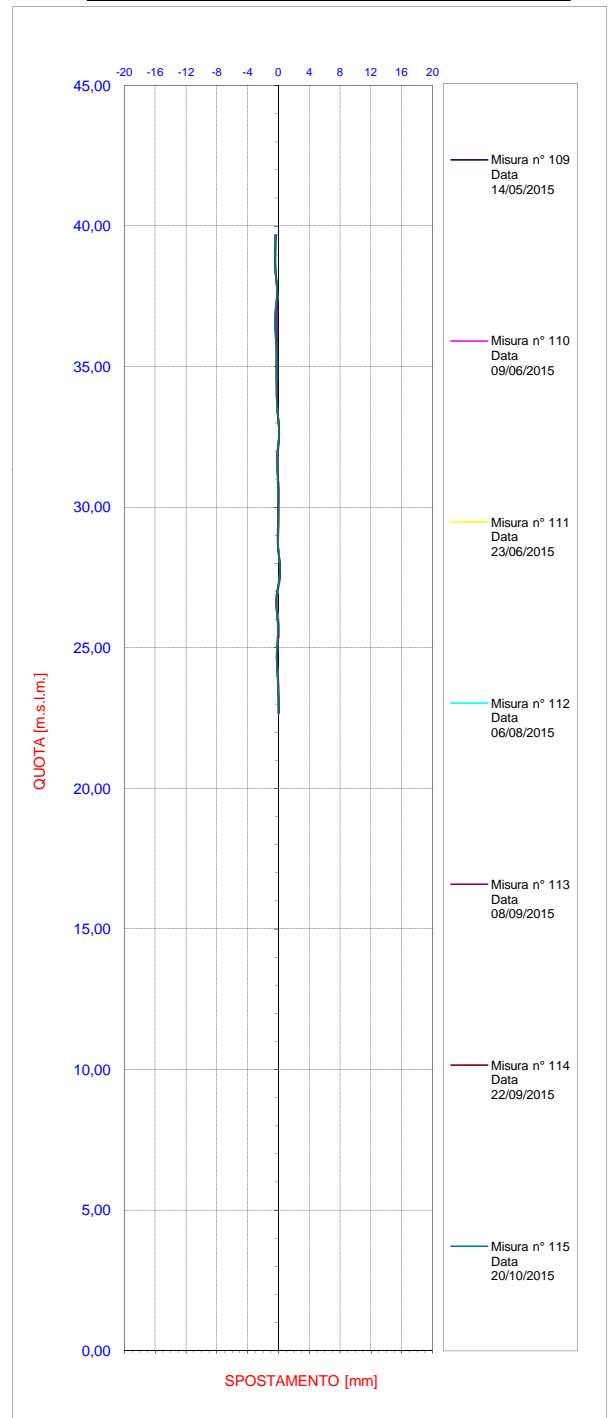
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P50**
 Azimut di riferimento **80**
 Quota guida rif. (m.s.l.m.) **40,18**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

Ultima Misura **115** in data **20/10/2015 10:26**

**Spostamenti Differenziali Locali
OVEST- (valori negativi) / EST + (valori positivi)**

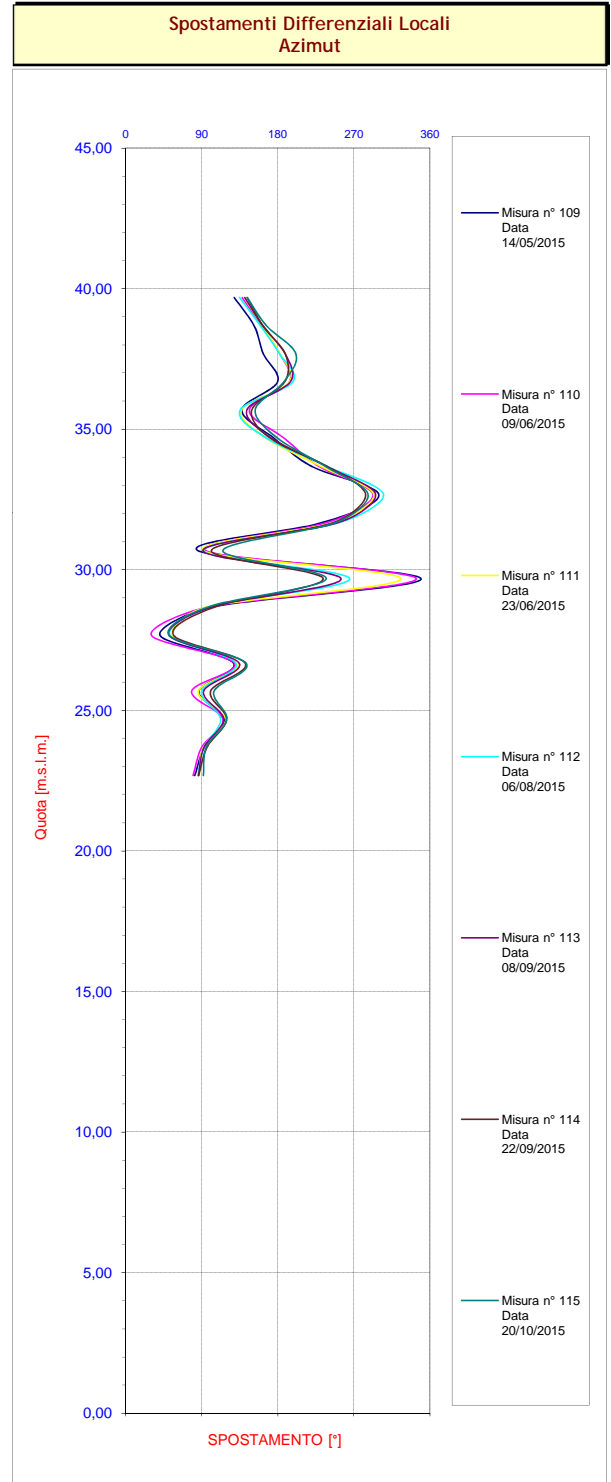
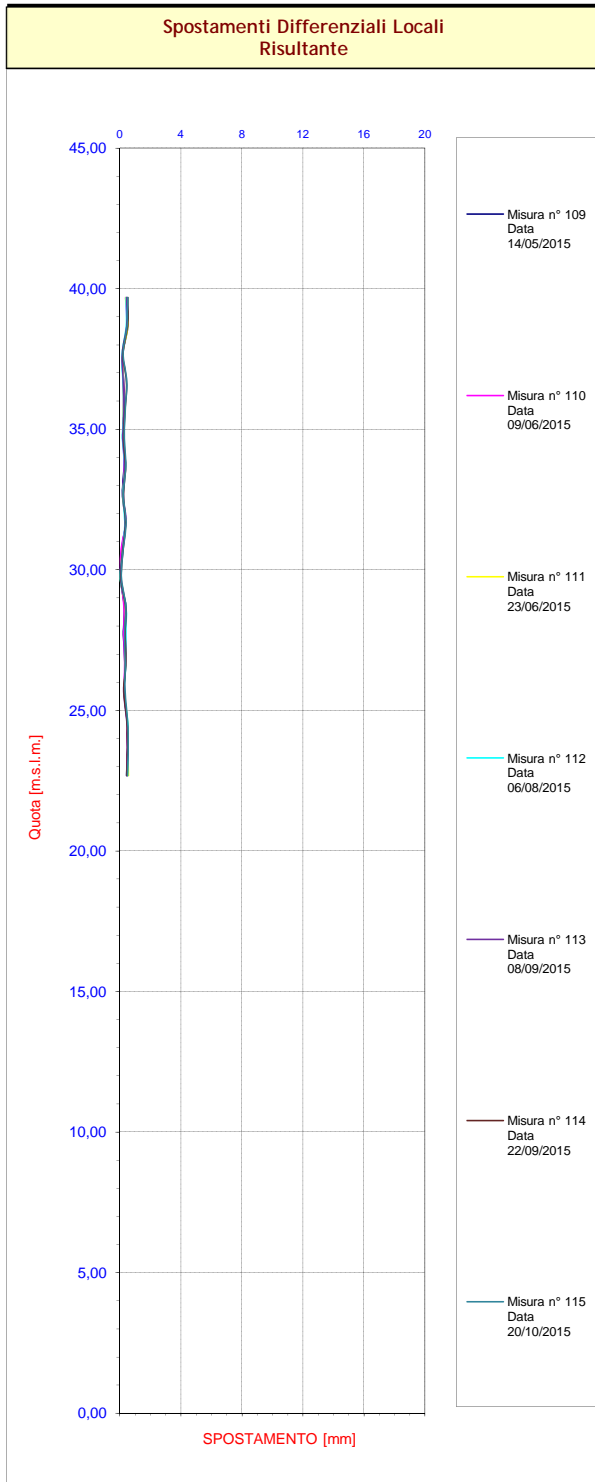


**Spostamenti Differenziali Locali
SUD - (valori negativi) / NORD + (valori positivi)**



Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P50**
 Azimut di riferimento **80**
 Quota guida rif. (m.s.l.m.) **40,18**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

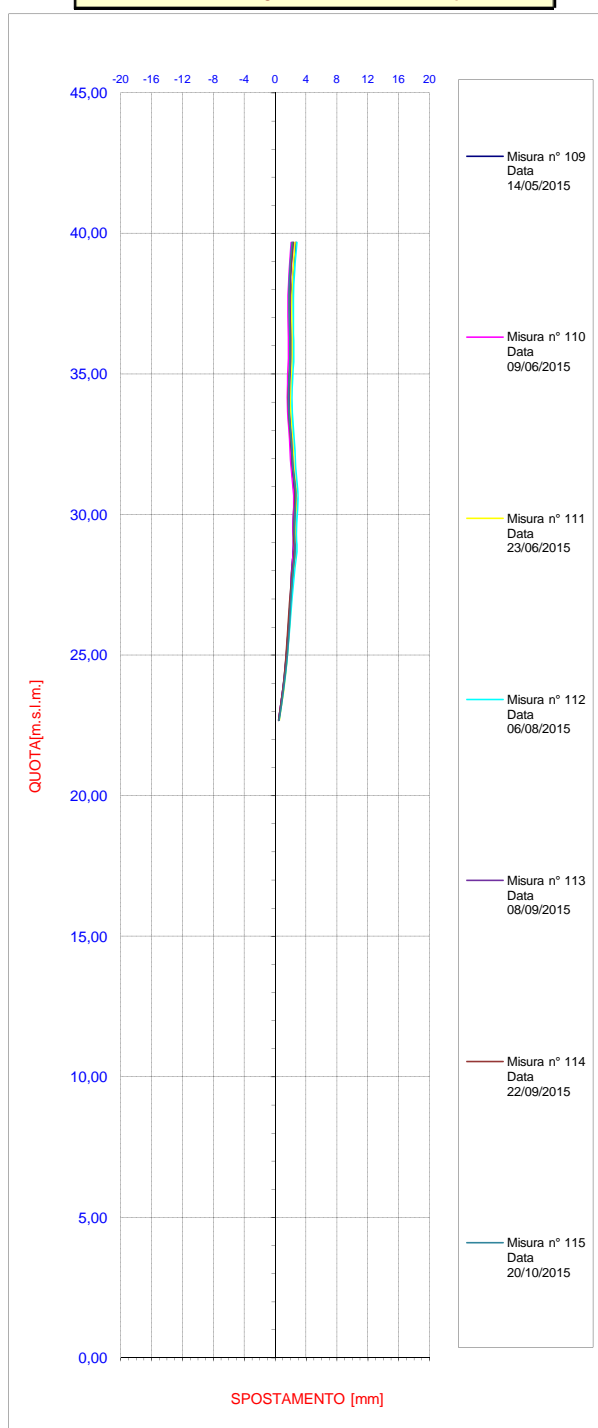
Ultima Misura **115** in data **20/10/2015 10:26**



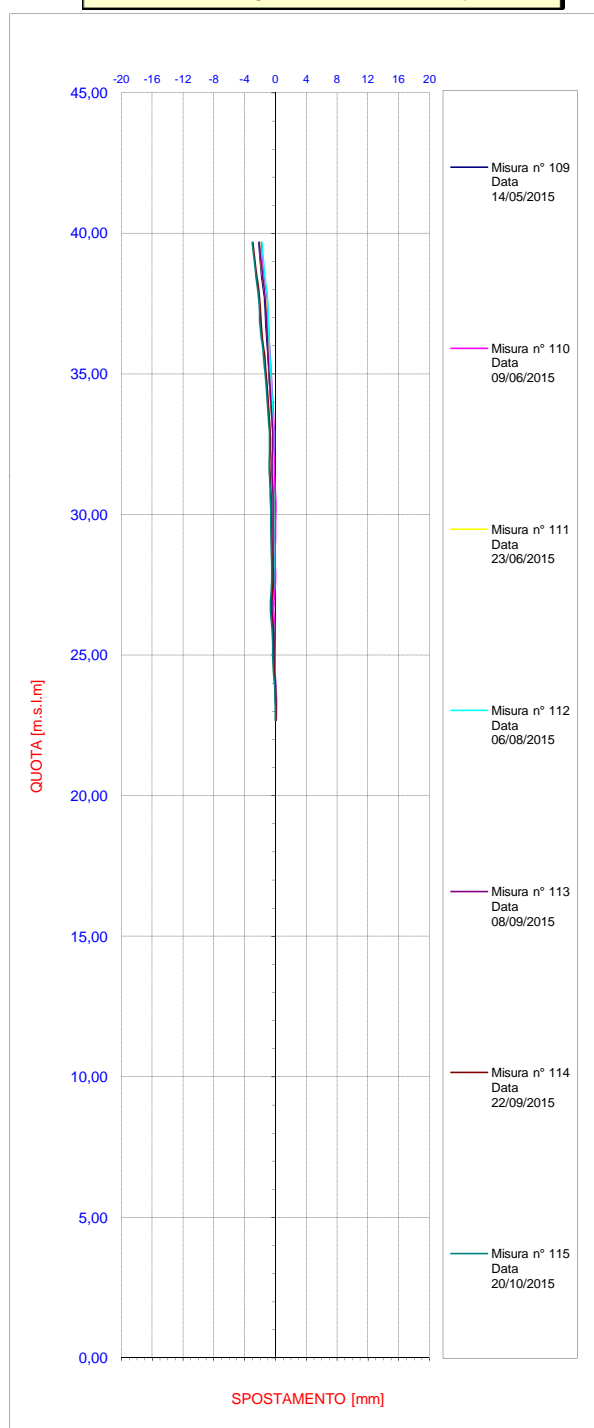
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P50**
 Azimut di riferimento **80**
 Quota guida rif. (m.s.l.m.) **40,18**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

Ultima Misura **115** in data **20/10/2015 10:26**

Spostamenti Differenziali Integrali
OVEST- (valori negativi) / EST + (valori positivi)



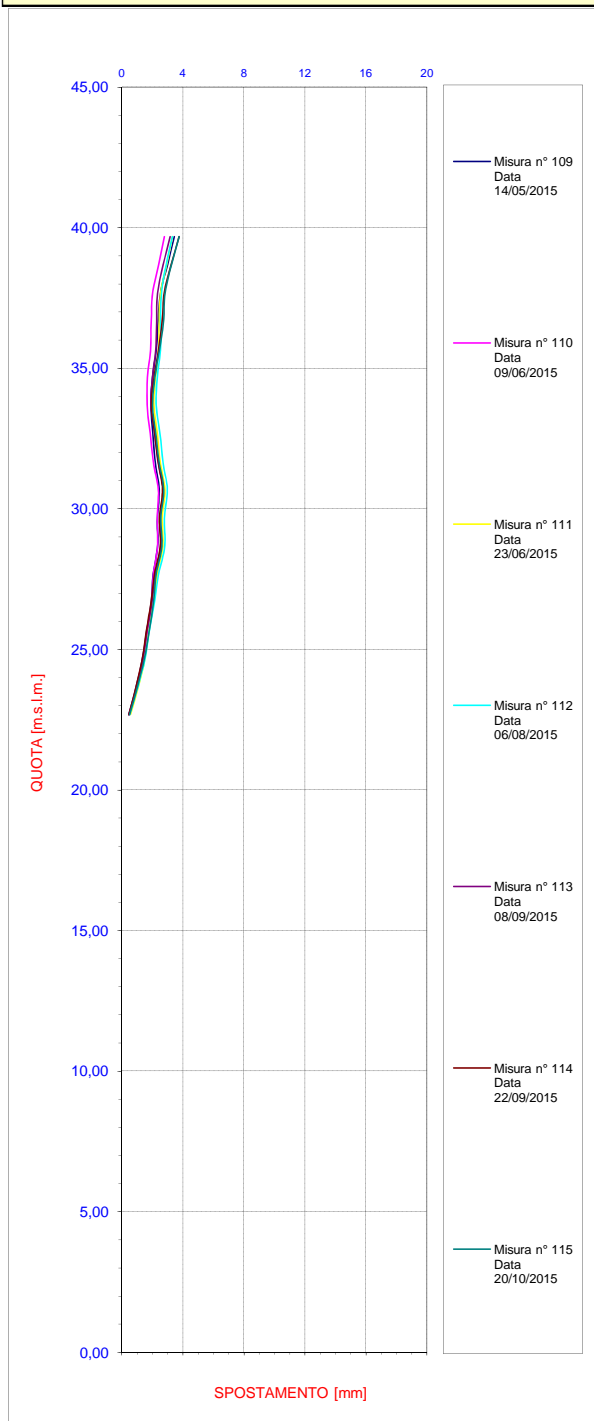
Spostamenti Differenziali Integrali
SUD - (valori negativi) / NORD + (valori positivi)



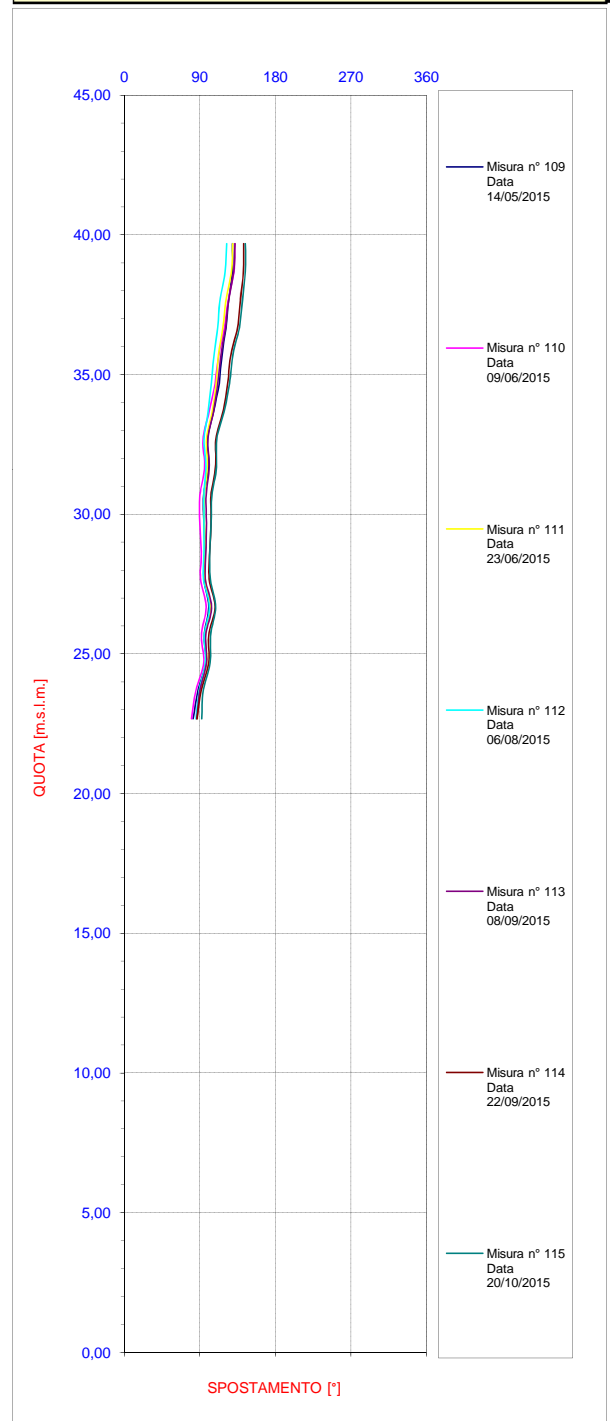
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P50**
 Azimut di riferimento **80**
 Quota guida rif. (m.s.l.m.) **40,18**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

Ultima Misura **115** in data **20/10/2015 10:26**

Spostamenti Differenziali Integrali Risultante



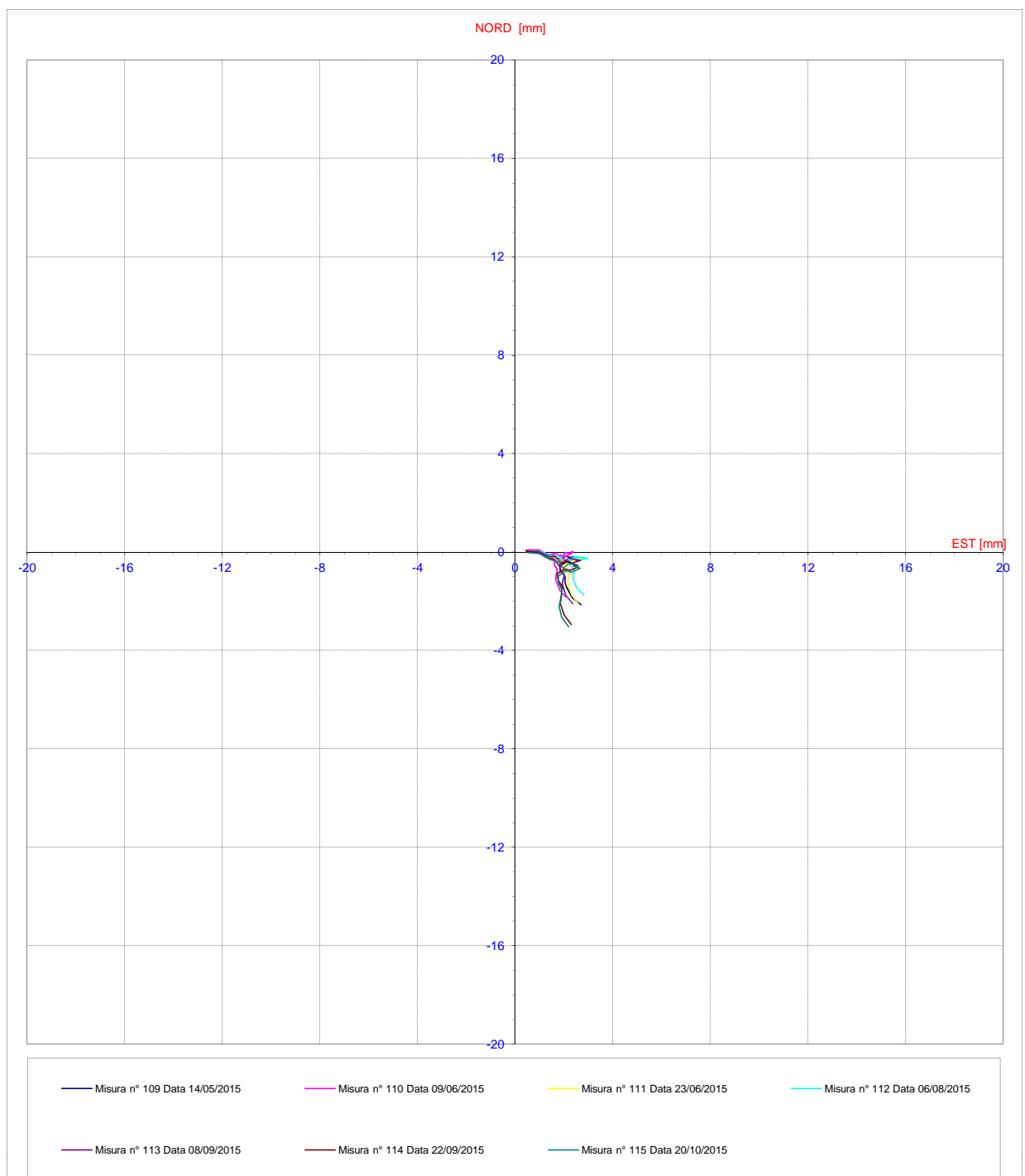
Spostamenti Differenziali Integrali Azimut



Ubicazione STAZIONE CHIAIA
 Tipo Strumento Tubo inclinometrico
 Nome tubo CH_IN_P50
 Azimut di riferimento 80
 Quota guida rif. (m.s.l.m.) 40,18
 Data lettura di zero 21/01/2011
 Data posa in opera 21/12/2010

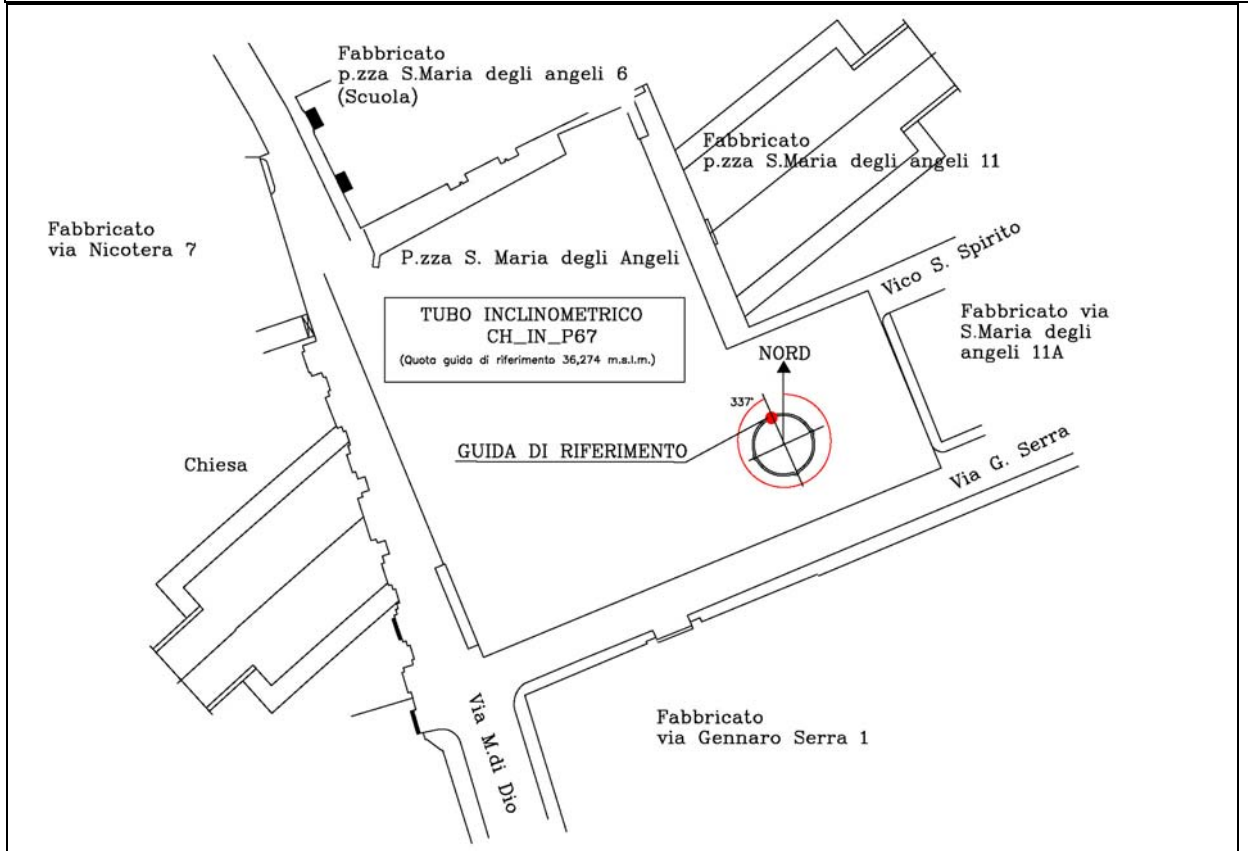
Ultima Misura 115 in data 20/10/2015 10:26

Spostamenti Differenziali Integrali
Diagramma polare



Inclinometro

CH_IN_P67



Affidabilità strumentale
A.T.I. LM6 – TreEsse

buono
da rivedere
da scartare

X

Congruenza progettuale
C.T. ATI LM6 – C.T. Monitoraggio

congruente
non congruente, da valutare
non congruente con implicazioni sulla
sicurezza

NOTE

Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P67**
 Azimut di riferimento **337**
 Quota guida rif. (m.s.l.m.) **36,274**
 Data lettura di zero **25/11/2009**
 Data posa in opera **18/11/2009**

Misura **167** in data **20/10/2015 10:39**

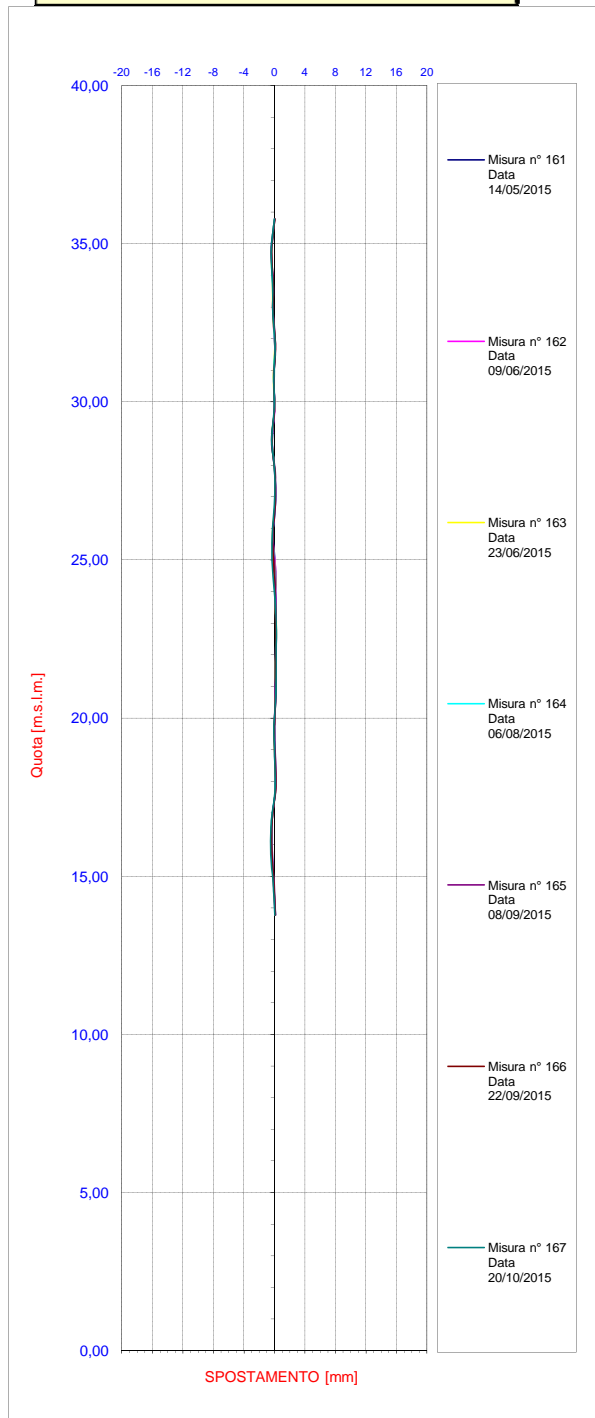
SPOSTAMENTI LOCALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
35,8	0,034	-0,016	0,038	114,657
34,8	-0,417	-0,137	0,439	251,845
33,8	-0,240	0,200	0,313	309,758
32,8	-0,188	0,106	0,216	299,561
31,8	0,123	0,148	0,192	39,758
30,8	-0,069	0,004	0,069	273,658
29,8	-0,019	0,396	0,396	357,191
28,8	-0,347	-0,004	0,347	269,327
27,8	0,055	0,264	0,269	11,794
26,8	0,019	0,158	0,159	7,050
25,8	-0,277	0,727	0,778	339,173
24,8	-0,279	0,402	0,489	325,240
23,8	0,112	0,308	0,328	20,076
22,8	0,254	0,466	0,531	28,634
21,8	0,235	-0,301	0,381	142,064
20,8	0,219	0,222	0,312	44,623
19,8	-0,044	0,531	0,533	355,310
18,8	0,034	0,334	0,336	5,801
17,8	0,121	0,215	0,247	29,358
16,8	-0,378	0,448	0,586	319,822
15,8	-0,482	0,272	0,554	299,462
14,8	-0,142	0,238	0,278	329,150
13,8	0,065	0,268	0,275	13,746

SPOSTAMENTI INTEGRALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
35,8	-1,609	5,249	5,490	342,952
34,8	-1,644	5,264	5,515	342,660
33,8	-1,226	5,401	5,539	347,208
32,8	-0,986	5,201	5,294	349,265
31,8	-0,798	5,095	5,157	351,094
30,8	-0,921	4,947	5,032	349,451
29,8	-0,853	4,943	5,016	350,214
28,8	-0,833	4,547	4,623	349,617
27,8	-0,487	4,551	4,577	353,898
26,8	-0,542	4,288	4,322	352,800
25,8	-0,561	4,130	4,168	352,263
24,8	-0,284	3,403	3,414	355,221
23,8	-0,006	3,001	3,001	359,893
22,8	-0,118	2,693	2,696	357,490
21,8	-0,372	2,227	2,258	350,511
20,8	-0,607	2,528	2,600	346,503
19,8	-0,826	2,307	2,450	340,304
18,8	-0,782	1,775	1,940	336,227
17,8	-0,816	1,442	1,657	330,488
16,8	-0,937	1,226	1,543	322,606
15,8	-0,559	0,778	0,958	324,308
14,8	-0,077	0,506	0,512	351,356
13,8	0,065	0,268	0,275	13,746

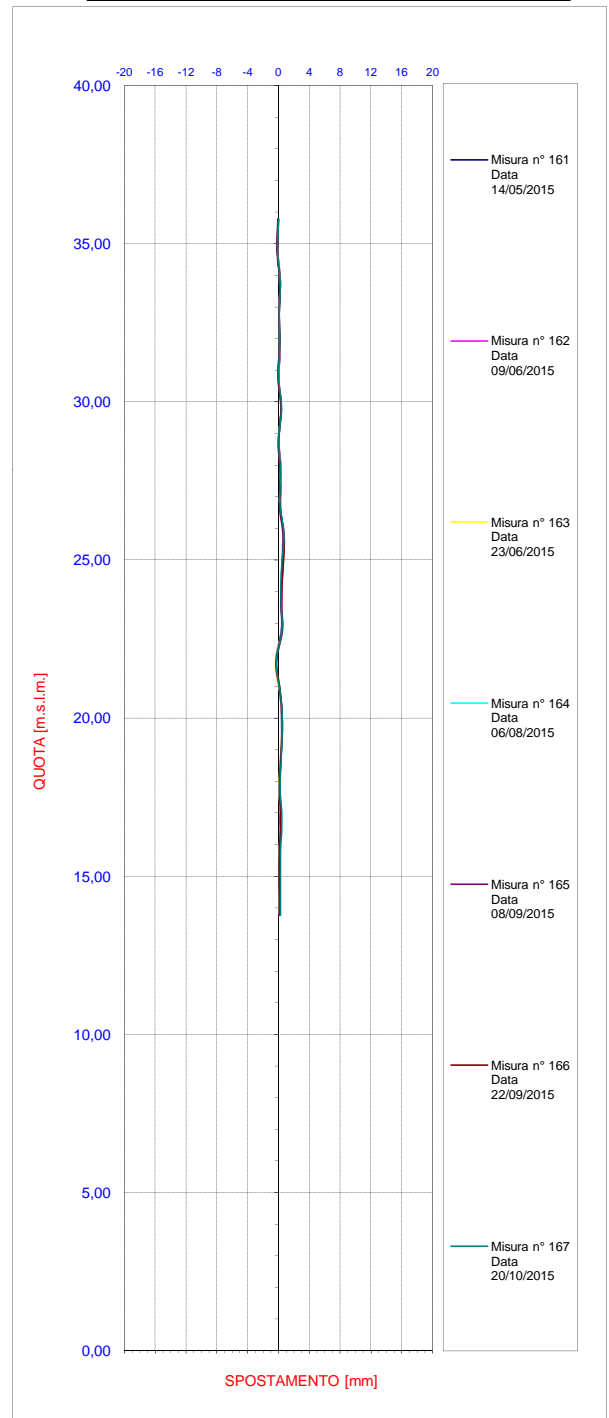
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P67**
 Azimut di riferimento **337**
 Quota guida rif. (m.s.l.m.) **36,274**
 Data lettura di zero **25/11/2009**
 Data posa in opera **18/11/2009**

Ultima Misura **167** in data **20/10/2015 10:39**

**Spostamenti Differenziali Locali
OVEST- (valori negativi) / EST + (valori positivi)**

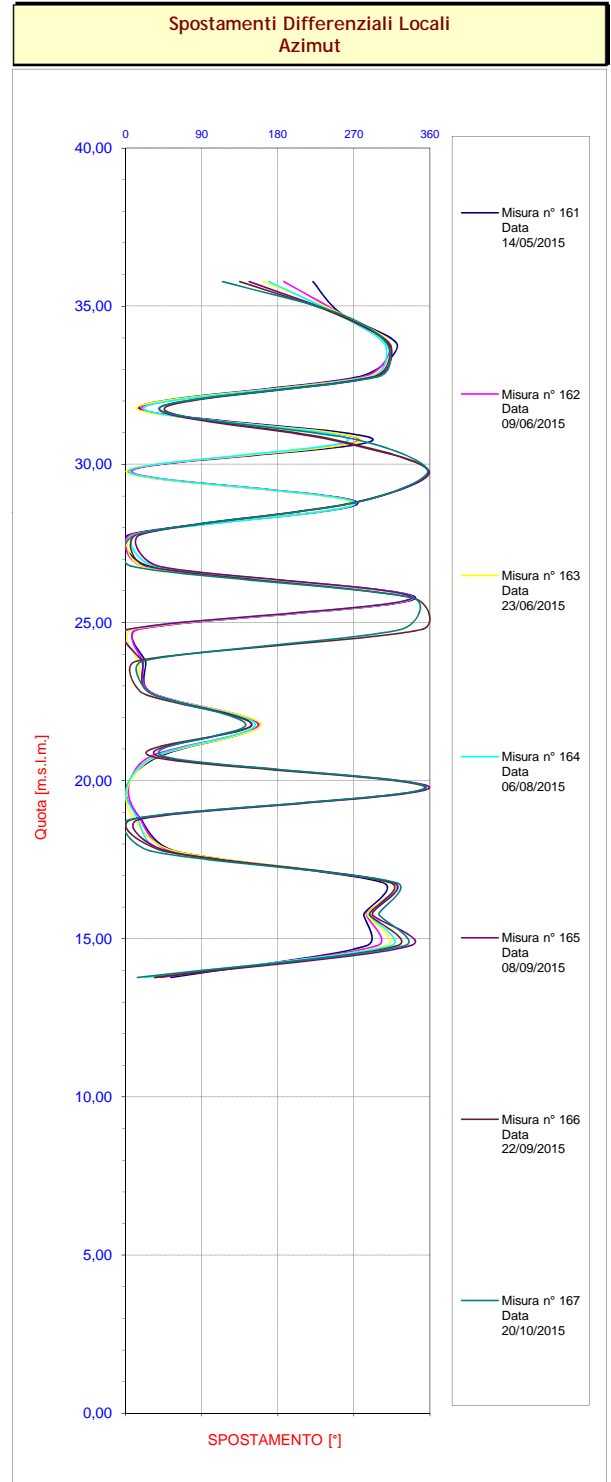
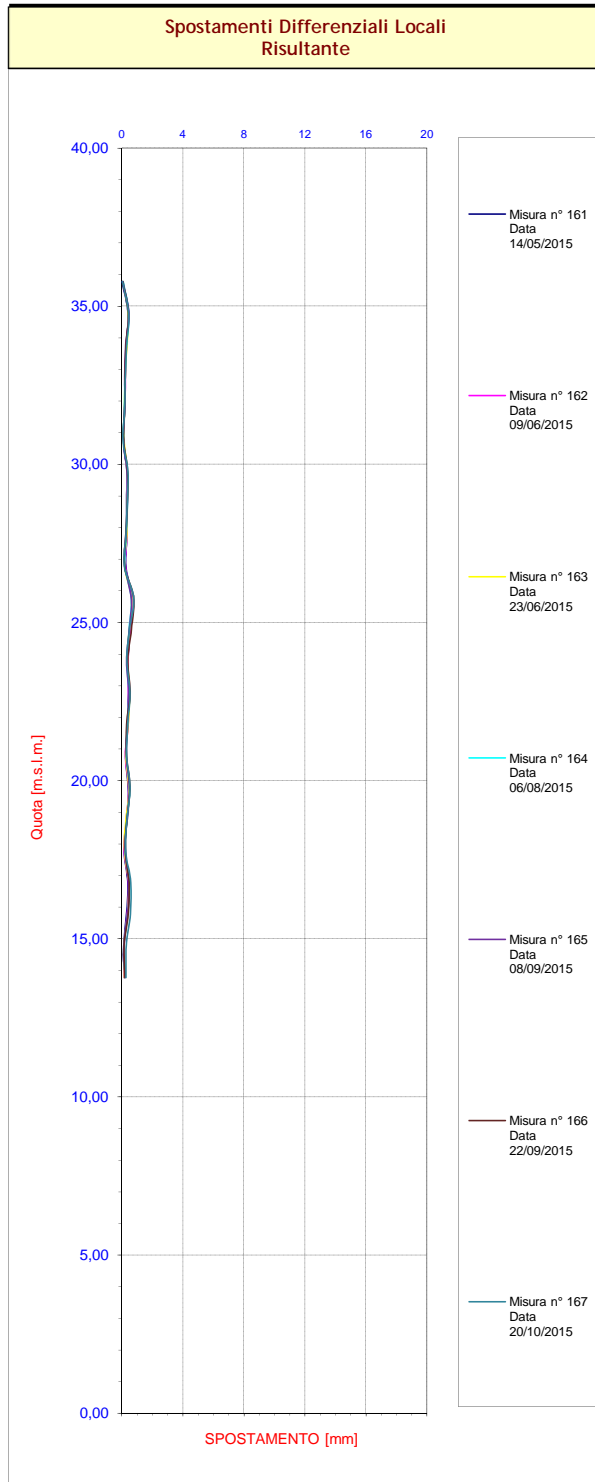


**Spostamenti Differenziali Locali
SUD - (valori negativi) / NORD + (valori positivi)**



Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P67**
 Azimut di riferimento **337**
 Quota guida rif. (m.s.l.m.) **36,274**
 Data lettura di zero **25/11/2009**
 Data posa in opera **18/11/2009**

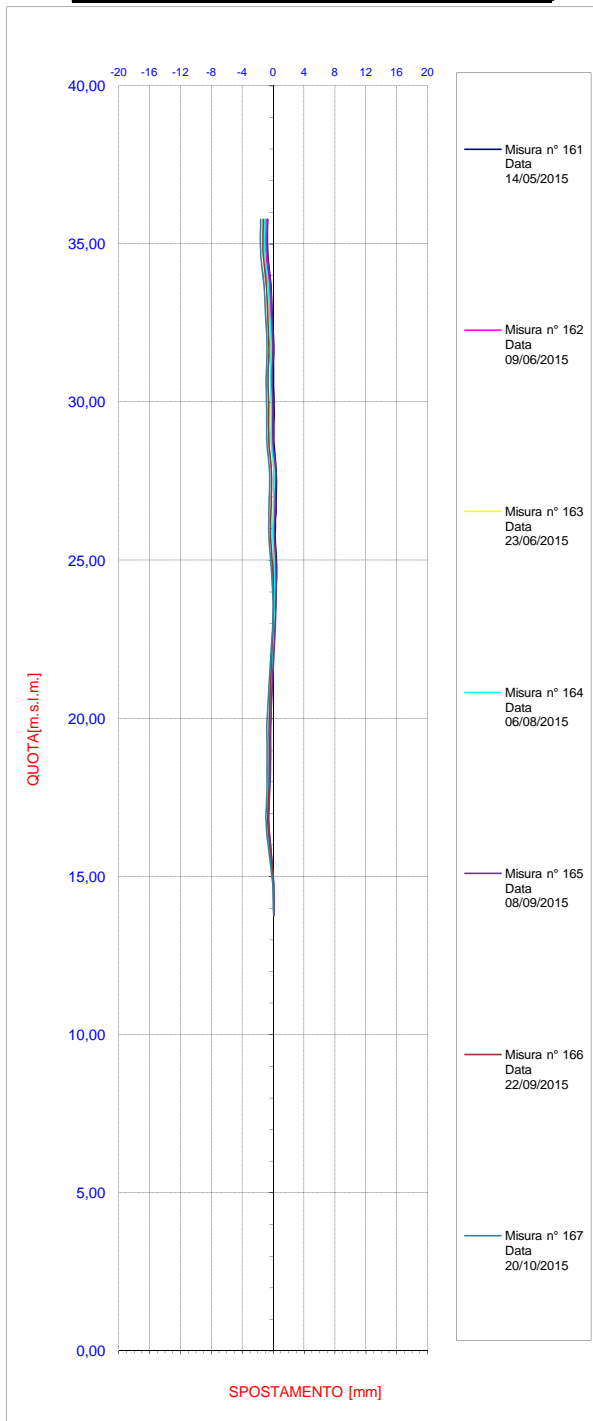
Ultima Misura **167** in data **20/10/2015 10:39**



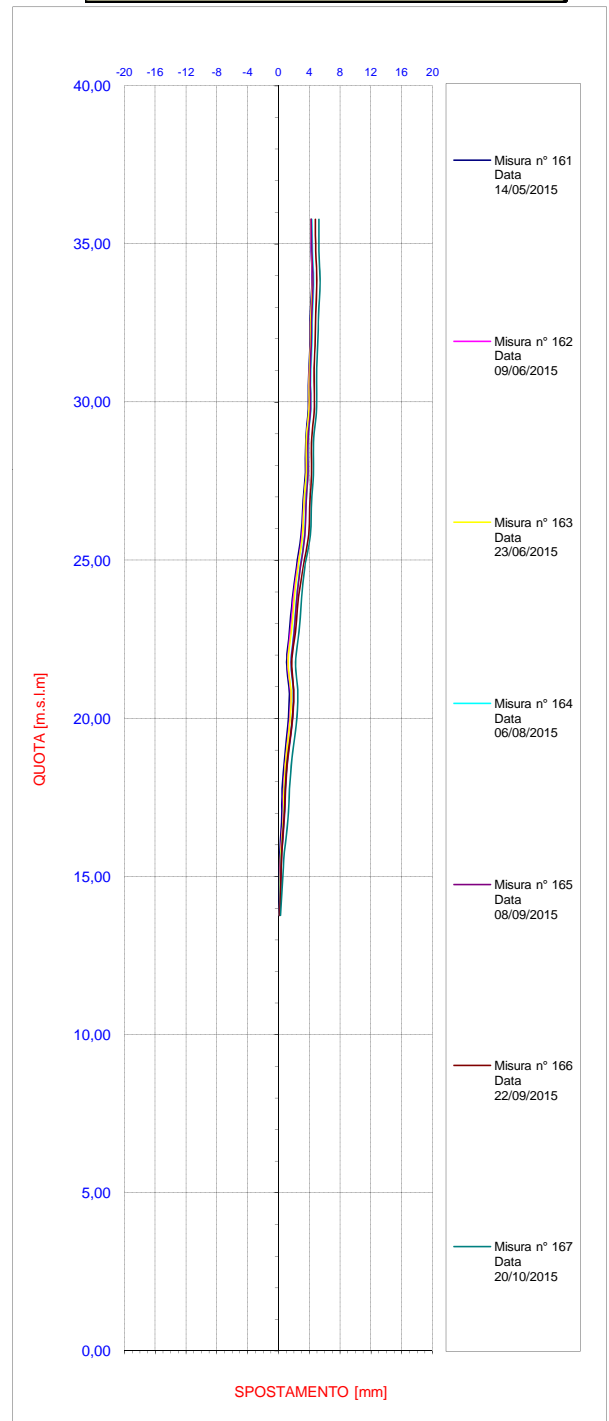
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P67**
 Azimut di riferimento **337**
 Quota guida rif. (m.s.l.m.) **36,274**
 Data lettura di zero **25/11/2009**
 Data posa in opera **18/11/2009**

Ultima Misura **167** in data **20/10/2015 10:39**

Spostamenti Differenziali Integrali
OVEST- (valori negativi) / EST + (valori positivi)



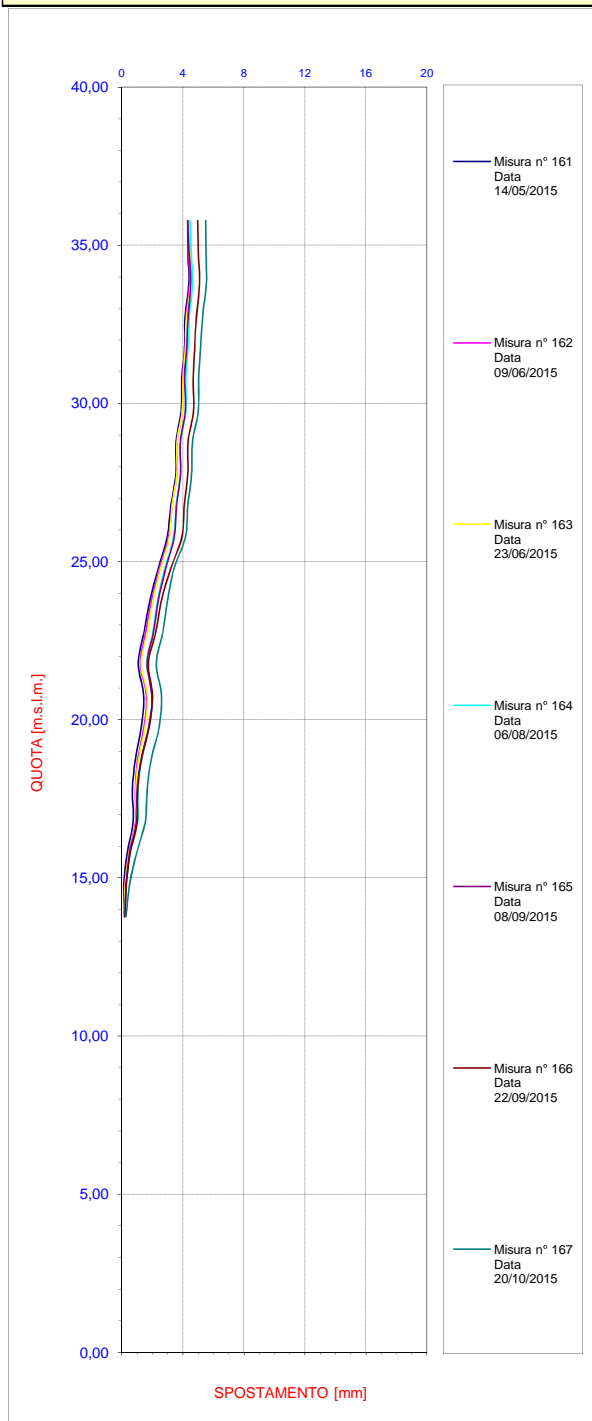
Spostamenti Differenziali Integrali
SUD - (valori negativi) / NORD + (valori positivi)



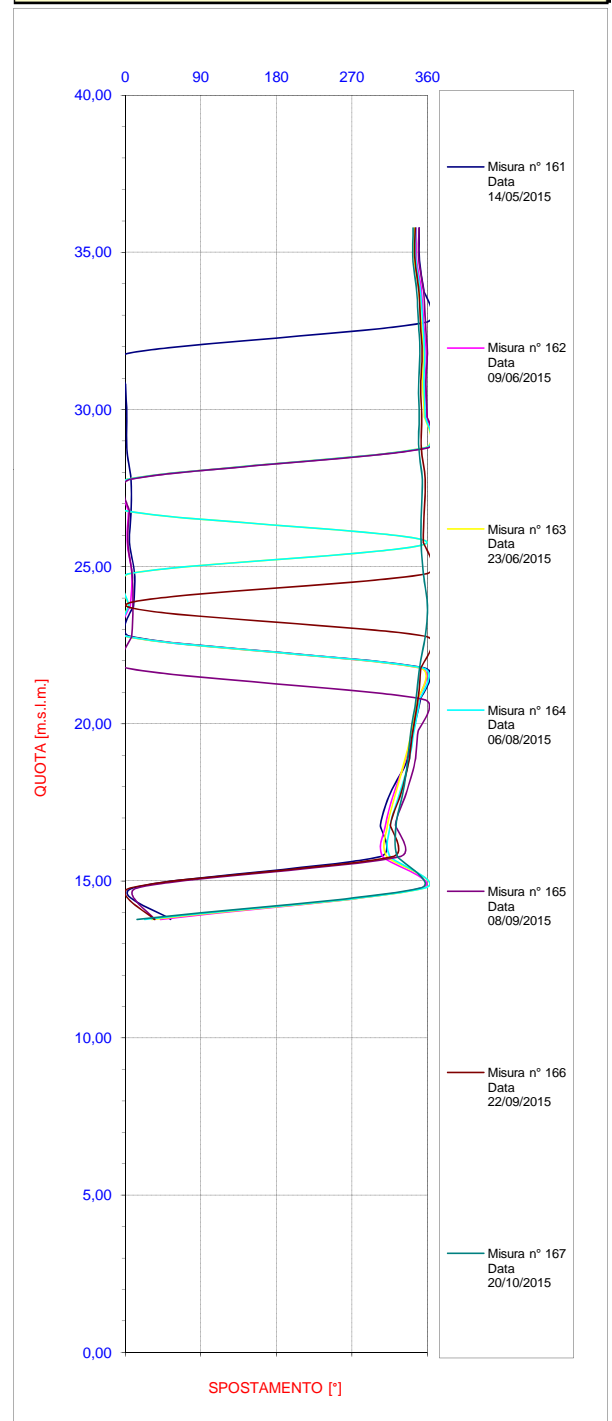
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P67**
 Azimut di riferimento **337**
 Quota guida rif. (m.s.l.m.) **36,274**
 Data lettura di zero **25/11/2009**
 Data posa in opera **18/11/2009**

Ultima Misura **167** in data **20/10/2015 10:39**

Spostamenti Differenziali Integrali Risultante



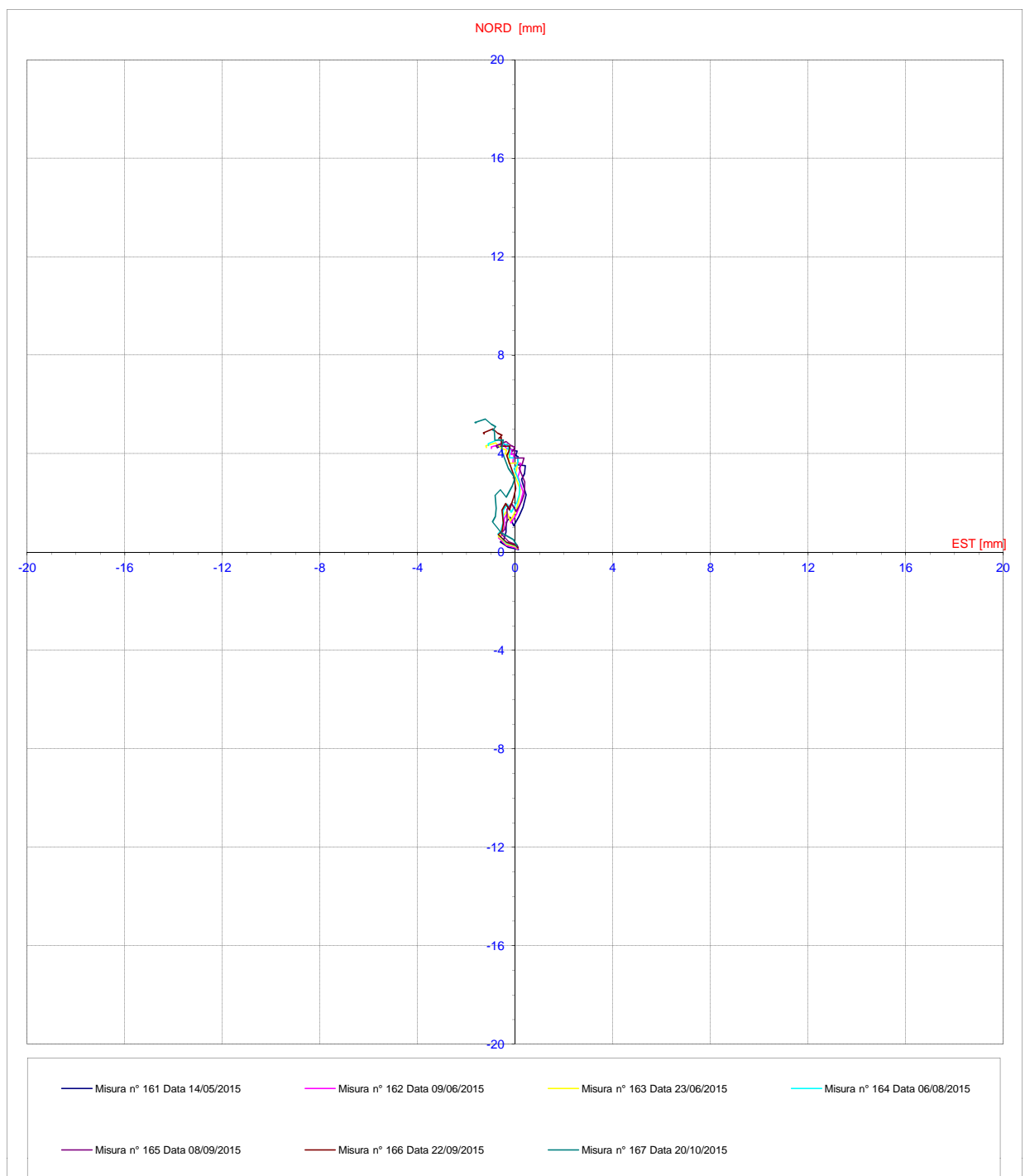
Spostamenti Differenziali Integrali Azimut

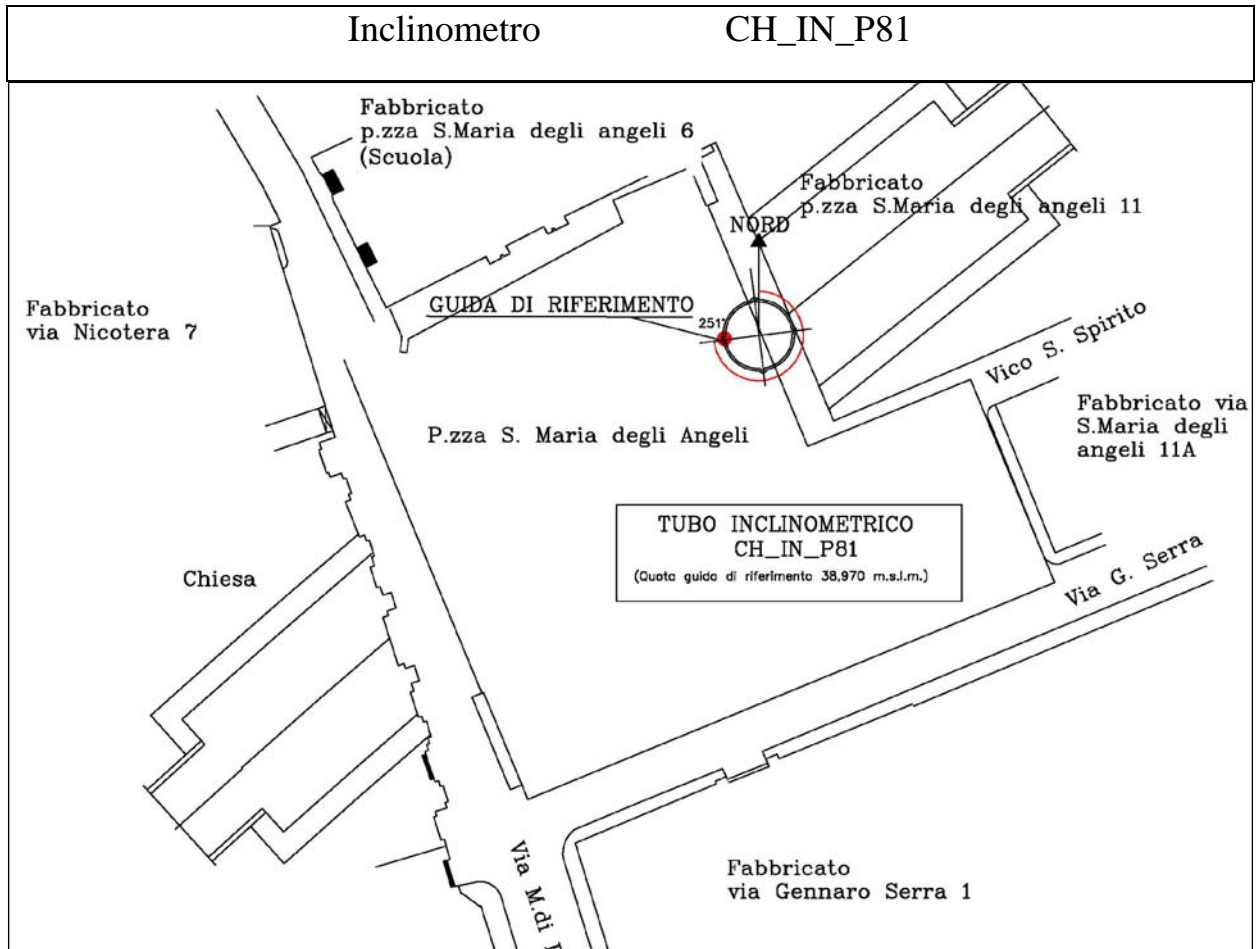


Ubicazione STAZIONE CHIAIA
 Tipo Strumento Tubo inclinometrico
 Nome tubo CH_IN_P67
 Azimut di riferimento 337
 Quota guida rif. (m.s.l.m.) 36,274
 Data lettura di zero 25/11/2009
 Data posa in opera 18/11/2009

Ultima Misura 167 in data 20/10/2015 10:39

Spostamenti Differenziali Integrali
Diagramma polare





Affidabilità strumentale A.T.I. LM6 – TreEsse	Congruenza progettuale C.T. ATI LM6 – C.T. Monitoraggio
buono <input checked="" type="checkbox"/>	congruente <input type="checkbox"/>
da rivedere <input type="checkbox"/>	non congruente, da valutare <input type="checkbox"/>
da scartare <input type="checkbox"/>	non congruente con implicazioni sulla sicurezza <input type="checkbox"/>

NOTE



MISURE INCLINOMETRICHE
ELABORAZIONE DA FONDO FORO
-TABULATI-

Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P81**
 Azimut di riferimento **251**
 Quota guida rif. (m.s.l.m.) **38,97**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

Misura **114** in data **20/10/2015 11:28**

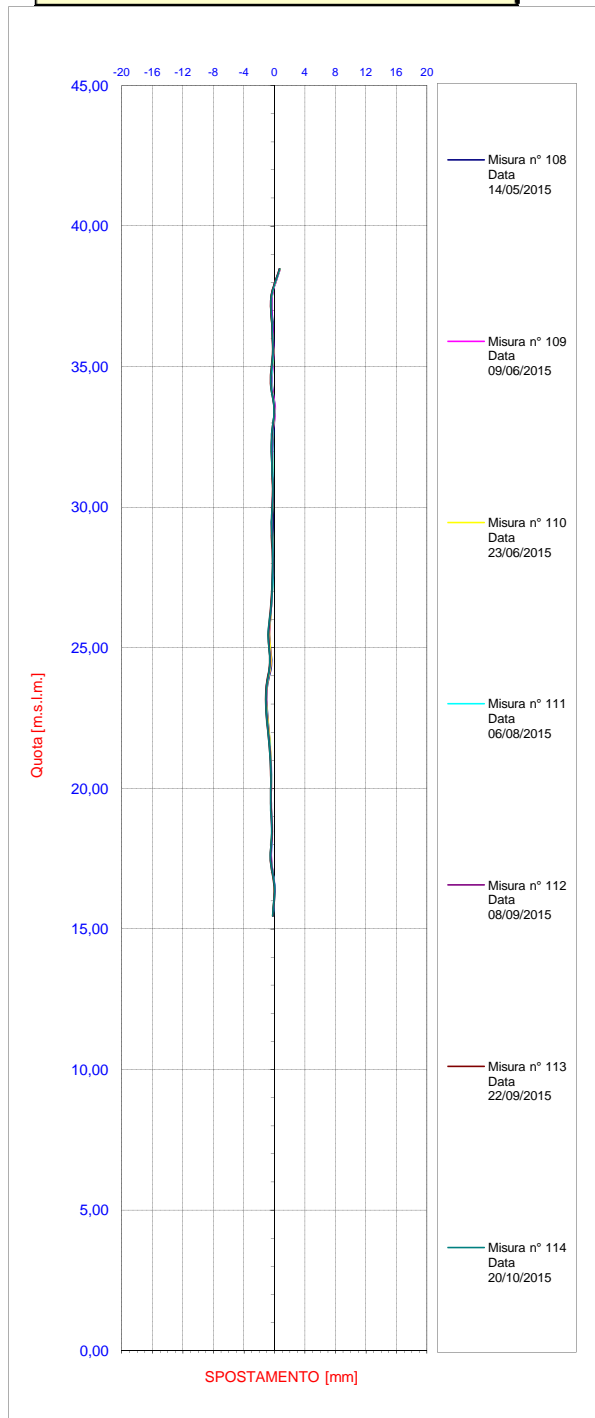
SPOSTAMENTI LOCALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
38,5	0,693	-0,538	0,877	127,813
37,5	-0,432	-0,388	0,580	228,081
36,5	-0,312	-0,075	0,321	256,435
35,5	-0,220	0,002	0,220	270,435
34,5	-0,512	0,059	0,515	276,556
33,5	-0,062	-0,018	0,064	253,315
32,5	-0,391	-0,113	0,407	253,927
31,5	-0,349	0,091	0,361	284,545
30,5	-0,207	-0,124	0,241	239,014
29,5	-0,401	0,081	0,409	281,475
28,5	-0,246	-0,057	0,253	256,986
27,5	-0,272	-0,188	0,330	235,372
26,5	-0,449	-0,138	0,470	252,874
25,5	-0,853	-0,491	0,984	240,075
24,5	-0,618	-0,219	0,656	250,494
23,5	-1,121	0,116	1,127	275,885
22,5	-1,028	-0,442	1,119	246,733
21,5	-0,661	-0,025	0,661	267,843
20,5	-0,468	-0,211	0,513	245,781
19,5	-0,516	-0,325	0,610	237,791
18,5	-0,366	-0,115	0,384	252,505
17,5	-0,527	-0,167	0,553	252,428
16,5	-0,002	-0,100	0,100	181,080
15,5	-0,255	0,188	0,317	306,376

SPOSTAMENTI INTEGRALI (mm)				
PROFONDITA (m.s.l.m.)	EST	NORD	RISULTANTE	AZIMUT
38,5	-9,575	-3,198	10,095	251,530
37,5	-10,268	-2,661	10,607	255,472
36,5	-9,836	-2,273	10,096	256,987
35,5	-9,525	-2,198	9,775	257,005
34,5	-9,305	-2,200	9,561	256,700
33,5	-8,793	-2,258	9,078	255,595
32,5	-8,731	-2,240	9,014	255,611
31,5	-8,340	-2,127	8,607	255,691
30,5	-7,991	-2,218	8,293	254,488
29,5	-7,784	-2,094	8,060	254,946
28,5	-7,383	-2,175	7,697	253,586
27,5	-7,137	-2,118	7,445	253,471
26,5	-6,865	-1,930	7,131	254,295
25,5	-6,416	-1,792	6,661	254,395
24,5	-5,563	-1,301	5,713	256,837
23,5	-4,945	-1,082	5,062	257,658
22,5	-3,824	-1,198	4,007	252,611
21,5	-2,795	-0,755	2,896	254,880
20,5	-2,135	-0,730	2,256	251,110
19,5	-1,666	-0,520	1,746	252,675
18,5	-1,150	-0,195	1,167	260,394
17,5	-0,784	-0,079	0,788	264,225
16,5	-0,257	0,088	0,272	288,812
15,5	-0,255	0,188	0,317	306,376

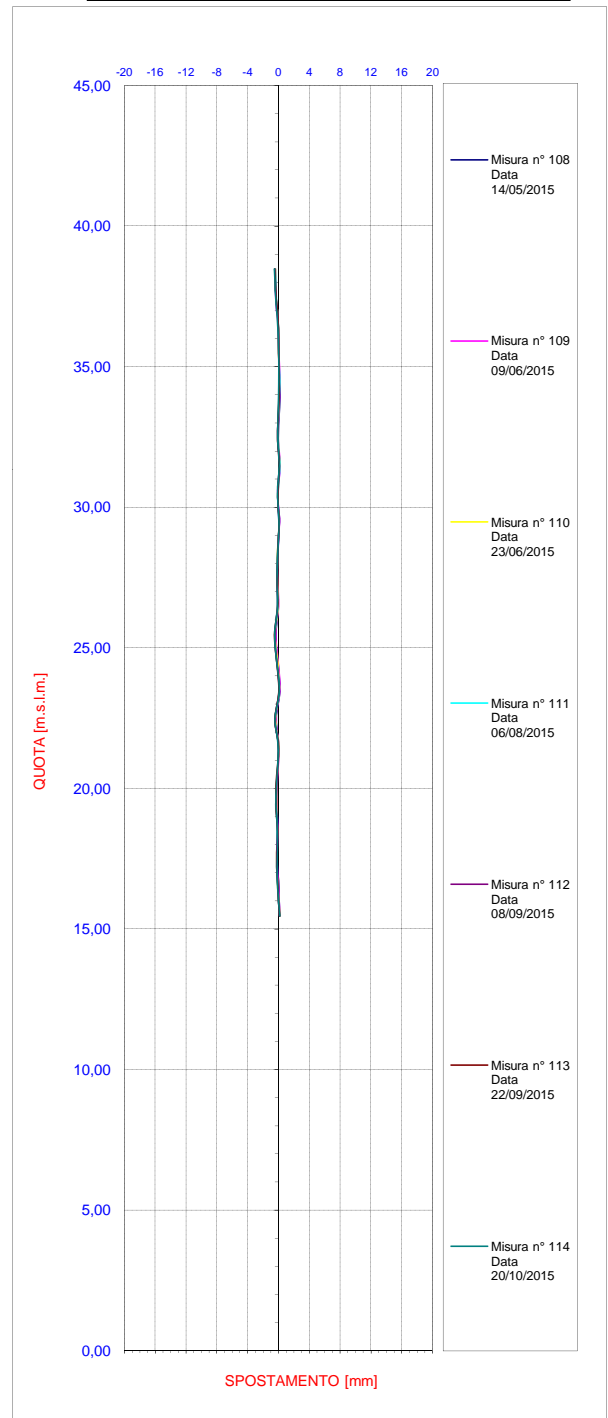
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P81**
 Azimut di riferimento **251**
 Quota guida rif. (m.s.l.m.) **38,97**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

Ultima Misura **114** in data **20/10/2015 11:28**

**Spostamenti Differenziali Locali
OVEST - (valori negativi) / EST + (valori positivi)**

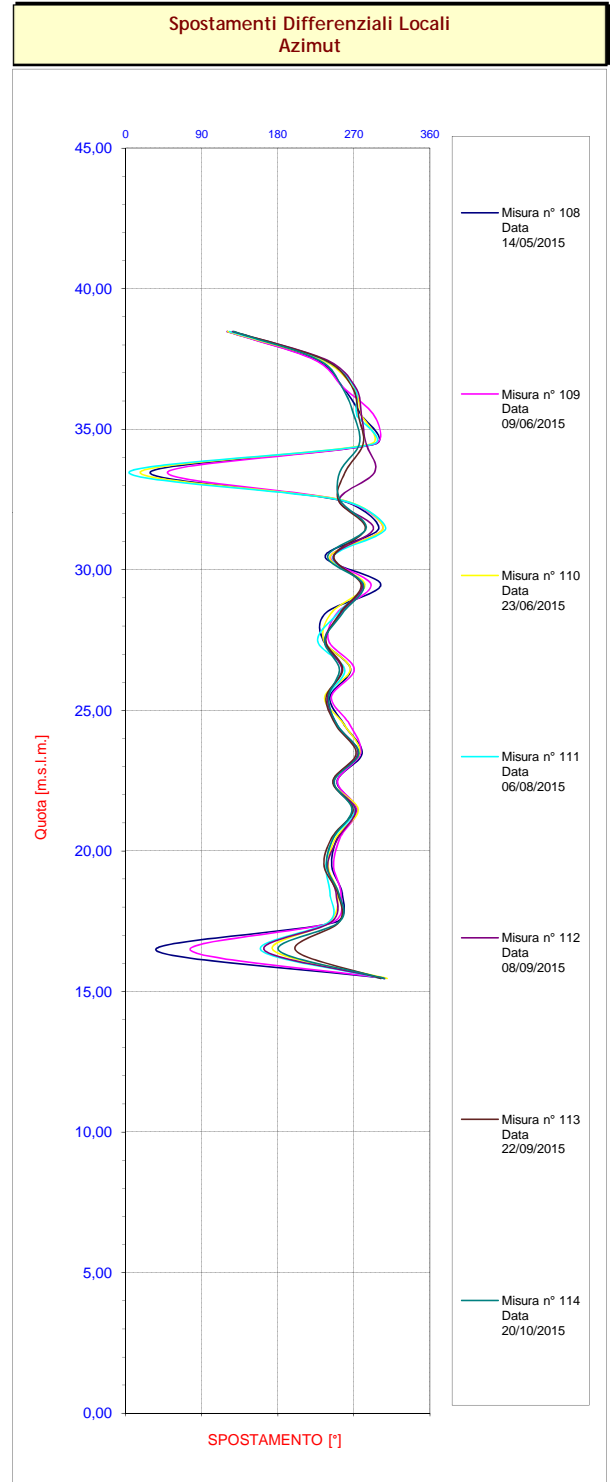
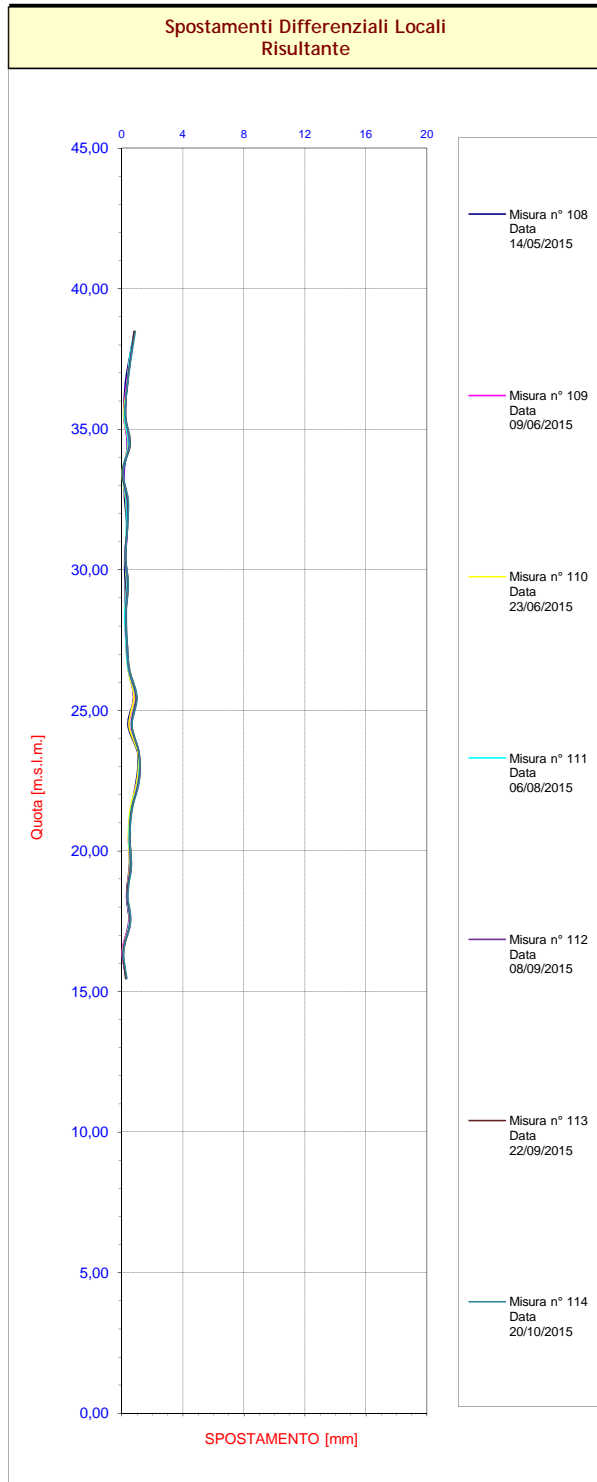


**Spostamenti Differenziali Locali
SUD - (valori negativi) / NORD + (valori positivi)**



Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P81**
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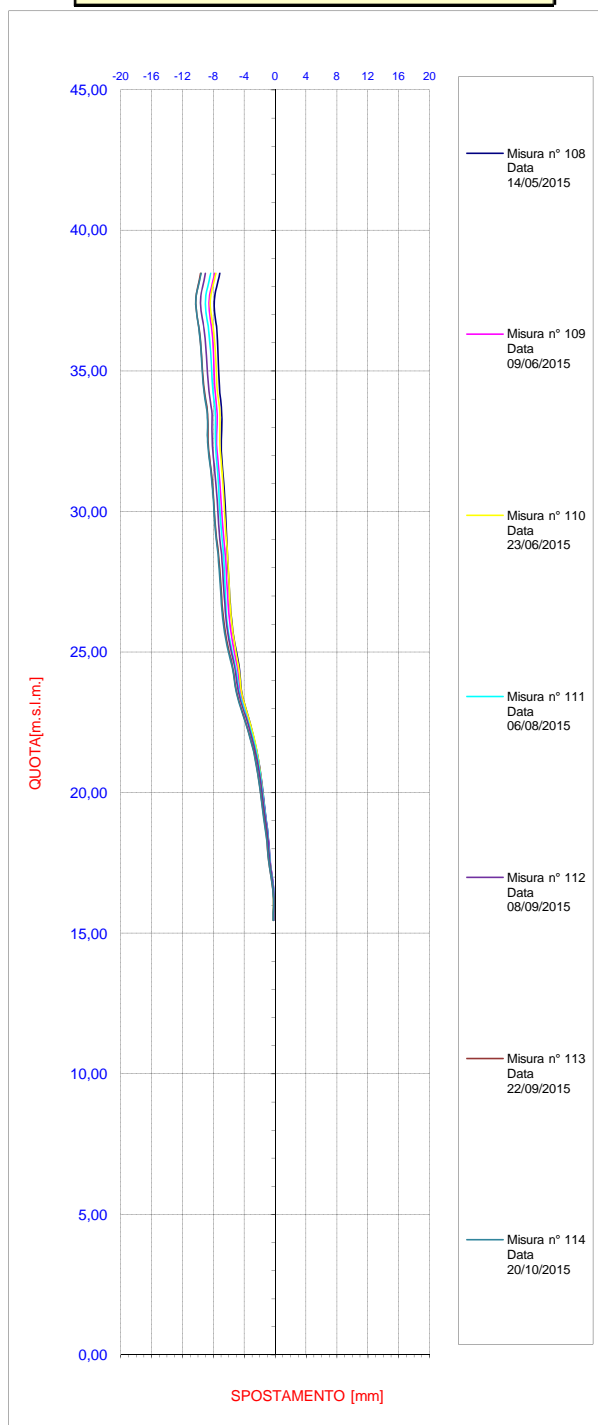
Ultima Misura **114** in data **20/10/2015 11:28**



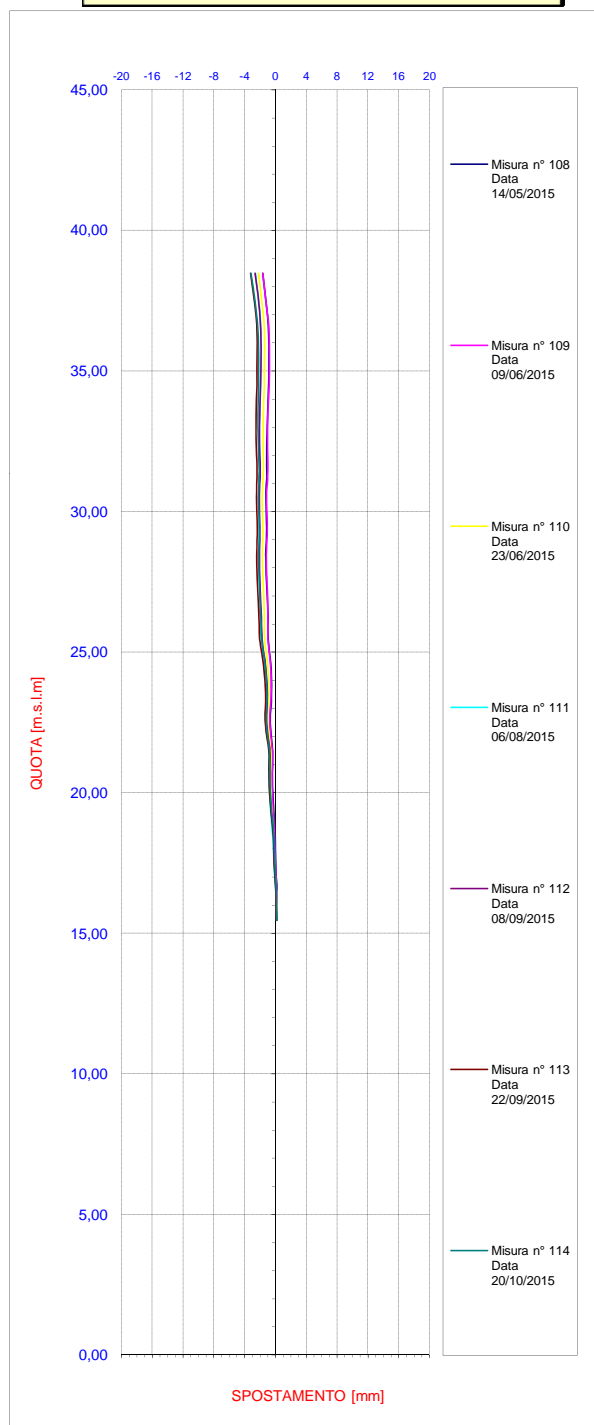
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
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 Quota guida rif. (m.s.l.m.) **38,97**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

Ultima Misura **114** in data **20/10/2015 11:28**

Spostamenti Differenziali Integrali
OVEST- (valori negativi) / EST + (valori positivi)



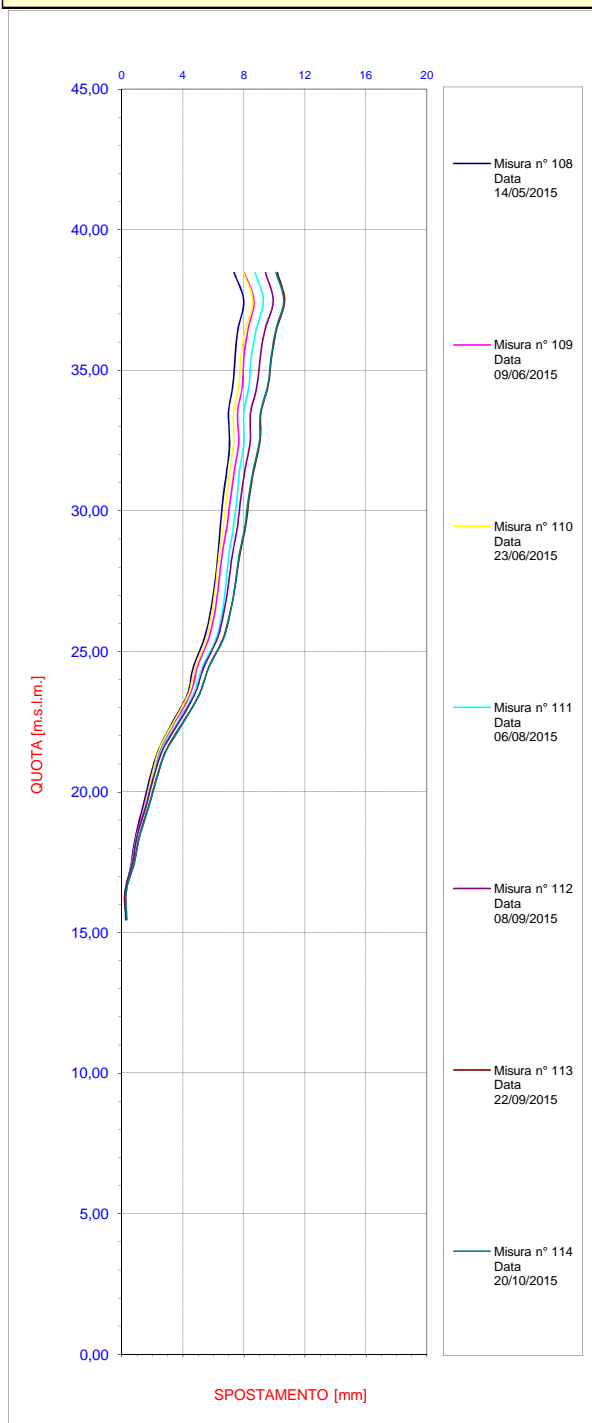
Spostamenti Differenziali Integrali
SUD - (valori negativi) / NORD + (valori positivi)



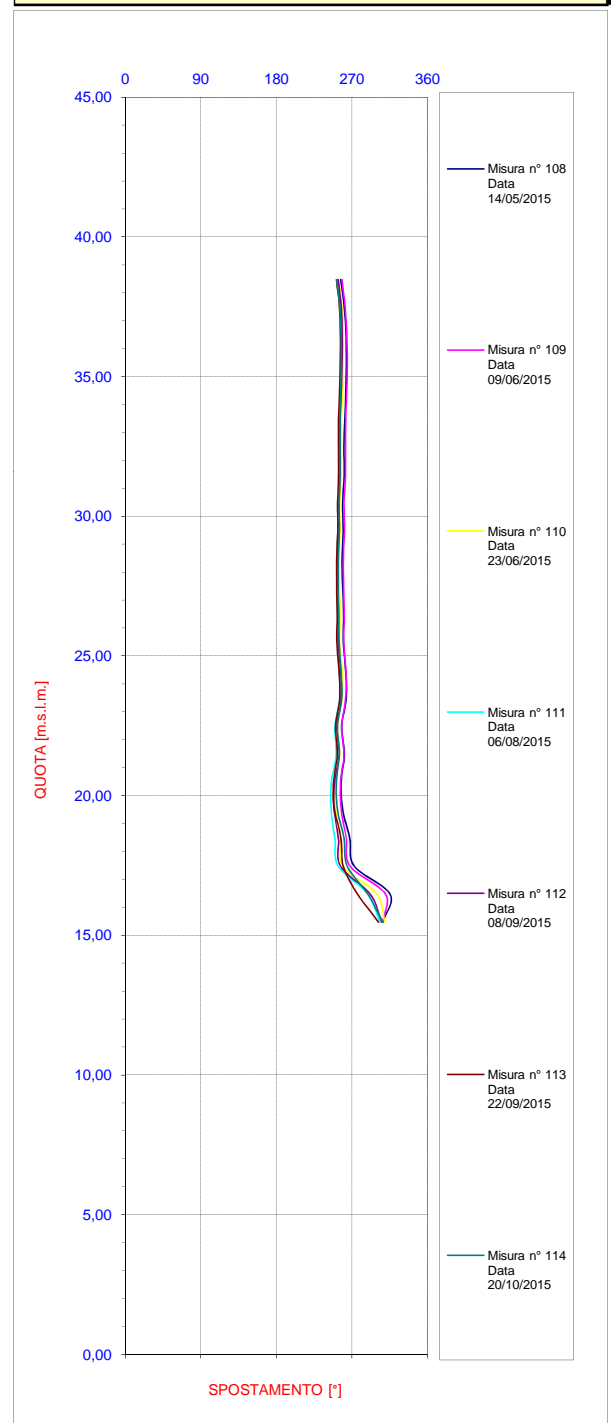
Ubicazione **STAZIONE CHIAIA**
 Tipo Strumento **Tubo inclinometrico**
 Nome tubo **CH_IN_P81**
 Azimut di riferimento **251**
 Quota guida rif. (m.s.l.m.) **38,97**
 Data lettura di zero **21/01/2011**
 Data posa in opera **21/12/2010**

Ultima Misura **114** in data **20/10/2015 11:28**

Spostamenti Differenziali Integrali Risultante



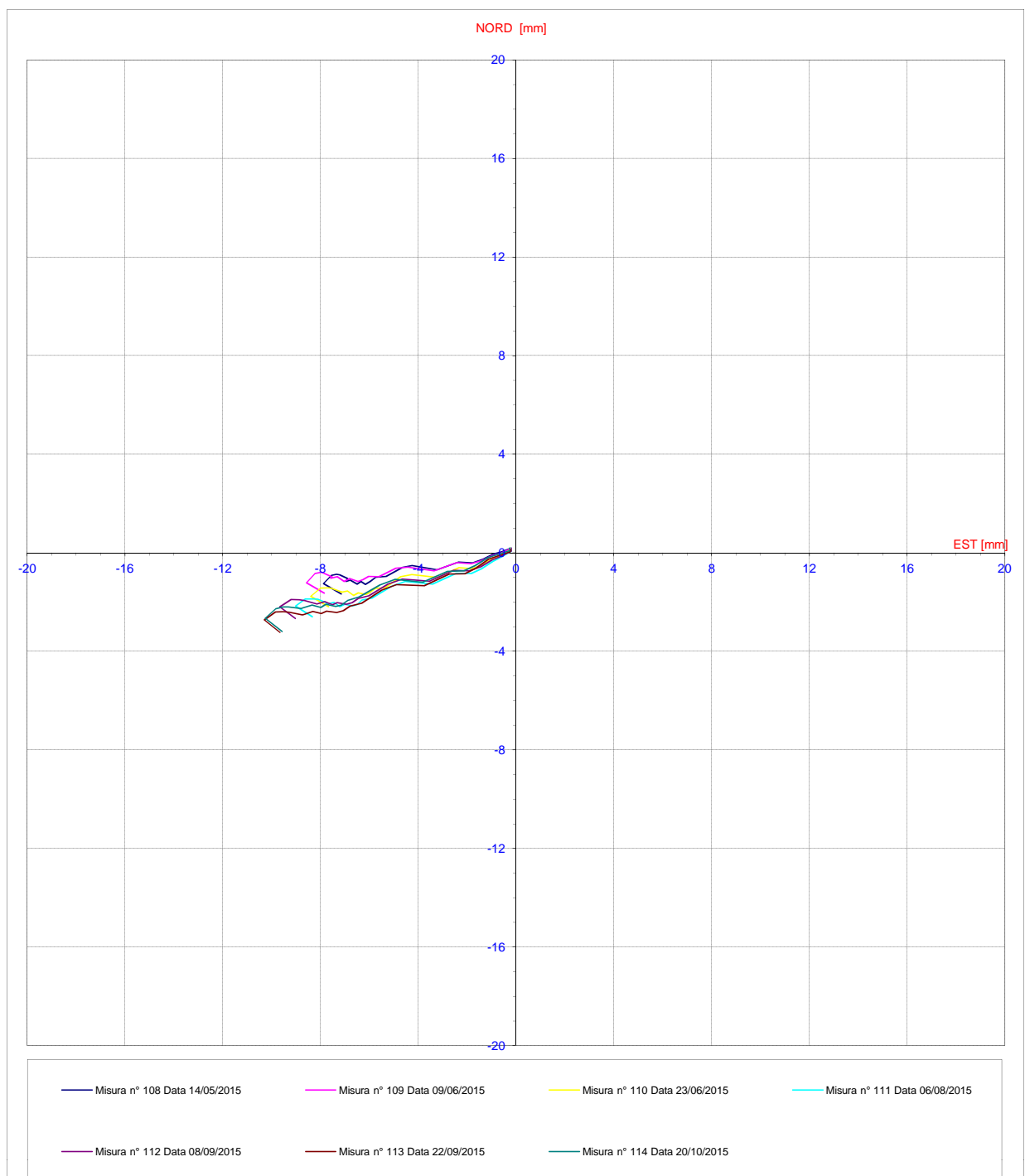
Spostamenti Differenziali Integrali Azimut




Ubicazione STAZIONE CHIAIA
 Tipo Strumento Tubo inclinometrico
 Nome tubo CH_IN_P81
 Azimut di riferimento 251
 Quota guida rif. (m.s.l.m.) 38,97
 Data lettura di zero 21/01/2011
 Data posa in opera 21/12/2010

Ultima Misura 114 in data 20/10/2015 11:28

Spostamenti Differenziali Integrali
Diagramma polare



 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO</i></p> <p><i>REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 46 Data: 30/10/15 Metropolit. di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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8. MISURE GEOTECNICHE – BARRETTE ESTENSIMETRICHE A CORDA VIBRANTE

Gli estensimetri a corda vibrante sono costituiti da un filo d'acciaio, teso tra due supporti ancorati alla struttura da monitorare e messo in vibrazione da un elettromagnete.

Le deformazioni della struttura causano un movimento dei due supporti, facendo variare il tensionamento del filo. Questa variazione di tesatura provoca un mutamento della frequenza di vibrazione della corda, che risulta proporzionale alle deformazioni agenti.

Tutte le barrette estensimetriche installate sono del tipo a corda vibrante per metallo, rese solidali alla struttura mediante saldatura.


 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO REPORT DELLE MISURE - STAZIONE CHIAIA</p>	<p>LM6 7FX 2C I 46 Data: 30/10/15 Metropolit. di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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Tabelle Riepilogative Per Le Barrette Estensimetriche Installate In Cantiere

Tabella Pannello N°13

NOME	TIPOLOGIA STRUMENTAZIONE	DATA INSTALL.	DISPONIBILITA' LETTURA			NOTE
			DATA LETT. DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
CH_P13_S1	BARRETTE ESTENSIMETRICHE A C.V.	07/01/09	03/09/09			
CH_P13_S2	BARRETTE ESTENSIMETRICHE A C.V.	07/01/09				Non funzionante
CH_P13_S3	BARRETTE ESTENSIMETRICHE A C.V.	07/01/09	03/09/09			
CH_P13_S4	BARRETTE ESTENSIMETRICHE A C.V.	07/01/09	03/09/09			
CH_P13_S5	BARRETTE ESTENSIMETRICHE A C.V.	07/01/09	03/09/09			
CH_P13_S6	BARRETTE ESTENSIMETRICHE A C.V.	07/01/09	03/09/09			

Tabella Pannello N°50

NOME	TIPOLOGIA STRUMENTAZIONE	DATA INSTALL.	DISPONIBILITA' LETTURA			NOTE
			DATA LETT. DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
CH_P50_S1	BARRETTE ESTENSIMETRICHE A C.V.	20/01/09	03/09/09			
CH_P50_S2	BARRETTE ESTENSIMETRICHE A C.V.	20/01/09	03/09/09			
CH_P50_S3	BARRETTE ESTENSIMETRICHE A C.V.	20/01/09	03/09/09			
CH_P50_S4	BARRETTE ESTENSIMETRICHE A C.V.	20/01/09	03/09/09			
CH_P50_S5	BARRETTE ESTENSIMETRICHE A C.V.	20/01/09	03/09/09			
CH_P50_S6	BARRETTE ESTENSIMETRICHE A C.V.	20/01/09	03/09/09			


 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO</i></p> <p><i>REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 46 Data: 30/10/15 Metropolit. di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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Tabella Pannello N°67

NOME	TIPOLOGIA STRUMENTAZIONE	DATA INSTALL.	DISPONIBILITA' LETTURA			NOTE
			DATA LETT. DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
CH_P67_S1	BARRETTE ESTENSIMETRICHE A C.V.	04/03/09	03/09/09		28/09/11	Lo strumento restituisce valore discontinuo
CH_P67_S2	BARRETTE ESTENSIMETRICHE A C.V.	04/03/09	03/09/09			
CH_P67_S3	BARRETTE ESTENSIMETRICHE A C.V.	04/03/09	03/09/09			
CH_P67_S4	BARRETTE ESTENSIMETRICHE A C.V.	04/03/09	03/09/09			
CH_P67_S5	BARRETTE ESTENSIMETRICHE A C.V.	04/03/09	03/09/09			
CH_P67_S6	BARRETTE ESTENSIMETRICHE A C.V.	04/03/09	03/09/09			

Tabella Pannello N°81

NOME	TIPOLOGIA STRUMENTAZIONE	DATA INSTALL.	DISPONIBILITA' LETTURA			NOTE
			DATA LETT. DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
CH_P81_S1	BARRETTE ESTENSIMETRICHE A C.V.	31/03/09	03/09/09		20/04/11	(*)
CH_P81_S2	BARRETTE ESTENSIMETRICHE A C.V.	31/03/09	03/09/09		20/04/11	(*)
CH_P81_S3	BARRETTE ESTENSIMETRICHE A C.V.	31/03/09	03/09/09		20/04/11	(*)
CH_P81_S4	BARRETTE ESTENSIMETRICHE A C.V.	31/03/09	03/09/09		25/03/10	(*)
CH_P81_S5	BARRETTE ESTENSIMETRICHE A C.V.	31/03/09	03/09/09		20/04/11	(*)
CH_P81_S6	BARRETTE ESTENSIMETRICHE A C.V.	31/03/09	03/09/09		20/04/11	(*)
CH_P81_S7	BARRETTE ESTENSIMETRICHE A C.V.	31/03/09				(*)
CH_P81_S8	BARRETTE ESTENSIMETRICHE A C.V.	31/03/09	03/09/09		20/04/11	(*)

(*) Le barrette estensimetriche non restituiscono un segnale coerente pertanto non verranno più inserite nel programma di monitoraggio.


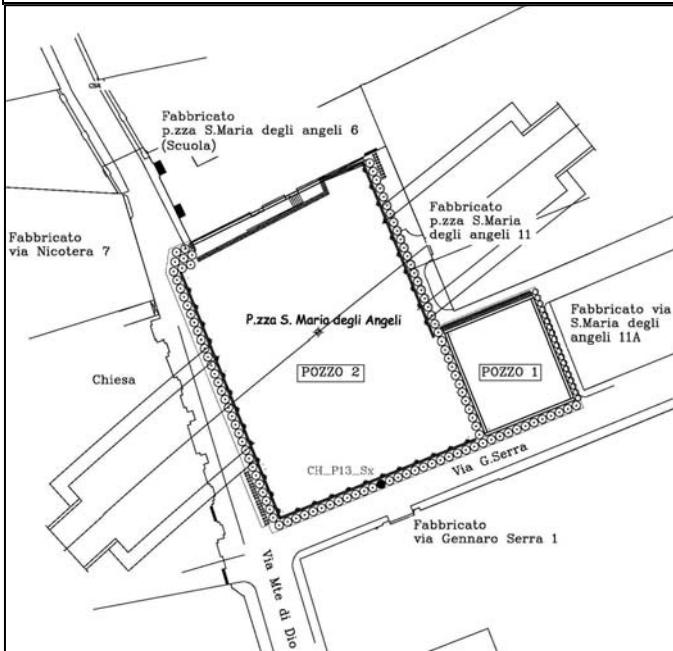
 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO REPORT DELLE MISURE - STAZIONE CHIAIA</p>	<p>LM6 7FX 2C I 46 Data: 30/10/15 Metropolit. di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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Tabella Puntoni PU1 e PU2

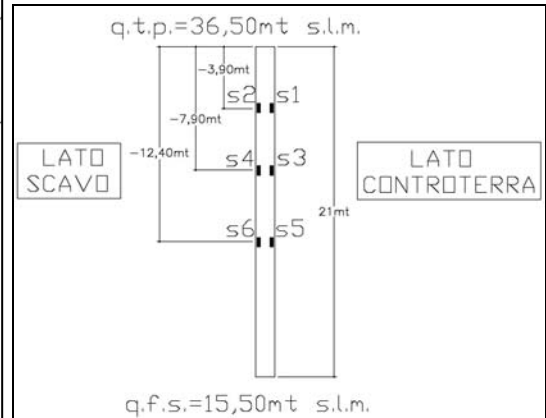
NOME	TIPOLOGIA STRUMENTAZIONE	DATA INSTALL.	DISPONIBILITA' LETTURA			NOTE
			DATA LETT. DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
CH_PU1_S1	BARRETTE ESTENSIMETRICHE A C.V.	12/09/11	14/09/11			
CH_PU1_S2	BARRETTE ESTENSIMETRICHE A C.V.	12/09/11	14/09/11			
CH_PU1_S3	BARRETTE ESTENSIMETRICHE A C.V.	12/09/11	14/09/11		05/11/14	Danneggiata. nessun valore
CH_PU1_S4	BARRETTE ESTENSIMETRICHE A C.V.	12/09/11	14/09/11			
CH_PU2_S5	BARRETTE ESTENSIMETRICHE A C.V.	12/09/11	14/09/11			
CH_PU2_S6	BARRETTE ESTENSIMETRICHE A C.V.	12/09/11	14/09/11		15/10/12	Danneggiata. nessun valore
CH_PU2_S6_1	BARRETTE ESTENSIMETRICHE A C.V.	19/11/12	19/11/12			Sostituisce la CH_PU2_S6
CH_PU2_S7	BARRETTE ESTENSIMETRICHE A C.V.	12/09/11	14/09/11			
CH_PU2_S8	BARRETTE ESTENSIMETRICHE A C.V.	12/09/11	14/09/11			

Pannello strumentato

CH_P13



SCHEMA INSTALLAZIONE
STRUMENT. GEOTECNICA
(BECV PER METALLO)
PALO N°13



Le barrette con numero progressivi dispari (s1,s3,s5) sono installate lato contro terra, mentre quelle con numero pari (s2,s4,s6) sono poste lato scavo; la direzione di installazione è parallela all'asse di scavo.

Affidabilità strumentale

A.T.I. LM6 – TreEsse

buono
da rivedere
da scartare

X

Congruenza progettuale

C.T. ATI LM6 – C.T.
Monitoraggio

congruente
non congruente, da valutare
non congruente con implicazioni
sulla sicurezza

NOTE

Le elaborazioni di seguito riportate includono lo storico delle misure.

La barretta estensimetrica a c.v. CH_P13_S2 non è funzionante.



TABULATI

Ubicazione STAZIONE CHIAIA

Opera \ \ P13

Strumento Barretta Est. per Metallo

Data posa in opera 03/09/2009

Data lettura di zero 03/09/2009

Ultima Misura 223 in data 27/10/2015

Letture n°	DATA	CH_P13_S1		CH_P13_S3		CH_P13_S4		CH_P13_S5		CH_P13_S6	
		Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]
171	11/3/14 12:00	-44,4	13,4	-189,8	12,2	18,9	14,1	-76,9	12,1	57,9	13,9
172	18/3/14 11:00	-42,8	13,2	-196,3	12,0	21,8	14,0	-70,4	12,3	63,2	14,0
173	25/3/14 12:00	-49,3	13,0	-198,8	11,8	36,4	14,2	-73,3	12,4	51,4	13,7
174	3/4/14 11:00	-55,0	13,2	-203,3	12,1	29,5	14,3	-80,6	12,8	41,7	13,9
175	9/4/14 11:30	-66,3	13,6	-210,2	12,2	22,6	14,4	-85,1	13,1	36,0	14,1
176	18/4/14 10:30	-64,7	13,4	-220,7	12,0	37,2	14,6	-75,7	13,2	45,4	14,2
177	29/4/14 11:30	-70,4	13,6	-229,2	12,3	30,3	14,7	-81,4	13,4	51,0	14,0
178	8/5/14 11:00	-60,6	13,4	-232,1	12,4	25,0	14,6	-62,7	13,6	36,0	14,1
179	15/5/14 10:00	-59,0	13,2	-230,5	12,2	14,5	14,4	-56,2	13,8	29,1	14,2
180	20/5/14 11:00	-50,9	15,2	-176,4	14,3	2,7	16,1	-104,1	15,2	29,1	16,2
181	27/5/14 10:00	-85,8	15,0	-157,3	14,2	-13,5	16,1	-110,6	15,0	10,5	16,0
182	3/6/14 11:00	-107,7	15,2	-176,4	14,3	-19,2	16,3	-112,2	15,2	-5,8	16,0
183	10/6/14 11:00	-126,4	15,0	-139,0	14,7	-34,2	16,4	-134,2	15,4	-22,4	16,3
184	17/6/14 12:00	-128,5	15,5	-147,2	14,7	-49,3	16,5	-103,3	15,6	-18,4	16,3
185	24/6/14 11:00	-149,6	15,1	-168,3	14,3	-62,3	16,1	-120,4	15,2	-38,3	16,0
186	1/7/14 11:00	-164,6	15,2	-174,0	14,5	-57,0	16,2	-130,9	15,0	-44,0	16,2
187	8/7/14 10:00	-174,0	15,1	-168,3	14,3	-48,9	16,2	-136,2	14,9	-35,9	16,2
188	15/7/14 11:00	-180,9	15,2	-156,5	14,6	-42,4	16,4	-140,7	15,2	-25,3	16,4
189	24/7/14 11:00	-175,6	15,3	-161,8	14,5	-47,6	16,3	-137,8	15,1	-22,4	16,3
190	29/7/14 11:00	-182,5	15,4	-160,2	14,3	-57,4	16,5	-144,7	15,2	-24,1	16,5
191	19/8/14 11:00	-189,0	15,2	-167,1	14,4	-62,7	16,4	-150,0	15,1	-18,8	16,6
192	26/8/14 11:00	-183,7	15,3	-161,8	14,5	-69,6	16,5	-143,1	15,0	-17,2	16,4
193	2/9/14 14:00	-179,2	15,0	-158,9	14,4	-58,6	16,4	-141,5	14,8	-11,5	16,2
194	9/9/14 11:00	-180,9	15,2	-169,5	14,2	-69,2	16,2	-150,8	14,7	-14,3	16,3
195	16/9/14 11:00	-187,4	15,0	-180,1	14,0	-75,7	16,0	-158,6	14,4	-28,9	16,1
196	1/10/14 11:00	-180,1	14,6	-168,7	13,6	-68,4	15,6	-147,2	14,0	-26,9	15,6
197	14/10/14 11:00	-190,6	14,4	-179,3	13,4	-61,5	15,5	-154,1	14,1	-17,6	15,7
198	5/11/14 11:00	-187,8	14,3	-174,0	13,5	-66,7	15,4	-159,4	14,0	-13,1	15,4
199	19/11/14 11:00	-197,1	14,2	-168,7	13,6	-73,3	15,2	-154,1	14,1	-19,6	15,2
200	2/12/14 11:00	-203,6	14,0	-175,6	13,7	-70,4	15,1	-161,0	14,2	-24,9	15,1
201	19/12/14 11:00	-209,3	14,2	-185,0	13,6	-73,3	15,2	-150,4	14,4	-18,0	15,0
202	22/1/15 11:00	-207,7	14,0	-182,1	13,5	-71,6	15,0	-161,0	14,2	-24,9	15,1
203	12/2/15 11:00	-214,6	14,1	-181,7	13,2	-66,3	15,1	-155,7	14,3	-18,0	15,0
204	26/2/15 11:00	-228,0	14,0	-191,1	13,1	-71,6	15,0	-161,0	14,2	-29,8	14,7
205	11/3/15 11:00	-222,7	14,1	-188,2	13,0	-74,5	15,1	-154,1	14,1	-36,3	14,5
206	23/3/15 11:00	-233,7	14,2	-196,7	13,3	-70,0	14,8	-163,4	14,0	-52,1	14,2
207	30/3/15 11:00	-232,1	14,0	-191,5	13,4	-72,8	14,9	-152,9	14,2	-45,2	14,1
208	8/4/15 11:00	-223,5	13,7	-206,1	13,2	-80,6	14,6	-163,4	14,0	-42,4	14,0
209	21/4/15 11:00	-216,6	13,6	-198,0	13,2	-77,7	14,5	-150,0	14,1	-37,1	14,1
210	29/4/15 11:00	-235,3	13,4	-211,4	13,1	-85,5	14,2	-159,4	14,0	-53,3	14,1
211	5/5/15 11:00	-233,7	13,2	-224,8	13,0	-96,0	14,0	-162,2	14,1	-46,4	14,0
212	14/5/15 11:00	-240,6	13,3	-218,3	13,2	-102,9	14,1	-152,9	14,2	-35,9	14,2
213	21/5/15 11:00	-243,4	13,4	-216,6	13,0	-112,3	14,0	-147,6	14,3	-33,0	14,1
214	9/6/15 11:30	-209,3	14,2	-190,2	13,5	-71,6	15,0	-137,0	14,5	-17,6	14,7
215	23/6/15 11:50	-216,2	14,3	-195,5	13,4	-78,1	14,8	-148,0	14,6	-27,3	14,9
216	7/7/15 11:50	-208,5	14,6	-185,0	13,6	-60,3	14,6	-141,1	14,5	-21,7	14,7
217	6/8/15 11:50	-213,8	14,5	-183,3	13,4	-65,5	14,5	-152,9	14,2	-20,0	14,5
218	25/8/15 12:00	-212,1	14,3	-178,0	13,5	-56,2	14,6	-147,6	14,3	-10,7	14,6
219	8/9/15 12:00	-210,5	14,1	-189,8	13,2	-66,8	14,4	-162,2	14,1	-26,5	14,3
220	22/9/15 14:00	-203,6	14,0	-188,2	13,0	-62,3	14,1	-151,3	14,0	-22,1	14,0
221	6/10/15 14:00	-214,2	13,8	-182,9	13,1	-67,6	14,0	-161,8	13,8	-32,6	13,8
222	20/10/15 13:00	-207,3	13,7	-176,0	13,0	-64,3	13,6	-156,1	13,6	-47,3	13,6
223	27/10/15 13:00	-204,4	13,6	-170,7	13,1	-62,7	13,4	-158,6	13,4	-46,9	13,3



Ubicazione STAZIONE CHIAIA
Opera \ \ P13
Strumento Barretta Est. per Metallo
Data posa in opera 03/09/2009
Data lettura di zero 03/09/2009

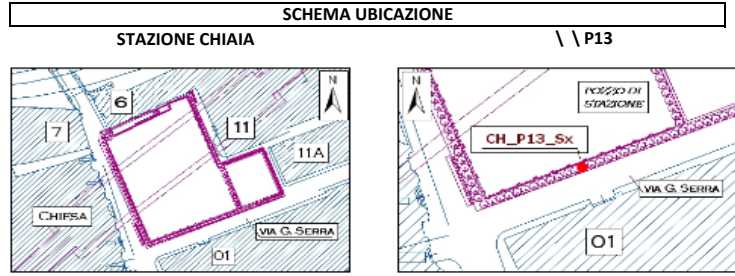


GRAFICO MICROSTRAIN

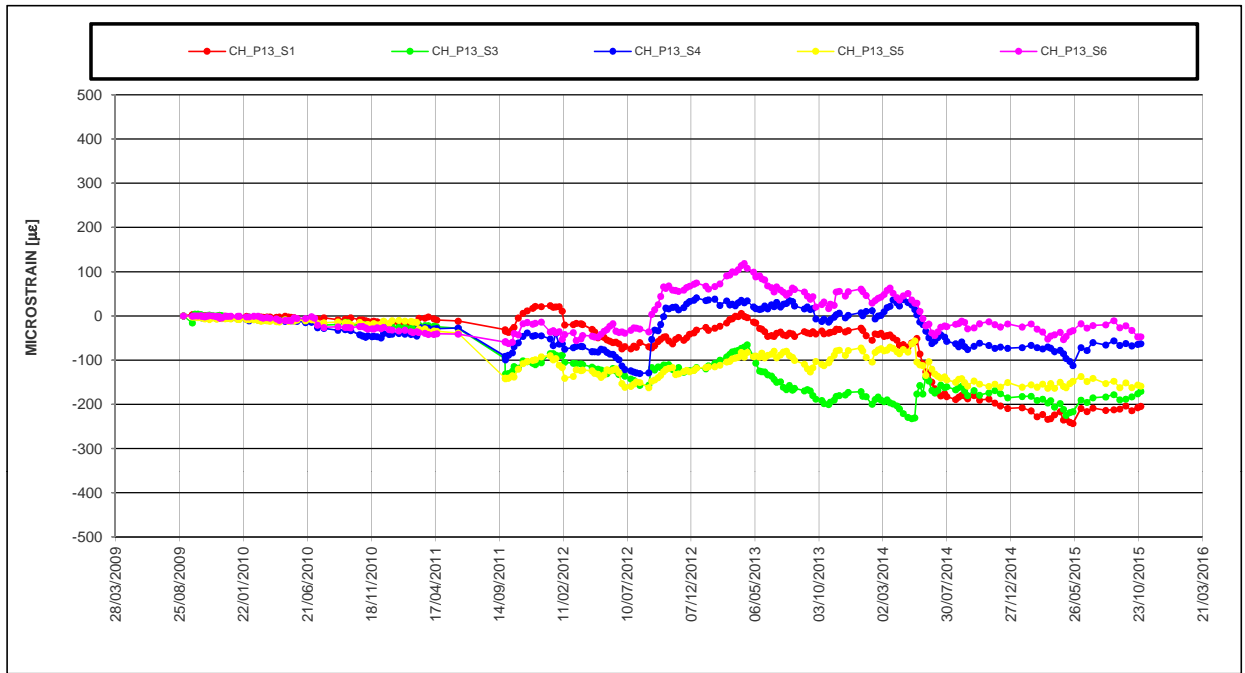
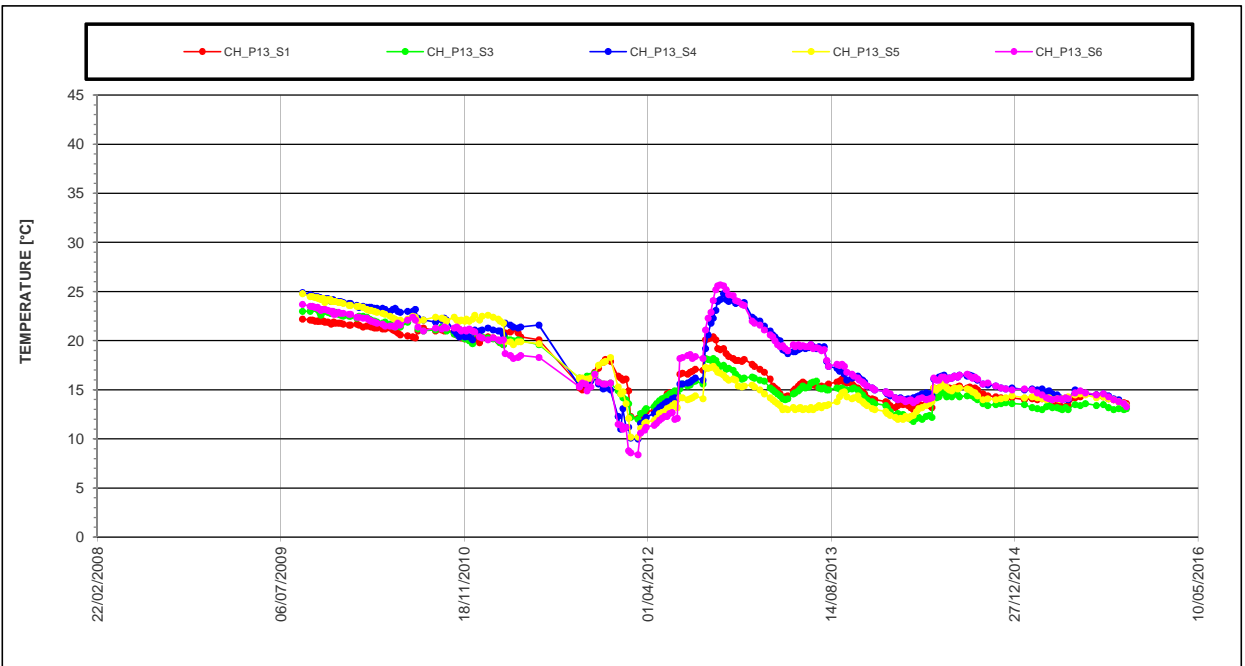
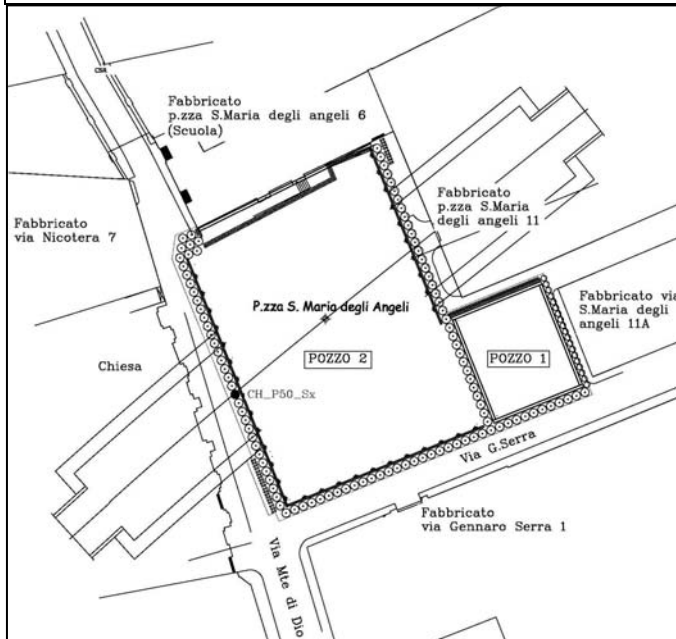


GRAFICO TEMPERATURE

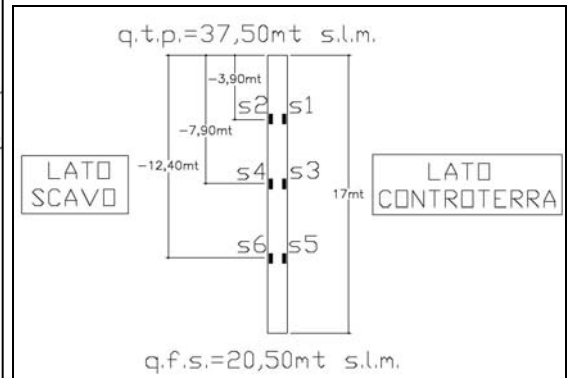


Pannello strumentato

CH_P50



**SCHEMA INSTALLAZIONE
STRUMENT. GEOTECNICA (BECV
PER METALLO)
PALO N°50**



Le barrette con numero progressivi dispari (s1,s3,s5) sono installate lato contro terra, mentre quelle con numero pari (s2,s4,s6) sono poste lato scavo; la direzione di installazione è parallela all'asse di scavo.

Affidabilità strumentale

A.T.I. LM6 – TreEsse

buono
da rivedere
da scartare

X

**Congruenza progettuale
C.T. ATI LM6 – C.T.
Monitoraggio**

congruente
non congruente, da valutare
non congruente con implicazioni
sulla sicurezza

NOTE

Le elaborazioni di seguito riportate includono lo storico delle misure.



TABULATI

Ubicazione STAZIONE CHIAIA

Opera \ \ P50

Strumento Barretta Est. per Metallo

Data posa in opera 03/09/2009

Data lettura di zero 03/09/2009

Ultima Misura 244 in data 27/10/2015

Letture n°	DATA	CH_P50_S1		CH_P50_S2		CH_P50_S3		CH_P50_S4		CH_P50_S5		CH_P50_S6	
		Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]
192	11/3/14 12:00	-59,0	13,6	-74,1	13,3	-85,9	12,2	-64,0	10,6	32,7	12,0	-38,8	12,1
193	18/3/14 12:00	-57,4	13,4	-68,8	13,4	-80,2	12,0	-62,3	10,4	38,0	12,1	-35,9	12,0
194	25/3/14 12:00	-68,0	13,2	-79,3	13,2	-83,0	12,1	-68,8	10,2	28,7	12,0	-29,4	12,2
195	3/4/14 11:00	-73,7	13,4	-85,0	13,4	-92,8	12,3	-76,2	10,6	21,4	12,4	-39,2	12,4
196	9/4/14 11:30	-91,5	13,6	-79,7	13,5	-97,2	12,6	-80,6	10,9	15,7	12,6	-48,9	12,6
197	18/4/14 11:00	-78,1	13,7	-76,9	13,4	-87,5	12,4	-85,1	11,2	10,0	12,8	-47,3	12,4
198	29/4/14 11:00	-89,1	13,8	-82,6	13,6	-97,2	12,6	-86,7	11,4	5,5	13,1	-57,0	12,6
199	8/5/14 11:00	-80,6	13,5	-75,3	13,2	-87,9	12,7	-76,1	11,6	12,4	13,0	-51,7	12,7
200	15/5/14 10:00	-77,7	13,4	-69,6	13,0	-82,6	12,8	-70,9	11,7	21,8	13,1	-46,5	12,8
201	20/5/14 11:00	-67,2	13,6	-60,7	13,4	-74,9	13,1	-76,5	11,9	9,2	13,4	-46,9	13,1
202	27/5/14 11:00	-70,0	13,7	-74,5	13,6	-84,2	13,0	-84,7	11,9	2,7	13,2	-35,9	13,0
203	3/6/14 11:00	-75,3	13,6	-81,0	13,4	-89,9	13,2	-93,6	11,5	-7,9	13,0	-30,6	13,1
204	10/6/14 11:00	-109,8	14,1	-103,3	13,9	-109,8	13,9	-117,2	11,9	-18,4	13,8	-58,6	13,8
205	17/6/14 11:00	-111,8	14,6	-104,1	14,5	-113,5	14,6	-120,4	12,3	-27,3	14,4	-71,2	14,1
206	24/6/14 11:00	-96,4	15,2	-119,5	14,9	-123,6	15,1	-133,4	12,9	-38,7	14,8	-85,4	14,6
207	1/7/14 11:00	-100,8	15,5	-122,8	15,3	-143,1	15,5	-140,7	13,3	-39,5	15,4	-86,2	15,2
208	8/7/14 10:00	-106,5	15,7	-134,6	15,0	-128,5	15,7	-140,3	13,0	-38,7	15,8	-84,6	15,0
209	15/7/14 11:00	-101,2	15,8	-133,7	15,4	-126,0	15,9	-129,7	13,2	-40,3	16,0	-79,3	15,1
210	24/7/14 11:00	-107,7	15,6	-139,4	15,6	-136,6	15,7	-140,3	13,0	-49,7	15,9	-82,2	15,2
211	29/7/14 10:30	-102,1	15,4	-152,0	14,9	-133,8	15,6	-132,2	13,0	-44,0	15,7	-85,0	15,3
212	19/8/14 10:00	-112,6	15,2	-162,6	14,7	-144,3	15,4	-139,1	13,1	-53,3	15,6	-82,2	15,2
213	26/8/14 10:00	-111,0	15,0	-167,9	14,6	-141,5	15,3	-133,8	13,2	-56,2	15,7	-80,5	15,0
214	2/9/14 14:00	-101,3	14,8	-158,1	14,4	-141,1	15,0	-144,4	13,0	-50,5	15,5	-74,9	14,8
215	9/9/14 11:00	-111,8	14,6	-164,6	14,2	-147,6	14,8	-140,3	13,0	-55,8	15,4	-81,4	14,6
216	16/9/14 11:00	-122,4	14,4	-171,1	14,0	-154,1	14,6	-146,8	12,8	-66,3	15,2	-94,4	14,2
217	1/10/14 11:00	-111,0	14,0	-163,8	13,6	-143,9	14,1	-137,1	12,6	-48,5	15,0	-84,6	14,0
218	14/10/14 11:00	-105,3	13,8	-150,4	13,7	-137,0	14,0	-138,7	12,8	-55,0	14,8	-90,3	14,2
219	5/11/14 11:00	-115,9	13,6	-147,6	13,6	-139,9	14,1	-131,8	12,7	-61,5	14,6	-88,7	14,0
220	19/11/14 11:00	-114,3	13,4	-154,5	13,7	-145,2	14,0	-145,2	12,6	-72,0	14,4	-94,4	14,2
221	2/12/14 11:00	-109,0	13,5	-149,2	13,8	-152,1	14,1	-138,7	12,8	-66,7	14,5	-99,7	14,1
222	19/12/14 11:00	-116,7	13,2	-156,1	13,9	-161,4	14,0	-133,4	12,9	-69,6	14,6	-96,8	14,0
223	22/1/15 11:00	-122,0	13,1	-162,6	13,7	-156,1	14,1	-144,0	12,7	-74,9	14,5	-99,7	14,1
224	12/2/15 11:00	-115,1	13,0	-155,7	13,6	-152,1	14,1	-138,7	12,8	-68,0	14,4	-90,3	14,2
225	26/2/15 11:00	-122,0	13,1	-150,0	13,4	-161,4	14,0	-135,8	12,7	-78,5	14,2	-99,7	14,1
226	11/3/15 11:00	-119,2	13,0	-156,5	13,2	-154,9	14,2	-144,0	12,7	-75,7	14,1	-96,8	14,0
227	23/3/15 11:00	-112,7	13,2	-163,0	13,0	-148,4	14,4	-146,8	12,8	-69,2	14,3	-87,1	13,8
228	30/3/15 11:00	-107,4	13,3	-153,7	13,1	-145,6	14,3	-137,5	12,9	-63,9	14,4	-81,8	13,9
229	8/4/15 11:00	-102,9	13,0	-150,8	13,0	-143,9	14,1	-133,0	12,6	-70,4	14,2	-91,9	13,4
230	21/4/15 11:00	-93,6	13,1	-160,6	13,2	-149,2	14,0	-134,6	12,8	-64,7	14,0	-86,3	13,2
231	29/4/15 11:00	-98,8	13,0	-169,9	13,1	-158,6	13,9	-145,6	12,9	-71,2	13,8	-96,8	13,0
232	5/5/15 11:00	-88,3	13,2	-167,1	13,0	-163,8	13,8	-142,7	12,8	-80,6	13,7	-103,7	13,1
233	14/5/15 11:00	-78,9	13,3	-156,5	13,2	-156,9	13,7	-137,1	12,6	-72,0	13,4	-110,6	13,2
234	21/5/15 11:00	-84,2	13,2	-167,5	13,3	-151,7	13,8	-144,0	12,7	-66,4	13,2	-109,0	13,0
235	9/6/15 11:45	-102,1	13,4	-155,7	13,6	-158,2	13,6	-134,6	12,8	-72,4	13,7	-100,1	13,4
236	23/6/15 11:50	-107,4	13,3	-162,2	13,4	-165,1	13,7	-143,1	13,1	-83,4	13,8	-104,5	13,7
237	7/7/15 11:50	-94,0	13,4	-151,6	13,6	-154,1	13,6	-140,3	13,0	-77,7	13,6	-98,8	13,5
238	6/8/15 11:50	-92,3	13,2	-156,9	13,5	-163,4	13,5	-135,0	13,1	-74,9	13,5	-101,7	13,6
239	25/8/15 12:00	-87,1	13,3	-147,6	13,6	-160,6	13,4	-144,4	13,0	-72,0	13,4	-94,8	13,5
240	8/9/15 12:00	-77,7	13,4	-146,0	13,4	-154,9	13,2	-129,7	13,2	-78,5	13,2	-91,9	13,4
241	22/9/15 14:00	-93,6	13,1	-140,3	13,2	-149,2	13,0	-136,2	13,0	-76,9	13,0	-103,7	13,1
242	6/10/15 14:00	-86,7	13,0	-146,8	13,0	-152,1	13,1	-143,1	13,1	-79,8	13,1	-113,1	13,0
243	20/10/15 11:00	-73,3	13,1	-137,4	13,1	-145,2	13,0	-136,2	13,0	-76,9	13,0	-103,7	13,1
244	27/10/15 11:00	-70,4	13,0	-134,6	13,0	-141,1	13,0	-131,0	13,1	-70,4	13,2	-103,3	12,8



Ubicazione STAZIONE CHIAIA
Opera \ \ P50
Strumento Barretta Est. per Metallo
Data posa in opera 03/09/2009
Data lettura di zero 03/09/2009

SCHEMA UBICAZIONE

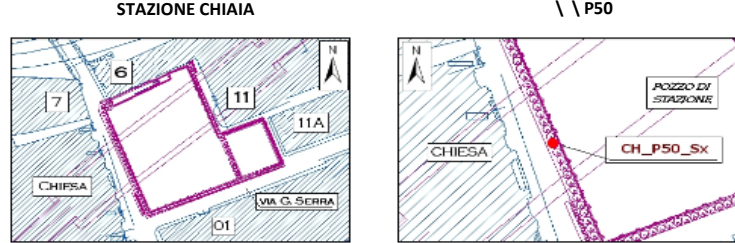


GRAFICO MICROSTRAIN

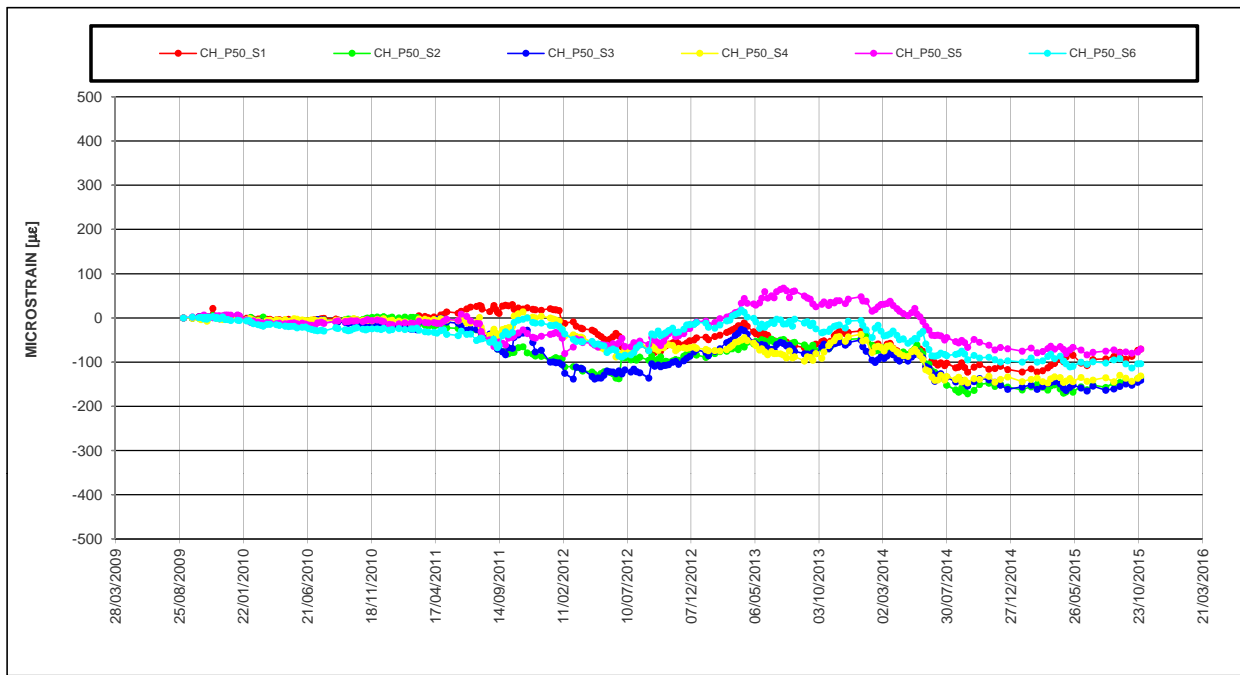
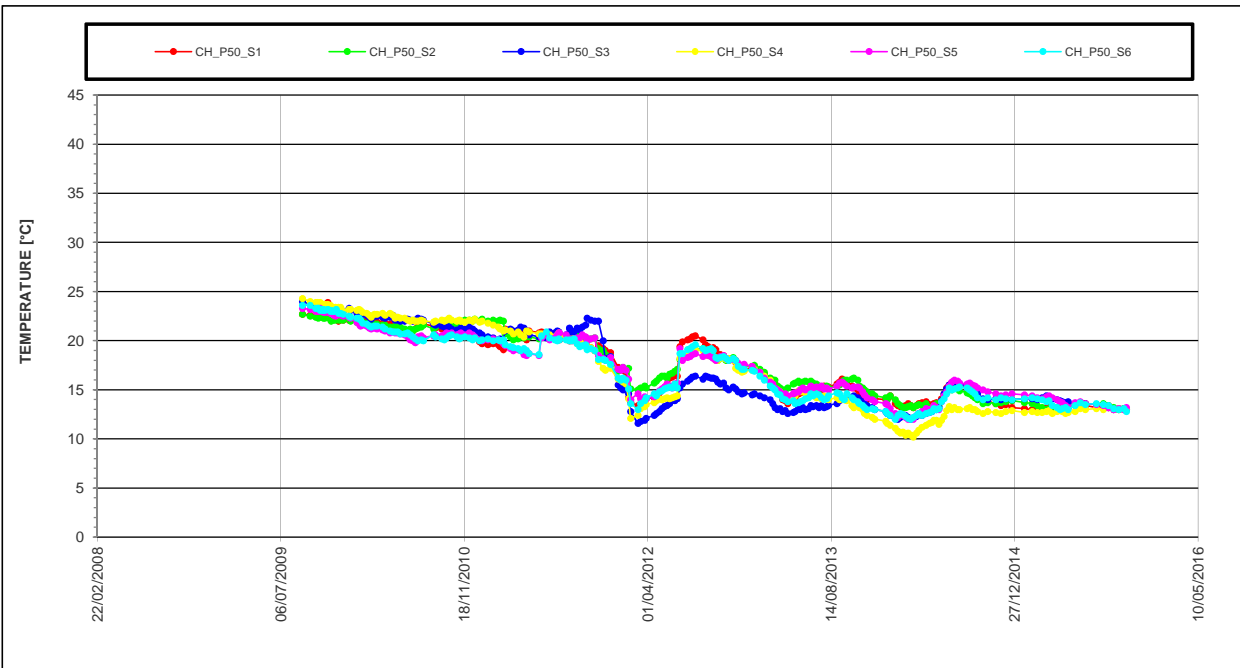
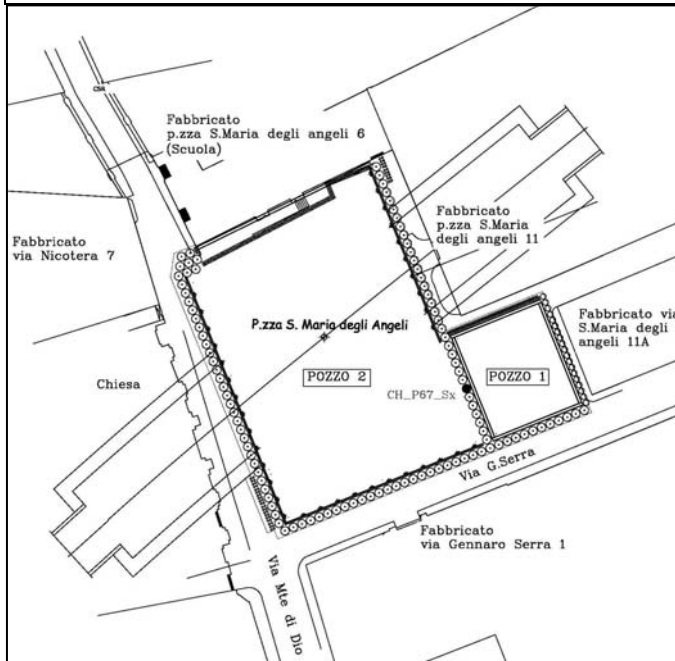


GRAFICO TEMPERATURE

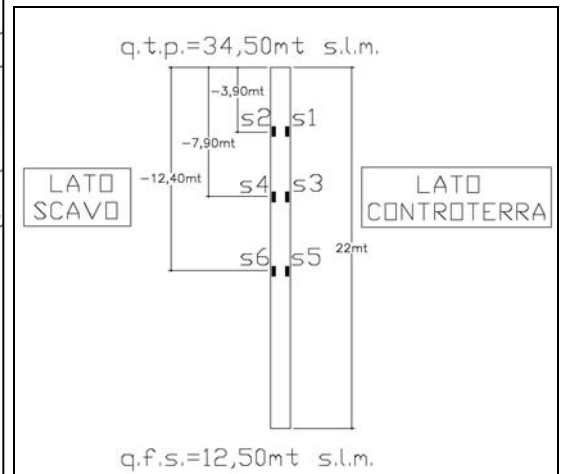


Pannello strumentato

CH_P67



SCHEMA INSTALLAZIONE
STRUMENT. GEOTECNICA (BECV
PER METALLO)
PALO N°67



Le barrette con numero progressivi dispari (s1,s3,s5) sono installate lato contro terra, mentre quelle con numero pari (s2,s4,s6) sono poste lato scavo; la direzione di installazione è parallela all'asse di scavo.

Affidabilità strumentale

A.T.I. LM6 – TreEsse

buono
da rivedere
da scartare

X

Congruenza progettuale
C.T. ATI LM6 – C.T.
Monitoraggio

congruente
non congruente, da valutare
non congruente con implicazioni
sulla sicurezza

NOTE

Le elaborazioni di seguito riportate includono lo storico delle misure.

La barretta estensimetrica a c.v. CH_P67_S1 restituisce valori discontinui dal 28/09/2011.



TABULATI

Ubicazione STAZIONE CHIAIA

Opera \ \ P67

Strumento Barretta Est. per Metallo

Data posa in opera 03/09/2009

Data lettura di zero 03/09/2009

Ultima Misura 248 in data 27/10/2015

Letture n°	DATA	CH_P67_S1		CH_P67_S2		CH_P67_S3		CH_P67_S4		CH_P67_S5		CH_P67_S6	
		Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]
196	11/3/14 12:00			-168,3	12,4	-79,0	12,3	-149,3	11,5	-28,6	14,1	-93,6	13,1
197	18/3/14 11:45			-162,7	12,2	-85,9	12,4	-144,0	11,6	-32,7	14,1	-86,7	13,0
198	25/3/14 12:00			-169,2	12,0	-80,2	12,2	-138,7	11,7	-25,8	14,0	-93,2	12,8
199	3/4/14 11:00			-174,9	12,2	-85,9	12,4	-144,4	11,9	-39,6	14,2	-97,7	13,1
200	9/4/14 11:30			-184,6	12,4	-90,4	12,7	-148,9	12,2	-45,2	14,4	-104,6	13,2
201	18/4/14 11:00			-178,9	12,2	-83,5	12,6	-151,7	12,3	-35,5	14,2	-99,3	13,3
202	29/4/14 11:00			-201,7	12,0	-77,8	12,4	-157,0	12,2	-33,9	14,0	-98,9	13,0
203	8/5/14 11:30			-206,1	12,3	-88,3	12,2	-171,6	12,0	-20,1	13,8	-105,8	13,1
204	15/5/14 11:00			-203,3	12,2	-86,7	12,0	-165,1	12,2	-27,0	13,9	-102,9	13,0
205	20/5/14 11:00			-210,6	12,6	-61,5	12,4	-144,0	12,6	-40,8	14,1	-76,5	13,5
206	27/5/14 11:00			-205,3	12,7	-76,6	12,5	-150,9	12,7	-37,9	14,0	-76,1	13,2
207	3/6/14 11:00			-216,3	12,8	-83,5	12,6	-160,6	12,9	-39,6	14,2	-86,7	13,0
208	10/6/14 11:00			-235,8	13,2	-108,2	12,9	-188,2	13,3	-64,7	14,8	-94,0	13,4
209	17/6/14 11:00			-237,8	13,7	-96,4	14,2	-190,3	13,8	-68,0	15,2	-96,0	13,9
210	24/6/14 11:00			-254,0	13,7	-118,0	14,1	-194,7	14,1	-84,2	15,2	-103,3	14,3
211	1/7/14 11:00			-267,8	13,9	-128,9	14,2	-205,7	14,2	-94,8	15,0	-109,0	14,5
212	8/7/14 10:00			-262,2	13,7	-131,8	14,3	-201,6	14,2	-101,7	15,1	-114,3	14,4
213	15/7/14 11:00			-271,9	13,9	-142,7	14,4	-191,1	14,4	-104,5	15,2	-103,7	14,6
214	24/7/14 11:00			-277,2	13,8	-141,1	14,2	-200,4	14,3	-98,9	15,0	-102,1	14,4
215	29/7/14 10:30			-271,5	13,6	-135,4	14,0	-207,3	14,4	-97,6	15,1	-96,4	14,2
216	19/8/14 10:30			-280,9	13,5	-134,2	14,1	-205,7	14,2	-107,0	15,0	-102,9	14,0
217	26/8/14 10:30			-278,0	13,4	-137,1	14,2	-200,4	14,3	-92,4	15,2	-92,4	14,2
218	2/9/14 14:00			-268,3	13,2	-139,9	14,3	-191,1	14,4	-86,7	15,0	-98,9	14,0
219	9/9/14 11:00			-278,8	13,0	-139,5	14,0	-203,3	14,4	-102,9	14,0	-101,7	14,1
220	16/9/14 11:00			-289,4	12,8	-148,8	13,9	-212,2	14,0	-117,6	13,8	-111,1	14,0
221	1/10/14 11:00			-283,7	12,6	-140,3	13,6	-209,0	13,6	-96,8	13,5	-99,7	13,6
222	14/10/14 11:00			-286,5	12,7	-143,2	13,7	-202,0	13,5	-91,6	13,6	-90,3	13,7
223	5/11/14 11:00			-279,6	12,6	-133,8	13,8	-207,7	13,7	-102,1	13,4	-88,7	13,5
224	19/11/14 11:00			-281,3	12,8	-140,3	13,6	-206,1	13,5	-100,5	13,2	-79,4	13,6
225	2/12/14 11:00			-286,5	12,7	-145,6	13,5	-200,8	13,6	-97,7	13,1	-73,7	13,4
226	19/12/14 11:00			-291,8	12,6	-152,5	13,6	-210,2	13,5	-100,5	13,2	-80,2	13,2
227	22/1/15 11:00			-286,1	12,4	-159,0	13,4	-215,5	13,4	-98,9	13,0	-86,7	13,0
228	12/2/15 11:00			-280,9	12,5	-152,1	13,3	-213,8	13,2	-89,5	13,1	-89,5	13,1
229	26/2/15 11:00			-294,3	12,4	-158,6	13,1	-224,4	13,0	-94,8	13,0	-98,9	13,0
230	11/3/15 11:00			-289,0	12,5	-151,7	13,0	-219,1	13,1	-88,3	13,2	-93,6	13,1
231	23/3/15 11:00			-294,3	12,4	-158,6	13,1	-224,4	13,0	-94,8	13,0	-90,8	13,0
232	30/3/15 11:00			-283,7	12,6	-155,8	13,0	-213,8	13,2	-88,3	13,2	-80,2	13,2
233	8/4/15 11:00			-271,9	12,9	-145,2	13,2	-220,3	13,0	-77,8	13,4	-74,5	13,0
234	21/4/15 11:00			-265,0	12,8	-143,6	13,0	-215,1	13,1	-68,0	13,2	-68,0	13,2
235	29/4/15 11:00			-274,4	12,7	-150,5	13,1	-220,3	13,0	-78,6	13,0	-78,6	13,0
236	5/5/15 11:00			-287,8	12,6	-154,5	13,1	-222,0	13,2	-85,9	13,4	-88,3	13,2
237	14/5/15 11:00			-289,4	12,8	-159,8	13,0	-226,4	13,5	-80,2	13,2	-98,9	13,0
238	21/5/15 11:00			-284,1	12,9	-166,7	13,1	-221,1	13,6	-85,5	13,1	-93,6	13,1
239	9/6/15 11:45			-282,5	12,7	-158,2	12,8	-216,7	13,3	-94,0	13,4	-83,9	12,9
240	23/6/15 11:50			-288,2	12,9	-161,0	12,9	-231,3	13,1	-88,7	13,5	-81,0	12,8
241	7/7/15 11:50			-277,6	13,1	-150,5	13,1	-222,0	13,2	-79,4	13,6	-65,2	13,1
242	6/8/15 11:50			-280,4	13,2	-157,4	13,2	-220,3	13,0	-89,9	13,4	-74,5	13,0
243	25/8/15 11:00			-275,2	13,3	-152,1	13,3	-213,8	13,2	-83,4	13,6	-69,2	13,1
244	8/9/15 11:00			-285,7	13,1	-150,5	13,1	-220,3	13,0	-77,8	13,4	-55,8	13,2
245	22/9/15 14:00			-282,9	13,0	-147,6	13,0	-218,7	12,8	-76,1	13,2	-50,1	13,0
246	6/10/15 14:00			-281,3	12,8	-157,0	12,9	-229,3	12,6	-82,6	13,0	-61,1	13,1
247	20/10/15 11:00			-266,2	12,7	-146,0	12,8	-243,9	12,4	-93,6	13,1	-58,3	13,0
248	27/10/15 11:00			-252,8	12,8	-140,7	12,9	-242,3	12,2	-78,6	13,0	-52,6	12,8



Ubicazione STAZIONE CHIAIA
Opera \ \ P67
Strumento Barretta Est. per Metallo
Data posa in opera 03/09/2009
Data lettura di zero 03/09/2009

SCHEMA UBICAZIONE

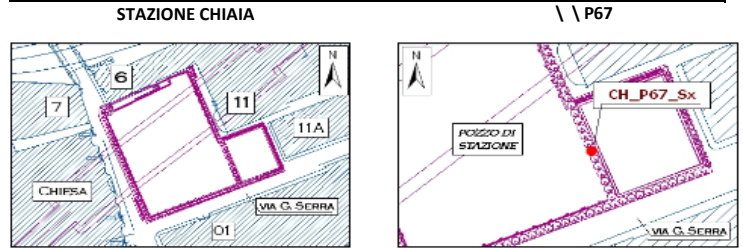


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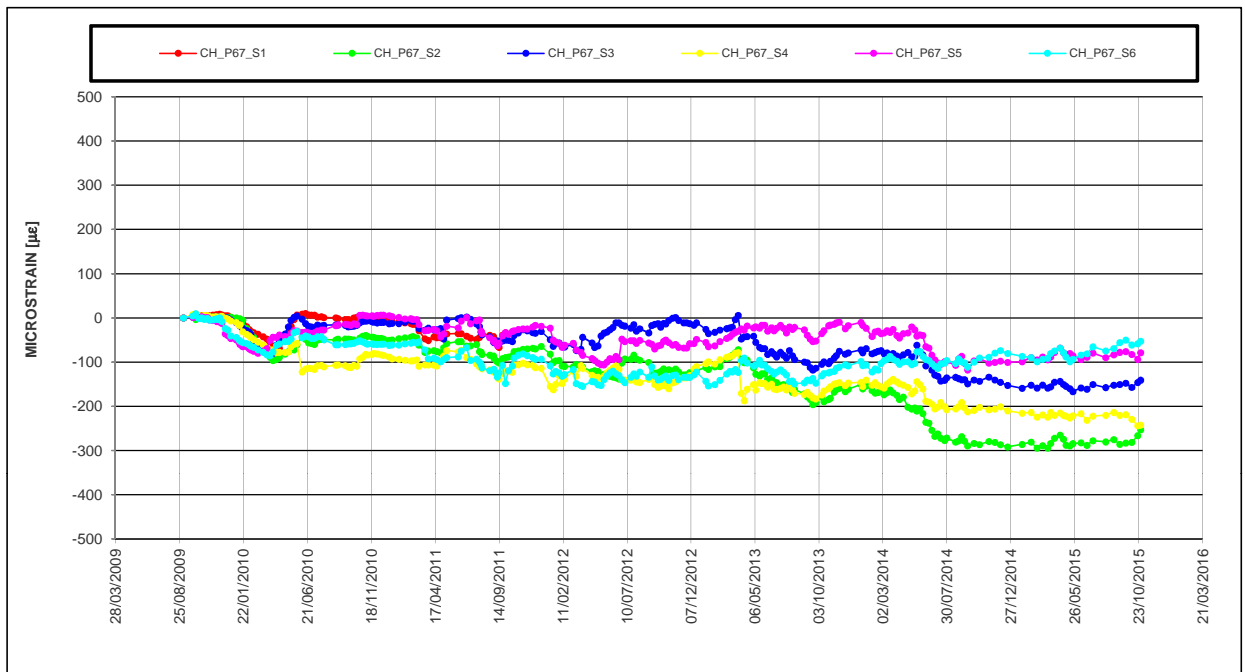
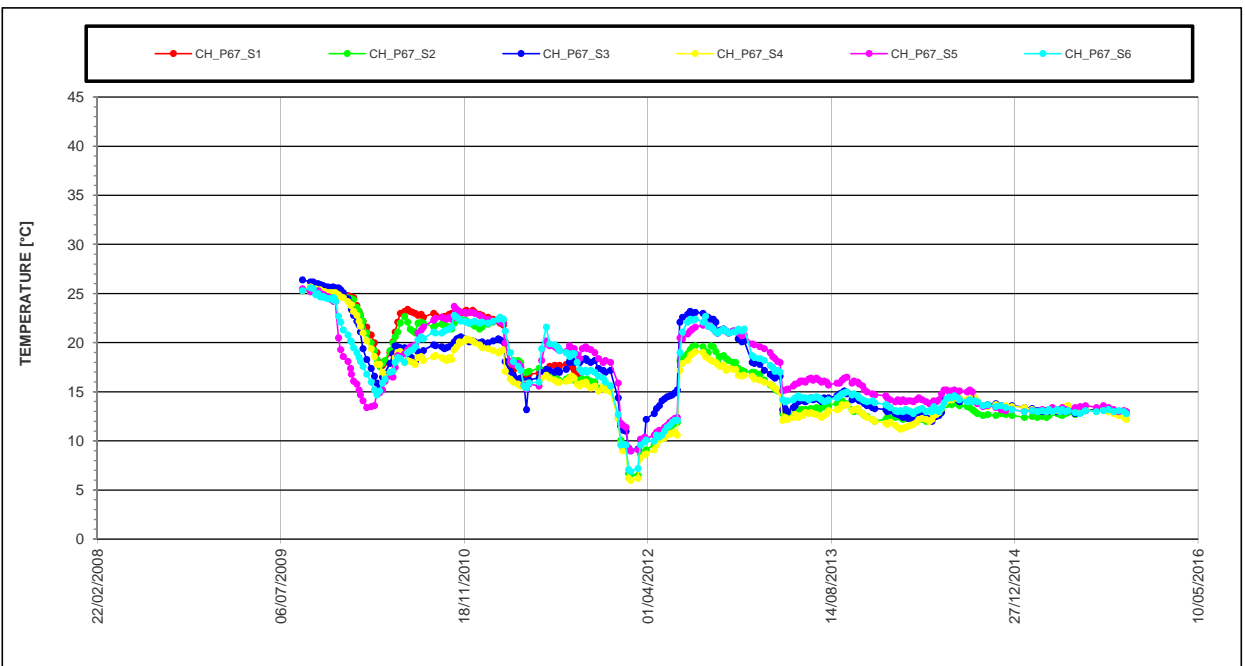
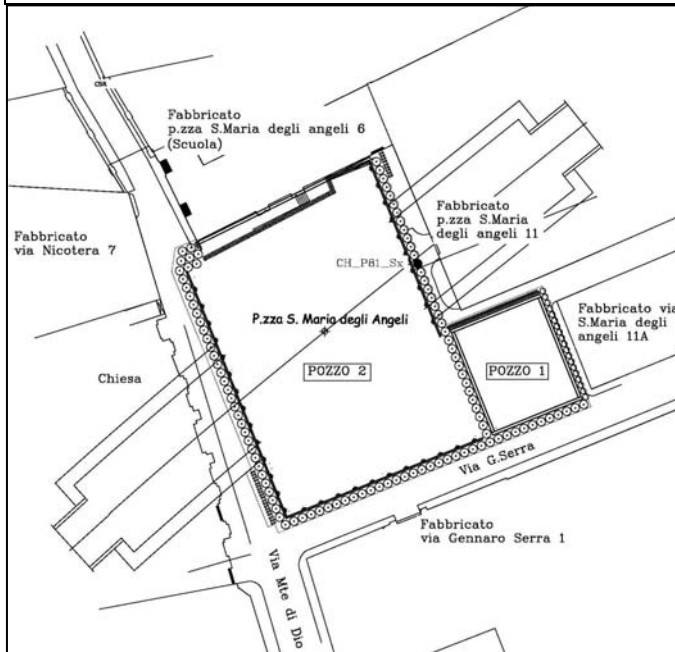


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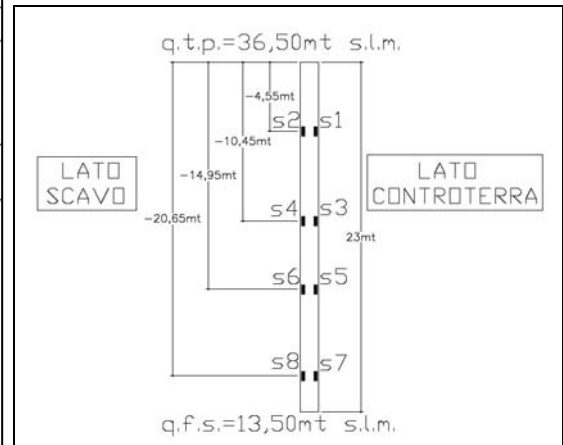


Pannello strumentato

CH_P81



SCHEMA INSTALLAZIONE
STRUMENT. GEOTECNICA (BECV
PER METALLO)
PALO N°81



Le barrette con numero progressivi dispari (s1,s3,s5,s7) sono installate lato contro terra, mentre quelle con numero pari (s2,s4,s6,s8) sono poste lato scavo; la direzione di installazione è parallela all'asse di scavo.

Affidabilità strumentale

A.T.I. LM6 – TreEsse

buono
da rivedere

da scartare

X

Congruenza progettuale

C.T. ATI LM6 – C.T.

Monitoraggio

congruente
non congruente, da valutare
non congruente con implicazioni
sulla sicurezza

NOTE

La barretta estensimetrica a c.v. CH_P81_S7 non è funzionante.

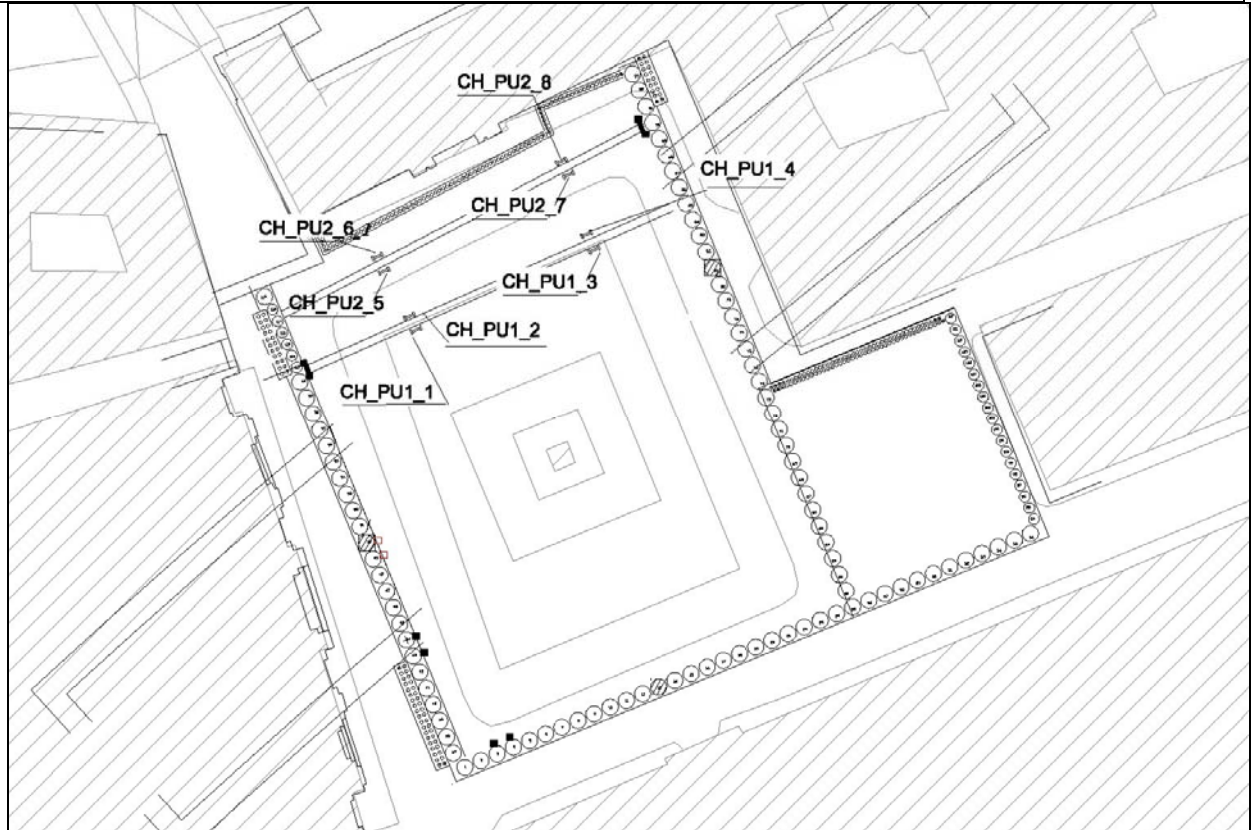
La barretta estensimetrica a c.v. CH_P81_S4 dalla data 25/03/10 non restituisce segnale

Le restanti barrette estensimetriche restituiscono valore discontinuo dal 20/04/2011

L'ultima misura disponibile è riportata nel report APR 2011 con codifica: LM6 7FX 2C I 00

Puntoni strumentati

CH_PU1 CH_PU2



Affidabilità strumentale

A.T.I. LM6 – TreEsse

buono
da rivedere
da scartare

X

Congruenza progettuale

C.T. ATI LM6 – C.T.
Monitoraggio

congruente
non congruente, da valutare
non congruente con implicazioni
sulla sicurezza

NOTE

La Barretta estensimetrica CH_PU1_3 risulta danneggiata e non restituisce valore.

La Barretta estensimetrica CH_PU2_6 risulta danneggiata e non restituisce valore.

La Barretta estensimetrica CH_PU2_6_1 sostituisce la CH_PU2_6_1



TABULATI

Ubicazione STAZIONE CHIAIA

Opera \ \ Puntone 1

Strumento Barretta Est. per Metallo

Data posa in opera 14/09/2011

Data lettura di zero 14/09/2011

Ultima Misura 158 in data 27/10/2015

Letture n°	DATA	CH_PU1_S1		CH_PU1_S2		CH_PU1_S3		CH_PU1_S4	
		Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]
106	11/3/14 12:00	-86,6	13,4	-123,9	13,8	-70,7	13,7	-76,8	14,0
107	18/3/14 11:30	-89,4	13,5	-122,3	13,6	-67,9	13,6	-75,2	13,8
108	25/3/14 12:00	-93,5	13,5	-125,2	13,7	-74,8	13,7	-73,6	13,6
109	3/4/14 11:00	-95,1	13,7	-126,8	13,9	-80,5	13,9	-82,1	13,9
110	9/4/14 12:00	-108,9	13,9	-131,2	14,2	-86,2	14,1	-90,6	14,2
111	18/4/14 11:00	-102,4	14,1	-126,0	14,3	-72,8	14,2	-97,1	14,0
112	29/4/14 11:30	-99,6	14,0	-120,7	14,4	-82,5	14,4	-95,9	14,1
113	8/5/14 11:00	-105,3	14,2	-134,5	14,6	-76,0	14,6	-85,3	14,3
114	15/5/14 10:00	-99,6	14,0	-132,9	14,4	-76,8	14,2	-79,7	14,1
115	20/5/14 11:00	-59,3	16,3	-118,2	16,6	-81,7	16,8	-93,4	16,3
116	27/5/14 11:00	-64,2	16,9	-110,5	16,9	-79,6	17,3	-94,2	16,9
117	3/6/14 11:00	-67,4	17,3	-110,9	17,2	-80,4	17,9	-95,0	17,5
118	10/6/14 11:00	-72,3	17,9	-118,6	17,9	-67,4	18,3	-110,5	17,9
119	16/6/14 11:00	-31,3	18,6	-96,3	18,4	-53,6	19,1	-73,5	18,6
120	24/6/14 11:00	-31,7	18,9	-99,5	18,8	-60,9	19,5	-80,0	19,4
121	1/7/14 10:00	-40,6	19,5	-104,4	19,4	-72,3	19,9	-82,0	19,9
122	8/7/14 10:30	-1,9	26,0	-47,8	25,7	-19,8	26,2	-32,4	26,3
123	15/7/14 11:30	3,4	26,1	-53,5	25,9	-29,5	26,4	-40,9	26,6
124	24/7/14 11:30	-1,9	26,0	-56,3	26,0	-23,8	26,2	-47,8	26,7
125	29/7/14 11:30	-0,3	26,8	-62,0	27,2	-21,0	27,1	-52,7	27,3
126	19/8/14 11:00	3,0	26,4	-56,3	27,0	-20,6	26,8	-50,6	26,8
127	26/8/14 11:00	6,2	26,0	-45,0	26,6	-11,7	26,2	-45,8	26,2
128	2/9/14 14:00	16,0	25,8	-35,2	26,4	-4,4	25,8	-38,5	25,8
129	9/9/14 11:00	5,4	25,6	-47,0	26,1	-19,0	25,6	-49,0	25,6
130	16/9/14 12:00	5,8	25,3	-64,5	25,0	-30,8	25,3	-59,6	25,4
131	1/10/14 12:00	6,2	25,0	-61,2	24,6	-20,6	24,8	-51,1	25,1
132	14/10/14 12:00	-7,6	24,2	-49,0	24,6	-11,7	24,2	-47,4	24,4
133	5/11/14 11:00	0,1	23,5	-46,6	23,8	-2,8	23,6	-40,9	23,6
134	19/11/14 13:30	7,4	23,1	-69,4	21,6			-22,3	22,8
135	2/12/14 12:30	4,5	23,2	-75,9	21,4			-23,1	22,4
136	19/12/14 12:30	-6,0	23,0	-81,6	21,6			-29,6	22,2
137	22/1/15 12:30	-15,0	22,6	-79,6	21,1			-40,2	21,0
138	12/2/15 12:30	-17,8	21,7	-77,1	20,3			-14,6	20,1
139	24/2/15 12:30	-33,7	21,4	-68,6	20,0			-23,9	20,0
140	11/3/15 12:00	-42,6	21,0	-88,9	19,0			-21,1	19,9
141	23/3/15 12:00	-51,5	20,6	-83,7	19,1			-35,7	19,7
142	30/3/15 12:00	-58,0	20,4	-78,4	19,2			-46,3	19,5
143	8/4/15 12:00	-60,1	19,9	-68,2	18,7			-34,9	19,1
144	21/4/15 12:00	-54,4	19,7	-61,3	18,6			-32,1	19,0
145	29/4/15 12:00	-74,3	19,4	-67,8	18,4			-39,0	19,1
146	5/5/15 12:00	-69,8	19,1	-78,4	18,2			-46,7	18,8
147	14/5/15 12:00	-87,3	19,0	-84,9	18,0			-39,8	18,7
148	21/5/15 12:00	-84,5	18,9	-95,5	17,8			-45,1	18,6
149	9/6/15 10:00	-71,4	22,3	-79,9	23,4			-29,6	22,2
150	22/6/15 10:00	7,0	26,4	-37,7	26,2			17,6	26,4
151	7/7/15 12:00	44,0	29,1	16,4	29,3			52,6	29,6
152	6/8/15 12:00	55,0	29,0	9,9	29,1			55,4	29,5
153	25/8/15 11:00	43,6	29,4	7,1	29,2			61,1	29,3
154	8/9/15 11:00	45,3	29,2	-3,5	29,0			57,0	28,3
155	22/9/15 14:00	44,4	28,8	5,0	28,7			65,5	28,0
156	6/10/15 14:00	40,0	28,1	1,8	27,1			69,6	27,0
157	20/10/15 11:00	25,7	27,6	-13,7	26,5			68,0	26,2
158	27/10/15 11:00	11,5	26,1	-21,4	25,2			72,8	25,6



Ubicazione STAZIONE CHIAIA
Opera \ \ Puntone 1
Strumento Barretta Est. per Metallo
Data posa in opera 14/09/2011
Data lettura di zero 14/09/2011

SCHEMA UBICAZIONE

STAZIONE CHIAIA

\ \ Puntone 1

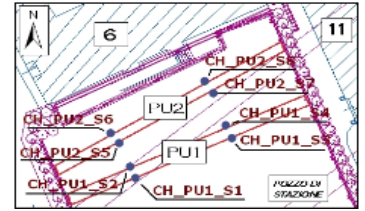
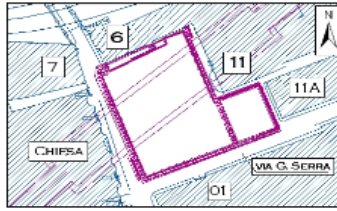


GRAFICO MICROSTRAIN

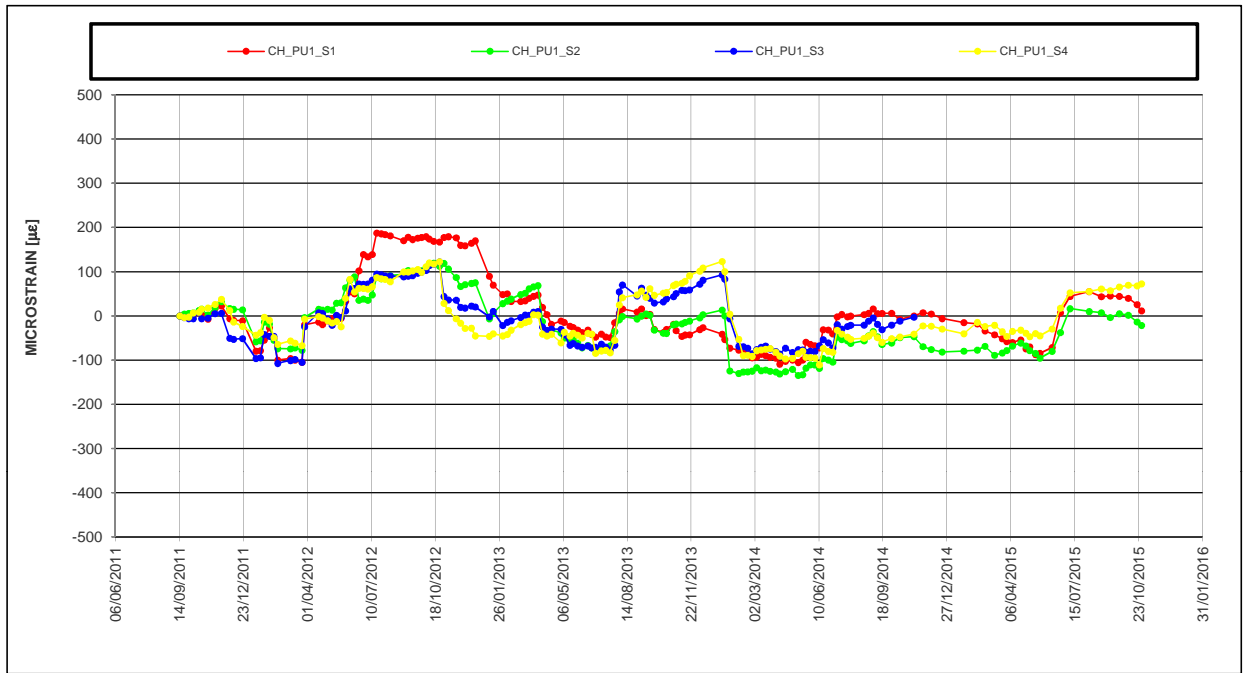
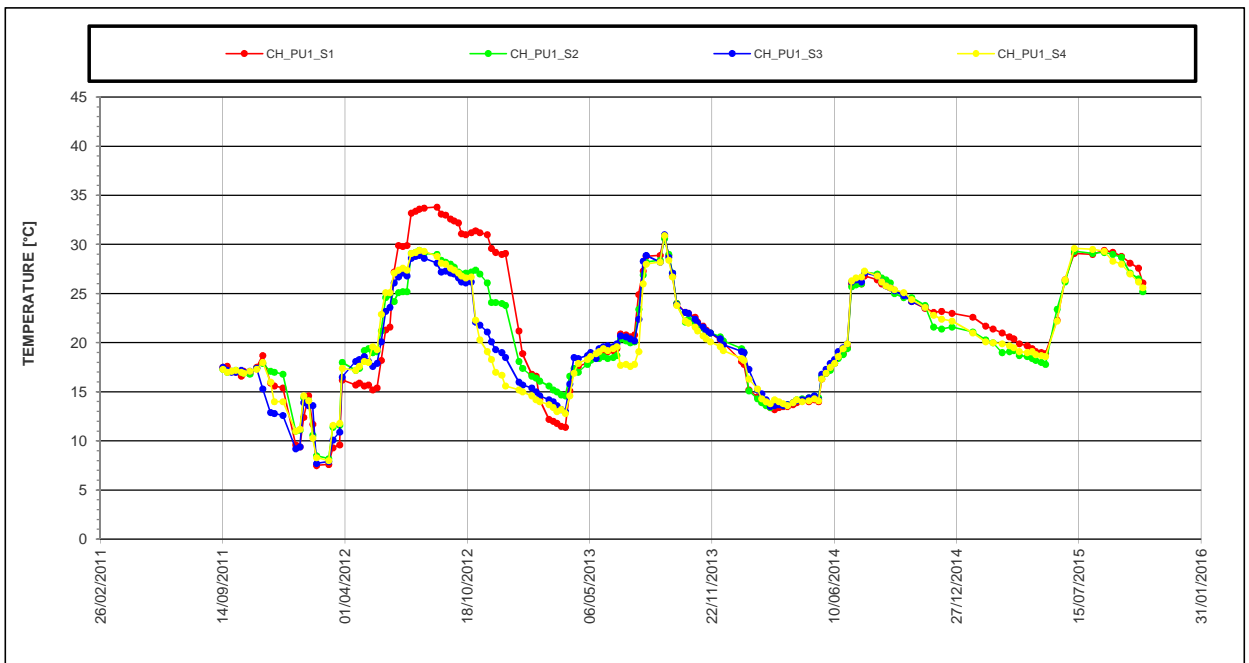


GRAFICO TEMPERATURE



Ubicazione STAZIONE CHIAIA

Opera \ \ Puntone 2

Strumento Barretta Est. per Metallo

Data posa in opera 14/09/2011

Data lettura di zero 14/09/2011

Ultima Misura 159 in data 27/10/2015

Letture n°	DATA	CH_PU2_S5		CH_PU2_S6		CH_PU2_S6_1		CH_PU2_S7		CH_PU2_S8	
		Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]	Micro strain [µε]	Temp. [°C]
107	11/3/14 12:00	-103,6	15,6			-102,9	12,5	-139,0	13,8	-70,7	14,1
108	18/3/14 11:30	-90,6	16,0			-121,1	12,0	-137,4	13,6	-76,0	14,0
109	25/3/14 12:00	-102,0	15,4			-122,0	11,6	-147,9	13,4	-83,7	13,7
110	3/4/14 11:00	-86,1	15,7			-133,3	12,0	-153,6	13,6	-92,3	14,0
111	9/4/14 12:00	-84,9	15,8			-140,6	12,4	-162,1	13,9	-106,1	14,2
112	18/4/14 11:00	-79,2	15,6			-151,2	12,2	-152,4	13,7	-111,4	14,1
113	29/4/14 11:30	-89,8	15,4			-155,7	12,5	-144,7	14,0	-121,1	14,3
114	8/5/14 11:00	-107,7	15,6			-167,0	12,9	-157,3	14,3	-126,8	14,5
115	15/5/14 10:00	-94,3	15,7			-160,5	13,1	-170,7	14,2	-121,1	14,3
116	20/5/14 11:00	-120,7	17,2			-44,7	15,6	-132,0	16,7	-58,1	16,8
117	27/5/14 11:00	-120,2	17,9			-41,5	16,2	-128,8	17,3	-57,7	17,5
118	3/6/14 11:00	-111,3	18,3			-41,1	16,9	-141,8	17,9	-62,6	18,1
119	10/6/14 11:00	-121,4	18,8			-47,1	17,4	-134,4	18,5	-58,1	18,8
120	16/6/14 11:00	-101,9	19,4			-17,9	17,8	-101,5	19,2	-22,7	19,7
121	24/6/14 11:00	-112,1	19,9			-36,2	18,3	-110,5	19,8	-39,8	20,3
122	1/7/14 10:00	-111,3	20,3			-38,2	18,8	-110,0	20,5	-52,4	20,6
123	8/7/14 10:30	-76,7	25,8			-7,2	24,0	-73,8	25,8	-28,3	24,9
124	15/7/14 11:30	-87,6	25,9			-11,7	24,3	-84,8	25,9	-35,2	25,0
125	24/7/14 11:30	-94,5	26,0			-2,8	24,7	-78,3	26,1	-35,6	25,3
126	29/7/14 11:30	-91,7	26,9			5,8	26,4	-81,1	27,2	-25,5	26,8
127	19/8/14 11:00	-88,4	26,5			6,2	26,1	-77,9	26,8	-15,7	26,6
128	26/8/14 11:00	-105,5	26,1			-12,5	25,9	-97,4	26,2	-14,9	26,0
129	2/9/14 14:00	-105,1	25,8			-6,4	25,4	-107,9	26,0	-11,7	25,6
130	9/9/14 11:00	-115,7	25,6			-4,8	25,2	-98,2	25,8	-10,1	25,4
131	16/9/14 12:00	-126,2	25,4			-15,3	25,0	-119,3	25,4	-20,6	25,2
132	1/10/14 12:00	-114,9	25,0			-8,0	24,6	-110,8	25,1	-18,6	24,7
133	14/10/14 12:00	-104,7	24,5			-2,0	24,1	-101,9	24,5	-5,6	24,1
134	5/11/14 11:00	-91,7	23,9			4,1	23,6	-94,2	23,8	-0,7	23,5
135	19/11/14 13:30	-138,5	22,4			6,2	23,1	-78,3	23,1	9,4	23,0
136	2/12/14 12:30	-146,6	22,4			13,9	23,4	-62,5	23,4	7,4	22,5
137	19/12/14 12:30	-139,7	22,3			3,3	23,2	-73,0	23,2	-1,6	22,1
138	22/1/15 12:30	-151,5	22,0			-15,4	22,0	-79,5	23,0	-19,0	21,0
139	12/2/15 12:30	-134,0	21,1			-6,1	21,1	-60,9	22,2	-4,4	20,2
140	24/2/15 12:30	-144,2	20,6			-17,4	20,5	-67,4	22,0	-9,7	20,1
141	11/3/15 12:00	-147,4	20,0			-15,4	20,0	-81,2	21,2	-15,0	20,0
142	23/3/15 12:00	-158,0	19,8			-22,3	20,1	-82,8	21,4	-21,5	19,8
143	30/3/15 12:00	-155,1	19,7			-19,5	20,0	-77,1	21,2	-13,4	19,8
144	8/4/15 12:00	-145,4	19,5			-17,5	19,5	-69,8	20,8	-26,4	19,4
145	21/4/15 12:00	-151,9	19,3			-22,7	19,4	-64,1	20,6	-21,1	19,5
146	29/4/15 12:00	-159,6	19,0			-33,3	19,2	-73,1	20,2	-31,3	19,0
147	5/5/15 12:00	-170,2	18,8			-31,7	19,0	-83,7	20,0	-41,8	18,8
148	14/5/15 12:00	-173,0	18,9			-31,3	18,7	-94,2	19,8	-52,4	18,6
149	21/5/15 12:00	-183,6	18,7			-40,6	18,6	-100,7	19,6	-42,6	18,4
150	9/6/15 10:00	-164,9	22,9			-41,4	22,2	-111,2	23,4	-22,3	23,4
151	22/6/15 10:00	-110,0	26,4			-40,6	20,6	-39,7	27,6	18,8	25,1
152	7/7/15 12:00	-46,6	29,6			-5,7	20,8	19,3	31,1	63,1	27,4
153	6/8/15 12:00	-51,8	29,5			-12,2	20,6	22,1	31,0	56,6	27,2
154	25/8/15 11:00	-58,7	29,6			-13,4	21,5	27,4	31,1	61,9	28,3
155	8/9/15 11:00	-51,4	29,2			-14,2	21,1	30,6	30,7	70,4	28,0
156	22/9/15 14:00	-39,2	29,2			-5,7	20,8	19,2	29,1	77,7	27,6
157	6/10/15 14:00	-48,6	27,1			-17,1	19,2	24,5	28,2	71,6	26,1
158	20/10/15 11:00	-50,3	26,3			-20,3	18,6	23,3	27,1	48,0	25,5
159	27/10/15 11:00	-49,5	25,7			-10,2	18,1	22,0	26,0	39,1	24,1



Ubicazione STAZIONE CHIAIA
Opera \ \ Puntone 2
Strumento Barretta Est. per Metallo
Data posa in opera 14/09/2011
Data lettura di zero 14/09/2011

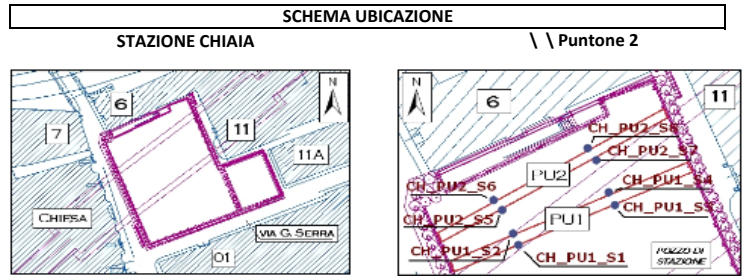


GRAFICO MICROSTRAIN

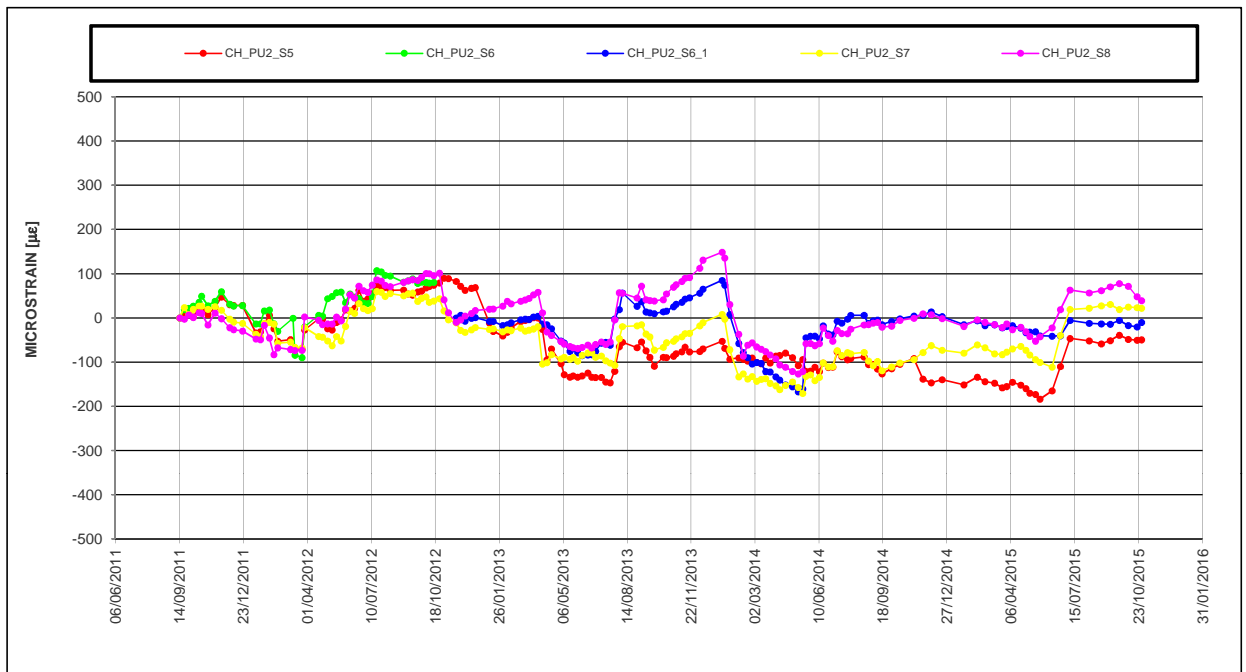
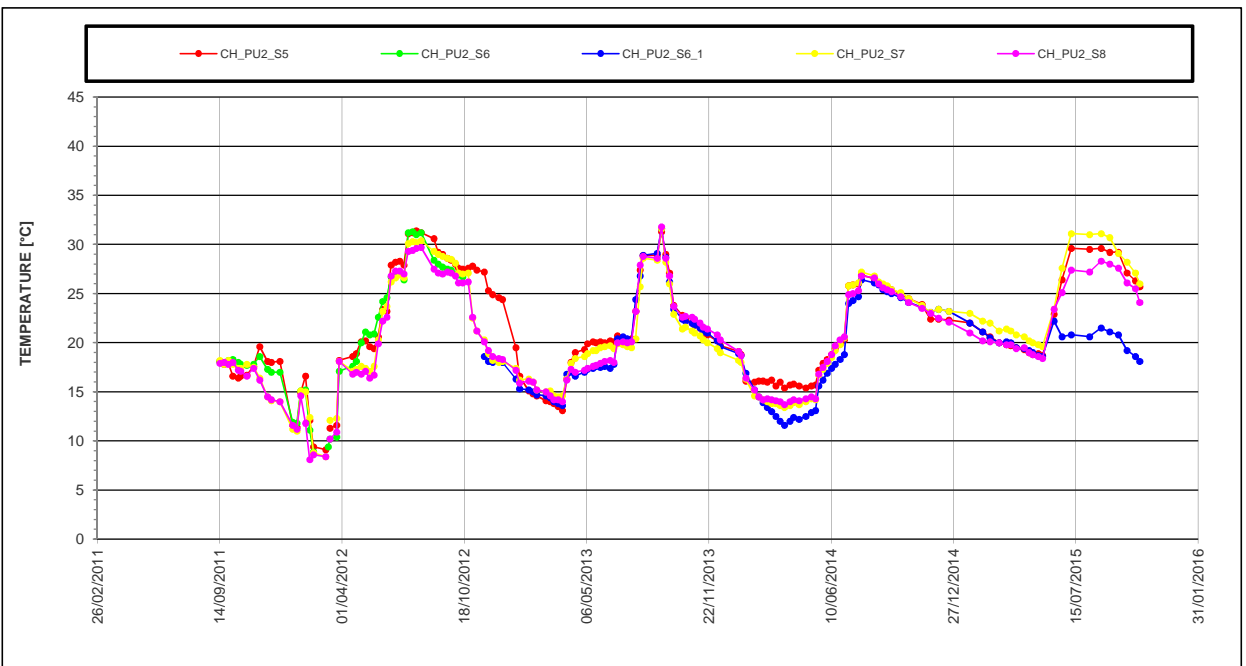



GRAFICO TEMPERATURE



 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO</i></p> <p><i>REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 46 Data: 30/10/15 Metropolit. di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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9. MISURE GEOTECNICHE – CELLE DI CARICO TOROIDALI

Le celle di carico toroidali a compressione, costituite da un anello di acciaio di diverso diametro in funzione alla tipologia di utilizzo, trovano applicazione nel controllo della tesatura di tiranti o di bulloni per chiodature in roccia o nel terreno; servono inoltre per tenere sotto controllo gli stessi durante il servizio evidenziando eventuali rilasci o sovraccarichi tensionali.

Le celle, sottoposte ad un carico, subiscono una deformazione che viene rilevata dagli estensimetri, i quali variando il loro valore di resistenza, generano in uscita un segnale elettrico proporzionale al carico applicato.


 Ansaldo STS A Finmeccanica Company	LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO <i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO</i> <i>REPORT DELLE MISURE - STAZIONE CHIAIA</i>	LM6 7FX 2C I 46 Data: 30/10/15 Metropolit. di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.
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Tabelle riepilogative per le Celle di Carico toroidali installate in cantiere.

Tabella Celle di Carico Primo Ordine di Tiranti

NOME	TIPOLOGIA STRUMENTO	DATA INSTALLAZIONE	DISPONIBILITA' LETTURA			NOTE
			DATA LETTURA DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
CH_CC1	CC.TOROIDALI	16/05/11	16/05/11			
CH_CC2	CC.TOROIDALI	16/05/11	16/05/11			
CH_CC3	CC.TOROIDALI	16/05/11	16/05/11			
CH_CC4	CC.TOROIDALI	16/05/11	16/05/11			

Tabella Celle di Carico Secondo Ordine di Tiranti

NOME	TIPOLOGIA STRUMENTO	DATA INSTALLAZIONE	DISPONIBILITA' LETTURA			NOTE
			DATA LETTURA DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
SECONDO ORDINE DI TIRANTI						
CH_CC5	CC. TOROIDALI	02/08/11	02/08/11			
CH_CC6	CC. TOROIDALI	02/08/11	02/08/11			
CH_CC7	CC. TOROIDALI	16/05/11	19/07/11			
CH_CC8	CC. TOROIDALI	16/05/11	19/07/11			
CH_CC9	CC. TOROIDALI	02/04/12	02/04/12			

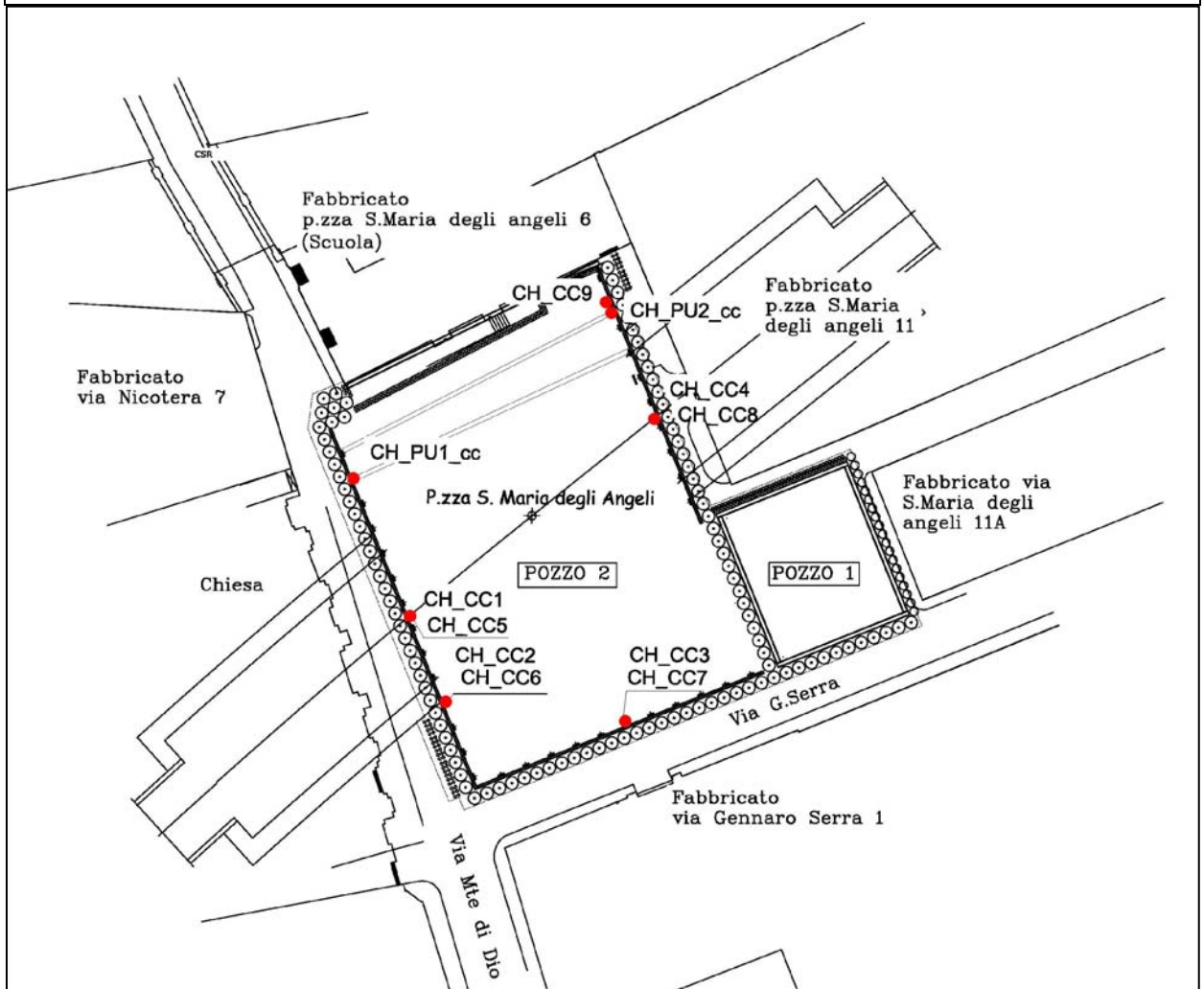
Tabella Celle di Carico Puntoni

NOME	TIPOLOGIA STRUMENTO	DATA INSTALLAZIONE	DISPONIBILITA' LETTURA			NOTE
			DATA LETTURA DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
PUNTONI						
CH_PU1_CC	CC. TOROIDALI	14/09/11	14/09/11	09/06/15		(*) Non restituisce valore
CH_PU2_CC	CC. TOROIDALI	14/09/11	14/09/11			

(*) al presente Report non ci sono misure da consegnare per lo strumento

Celle di Carico

CH_CC1-9 / CH_PU1-2_CC



Affidabilità strumentale
A.T.I. LM6 – TreEsse

buono
da rivedere
da scartare

X

Congruenza progettuale
C.T. ATI LM6 – C.T. Monitoraggio

congruente
non congruente, da valutare
non congruente con implicazioni sulla
sicurezza

NOTE

La cella di carico CH_PU1_CC non restituisce valore dal 09/06/15


TABULATI
Ubicazione STAZIONE CHIAIA

Tipo Strumento Cella di Carico

Posizione \ \ 1° Ordine Di Tiranti

Data posa in opera 16/05/2011

Data lettura di zero 16/06/2011

**Ultima
misura**

186

in data

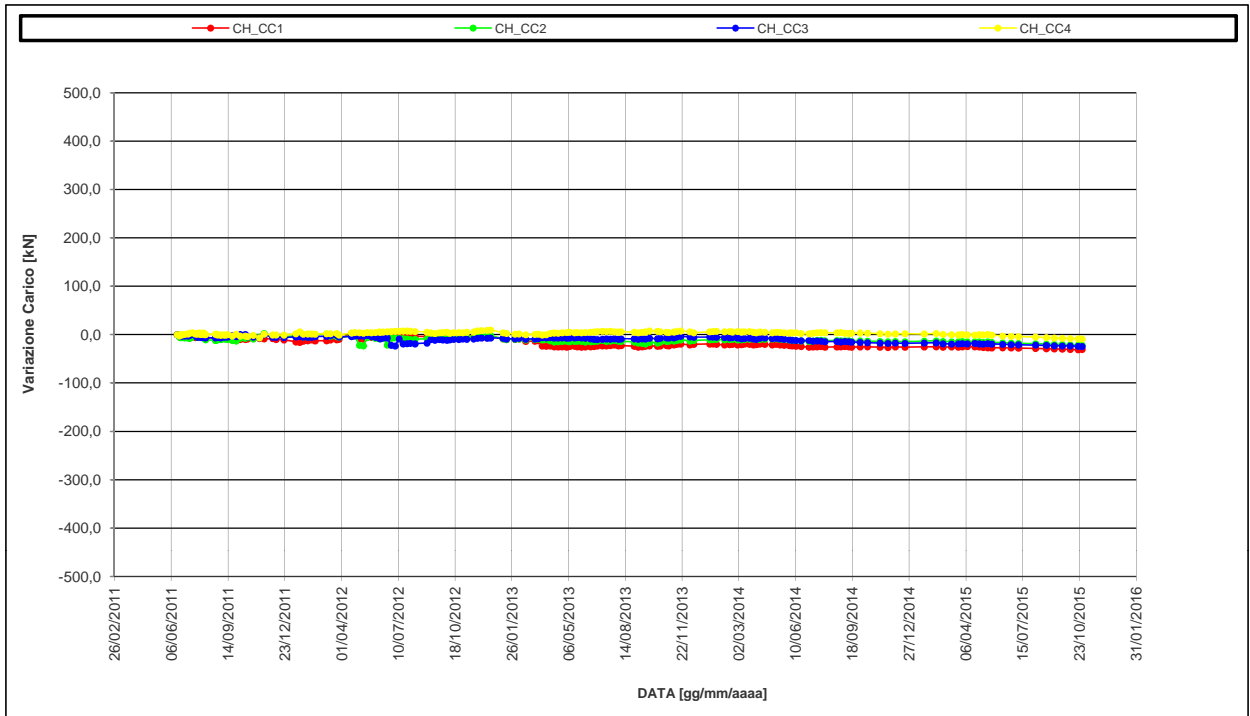
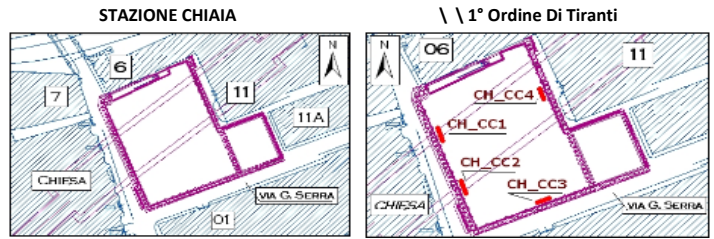
27/10/2015

Letture n°	DATA	CH_CC1		CH_CC2		CH_CC3		CH_CC4	
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133	27/02/2014 11:00	-21,00	279,97	-11,01	289,08	-7,00	322,53	6,50	292,38
134	06/03/2014 11:00	-20,50	280,47	-10,51	289,58	-8,50	321,03	5,50	291,38
135	11/03/2014 12:00	-19,50	281,47	-10,01	290,08	-8,00	321,53	6,00	291,88
136	20/03/2014 11:00	-20,00	280,97	-9,51	290,58	-7,50	322,03	6,50	292,38
137	27/03/2014 14:00	-21,00	279,97	-9,00	291,08	-8,50	321,03	5,00	290,88
138	01/04/2014 10:30	-20,50	280,47	-8,50	291,58	-9,50	320,03	4,00	289,88
139	07/04/2014 12:00	-19,50	281,47	-10,01	290,08	-7,50	322,03	5,50	291,38
140	16/04/2014 12:00	-20,00	280,97	-9,51	290,58	-7,00	322,53	5,00	290,88
141	29/04/2014 11:00	-21,00	279,97	-9,00	291,08	-8,00	321,53	4,00	289,88
142	06/05/2014 11:00	-20,00	280,97	-8,50	291,58	-7,50	322,03	5,00	290,88
143	13/05/2014 11:00	-21,00	279,97	-9,51	290,58	-8,50	321,03	4,50	290,38
144	20/05/2014 11:00	-22,00	278,97	-10,01	290,08	-9,50	320,03	4,00	289,88
145	29/05/2014 11:00	-22,50	278,47	-11,01	289,08	-10,50	319,03	3,50	289,38
146	03/06/2014 11:00	-23,00	277,97	-11,51	288,58	-11,50	318,03	4,00	289,88
147	10/06/2014 11:00	-24,00	276,97	-12,01	288,08	-12,00	317,53	4,00	289,88
148	19/06/2014 11:00	-24,50	276,47	-13,01	287,08	-12,50	317,03	2,50	288,38
149	03/07/2014 11:00	-26,00	274,97	-14,01	286,07	-12,00	317,53	2,00	287,88
150	10/07/2014 11:00	-25,50	275,47	-13,01	287,08	-13,50	316,03	3,00	288,88
151	17/07/2014 11:00	-25,00	275,97	-12,01	288,08	-13,00	316,53	4,00	289,88
152	24/07/2014 11:00	-24,50	276,47	-11,51	288,58	-13,50	316,03	4,50	290,38
153	31/07/2014 12:00	-26,00	274,97	-12,51	287,58	-14,50	315,03	4,00	289,88
154	21/08/2014 12:00	-25,50	275,47	-12,01	288,08	-14,00	315,53	4,00	289,88
155	28/08/2014 12:00	-25,00	275,97	-12,51	287,58	-15,00	314,53	4,50	290,38
156	04/09/2014 11:00	-24,50	276,47	-13,01	287,08	-14,00	315,53	3,00	288,88
157	11/09/2014 11:00	-25,00	275,97	-12,51	287,58	-14,50	315,03	2,50	288,38
158	16/09/2014 10:00	-26,00	274,97	-14,01	286,07	-15,50	314,03	3,00	288,88
159	01/10/2014 10:00	-25,50	275,47	-13,01	287,08	-16,00	313,53	3,50	289,38
160	14/10/2014 10:00	-25,00	275,97	-13,51	286,58	-16,50	313,03	3,00	288,88
161	05/11/2014 10:00	-26,00	274,97	-14,01	286,07	-17,50	312,03	2,00	287,88
162	19/11/2014 10:00	-26,50	274,47	-14,51	285,57	-18,00	311,53	1,00	286,88
163	02/12/2014 10:00	-25,50	275,47	-14,01	286,07	-17,50	312,03	1,50	287,38
164	19/12/2014 10:00	-26,00	274,97	-14,51	285,57	-18,00	311,53	2,00	287,88
165	22/01/2015 10:00	-25,50	275,47	-13,51	286,58	-17,50	312,03	1,50	287,38
166	12/02/2015 10:00	-25,00	275,97	-13,01	287,08	-17,00	312,53	2,50	288,38
167	24/02/2015 10:00	-26,00	274,97	-14,01	286,07	-19,00	310,53	0,50	286,38
168	11/03/2015 10:00	-25,50	275,47	-15,01	285,07	-19,50	310,03	0,00	285,88
169	23/03/2015 10:00	-26,00	274,97	-14,51	285,57	-19,00	310,53	-0,50	285,38
170	30/03/2015 10:00	-25,00	275,97	-14,01	286,07	-18,50	311,03	0,50	286,38
171	08/04/2015 10:00	-24,50	276,47	-15,01	285,07	-19,00	310,53	-0,50	285,38
172	21/04/2015 10:00	-25,00	275,97	-14,51	285,57	-18,00	311,53	-1,00	284,88
173	29/04/2015 10:00	-25,50	275,47	-15,01	285,07	-19,00	310,53	0,00	285,88
174	06/05/2015 10:00	-26,50	274,47	-16,01	284,07	-19,50	310,03	-0,50	285,38
175	14/05/2015 10:00	-27,00	273,97	-15,01	285,07	-18,50	311,03	0,50	286,38
176	21/05/2015 10:00	-27,50	273,47	-16,01	284,07	-19,50	310,03	-1,00	284,88
177	09/06/2015 10:00	-27,00	273,97	-17,01	283,07	-20,00	309,53	-3,00	282,88
178	24/06/2015 10:00	-27,50	273,47	-17,51	282,57	-20,50	309,03	-3,50	282,38
179	07/07/2015 10:00	-28,00	272,97	-18,01	282,07	-21,00	308,53	-4,00	281,88
180	06/08/2015 10:00	-28,50	272,47	-18,51	281,57	-21,50	308,03	-5,00	280,88
181	25/08/2015 11:00	-29,00	271,97	-19,51	280,57	-22,00	307,53	-6,00	279,88
182	08/09/2015 11:00	-29,50	271,47	-20,01	280,07	-22,99	306,53	-7,00	278,88
183	22/09/2015 14:00	-30,00	270,97	-20,01	280,07	-23,49	306,03	-7,50	278,38
184	06/10/2015 14:00	-30,50	270,47	-21,01	279,07	-23,49	306,03	-8,00	277,88
185	20/10/2015 11:00	-31,00	269,97	-21,51	278,57	-23,99	305,53	-8,50	277,38
186	27/10/2015 11:00	-30,50	270,47	-22,01	278,07	-24,49	305,03	-9,00	276,88



SCHEMA UBICAZIONE

Ubicazione STAZIONE CHIAIA
Tipo Strumento Cella di Carico
Posizione \ \ 1° Ordine Di Tiranti
Data posa in opera 16/05/2011
Data lettura di zero 16/06/2011





TABULATI

Ubicazione STAZIONE CHIAIA

Tipo Strumento Cella di Carico

Posizione \ \ 2° Ordine Di Tiranti

Data posa in opera 02/08/2011

Data lettura di zero 02/08/2011

Ultima
misura

178

in data

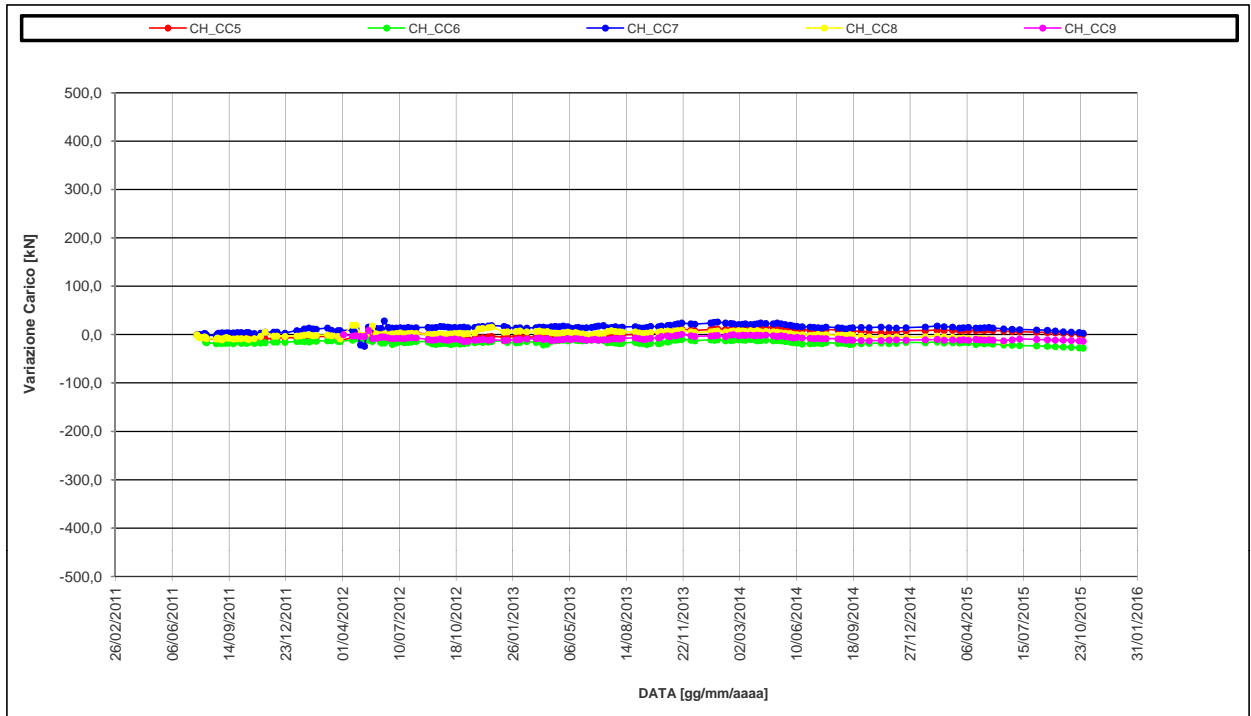
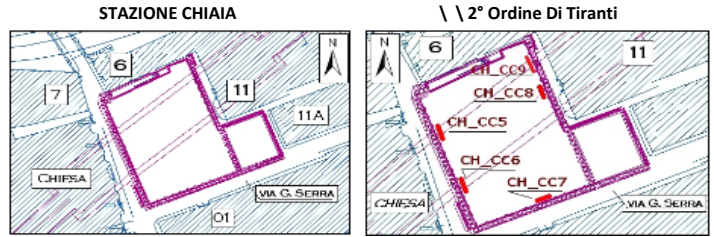
27/10/2015

Letture n°	DATA	CH_CC5		CH_CC6		CH_CC7		CH_CC8		CH_CC9	
		Δ Carico [kN]	Carico [kN]	Δ Carico [kN]	Carico [kN]	Δ Carico [kN]	Carico [kN]	Δ Carico [kN]	Carico [kN]	Δ Carico [kN]	Carico [kN]
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126	06/03/2014 11:00	12,75	551,81	-10,50	512,46	21,75	503,18	7,50	368,84	-0,75	400,50
127	11/03/2014 12:00	15,00	554,06	-11,25	511,71	22,50	503,93	6,75	368,09	-1,50	399,75
128	20/03/2014 11:00	16,50	555,56	-9,75	513,21	21,00	502,43	8,25	369,59	-0,75	400,50
129	27/03/2014 14:00	15,75	554,81	-10,50	512,46	21,75	503,18	6,75	368,09	-2,25	399,00
130	01/04/2014 10:30	15,00	554,06	-12,75	510,21	22,50	503,93	8,25	369,59	-0,75	400,50
131	07/04/2014 12:00	15,75	554,81	-12,00	510,96	24,00	505,43	6,00	367,34	-1,50	399,75
132	16/04/2014 12:00	16,50	555,56	-11,25	511,71	23,25	504,68	6,75	368,09	-0,75	400,50
133	29/04/2014 11:00	14,25	553,31	-12,75	510,21	22,50	503,93	6,00	367,34	-2,25	399,00
134	06/05/2014 11:00	16,50	555,56	-12,00	510,96	24,00	505,43	5,25	366,59	-3,75	397,50
135	13/05/2014 11:00	15,75	554,81	-12,75	510,21	22,50	503,93	3,75	365,09	-2,25	399,00
136	20/05/2014 11:00	15,00	554,06	-14,25	508,71	21,00	502,43	3,00	364,34	-3,75	397,50
137	29/05/2014 11:00	14,25	553,31	-15,00	507,96	19,50	500,93	2,25	363,59	-5,25	396,00
138	03/06/2014 11:00	12,75	551,81	-16,50	506,46	18,00	499,43	0,75	362,09	-6,75	394,50
139	10/06/2014 11:00	12,00	551,06	-17,25	505,71	17,25	498,68	0,00	361,34	-5,25	396,00
140	19/06/2014 11:00	10,50	549,56	-19,50	503,46	16,50	497,93	0,00	361,34	-6,75	394,50
141	03/07/2014 11:00	9,00	548,06	-18,75	504,21	15,75	497,18	-1,50	359,84	-7,50	393,75
142	10/07/2014 11:00	9,75	548,81	-18,00	504,96	15,00	496,43	-0,75	360,59	-8,25	393,00
143	17/07/2014 11:00	10,50	549,56	-17,25	505,71	14,25	495,68	0,75	362,09	-7,50	393,75
144	24/07/2014 11:00	9,00	548,06	-18,75	504,21	13,50	494,93	-0,75	360,59	-8,25	393,00
145	31/07/2014 12:00	10,50	549,56	-16,50	506,46	15,75	497,18	0,00	361,34	-8,25	393,00
146	21/08/2014 12:00	9,75	548,81	-18,00	504,96	14,25	495,68	-1,50	359,84	-9,00	392,25
147	28/08/2014 12:00	8,25	547,31	-17,25	505,71	13,50	494,93	-0,75	360,59	-9,75	391,50
148	04/09/2014 11:00	7,50	546,56	-18,75	504,21	12,00	493,43	-1,50	359,84	-11,25	390,00
149	11/09/2014 11:00	8,25	547,31	-20,25	502,71	13,50	494,93	0,00	361,34	-10,50	390,75
150	16/09/2014 10:00	7,50	546,56	-19,50	503,46	14,25	495,68	-1,50	359,84	-11,25	390,00
151	01/10/2014 10:00	6,75	545,81	-18,75	504,21	15,00	496,43	-3,00	358,34	-12,00	389,25
152	15/10/2014 10:00	5,25	544,31	-18,00	504,96	14,25	495,68	-4,50	356,84	-12,75	388,50
153	05/11/2014 10:00	3,75	542,81	-17,25	505,71	15,75	497,18	-5,25	356,09	-12,00	389,25
154	19/11/2014 10:00	4,50	543,56	-18,75	504,21	14,25	495,68	-6,00	355,34	-11,25	390,00
155	02/12/2014 10:00	5,25	544,31	-18,00	504,96	13,50	494,93	-4,50	356,84	-10,50	390,75
156	19/12/2014 10:00	7,50	546,56	-15,75	507,21	14,25	495,68	-5,25	356,09	-11,25	390,00
157	22/01/2015 10:00	8,25	547,31	-16,50	506,46	15,75	497,18	-4,50	356,84	-10,50	390,75
158	12/02/2015 10:00	9,00	548,06	-15,00	507,96	18,00	499,43	-3,00	358,34	-9,75	391,50
159	24/02/2015 10:00	8,25	547,31	-17,25	505,71	16,50	497,93	-4,50	356,84	-11,25	390,00
160	11/03/2015 10:00	9,00	548,06	-16,50	506,46	15,75	497,18	-5,25	356,09	-10,50	390,75
161	23/03/2015 10:00	8,25	547,31	-17,25	505,71	13,50	494,93	-7,50	353,84	-11,25	390,00
162	30/03/2015 10:00	9,00	548,06	-15,75	507,21	14,25	495,68	-6,75	354,59	-10,50	390,75
163	08/04/2015 10:00	8,25	547,31	-16,50	506,46	15,00	496,43	-8,25	353,09	-11,25	390,00
164	21/04/2015 10:00	8,25	547,31	-20,25	502,71	13,50	494,93	-9,00	352,34	-9,75	391,50
165	29/04/2015 10:00	9,75	548,81	-16,50	506,46	13,50	494,93	-7,50	353,84	-10,50	390,75
166	06/05/2015 10:00	8,25	547,31	-18,75	504,21	14,25	495,68	-9,75	351,59	-11,25	390,00
167	14/05/2015 10:00	10,50	549,56	-17,25	505,71	15,00	496,43	-9,00	352,34	-10,50	390,75
168	21/05/2015 10:00	8,25	547,31	-19,50	503,46	13,50	494,93	-10,50	350,84	-11,25	390,00
169	09/06/2015 10:00	7,50	546,56	-21,00	501,96	12,00	493,43	-13,50	347,84	-12,75	388,50
170	24/06/2015 10:00	6,75	545,81	-21,75	501,21	11,25	492,68			-10,50	390,75
171	07/07/2015 10:00	6,00	545,06	-22,50	500,46	10,50	491,93			-9,00	392,25
172	06/08/2015 10:00	5,25	544,31	-23,25	499,71	9,75	491,18			-9,75	391,50
173	25/08/2015 11:00	4,50	543,56	-24,00	498,96	9,00	490,43			-10,50	390,75
174	08/09/2015 11:00	3,75	542,81	-24,75	498,21	7,50	488,93			-11,25	390,00
175	22/09/2015 14:00	3,00	542,06	-25,50	497,46	6,00	487,43			-11,25	390,00
176	06/10/2015 14:00	2,25	541,31	-26,25	496,71	5,25	486,68			-12,00	389,25
177	20/10/2015 11:00	1,50	540,56	-27,00	495,96	4,50	485,93			-12,75	388,50
178	27/10/2015 11:00	0,75	539,81	-27,75	495,21	3,00	484,43			-13,50	387,75



SCHEMA UBICAZIONE

Ubicazione STAZIONE CHIAIA
Tipo Strumento Cella di Carico
Posizione \ \ 2° Ordine Di Tiranti
Data posa in opera 02/08/2011
Data lettura di zero 02/08/2011





TABULATI

Ubicazione STAZIONE CHIAIA
Tipo Strumento Cella di Carico
Posizione \ \ Puntoni
Data posa in opera 14/09/2011
Data lettura di zero 14/09/2011

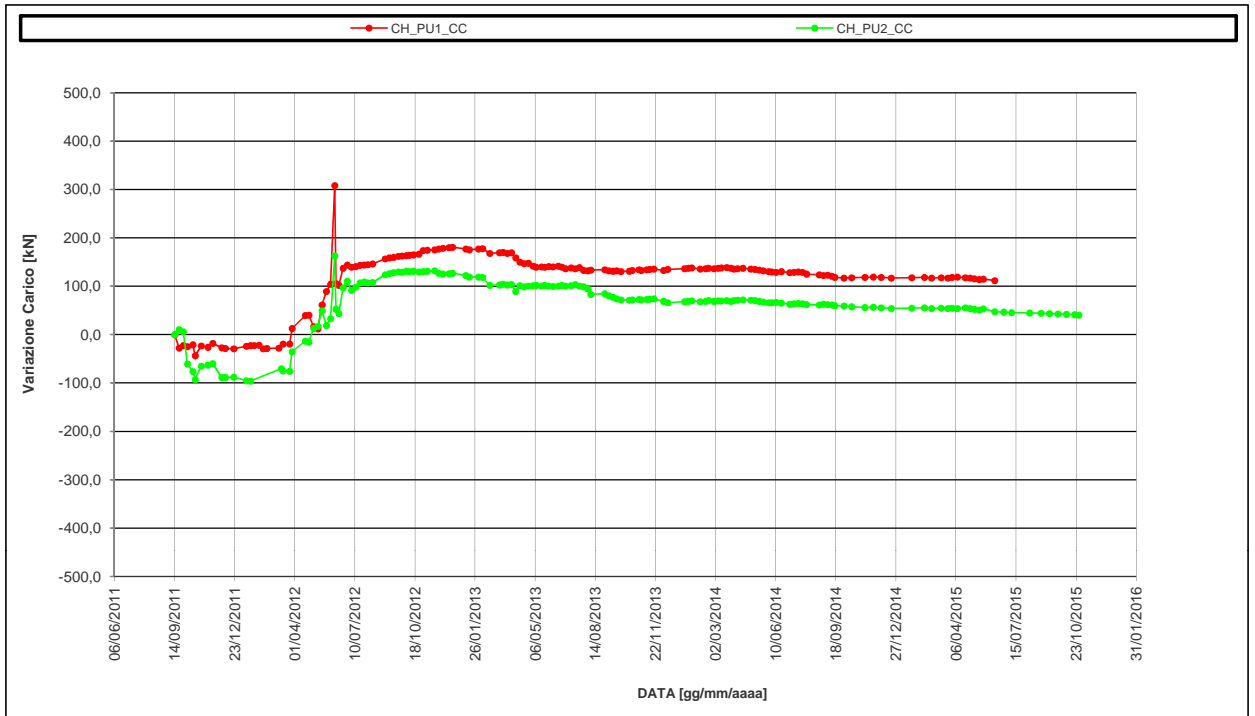
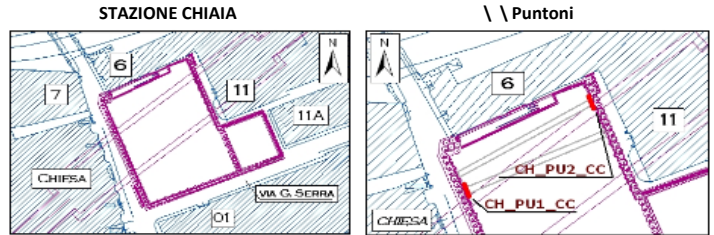
Ultima misura 159 **in data** 27/10/2015


Letture n°	DATA	CH_PU1_CC		CH_PU2_CC	
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107	06/03/2014 11:00	137,22	440,44	69,75	645,79
108	11/03/2014 12:00	137,97	441,19	69,75	645,79
109	20/03/2014 11:00	138,72	441,94	70,50	646,54
110	27/03/2014 14:00	137,22	440,44	69,00	645,04
111	01/04/2014 10:30	135,72	438,94	70,50	646,54
112	07/04/2014 12:00	136,47	439,69	71,25	647,29
113	16/04/2014 12:00	137,22	440,44	72,00	648,04
114	29/04/2014 11:00	135,72	438,94	71,25	647,29
115	06/05/2014 11:30	134,97	438,19	70,50	646,54
116	13/05/2014 11:00	133,48	436,69	69,00	645,04
117	20/05/2014 11:00	131,98	435,19	67,50	643,54
118	29/05/2014 11:00	130,48	433,69	66,00	642,04
119	03/06/2014 11:00	129,73	432,94	66,00	642,04
120	10/06/2014 11:00	128,98	432,19	66,75	642,79
121	19/06/2014 11:00	130,48	433,69	65,25	641,29
122	03/07/2014 11:00	128,23	431,44	63,00	639,04
123	10/07/2014 11:00	128,98	432,19	63,75	639,79
124	17/07/2014 10:00	129,73	432,94	64,50	640,54
125	24/07/2014 11:00	128,98	432,19	63,75	639,79
126	31/07/2014 12:00	125,23	428,44	62,25	638,29
127	21/08/2014 12:00	123,73	426,94	61,50	637,54
128	28/08/2014 12:00	122,23	425,44	63,00	639,04
129	04/09/2014 11:00	122,98	426,19	62,25	638,29
130	11/09/2014 11:00	120,73	423,94	61,50	637,54
131	16/09/2014 10:00	118,48	421,69	60,00	636,04
132	01/10/2014 10:00	116,98	420,19	59,25	635,29
133	14/10/2014 10:00	117,73	420,94	57,75	633,79
134	05/11/2014 10:00	118,48	421,69	56,25	632,29
135	19/11/2014 10:00	119,23	422,44	57,00	633,04
136	02/12/2014 10:00	118,48	421,69	55,50	631,54
137	19/12/2014 10:00	116,98	420,19	54,00	630,04
138	22/01/2015 10:00	117,73	420,94	54,75	630,79
139	12/02/2015 10:00	118,48	421,69	55,50	631,54
140	24/02/2015 10:00	116,98	420,19	54,00	630,04
141	12/03/2015 10:00	117,73	420,94	54,75	630,79
142	23/03/2015 10:00	116,98	420,19	54,00	630,04
143	30/03/2015 10:00	118,48	421,69	54,75	630,79
144	08/04/2015 10:00	119,23	422,44	54,00	630,04
145	21/04/2015 10:00	117,73	420,94	55,50	631,54
146	29/04/2015 10:00	116,98	420,19	54,00	630,04
147	06/05/2015 10:00	115,48	418,69	52,50	628,54
148	14/05/2015 10:00	113,98	417,19	51,00	627,04
149	21/05/2015 10:00	114,73	417,94	53,25	629,29
150	09/06/2015 10:00	111,73	414,94	47,25	623,29
151	24/06/2015 10:00			46,50	622,54
152	07/07/2015 10:00			45,75	621,79
153	06/08/2015 10:00			45,00	621,04
154	25/08/2015 11:00			44,25	620,29
155	08/09/2015 11:00			43,50	619,54
156	22/09/2015 14:00			42,75	618,79
157	06/10/2015 14:00			42,00	618,04
158	20/10/2015 11:00			41,25	617,29
159	27/10/2015 11:00			40,50	616,54



SCHEMA UBICAZIONE

Ubicazione STAZIONE CHIAIA
Tipo Strumento Cella di Carico
Posizione \ \ Puntoni
Data posa in opera 14/09/2011
Data lettura di zero 14/09/2011



 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p><i>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO</i></p> <p><i>REPORT DELLE MISURE - STAZIONE CHIAIA</i></p>	<p>LM6 7FX 2C I 46 Data: 30/10/15 Metropolit. di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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10. MISURE TOPOGRAFICHE – MIRE OTTICHE

Le Mire Ottiche, installate in prossimità delle travi di distribuzione dei carichi, che collegano i tiranti in testa, permettono di controllare in tali aree l'influenza delle lavorazioni, registrando eventuali variazioni di quota e spostamenti sul piano orizzontale. La misurazione verrà effettuata tramite Teodolite dall'ATI.


 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO REPORT DELLE MISURE - STAZIONE CHIAIA</p>	<p>LM6 7FX 2C I 46 Data: 30/10/15 Metropolit. di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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Tabelle riepilogative per le Mire Ottiche installate in cantiere. Tabella Mire Ottiche Primo Ordine di Tiranti

NOME	TIPOLOGIA STRUMENTO	DATA INSTALLAZIONE	DISPONIBILITA' LETTURA			NOTE
			DATA LETTURA DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
CH_MO1	M. OTTICHE		13/09/11			
CH_MO2	M. OTTICHE		13/09/11			
CH_MO3	M. OTTICHE		15/07/11			
CH_MO4	M. OTTICHE		15/07/11			
CH_MO5	M. OTTICHE		15/07/11			
CH_MO6	M. OTTICHE		15/07/11			
CH_MO7	M. OTTICHE		15/07/11			
CH_MO8	M. OTTICHE		15/07/11			
CH_MO9	M. OTTICHE		15/07/11			
CH_MO10	M. OTTICHE		15/07/11			
CH_MO11	M. OTTICHE		15/07/11	05/03/13 – 28/03/13		
CH_MO12	M. OTTICHE		15/07/11	05/03/13 – 28/03/13		
CH_MO13	M. OTTICHE		15/07/11			
CH_MO14	M. OTTICHE		19/07/11			
CH_MO15	M. OTTICHE		06/09/11			
CH_MO16	M. OTTICHE		06/09/11			

Tabella Mire Ottiche Secondo Ordine di Tiranti

NOME	TIPOLOGIA STRUMENTO	DATA INSTALLAZIONE	DISPONIBILITA' LETTURA			NOTE
			DATA LETTURA DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
CH_MO17	M. OTTICHE		17/04/12		21/08/15	(*)
CH_MO18	M. OTTICHE		17/04/12	28/02/14 - 23/07/14	21/08/15	(*)
CH_MO19	M. OTTICHE		15/11/11			
CH_MO20	M. OTTICHE		15/11/11			
CH_MO21	M. OTTICHE		02/08/11			
CH_MO22	M. OTTICHE		02/08/11			
CH_MO23	M. OTTICHE		02/08/11			
CH_MO24	M. OTTICHE		02/08/11			
CH_MO25	M. OTTICHE		25/07/11			
CH_MO26	M. OTTICHE		25/07/11			
CH_MO27	M. OTTICHE		24/08/11	05/03/13 – 28/03/13		
CH_MO28	M. OTTICHE		24/08/11	05/03/13 – 28/03/13		
CH_MO29	M. OTTICHE		24/08/11			
CH_MO30	M. OTTICHE		24/08/11			
CH_MO31	M. OTTICHE		29/11/11	06/03/14 – 23/07/14		
CH_MO32	M. OTTICHE		29/11/11			

(*) al presente Report non ci sono misure da consegnare per lo strumento



 <p>Ansaldo STS A Finmeccanica Company</p>	<p>LINEA 6 METROPOLITANA DI NAPOLI - PROGETTO ESECUTIVO</p> <p>OPERE CIVILI - MONITORAGGIO GEOTECNICO GEOREFERENZIATO REPORT DELLE MISURE - STAZIONE CHIAIA</p>	<p>LM6 7FX 2C I 46 Data: 30/10/15 Metropolit. di Napoli A.T.I. LM6 TreEsse Engineering S.r.l.</p>
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Tabella Mire Ottiche Terzo e Quarto Ordine – Tufo e Mire Ottiche Supplementari

NOME	TIPOLOGIA STRUMENTO	DATA INSTALLAZIONE	DISPONIBILITA' LETTURA			NOTE
			DATA LETTURA DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
CH_MO33	M. OTTICHE		12/07/12		12/12/14	RIMOSSA
CH_MO34	M. OTTICHE		18/07/12		28/11/14	RIMOSSA
CH_MO35	M. OTTICHE		13/09/12		28/11/14	RIMOSSA
CH_MO36	M. OTTICHE		13/09/12		27/02/13	SOSTITUITA
CH_MO36A	M. OTTICHE		28/03/13		28/11/14	RIMOSSA
CH_MO37	M. OTTICHE		18/09/12		13/06/13	SOSTITUITA
CH_MO37A	M. OTTICHE		01/07/13		28/11/14	RIMOSSA
CH_MO38	M. OTTICHE		07/02/13		28/11/14	RIMOSSA
CH_MO39	M. OTTICHE		07/02/13		28/11/14	RIMOSSA
CH_MO40	M. OTTICHE		14/02/13		07/11/13	DIVELTA
CH_MO41	M. OTTICHE		05/03/13		28/11/14	RIMOSSA
CH_MO42	M. OTTICHE		05/03/13		28/11/14	RIMOSSA
CH_MO43	M. OTTICHE		05/03/13		31/10/13	DIVELTA
CH_MO44	M. OTTICHE		05/03/13		28/08/13	DIVELTA
CH_MO45	M. OTTICHE		28/03/13		15/01/14	DIVELTA
CH_MO46	M. OTTICHE		28/03/13		26/01/15	RIMOSSA
CH_MO47	M. OTTICHE		28/03/13		26/01/15	RIMOSSA
CH_MO48	M. OTTICHE		28/03/13		28/11/14	RIMOSSA
CH_MO49	M. OTTICHE		28/03/13		28/11/14	RIMOSSA
CH_MO50	M. OTTICHE		28/03/13		21/08/15	RIMOSSA
CH_MO51	M. OTTICHE		03/04/13		28/10/14	DIVELTA
CH_MO52	M. OTTICHE		28/03/13		21/08/15	RIMOSSA
CH_MO53	M. OTTICHE		28/03/13	28/02/14 – 23/07/14	21/08/15	RIMOSSA
CH_MO54	M. OTTICHE		28/03/13		12/02/15	RIMOSSA
CH_MO55	M. OTTICHE		28/03/13		29/12/14	RIMOSSA
CH_MO56	M. OTTICHE		28/03/13		26/01/15	RIMOSSA
CH_MO57	M. OTTICHE		28/03/13		26/01/15	RIMOSSA
CH_MO58	M. OTTICHE		28/03/13		28/11/14	RIMOSSA
CH_MO59	M. OTTICHE		28/03/13		28/11/14	RIMOSSA
CH_MO60	M. OTTICHE		28/03/13		29/12/14	RIMOSSA
CH_MO61	M. OTTICHE		28/03/13	Dal 28/02/14	29/12/14	RIMOSSA
CH_MO62	M. OTTICHE		28/03/13		12/02/15	RIMOSSA
CH_MO63	M. OTTICHE		28/03/13		12/12/14	RIMOSSA
CH_MO64	M. OTTICHE		28/03/13		12/12/14	RIMOSSA
CH_MO65	M. OTTICHE		06/02/14		24/03/14	DIVELTA
CH_MO66	M. OTTICHE		06/02/14		16/09/14	RIMOSSA
CH_MO67	M. OTTICHE		06/02/14		16/09/14	RIMOSSA
CH_MO68	M. OTTICHE		06/02/14		16/09/14	RIMOSSA

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NOME	TIPOLOGIA STRUMENTO	DATA INSTALLAZIONE	DISPONIBILITA' LETTURA			NOTE
			DATA LETTURA DI ZERO	PERIODO INTERRUZIONE	DATA FINE ATTIVITA'	
CH_MO69	M. OTTICHE		06/02/14		16/09/14	RIMOSSA
CH_MO70	M. OTTICHE		06/02/14		16/09/14	RIMOSSA
CH_MO71	M. OTTICHE		12/02/14		16/09/14	RIMOSSA
CH_MO72	M. OTTICHE		28/02/14		16/09/14	RIMOSSA
CH_MO73	M. OTTICHE		06/03/14		16/09/14	RIMOSSA
CH_MO74	M. OTTICHE		06/03/14		16/09/14	RIMOSSA

(*) al presente Report non ci sono misure da consegnare per lo strumento



Ubicazione STAZIONE CHIAIA

Opera \ \ Ordine di Tiranti \ 01-04

Tipo Strumento Mire Ottiche

Data posa in opera 13/09/2011

Data lettura di zero 13/09/2011

Ultima Misura 158 in data 27/10/2015

Letto. n°	DATA	CH_M01					CH_M02					CH_M03					CH_M04				
		Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]
68	23/04/2013 08:30	13.0	34.7	1.0	-2.0	-2.0	13.0	34.7	1.0	-3.0	-2.0	13.0	33.0	2.0	-4.0	-2.0	13.0	32.9	1.0	-2.0	-1.0
69	03/05/2013 14:30	25.0	34.7	2.0	0.0	0.0	25.0	34.7	1.0	-1.0	-1.0	25.0	33.0	3.0	-3.0	-3.0	25.0	32.9	2.0	-2.0	-1.0
70	09/05/2013 08:30	18.0	34.7	2.0	0.0	0.0	18.0	34.7	2.0	-2.0	0.0	18.0	33.0	3.0	-3.0	-2.0	18.0	32.9	2.0	-3.0	-1.0
71	15/05/2013 14:30	21.0	34.7	2.0	0.0	-2.0	21.0	34.7	1.0	-2.0	-2.0	21.0	33.0	2.0	-3.0	-3.0	21.0	32.9	3.0	-3.0	-2.0
72	22/05/2013 08:30	19.0	34.7	2.0	0.0	-2.0	19.0	34.7	1.0	-2.0	-2.0	19.0	33.0	2.0	-2.0	-3.0	19.0	32.9	3.0	-2.0	-1.0
73	31/05/2013 15:30	18.0	34.7	2.0	0.0	-2.0	18.0	34.7	2.0	-2.0	-2.0	18.0	33.0	3.0	-4.0	-4.0	18.0	32.9	2.0	-3.0	-2.0
74	07/06/2013 08:30	21.0	34.7	2.0	-1.0	-2.0	21.0	34.7	2.0	-1.0	-1.0	21.0	33.0	3.0	-2.0	-3.0	21.0	32.9	2.0	-3.0	-1.0
75	13/06/2013 14:30	28.0	34.7	3.0	0.0	-2.0	28.0	34.7	3.0	1.0	-2.0	28.0	33.0	4.0	-1.0	-3.0	28.0	32.9	3.0	-1.0	-2.0
76	18/06/2013 09:00	28.0	34.7	1.0	0.0	-1.0	28.0	34.7	2.0	0.0	-1.0	28.0	33.0	2.0	-2.0	-3.0	28.0	32.9	2.0	-2.0	-1.0
77	25/06/2013 18:00	28.0	34.7	2.0	1.0	-1.0	28.0	34.7	1.0	-1.0	-1.0	28.0	33.0	3.0	-1.0	-2.0	28.0	32.9	3.0	-3.0	-1.0
78	01/07/2013 07:30	22.0	34.7	2.0	0.0	-1.0	22.0	34.7	2.0	-1.0	-1.0	22.0	33.0	3.0	-2.0	-3.0	22.0	32.9	2.0	-2.0	-1.0
79	08/07/2013 17:30	25.0	34.7	2.0	1.0	-1.0	25.0	34.7	2.0	0.0	0.0	25.0	33.0	3.0	-2.0	-2.0	25.0	32.9	3.0	-1.0	-1.0
80	13/07/2013 07:30	25.0	34.7	2.0	-1.0	-1.0	25.0	34.7	2.0	-1.0	-1.0	25.0	33.0	3.0	-3.0	-1.0	25.0	32.9	3.0	-3.0	0.0
81	18/07/2013 07:30	25.0	34.7	3.0	0.0	-1.0	25.0	34.7	3.0	-1.0	-2.0	25.0	33.0	4.0	-3.0	-3.0	25.0	32.9	3.0	-3.0	-1.0
82	25/07/2013 18:00	27.0	34.7	3.0	0.0	-1.0	27.0	34.7	2.0	-1.0	-1.0	27.0	33.0	3.0	-2.0	-1.0	27.0	32.9	2.0	-2.0	0.0
83	31/07/2013 09:00	27.0	34.7	3.0	0.0	0.0	27.0	34.7	3.0	-1.0	-1.0	27.0	33.0	3.0	-3.0	-2.0	27.0	32.9	3.0	-2.0	0.0
84	07/08/2013 09:00	29.0	34.7	3.0	0.0	1.0	29.0	34.7	3.0	-1.0	0.0	29.0	33.0	3.0	-2.0	-2.0	29.0	32.9	2.0	-2.0	0.0
85	13/08/2013 09:00	27.0	34.7	2.0	0.0	1.0	27.0	34.7	2.0	0.0	1.0	27.0	33.0	2.0	-1.0	-1.0	27.0	32.9	1.0	-2.0	0.0
86	21/08/2013 07:30	23.0	34.7	2.0	0.0	0.0	23.0	34.7	2.0	0.0	-1.0	23.0	33.0	2.0	-1.0	-3.0	23.0	32.9	2.0	-2.0	0.0
87	28/08/2013 10:30	25.0	34.7	3.0	0.0	-1.0	25.0	34.7	3.0	-1.0	-1.0	25.0	33.0	2.0	-3.0	-2.0	25.0	32.9	2.0	-1.0	-1.0
88	06/09/2013 17:30	29.0	34.7	3.0	0.0	0.0	29.0	34.7	2.0	0.0	-1.0	29.0	33.0	2.0	-1.0	-2.0	29.0	32.9	2.0	-2.0	-1.0
89	13/09/2013 07:30	18.0	34.7	3.0	0.0	-1.0	18.0	34.7	3.0	-1.0	-1.0	18.0	33.0	3.0	-2.0	-3.0	18.0	32.9	2.0	-1.0	-1.0
90	21/09/2013 09:30	21.0	34.7	3.0	0.0	-2.0	21.0	34.7	3.0	-1.0	-2.0	21.0	33.0	2.0	-2.0	-2.0	21.0	32.9	2.0	-3.0	-1.0
91	26/09/2013 09:30	18.0	34.7	3.0	0.0	0.0	18.0	34.7	3.0	-2.0	-2.0	18.0	33.0	2.0	-2.0	-2.0	18.0	32.9	2.0	-2.0	0.0
92	03/10/2013 16:30	20.0	34.7	3.0	0.0	-1.0	20.0	34.7	3.0	0.0	-1.0	20.0	33.0	2.0	-1.0	-3.0	20.0	32.9	2.0	-2.0	-1.0
93	10/10/2013 08:30	16.0	34.7	3.0	0.0	-1.0	16.0	34.7	3.0	-1.0	-1.0	16.0	33.0	2.0	-1.0	-1.0	16.0	32.9	2.0	-1.0	1.0
94	16/10/2013 14:30	23.0	34.7	3.0	0.0	0.0	23.0	34.7	3.0	-1.0	-1.0	23.0	33.0	2.0	-3.0	-2.0	23.0	32.9	2.0	-3.0	0.0
95	24/10/2013 08:30	18.0	34.7	3.0	2.0	0.0	18.0	34.7	3.0	-1.0	-1.0	18.0	33.0	2.0	-2.0	-1.0	18.0	32.9	2.0	-1.0	1.0
96	31/10/2013 14:30	23.0	34.7	3.0	1.0	-1.0	23.0	34.7	3.0	0.0	0.0	23.0	33.0	2.0	-2.0	-1.0	23.0	32.9	2.0	-2.0	0.0
97	07/11/2013 08:30	11.0	34.7	3.0	1.0	0.0	11.0	34.7	3.0	0.0	0.0	11.0	33.0	2.0	-2.0	-1.0	11.0	32.9	2.0	-1.0	0.0
98	14/11/2013 14:30	20.0	34.7	3.0	1.0	0.0	20.0	34.7	3.0	0.0	0.0	20.0	33.0	2.0	-2.0	-2.0	20.0	32.9	2.0	-1.0	1.0
99	25/11/2013 15:30	12.0	34.7	3.0	1.0	-1.0	12.0	34.7	3.0	-1.0	-1.0	12.0	33.0	3.0	-3.0	-1.0	12.0	32.9	2.0	-1.0	1.0
100	30/11/2013 08:30	7.0	34.7	3.0	1.0	-1.0	7.0	34.7	3.0	0.0	-1.0	7.0	33.0	3.0	-1.0	-2.0	7.0	32.9	2.0	-1.0	0.0
101	05/12/2013 08:30	7.0	34.7	3.0	1.0	0.0	7.0	34.7	3.0	0.0	0.0	7.0	33.0	2.0	-2.0	-2.0	7.0	32.9	2.0	-1.0	-1.0
102	19/12/2013 13:00	8.0	34.7	2.0	0.0	1.0	8.0	34.7	2.0	-2.0	0.0	8.0	33.0	1.0	-1.0	-1.0	8.0	32.9	1.0	-2.0	1.0
103	27/12/2013 09:00	8.0	34.7	3.0	-1.0	1.0	8.0	34.7	2.0	-3.0	0.0	8.0	33.0	0.0	-1.0	-2.0	8.0	32.9	0.0	-3.0	0.0
104	02/01/2014 07:30	14.0	34.7	2.0	-1.0	2.0	14.0	34.7	2.0	-2.0	0.0	14.0	33.0	0.0	-2.0	-1.0	14.0	32.9	1.0	-3.0	0.0
105	08/01/2014 14:30	14.0	34.7	3.0	0.0	-2.0	14.0	34.7	3.0	-1.0	-1.0	14.0	33.0	2.0	0.0	-2.0	14.0	32.9	1.0	-1.0	0.0
106	15/01/2014 08:30	11.0	34.7	3.0	3.0	0.0	11.0	34.7	3.0	-1.0	-1.0	11.0	33.0	2.0	0.0	-2.0	11.0	32.9	1.0	-1.0	-1.0
107	22/01/2014 14:30	12.0	34.7	4.0	2.0	0.0	12.0	34.7	3.0	1.0	-1.0	12.0	33.0	3.0	-1.0	-1.0	12.0	32.9	2.0	-2.0	0.0
108	29/01/2014 08:30	7.0	34.7	2.0	1.0	1.0	7.0	34.7	2.0	-1.0	-1.0	7.0	33.0	2.0	-3.0	-1.0	7.0	32.9	1.0	-2.0	0.0
109	06/02/2014 14:30	14.0	34.7	3.0	2.0	0.0	14.0	34.7	3.0	-1.0	-1.0	14.0	33.0	2.0	-2.0	-2.0	14.0	32.9	1.0	-2.0	-1.0
110	12/02/2014 08:30	11.0	34.7	4.0	1.0	-1.0	11.0	34.7	3.0	0.0	-2.0	11.0	33.0	2.0	-2.0	-2.0	11.0	32.9	2.0	-1.0	0.0
111	19/02/2014 14:30	18.0	34.7	3.0	1.0	-1.0	18.0	34.7	3.0	0.0	-1.0	18.0	33.0	2.0	-1.0	-1.0	18.0	32.9	2.0	-1.0	1.0
112	28/02/2014 08:30	12.0	34.7	3.0	1.0	0.0	12.0	34.7	3.0	0.0	-1.0	12.0	33.0	2.0	-3.0	-4.0	12.0	32.9	2.0	-3.0	-1.0
113	06/03/2014 16:30	15.0	34.7	3.0	0.0	-2.0	15.0	34.7	3.0	0.0	0.0	15.0	33.0	2.0	0.0	-2.0	15.0	32.9	2.0	-1.0	-1.0
114	10/03/2014 08:30	10.0	34.7	3.0	0.0	-1.0	10.0	34.7	3.0	0.0	-1.0	10.0	33.0	2.0	-1.0	-2.0	10.0	32.9	2.0	-1.0	0.0
115	17/03/2014 15:30	15.0	34.7	3.0	0.0	-3.0	15.0	34.7	3.0	0.0	-1.0	15.0	33.0	2.0	-2.0	-3.0	15.0	32.9	2.0	-2.0	-2.0
116	24/03/2014 08:30	10.0	34.7	3.0	1.0	-1.0	10.0	34.7	3.0	0.0	-1.0	10.0	33.0	2.0	-1.0	-2.0	10.0	32.9	2.0	-1.0	0.0
117	01/04/2014 18:30	15.0	34.7	3.0	0.0	-2.0	15.0	34.7	3.0	0.0	-1.0	15.0	33.0	2.0	-2.0	-3.0	15.0	32.9	2.0	-2.0	-1.0
118	09/04/2014 08:30	15.0	34.7	3.0	1.0	-1.0	15.0	34.7	3.0	-1.0	-2.0	15.0	33.0	2.0	-2.0	-3.0	15.0	32.9	2.0	-2.0	-1.0
119	16/04/2014 08:30	10.0	34.7	3.0	0.0	0.0	10.0	34.7	3.0	-1.0	-1.0	10.0	33.0	2.0	-1.0	-3.0	10.0	32.9	1.0	-1.0	0.0
120	24/04/2014 08:30	15.0	34.7	3.0	1.0	-2.0	15.0	34.7	3.0	1.0	-1.0	15.0	33.0	2.0	-2.0	-4.0	15.0	32.9	1.0	-2.0	-1.0
121	06/05/2014 08:30	15.0	34.7	3.0	0.0	-1.0	15.0	34.7	3.0	1.0	0.0	15.0	33.0	2.0	-2.0	-2.0	15.0	32.9	1.0	-2.0	0.0
122	13/05/2014 08:30	18.0	34.7	3.0	0.0	-1.0	18.0	34.7	3.0	-1.0	-1.0	18.0	33.0	2.0	-1.0	-2.0	18.0	32.9	1.0	-1.0	-1.0
123	22/05/2014 08:30	20.0	34.7	3.0	1.0	-1.0	20.0	34.7	3.0	0.0	0.0	20.0	33.0	2.0	-2.0	-2.0	20.0	32.9	1.0	-1.0	-1.0
124	29/05/2014 08:30	18.0	34.7	3.0	0.0	0.0	18.0	34.7	3.0												



Ubicazione STAZIONE CHIAIA
Opera \ \ I Ordine di Tiranti \ 01-
Tipo Strumento Mire Ottiche
Data posa in opera 13/09/2011
Data lettura di zero 13/09/2011

GRAFICO QUOTA

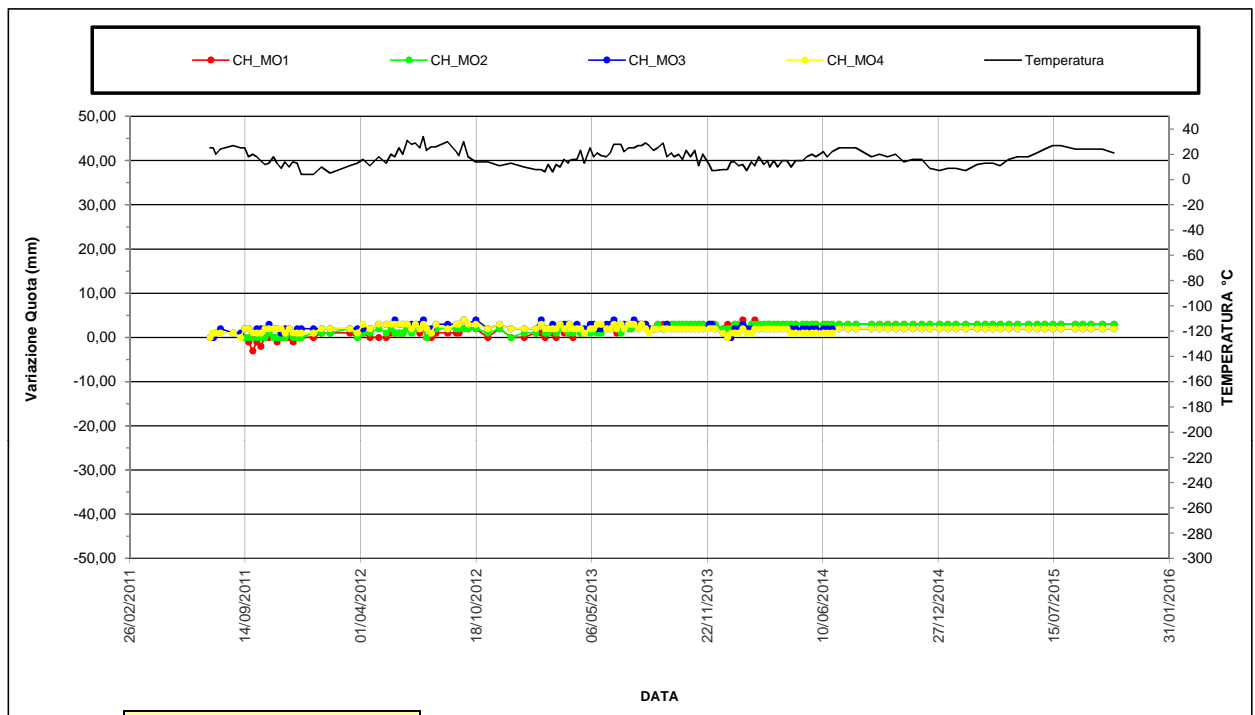
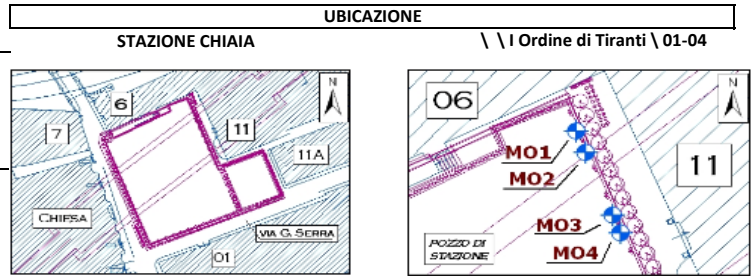
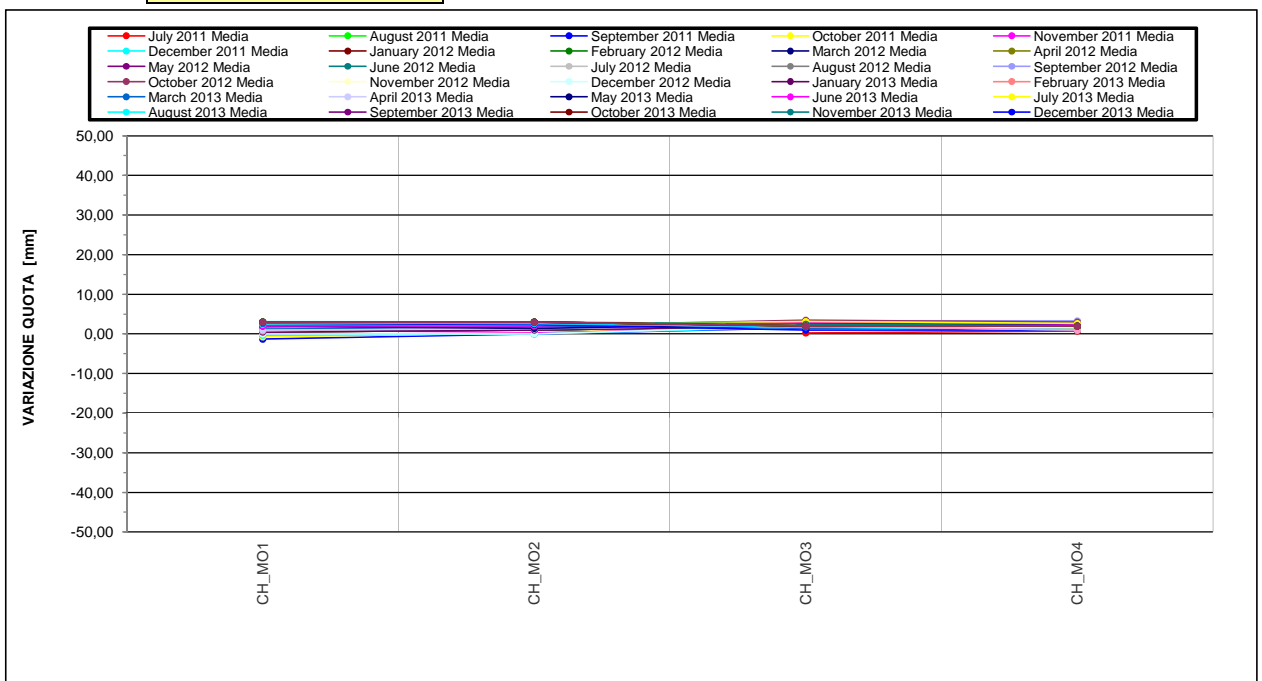


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ I Ordine di Tiranti \ 01-
Tipo Strumento Mire Ottiche
Data posa in opera 13/09/2011
Data lettura di zero 13/09/2011

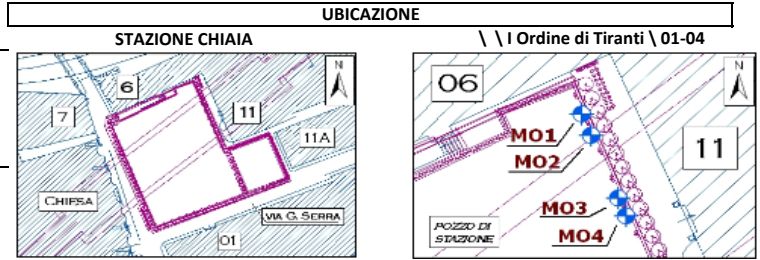


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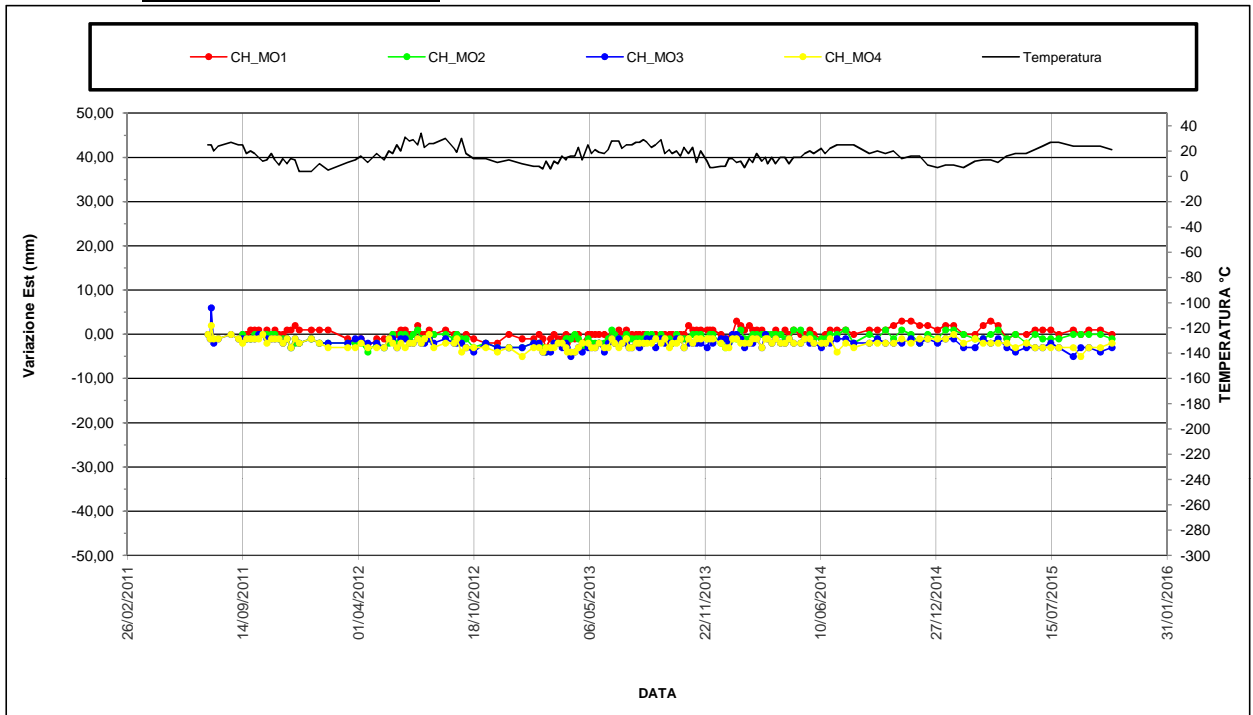
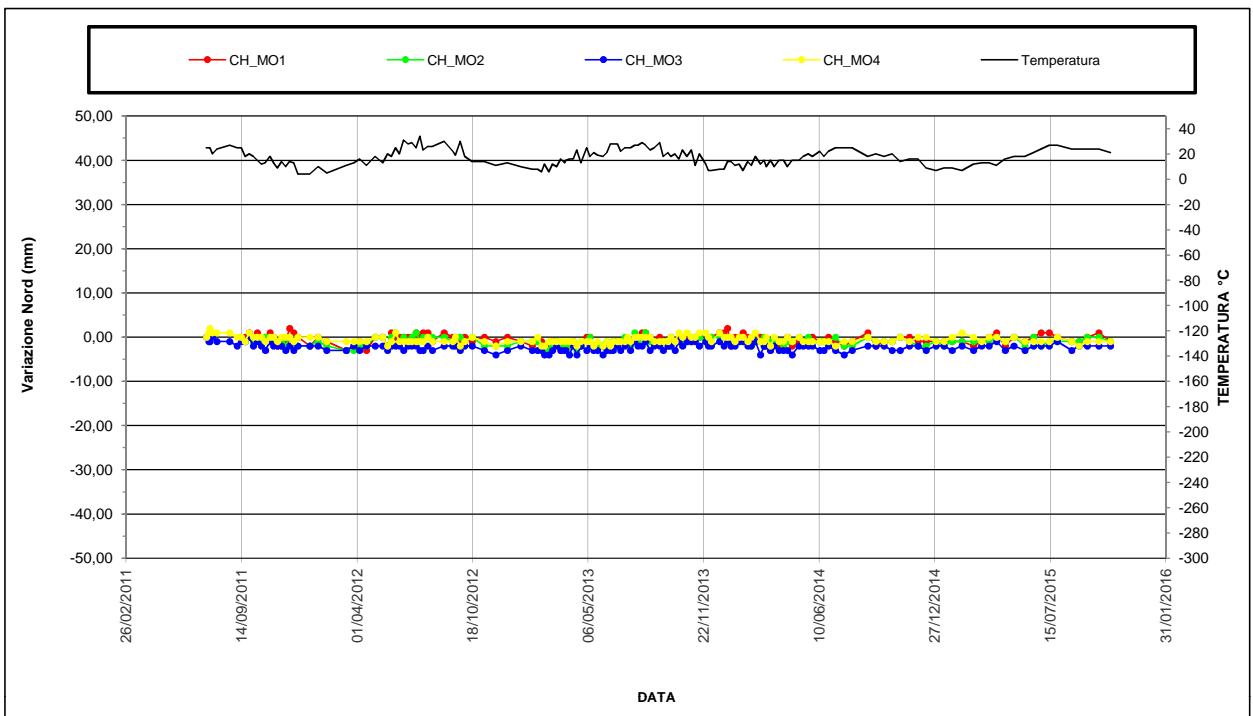


GRAFICO NORD





Ubicazione **STAZIONE CHIAIA**

Opera \ \ Ordine di Tiranti \ 05-08

Tipo Strumento **Mire Ottiche**

Data posa in opera **15/07/2011**

Data lettura di zero **15/07/2011**

Ultima Misura **157** in data **27/10/2015**

Letto. n°	DATA	CH_M05					CH_M06					CH_M07					CH_M08				
		Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]
67	23/04/2013 08:30	13.0	33.2	2.0	0.0	5.0	13.0	33.2	1.0	0.0	6.0	13.0	33.1	-2.0	-5.0	2.0	13.0	33.1	-3.0	-6.0	3.0
68	03/05/2013 14:30	25.0	33.2	2.0	3.0	5.0	25.0	33.2	1.0	3.0	6.0	25.0	33.1	-2.0	-4.0	1.0	25.0	33.1	-1.0	-5.0	2.0
69	09/05/2013 08:30	18.0	33.2	2.0	-2.0	5.0	18.0	33.2	1.0	0.0	6.0	18.0	33.1	-1.0	-4.0	2.0	18.0	33.1	-1.0	-5.0	3.0
70	15/05/2013 14:30	21.0	33.2	1.0	3.0	5.0	21.0	33.2	2.0	1.0	6.0	21.0	33.1	-1.0	-6.0	-1.0	21.0	33.1	0.0	-7.0	0.0
71	22/05/2013 08:30	19.0	33.2	1.0	1.0	5.0	19.0	33.2	2.0	2.0	5.0	19.0	33.1	-2.0	-7.0	2.0	19.0	33.1	-2.0	-7.0	2.0
72	31/05/2013 15:30	16.0	33.2	2.0	0.0	3.0	16.0	33.2	3.0	-1.0	4.0	16.0	33.1	-3.0	-5.0	4.0	16.0	33.1	-2.0	-6.0	4.0
73	07/06/2013 08:30	21.0	33.2	1.0	0.0	4.0	21.0	33.2	1.0	1.0	6.0	21.0	33.1	-2.0	-6.0	1.0	21.0	33.1	-2.0	-6.0	2.0
74	13/06/2013 14:30	28.0	33.2	2.0	4.0	4.0	28.0	33.2	2.0	3.0	6.0	28.0	33.1	-1.0	-6.0	2.0	28.0	33.1	0.0	-6.0	3.0
75	18/06/2013 09:00	28.0	33.2	1.0	2.0	5.0	28.0	33.2	1.0	2.0	7.0	28.0	33.1	-1.0	-6.0	3.0	28.0	33.1	0.0	-7.0	3.0
76	25/06/2013 18:00	28.0	33.2	2.0	3.0	6.0	28.0	33.2	2.0	3.0	6.0	28.0	33.1	-1.0	-6.0	2.0	28.0	33.1	0.0	-7.0	4.0
77	01/07/2013 07:30	22.0	33.2	2.0	4.0	6.0	22.0	33.2	2.0	3.0	6.0	22.0	33.1	0.0	-8.0	0.0	22.0	33.1	0.0	-8.0	2.0
78	08/07/2013 17:30	25.0	33.2	2.0	3.0	5.0	25.0	33.2	1.0	0.0	6.0	25.0	33.1	1.0	-10.0	0.0	25.0	33.1	1.0	-10.0	0.0
79	13/07/2013 07:30	25.0	33.2	4.0	2.0	5.0	25.0	33.2	1.0	-1.0	8.0	25.0	33.1	-1.0	-9.0	2.0	25.0	33.1	0.0	-9.0	3.0
80	18/07/2013 07:30	25.0	33.2	3.0	2.0	5.0	25.0	33.2	1.0	-1.0	7.0	25.0	33.1	1.0	-8.0	2.0	25.0	33.1	2.0	-8.0	3.0
81	25/07/2013 18:00	27.0	33.2	3.0	4.0	5.0	27.0	33.2	1.0	0.0	8.0	27.0	33.1	0.0	-8.0	1.0	27.0	33.1	0.0	-8.0	3.0
82	31/07/2013 09:00	27.0	33.2	3.0	3.0	6.0	27.0	33.2	1.0	0.0	9.0	27.0	33.1	0.0	-7.0	2.0	27.0	33.1	1.0	-7.0	5.0
83	07/08/2013 09:00	29.0	33.2	2.0	3.0	6.0	29.0	33.2	0.0	0.0	9.0	29.0	33.1	0.0	-7.0	2.0	29.0	33.1	1.0	-7.0	3.0
84	13/08/2013 09:00	27.0	33.2	2.0	3.0	5.0	27.0	33.2	0.0	0.0	8.0	27.0	33.1	-1.0	-7.0	2.0	27.0	33.1	0.0	-8.0	2.0
85	21/08/2013 07:30	23.0	33.2	5.0	4.0	6.0	23.0	33.2	2.0	1.0	9.0	23.0	33.1	0.0	-7.0	2.0	23.0	33.1	0.0	-8.0	3.0
86	28/08/2013 10:30	25.0	33.2	4.0	4.0	5.0	25.0	33.2	2.0	1.0	8.0	25.0	33.1	1.0	-9.0	5.0	25.0	33.1	1.0	-10.0	5.0
87	06/09/2013 17:30						29.0	33.2	2.0	2.0	7.0	29.0	33.1	0.0	-8.0	2.0	29.0	33.1	1.0	-9.0	4.0
88	13/09/2013 07:30	18.0	33.2	4.0	7.0	9.0	18.0	33.2	2.0	2.0	9.0	18.0	33.1	0.0	-7.0	2.0	18.0	33.1	1.0	-8.0	4.0
89	21/09/2013 09:30	21.0	33.2	4.0	6.0	7.0	21.0	33.2	3.0	0.0	7.0	21.0	33.1	0.0	-8.0	3.0	21.0	33.1	0.0	-8.0	4.0
90	26/09/2013 09:30	18.0	33.2	4.0	5.0	6.0	18.0	33.2	2.0	1.0	8.0	18.0	33.1	0.0	-9.0	2.0	18.0	33.1	0.0	-10.0	3.0
91	03/10/2013 16:30	20.0	33.2	4.0	7.0	4.0	20.0	33.2	2.0	3.0	7.0	20.0	33.1	1.0	-8.0	5.0	20.0	33.1	1.0	-8.0	5.0
92	10/10/2013 08:30	16.0	33.2	4.0	6.0	7.0	16.0	33.2	3.0	2.0	10.0	16.0	33.1	0.0	-9.0	3.0	16.0	33.1	1.0	-9.0	4.0
93	16/10/2013 14:30	23.0	33.2	4.0	2.0	6.0	23.0	33.2	2.0	0.0	9.0	23.0	33.1	-2.0	-9.0	3.0	23.0	33.1	-1.0	-9.0	5.0
94	24/10/2013 08:30	18.0	33.2	4.0	3.0	6.0	18.0	33.2	2.0	2.0	9.0	18.0	33.1	-2.0	-8.0	3.0	18.0	33.1	-1.0	-8.0	4.0
95	31/10/2013 14:30	23.0	33.2	5.0	4.0	6.0	23.0	33.2	3.0	2.0	9.0	23.0	33.1	-2.0	-9.0	3.0	23.0	33.1	-1.0	-9.0	3.0
96	07/11/2013 08:30	11.0	33.2	5.0	2.0	6.0	11.0	33.2	3.0	-1.0	9.0	11.0	33.1	-2.0	-9.0	2.0	11.0	33.1	-1.0	-9.0	3.0
97	14/11/2013 14:30	20.0	33.2	5.0	4.0	7.0	20.0	33.2	3.0	2.0	11.0	20.0	33.1	-1.0	-9.0	3.0	20.0	33.1	0.0	-10.0	5.0
98	25/11/2013 15:30	12.0	33.2	5.0	4.0	7.0	12.0	33.2	3.0	1.0	11.0	12.0	33.1	-1.0	-8.0	2.0	12.0	33.1	0.0	-8.0	3.0
99	30/11/2013 08:30	7.0	33.2	5.0	6.0	7.0	7.0	33.2	3.0	3.0	11.0	7.0	33.1	-1.0	-7.0	4.0	7.0	33.1	-1.0	-9.0	3.0
100	05/12/2013 08:30	7.0	33.2	5.0	3.0	6.0	7.0	33.2	3.0	1.0	10.0	7.0	33.1	-1.0	-9.0	4.0	7.0	33.1	0.0	-9.0	5.0
101	19/12/2013 13:00	8.0	33.2	5.0	1.0	4.0	8.0	33.2	3.0	1.0	10.0	8.0	33.1	-2.0	-8.0	4.0	8.0	33.1	-2.0	-8.0	3.0
102	27/12/2013 09:00	8.0	33.2	5.0	0.0	2.0	8.0	33.2	3.0	2.0	9.0	8.0	33.1	-3.0	-7.0	5.0	8.0	33.1	-3.0	-8.0	3.0
103	02/01/2014 07:30	14.0	33.2	5.0	0.0	2.0	14.0	33.2	3.0	2.0	8.0	14.0	33.1	-2.0	-7.0	5.0	14.0	33.1	-3.0	-9.0	3.0
104	08/01/2014 14:30	14.0	33.2	5.0	6.0	7.0	14.0	33.2	3.0	4.0	9.0	14.0	33.1	-1.0	-10.0	4.0	14.0	33.1	-2.0	-10.0	4.0
105	15/01/2014 08:30	11.0	33.2	6.0	6.0	7.0	11.0	33.2	3.0	2.0	9.0	11.0	33.1	-1.0	-10.0	2.0	11.0	33.1	0.0	-10.0	3.0
106	22/01/2014 14:30	12.0	33.2	6.0	4.0	7.0	12.0	33.2	3.0	1.0	10.0	12.0	33.1	-1.0	-10.0	3.0	12.0	33.1	-1.0	-10.0	3.0
107	29/01/2014 08:30	7.0	33.2	5.0	3.0	7.0	7.0	33.2	2.0	0.0	10.0	7.0	33.1	-1.0	-9.0	2.0	7.0	33.1	0.0	-9.0	4.0
108	06/02/2014 14:30	14.0	33.2	5.0	5.0	6.0	14.0	33.2	2.0	1.0	10.0	14.0	33.1	-2.0	-10.0	6.0	14.0	33.1	-2.0	-10.0	6.0
109	12/02/2014 08:30	11.0	33.2	5.0	4.0	5.0	11.0	33.2	2.0	1.0	9.0	11.0	33.1	-2.0	-7.0	8.0	11.0	33.1	-1.0	-8.0	8.0
110	19/02/2014 14:30	18.0	33.2	5.0	2.0	7.0	18.0	33.2	3.0	0.0	10.0	18.0	33.1	-1.0	-9.0	6.0	18.0	33.1	-1.0	-10.0	5.0
111	28/02/2014 08:30	12.0	33.2	5.0	-1.0	4.0						12.0	33.1	-1.0	-8.0	7.0	12.0	33.1	-1.0	-9.0	8.0
112	06/03/2014 16:30	15.0	33.2	5.0	2.0	6.0	15.0	33.2	-1.0	-3.0	8.0	15.0	33.1	-1.0	-9.0	8.0	15.0	33.1	-1.0	-8.0	7.0
113	10/03/2014 08:30	10.0	33.2	5.0	4.0	6.0	10.0	33.2	-1.0	0.0	9.0	10.0	33.1	-1.0	-9.0	7.0	10.0	33.1	-1.0	-10.0	6.0
114	17/03/2014 15:30	15.0	33.2	5.0	1.0	5.0	15.0	33.2	0.0	-2.0	7.0	15.0	33.1	-1.0	-8.0	7.0	15.0	33.1	-1.0	-8.0	8.0
115	24/03/2014 08:30	10.0	33.2	5.0	2.0	7.0	10.0	33.2	0.0	-3.0	9.0	10.0	33.1	-1.0	-9.0	7.0	10.0	33.1	-1.0	-9.0	6.0
116	01/04/2014 18:30	15.0	33.2	5.0	0.0	6.0	15.0	33.2	1.0	-2.0	8.0	15.0	33.1	-1.0	-10.0	9.0	15.0	33.1	-1.0	-10.0	9.0
117	09/04/2014 08:30	15.0	33.2	5.0	2.0	6.0	15.0	33.2	1.0	0.0	7.0	15.0	33.1	-1.0	-9.0	8.0	15.0	33.1	-1.0	-9.0	8.0
118	16/04/2014 08:30	10.0	33.2	4.0	4.0	7.0	10.0	33.2	1.0	0.0	9.0	10.0	33.1	-1.0	-10.0	8.0	10.0	33.1	-1.0	-12.0	8.0
119	24/04/2014 08:30	15.0	33.2	4.0	1.0	6.0	15.0	33.2	1.0	-2.0	8.0	15.0	33.1	-1.0	-10.0	8.0	15.0	33.1	-1.0	-10.0	8.0
120	06/05/2014 08:30	15.0	33.2	4.0	2.0	8.0	15.0	33.2	1.0	0.0	10.0	15.0	33.1	-1.0	-9.0	6.0	15.0	33.1	-1.0	-9.0	7.0
121	13/05/2014 08:30	18.0	33.2	4.0	5.0	8.0	18.0	33.2	1.0	2.0	9.0	18.0	33.1	-1.0	-8.0	9.0	18.0	33.1	-1.0	-10.0	7.0
122	22/05/2014 08:30	20.0	33.2	4.0	3.0	8.0	20.0	33.2	1.0	1.0	10.0	20.0	33.1	-1.0	-10.0	7.0	20.0	33.1	-1.0	-11.0	7.0
123	29/05/2014 08:30	18.0	33.2	4.0	5.0	8.0	18.0														



Ubicazione STAZIONE CHIAIA
Opera \ \ | Ordine di Tiranti \ 05-
Tipo Strumento Mire Ottiche
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GRAFICO QUOTA

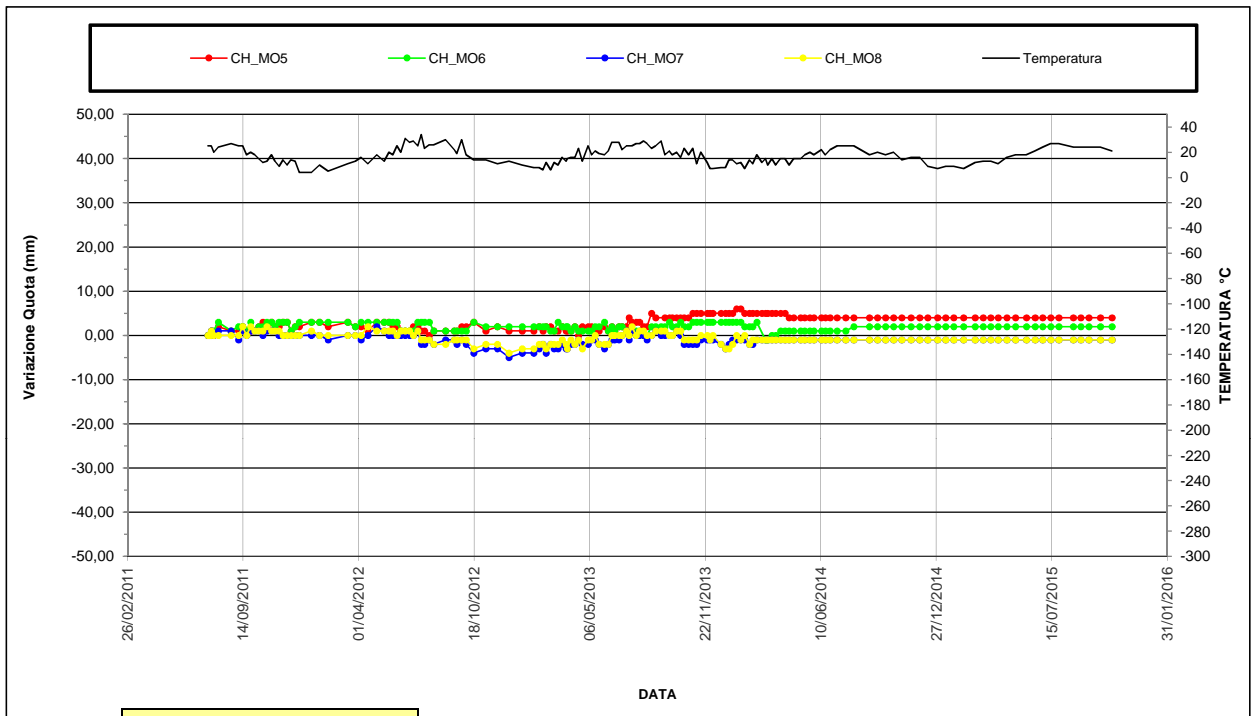
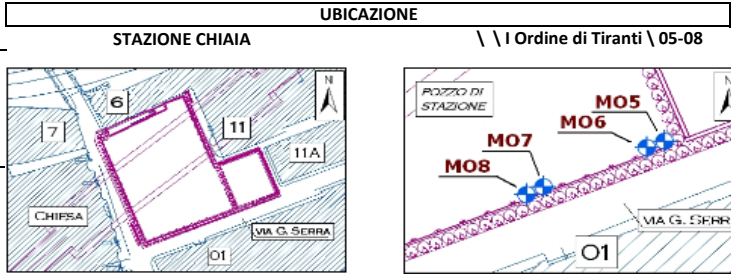
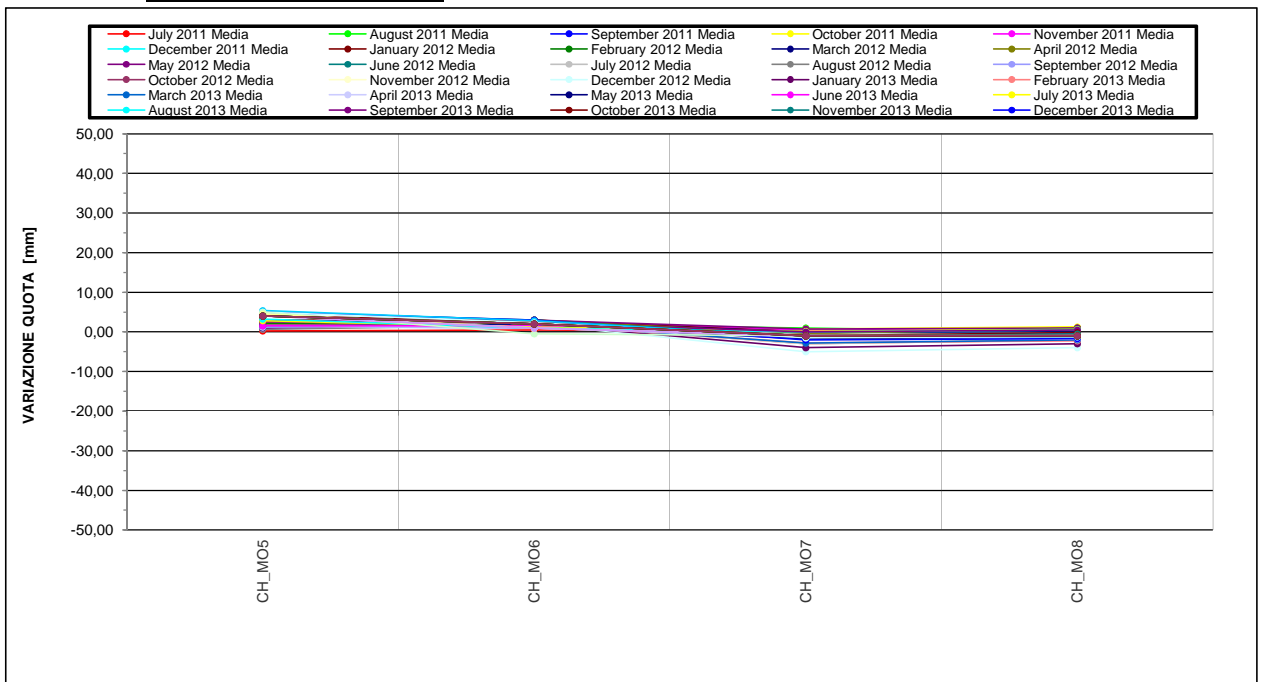


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ l Ordine di Tiranti \ 05-
Tipo Strumento Mire Ottiche
Data posa in opera 15/07/2011
Data lettura di zero 15/07/2011

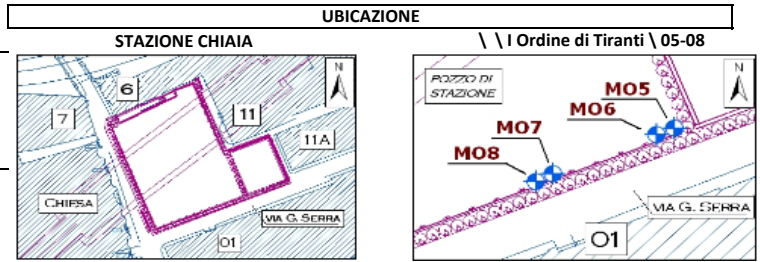


GRAFICO EST

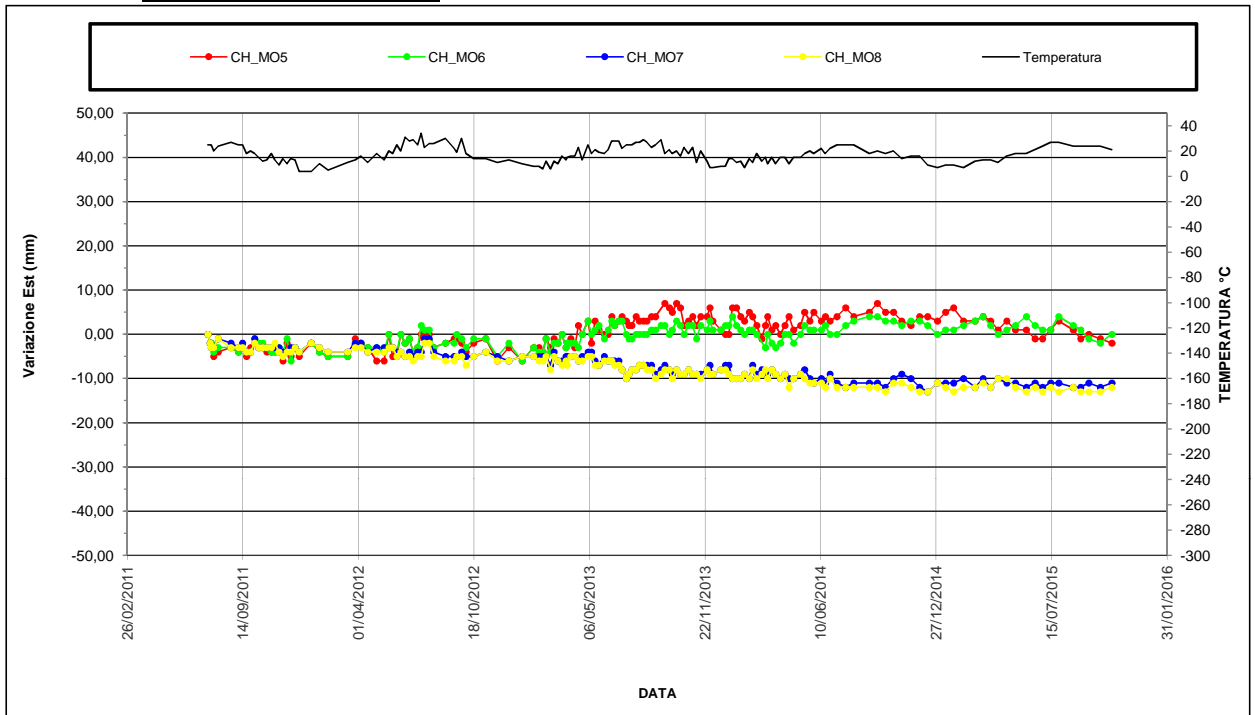
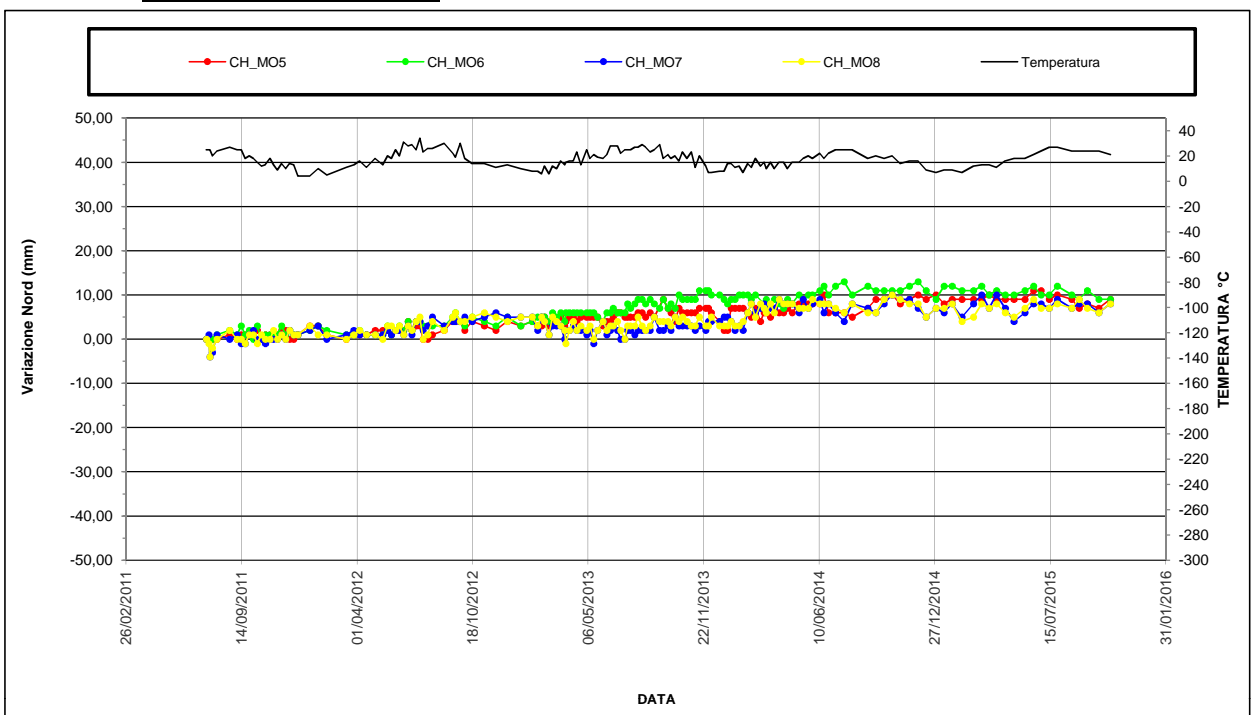


GRAFICO NORD





Ubicazione STAZIONE CHIAIA

Opera \ \ Ordine di Tiranti \ 09-12

Tipo Strumento Mire Ottiche

Data posa in opera 15/07/2011

Data lettura di zero 15/07/2011

Ultima Misura 157 in data 27/10/2015

Letto. n°	DATA	CH_M010					CH_M011					CH_M012					CH_M09				
		Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]
67	23/04/2013 08:30	13,0	34,1	-2,0	-3,0	1,0	13,0	34,0	-2,0	1,0	1,0	13,0	34,0	-2,0	1,0	1,0	13,0	34,1	-1,0	-2,0	2,0
68	03/05/2013 14:30	25,0	34,1	-1,0	-3,0	1,0	25,0	34,0	-1,0	1,0	2,0	25,0	34,0	0,0	2,0	2,0	25,0	34,1	0,0	-2,0	0,0
69	09/05/2013 08:30	18,0	34,1	0,0	-4,0	1,0	18,0	34,0	-1,0	1,0	1,0	18,0	34,0	-1,0	1,0	2,0	18,0	34,1	0,0	-3,0	1,0
70	15/05/2013 14:30	21,0	34,1	0,0	-5,0	-1,0	21,0	34,0	0,0	0,0	0,0	21,0	34,0	0,0	0,0	0,0	21,0	34,1	1,0	-3,0	-1,0
71	22/05/2013 08:30	19,0	34,1	-1,0	-5,0	0,0	19,0	34,0	0,0	-1,0	1,0	19,0	34,0	0,0	0,0	1,0	19,0	34,1	0,0	-5,0	1,0
72	31/05/2013 15:30	18,0	34,1	-2,0	-3,0	2,0	18,0	34,0	-2,0	0,0	2,0	18,0	34,0	-2,0	0,0	3,0	18,0	34,1	-1,0	-3,0	3,0
73	07/06/2013 08:30	21,0	34,1	-2,0	-4,0	2,0	21,0	34,0	-2,0	0,0	1,0	21,0	34,0	-2,0	0,0	2,0	21,0	34,1	-1,0	-4,0	2,0
74	13/06/2013 14:30	28,0	34,1	0,0	-4,0	1,0	28,0	34,0	-1,0	1,0	1,0	28,0	34,0	0,0	2,0	2,0	28,0	34,1	1,0	-3,0	2,0
75	18/06/2013 09:00	28,0	34,1	0,0	-5,0	1,0	28,0	34,0	-1,0	1,0	1,0	28,0	34,0	-1,0	1,0	1,0	28,0	34,1	0,0	-4,0	2,0
76	25/06/2013 18:00	28,0	34,1	-1,0	-5,0	1,0	28,0	34,0	-2,0	1,0	1,0	28,0	34,0	-2,0	1,0	1,0	28,0	34,1	1,0	-5,0	1,0
77	01/07/2013 07:30	22,0	34,1	0,0	-6,0	1,0	22,0	34,0	-2,0	0,0	1,0	22,0	34,0	-2,0	0,0	1,0	22,0	34,1	0,0	-4,0	1,0
78	08/07/2013 17:30	25,0	34,1	1,0	-8,0	0,0	25,0	34,0	0,0	-2,0	0,0	25,0	34,0	0,0	-1,0	1,0	25,0	34,1	2,0	-7,0	0,0
79	13/07/2013 07:30	25,0	34,1	0,0	-6,0	1,0	25,0	34,0	-2,0	0,0	2,0	25,0	34,0	-2,0	0,0	1,0	25,0	34,1	0,0	-7,0	2,0
80	18/07/2013 07:30	25,0	34,1	1,0	-6,0	0,0	25,0	34,0	-1,0	1,0	1,0	25,0	34,0	0,0	1,0	1,0	25,0	34,1	2,0	-5,0	0,0
81	25/07/2013 18:00	27,0	34,1	0,0	-6,0	1,0	27,0	34,0	-1,0	1,0	1,0	27,0	34,0	-1,0	1,0	1,0	27,0	34,1	1,0	-6,0	2,0
82	31/07/2013 09:00	27,0	34,1	0,0	-5,0	1,0	27,0	34,0	-1,0	1,0	0,0	27,0	34,0	-1,0	1,0	2,0	27,0	34,1	1,0	-4,0	2,0
83	07/08/2013 09:00	29,0	34,1	0,0	-5,0	0,0	29,0	34,0	-1,0	1,0	0,0	29,0	34,0	-2,0	1,0	2,0	29,0	34,1	1,0	-4,0	1,0
84	13/08/2013 09:00	27,0	34,1	-1,0	-6,0	-1,0	27,0	34,0	-2,0	1,0	1,0	27,0	34,0	-3,0	0,0	1,0	27,0	34,1	0,0	-5,0	0,0
85	21/08/2013 07:30	23,0	34,1	0,0	-5,0	1,0	23,0	34,0	-1,0	1,0	1,0	23,0	34,0	-2,0	2,0	2,0	23,0	34,1	1,0	-5,0	2,0
86	28/08/2013 10:30	25,0	34,1	1,0	-7,0	3,0	25,0	34,0	0,0	-1,0	4,0	25,0	34,0	0,0	-1,0	4,0	25,0	34,1	2,0	-6,0	5,0
87	06/09/2013 17:30	29,0	34,1	0,0	-7,0	1,0	29,0	34,0	-1,0	-1,0	1,0	29,0	34,0	-1,0	1,0	1,0	29,0	34,1	1,0	-6,0	2,0
88	13/09/2013 07:30	18,0	34,1	0,0	-5,0	2,0	18,0	34,0	-1,0	1,0	1,0	18,0	34,0	-1,0	1,0	1,0	18,0	34,1	1,0	-5,0	1,0
89	21/09/2013 09:30	21,0	34,1	0,0	-6,0	1,0	21,0	34,0	-3,0	0,0	1,0	21,0	34,0	-2,0	1,0	1,0	21,0	34,1	0,0	-5,0	2,0
90	26/09/2013 09:30	18,0	34,1	0,0	-7,0	1,0	18,0	34,0	-2,0	-1,0	1,0	18,0	34,0	-2,0	-1,0	2,0	18,0	34,1	0,0	-6,0	1,0
91	03/10/2013 16:30	20,0	34,1	0,0	-7,0	1,0	20,0	34,0	-3,0	0,0	1,0	20,0	34,0	-2,0	-1,0	2,0	20,0	34,1	0,0	-5,0	2,0
92	10/10/2013 08:30	16,0	34,1	0,0	-6,0	1,0	16,0	34,0	-2,0	0,0	2,0	16,0	34,0	-1,0	1,0	3,0	16,0	34,1	1,0	-6,0	2,0
93	16/10/2013 14:30	23,0	34,1	-1,0	-7,0	3,0	23,0	34,0	-3,0	-1,0	2,0	23,0	34,0	-2,0	1,0	3,0	23,0	34,1	0,0	-6,0	3,0
94	24/10/2013 08:30	18,0	34,1	-1,0	-5,0	1,0	18,0	34,0	-3,0	1,0	1,0	18,0	34,0	-3,0	1,0	2,0	18,0	34,1	0,0	-4,0	2,0
95	31/10/2013 14:30	23,0	34,1	-1,0	-6,0	3,0	23,0	34,0	-3,0	0,0	2,0	23,0	34,0	-3,0	0,0	3,0	23,0	34,1	0,0	-5,0	3,0
96	07/11/2013 08:30	11,0	34,1	-1,0	-7,0	1,0	11,0	34,0	-3,0	0,0	0,0	11,0	34,0	-3,0	0,0	1,0	11,0	34,1	0,0	-5,0	1,0
97	14/11/2013 14:30	20,0	34,1	-1,0	-6,0	3,0	20,0	34,0	-3,0	0,0	2,0	20,0	34,0	-2,0	1,0	3,0	20,0	34,1	0,0	-6,0	3,0
98	25/11/2013 15:30	12,0	34,1	-1,0	-5,0	2,0	12,0	34,0	-3,0	1,0	2,0	12,0	34,0	-2,0	1,0	1,0	12,0	34,1	0,0	-4,0	2,0
99	30/11/2013 08:30	7,0	34,1	-1,0	-5,0	3,0	7,0	34,0	-3,0	1,0	2,0	7,0	34,0	-2,0	1,0	3,0	7,0	34,1	0,0	-4,0	3,0
100	05/12/2013 08:30	7,0	34,1	-1,0	-7,0	2,0	7,0	34,0	-3,0	-1,0	1,0	7,0	34,0	-2,0	0,0	3,0	7,0	34,1	0,0	-6,0	2,0
101	19/12/2013 13:00	8,0	34,1	-2,0	-6,0	1,0	8,0	34,0	-4,0	0,0	2,0	8,0	34,0	-4,0	-1,0	2,0	8,0	34,1	-1,0	-5,0	3,0
102	27/12/2013 09:00	8,0	34,1	-2,0	-6,0	1,0	8,0	34,0	-5,0	0,0	3,0	8,0	34,0	-5,0	-1,0	2,0	8,0	34,1	-2,0	-5,0	4,0
103	02/01/2014 07:30	14,0	34,1	-2,0	-7,0	2,0	14,0	34,0	-5,0	-1,0	2,0	14,0	34,0	-5,0	0,0	3,0	14,0	34,1	-1,0	-6,0	5,0
104	08/01/2014 14:30	14,0	34,1	-2,0	-6,0	3,0	14,0	34,0	-4,0	-1,0	3,0	14,0	34,0	-4,0	-1,0	4,0	14,0	34,1	0,0	-7,0	2,0
105	15/01/2014 08:30	11,0	34,1	-1,0	-8,0	1,0	11,0	34,0	-4,0	-1,0	1,0	11,0	34,0	-3,0	-1,0	2,0	11,0	34,1	0,0	-7,0	3,0
106	22/01/2014 14:30	12,0	34,1	0,0	-7,0	3,0	12,0	34,0	-3,0	-1,0	0,0	12,0	34,0	-2,0	-1,0	2,0	12,0	34,1	0,0	-6,0	3,0
107	29/01/2014 08:30	7,0	34,1	0,0	-7,0	2,0	7,0	34,0	-3,0	0,0	2,0	7,0	34,0	-3,0	-1,0	1,0	7,0	34,1	0,0	-6,0	2,0
108	06/02/2014 14:30	14,0	34,1	-2,0	-9,0	1,0	14,0	34,0	-3,0	-2,0	3,0	14,0	34,0	-3,0	-1,0	3,0	14,0	34,1	-1,0	-8,0	2,0
109	12/02/2014 08:30	11,0	34,1	-2,0	-7,0	3,0	11,0	34,0	-3,0	0,0	4,0	11,0	34,0	-3,0	1,0	5,0	11,0	34,1	-1,0	-5,0	6,0
110	19/02/2014 14:30	18,0	34,1	-2,0	-7,0	3,0	18,0	34,0	-3,0	-1,0	2,0	18,0	34,0	-3,0	1,0	3,0	18,0	34,1	-1,0	-7,0	3,0
111	28/02/2014 08:30	12,0	34,1	-1,0	-7,0	5,0	12,0	34,0	-3,0	0,0	4,0	12,0	34,0	-3,0	-1,0	4,0	12,0	34,1	-1,0	-6,0	4,0
112	06/03/2014 16:30	15,0	34,1	-1,0	-6,0	2,0	15,0	34,0	-3,0	-1,0	3,0	15,0	34,0	-3,0	0,0	5,0	15,0	34,1	-1,0	-6,0	3,0
113	10/03/2014 08:30	10,0	34,1	-1,0	-8,0	3,0	10,0	34,0	-3,0	-3,0	3,0	10,0	34,0	-3,0	0,0	4,0	10,0	34,1	-1,0	-7,0	4,0
114	17/03/2014 15:30	15,0	34,1	-1,0	-6,0	4,0	15,0	34,0	-3,0	0,0	4,0	15,0	34,0	-3,0	0,0	4,0	15,0	34,1	-1,0	-6,0	4,0
115	24/03/2014 08:30	10,0	34,1	-1,0	-8,0	3,0	10,0	34,0	-3,0	0,0	2,0	10,0	34,0	-3,0	0,0	3,0	10,0	34,1	-1,0	-7,0	4,0
116	01/04/2014 18:30	15,0	34,1	-1,0	-9,0	4,0	15,0	34,0	-3,0	-1,0	4,0	15,0	34,0	-3,0	-2,0	5,0	15,0	34,1	0,0	-7,0	5,0
117	09/04/2014 08:30	15,0	34,1	-1,0	-8,0	3,0	15,0	34,0	-3,0	-1,0	3,0	15,0	34,0	-3,0	-1,0	3,0	15,0	34,1	-1,0	-6,0	4,0
118	16/04/2014 08:30	10,0	34,1	-1,0	-10,0	4,0	10,0	34,0	-3,0	-3,0	4,0	10,0	34,0	-3,0	-1,0	6,0	10,0	34,1	-1,0	-8,0	5,0
119	24/04/2014 08:30	15,0	34,1	-1,0	-8,0	4,0	15,0	34,0	-3,0	-1,0	2,0	15,0	34,0	-3,0	-1,0	5,0	15,0	34,1	-1,0	-8,0	6,0
120	06/05/2014 08:30	15,0	34,1	-1,0	-9,0	2,0	15,0	34,0	-4,0	0,0	2,0	15,0	34,0	-3,0	1,0	3,0	15,0	34,1	-1,0	-7,0	4,0
121	13/05/2014 08:30	18,0	34,1	-1,0	-8,0	1,0	18,0	34,0	-4,0	0,0	2,0	18,0	34,0	-3,0	0,0	4,0	18,0	34,1	-1,0	-6,0	4,0
122	22/05/2014 08:30	20,0	34,1	-1,0	-8,0	3,0	20,0	34,0	-3,0	-1,0	2,0	20,0	34,0	-3,0	-1,0	2,0	20,0	34,1	0,0	-7,0	4,0
123	29/05/2014 08:30	18,0	34,1	-1,0	-8,0	3,0	18,0	34,0	-												



Ubicazione STAZIONE CHIAIA
Opera \ \ | Ordine di Tiranti \ 09-
Tipo Strumento Mire Ottiche
Data posa in opera 15/07/2011
Data lettura di zero 15/07/2011

GRAFICO QUOTA

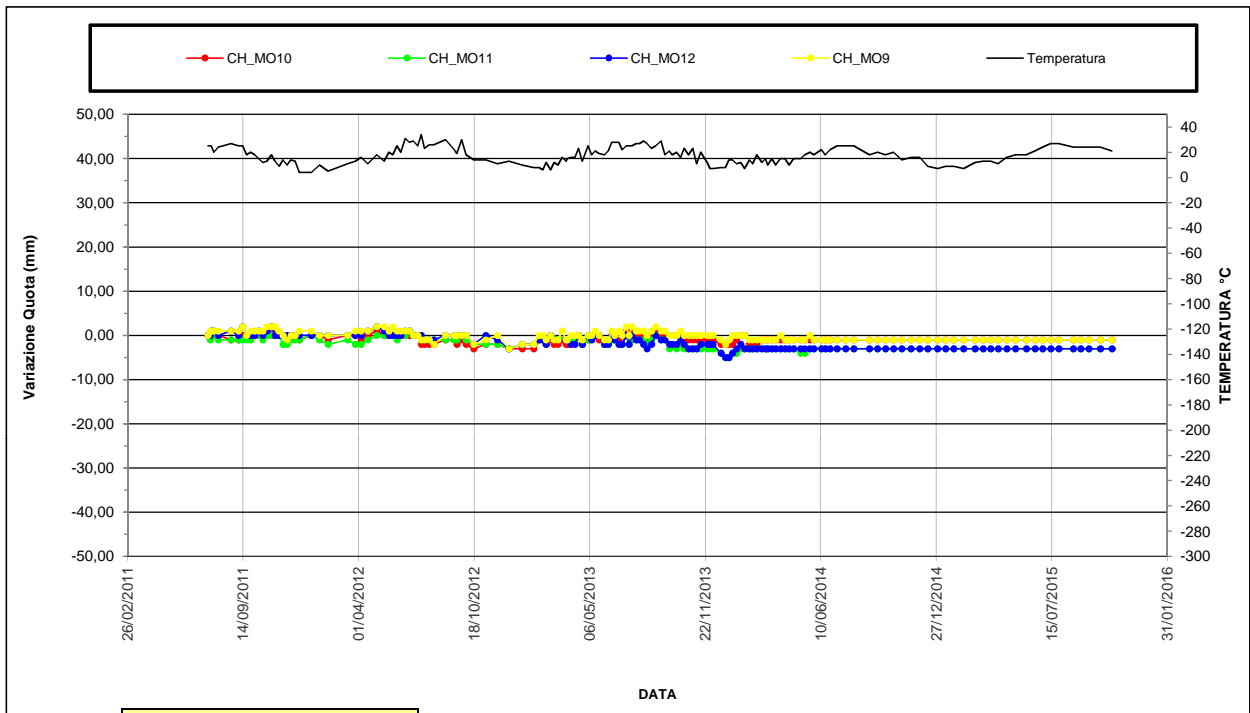
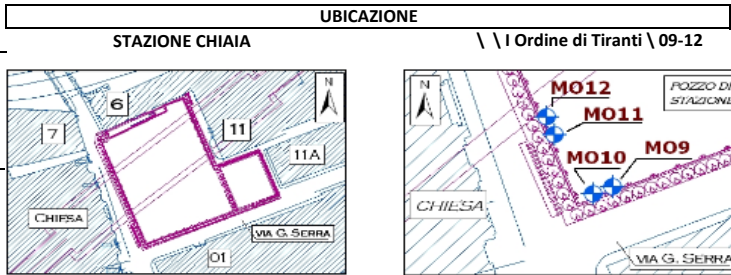
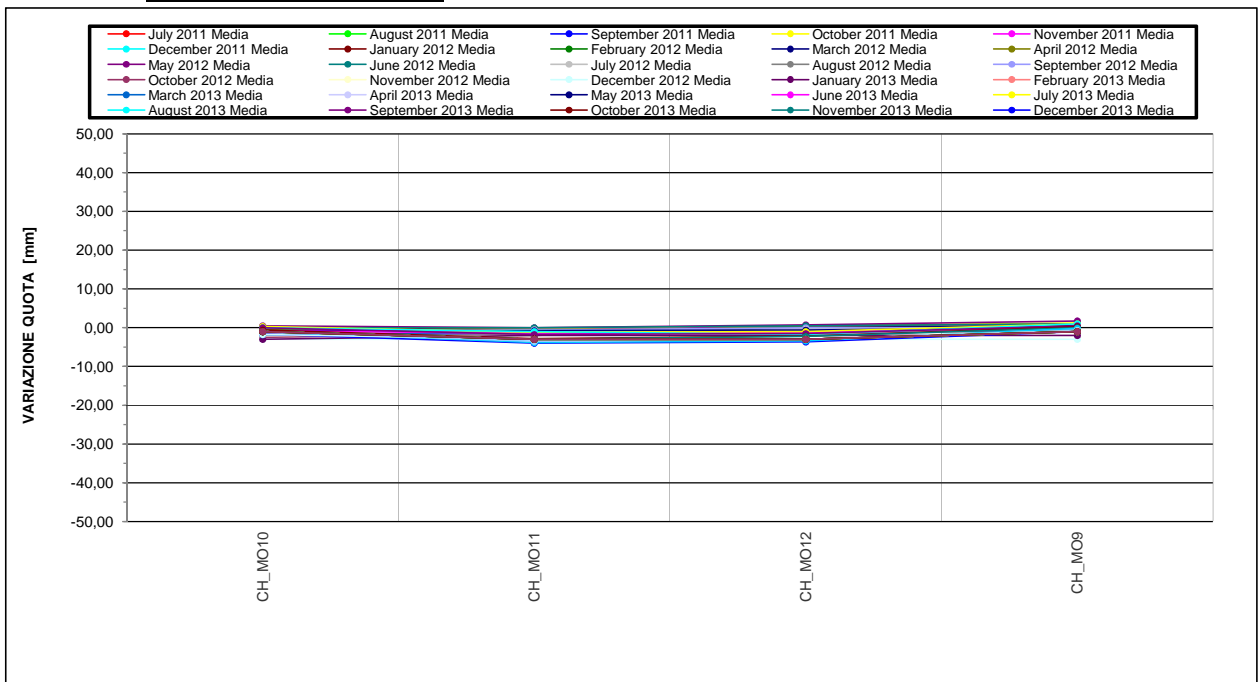


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ I Ordine di Tiranti \ 09-
Tipo Strumento Mire Ottiche
Data posa in opera 15/07/2011
Data lettura di zero 15/07/2011

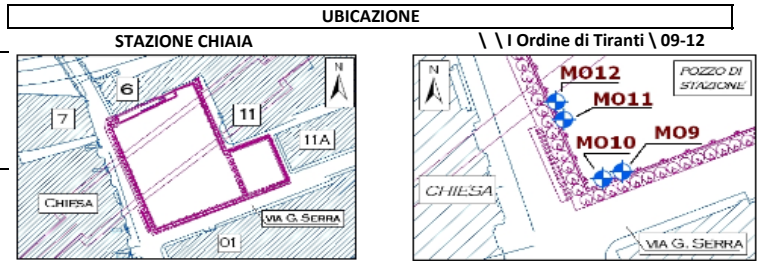


GRAFICO EST

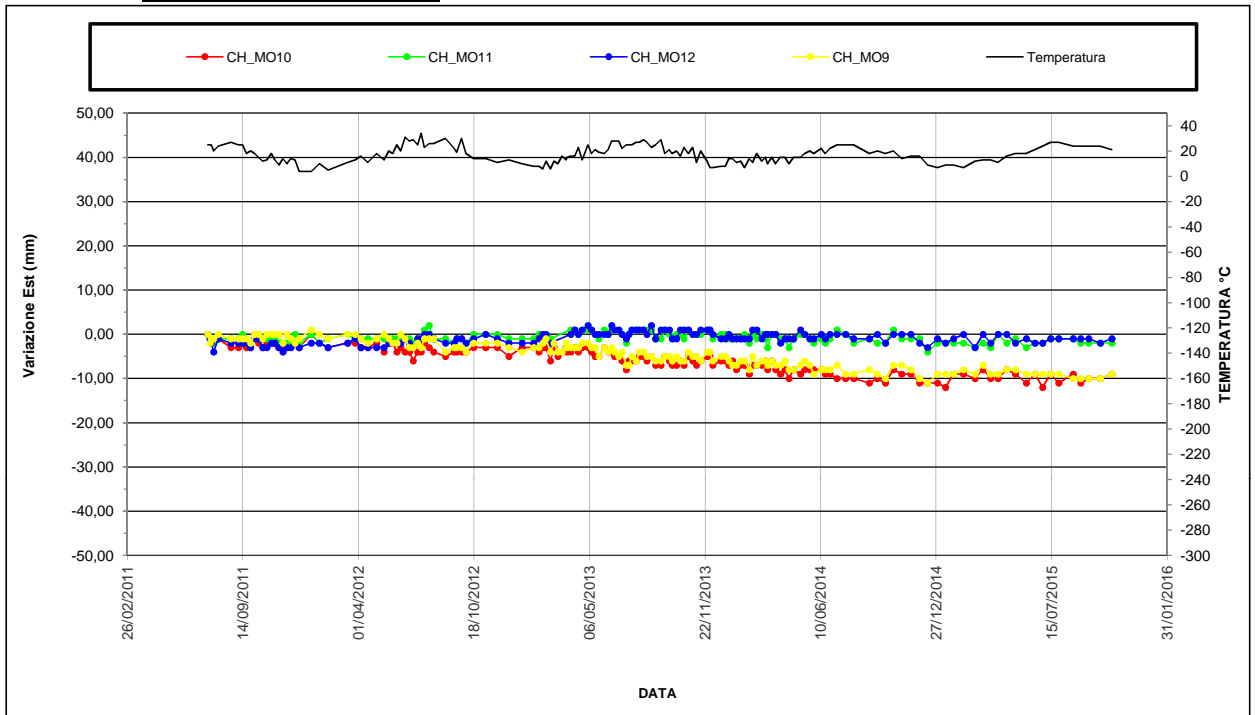
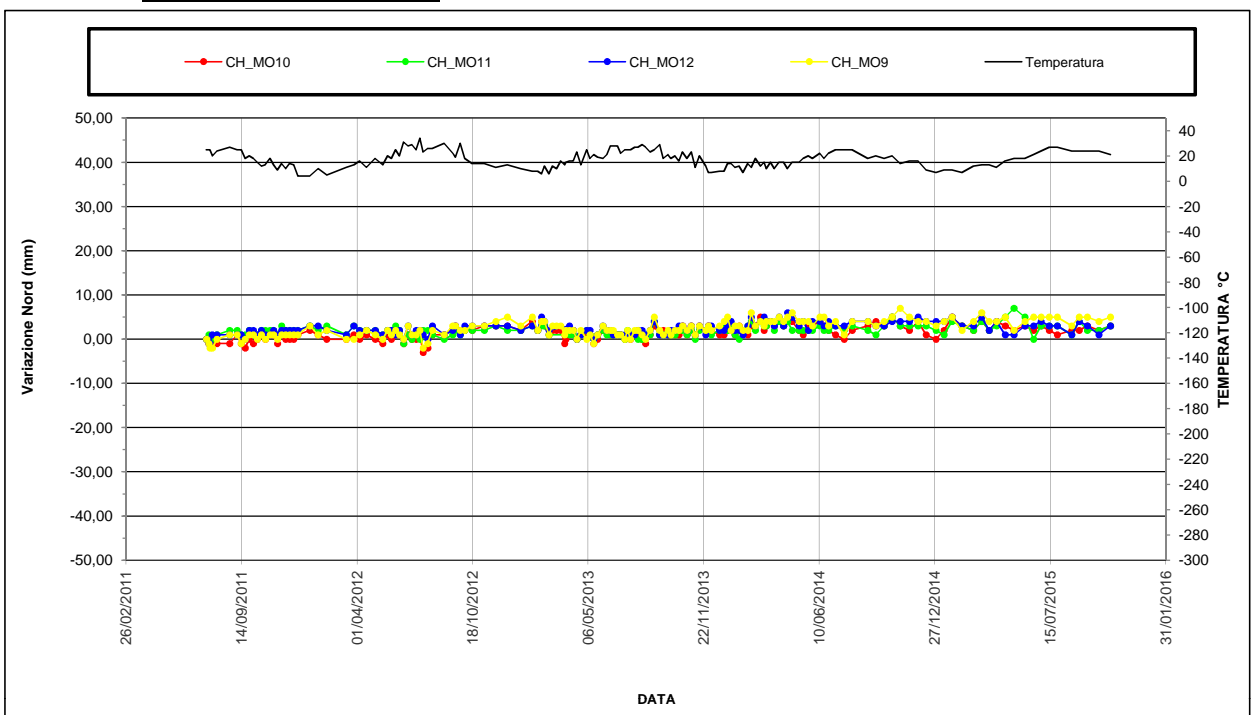


GRAFICO NORD





Ubicazione STAZIONE CHIAIA

Opera \ \ Ordine di Tiranti \ 13-16

Tipo Strumento Mire Ottiche

Data posa in opera 15/07/2011

Data lettura di zero 15/07/2011

Ultima Misura 159 in data 27/10/2015

Letto. n°	DATA	CH_M013					CH_M014					CH_M015					CH_M016				
		Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]
69	23/04/2013 08:30	13,0	34,0	-3,0	3,0	0,0	13,0	34,0	-2,0	4,0	0,0	13,0	34,6	0,0	2,0	-1,0	13,0	34,6	-1,0	2,0	-1,0
70	03/05/2013 14:30	25,0	34,0	-2,0	4,0	0,0	25,0	34,0	0,0	5,0	0,0	25,0	34,6	1,0	2,0	0,0	25,0	34,6	1,0	3,0	0,0
71	09/05/2013 08:30	18,0	34,0	-2,0	3,0	1,0	18,0	34,0	-1,0	4,0	1,0	18,0	34,6	1,0	1,0	0,0	18,0	34,6	1,0	3,0	0,0
72	15/05/2013 14:30	21,0	34,0	-1,0	3,0	-2,0	21,0	34,0	0,0	3,0	-1,0	21,0	34,6	2,0	1,0	-1,0	21,0	34,6	1,0	2,0	-2,0
73	22/05/2013 08:30	19,0	34,0	-2,0	3,0	0,0	19,0	34,0	0,0	3,0	0,0	19,0	34,6	1,0	0,0	0,0	19,0	34,6	0,0	0,0	0,0
74	31/05/2013 15:30	18,0	34,0	-3,0	4,0	1,0	18,0	34,0	-2,0	4,0	2,0	18,0	34,6	0,0	0,0	1,0	18,0	34,6	0,0	1,0	0,0
75	07/06/2013 08:30	21,0	34,0	-3,0	4,0	0,0	21,0	34,0	-2,0	5,0	1,0	21,0	34,6	0,0	0,0	0,0	21,0	34,6	0,0	2,0	0,0
76	13/06/2013 14:30	28,0	34,0	-2,0	4,0	0,0	28,0	34,0	0,0	5,0	1,0	28,0	34,6	1,0	1,0	-1,0	28,0	34,6	1,0	1,0	-1,0
77	18/06/2013 09:00	28,0	34,0	-3,0	3,0	0,0	28,0	34,0	-1,0	3,0	1,0	28,0	34,6	0,0	0,0	0,0	28,0	34,6	0,0	0,0	0,0
78	25/06/2013 18:00	28,0	34,0	-3,0	4,0	0,0	28,0	34,0	-1,0	5,0	1,0	28,0	34,6	0,0	1,0	0,0	28,0	34,6	1,0	2,0	-1,0
79	01/07/2013 07:30	22,0	34,0	-2,0	5,0	0,0	22,0	34,0	-2,0	4,0	0,0	22,0	34,6	1,0	2,0	0,0	22,0	34,6	1,0	4,0	1,0
80	08/07/2013 17:30	25,0	34,0	-2,0	1,0	0,0	25,0	34,0	-1,0	2,0	0,0	25,0	34,6	2,0	0,0	0,0	25,0	34,6	2,0	1,0	0,0
81	13/07/2013 07:30	25,0	34,0	-3,0	4,0	2,0	25,0	34,0	-2,0	3,0	1,0	25,0	34,6	0,0	1,0	1,0	25,0	34,6	0,0	1,0	1,0
82	18/07/2013 07:30	25,0	34,0	-2,0	3,0	0,0	25,0	34,0	0,0	4,0	1,0	25,0	34,6	2,0	1,0	0,0	25,0	34,6	2,0	2,0	0,0
83	25/07/2013 18:00	27,0	34,0	-3,0	4,0	0,0	27,0	34,0	-1,0	4,0	1,0	27,0	34,6	1,0	1,0	0,0	27,0	34,6	1,0	2,0	0,0
84	31/07/2013 09:00	27,0	34,0	-2,0	5,0	0,0	27,0	34,0	-1,0	4,0	1,0	27,0	34,6	1,0	1,0	0,0	27,0	34,6	1,0	2,0	0,0
85	07/08/2013 09:00	29,0	34,0	-4,0	4,0	0,0	29,0	34,0	-1,0	4,0	1,0	29,0	34,6	1,0	1,0	1,0	29,0	34,6	1,0	1,0	0,0
86	13/08/2013 09:00	27,0	34,0	-4,0	3,0	1,0	27,0	34,0	-2,0	3,0	2,0	27,0	34,6	0,0	0,0	2,0	27,0	34,6	0,0	0,0	1,0
87	21/08/2013 07:30	23,0	34,0	-3,0	4,0	0,0	23,0	34,0	-1,0	6,0	2,0	23,0	34,6	2,0	2,0	1,0	23,0	34,6	1,0	3,0	1,0
88	28/08/2013 10:30	25,0	34,0	-1,0	3,0	2,0	25,0	34,0	0,0	3,0	4,0	25,0	34,6	3,0	0,0	2,0	25,0	34,6	3,0	0,0	2,0
89	06/09/2013 17:30	29,0	34,0	-2,0	4,0	1,0	29,0	34,0	-1,0	3,0	1,0	29,0	34,6	2,0	1,0	0,0	29,0	34,6	2,0	1,0	-1,0
90	13/09/2013 07:30	18,0	34,0	-3,0	4,0	0,0	18,0	34,0	-1,0	4,0	1,0	18,0	34,6	1,0	2,0	0,0	18,0	34,6	1,0	3,0	0,0
91	21/09/2013 09:30	21,0	34,0	-3,0	4,0	0,0	21,0	34,0	-2,0	4,0	2,0	21,0	34,6	0,0	0,0	0,0	21,0	34,6	0,0	1,0	0,0
92	26/09/2013 09:30	18,0	34,0	-3,0	3,0	1,0	18,0	34,0	-2,0	3,0	2,0	18,0	34,6	1,0	0,0	0,0	18,0	34,6	1,0	1,0	0,0
93	03/10/2013 16:30	20,0	34,0	-3,0	3,0	2,0	20,0	34,0	-1,0	3,0	2,0	20,0	34,6	1,0	-1,0	1,0	20,0	34,6	1,0	1,0	1,0
94	10/10/2013 08:30	16,0	34,0	-2,0	3,0	1,0	16,0	34,0	-1,0	4,0	2,0	16,0	34,6	1,0	1,0	0,0	16,0	34,6	1,0	1,0	-1,0
95	16/10/2013 14:30	23,0	34,0	-3,0	3,0	1,0	23,0	34,0	-2,0	3,0	2,0	23,0	34,6	0,0	0,0	1,0	23,0	34,6	0,0	1,0	0,0
96	24/10/2013 08:30	18,0	34,0	-3,0	5,0	1,0	18,0	34,0	-2,0	5,0	2,0	18,0	34,6	0,0	2,0	0,0	18,0	34,6	0,0	3,0	-1,0
97	31/10/2013 14:30	23,0	34,0	-4,0	3,0	1,0	23,0	34,0	-2,0	4,0	2,0	23,0	34,6	0,0	0,0	1,0	23,0	34,6	0,0	1,0	0,0
98	07/11/2013 08:30	11,0	34,0	-4,0	4,0	1,0	11,0	34,0	-2,0	4,0	1,0	11,0	34,6	0,0	1,0	0,0	11,0	34,6	0,0	2,0	-1,0
99	14/11/2013 14:30	20,0	34,0	-4,0	4,0	2,0	20,0	34,0	-2,0	3,0	3,0	20,0	34,6	0,0	0,0	1,0	20,0	34,6	0,0	2,0	0,0
100	25/11/2013 15:30	12,0	34,0	-4,0	4,0	0,0	12,0	34,0	-2,0	5,0	1,0	12,0	34,6	0,0	2,0	0,0	12,0	34,6	0,0	2,0	0,0
101	30/11/2013 08:30	7,0	34,0	-4,0	5,0	3,0	7,0	34,0	-2,0	5,0	2,0	7,0	34,6	0,0	2,0	1,0	7,0	34,6	0,0	3,0	1,0
102	05/12/2013 08:30	7,0	34,0	-4,0	3,0	1,0	7,0	34,0	-2,0	4,0	3,0	7,0	34,6	0,0	1,0	0,0	7,0	34,6	0,0	3,0	1,0
103	19/12/2013 13:00	8,0	34,0	-5,0	2,0	1,0	8,0	34,0	-3,0	3,0	2,0	8,0	34,6	-1,0	0,0	2,0	8,0	34,6	-1,0	2,0	2,0
104	27/12/2013 09:00	8,0	34,0	-6,0	2,0	2,0	8,0	34,0	-4,0	2,0	3,0	8,0	34,6	-2,0	0,0	3,0	8,0	34,6	-2,0	1,0	3,0
105	02/01/2014 07:30	14,0	34,0	-7,0	1,0	2,0	14,0	34,0	-5,0	3,0	3,0	14,0	34,6	-2,0	0,0	4,0	14,0	34,6	-3,0	2,0	2,0
106	08/01/2014 14:30	14,0	34,0	-4,0	3,0	3,0	14,0	34,0	-3,0	2,0	3,0	14,0	34,6	-1,0	-1,0	2,0	14,0	34,6	-1,0	0,0	1,0
107	15/01/2014 08:30	11,0	34,0	-4,0	3,0	1,0	11,0	34,0	-2,0	3,0	2,0	11,0	34,6	0,0	1,0	0,0	11,0	34,6	-1,0	2,0	0,0
108	22/01/2014 14:30	12,0	34,0	-3,0	2,0	1,0	12,0	34,0	-2,0	4,0	3,0	12,0	34,6	0,0	1,0	0,0	12,0	34,6	-1,0	1,0	0,0
109	29/01/2014 08:30	7,0	34,0	-4,0	3,0	2,0	7,0	34,0	-2,0	5,0	3,0	7,0	34,6	0,0	2,0	1,0	7,0	34,6	0,0	3,0	1,0
110	06/02/2014 14:30	14,0	34,0	-4,0	2,0	3,0	14,0	34,0	-2,0	4,0	5,0	14,0	34,6	-1,0	0,0	2,0	14,0	34,6	-1,0	1,0	2,0
111	12/02/2014 08:30	11,0	34,0	-4,0	4,0	4,0	11,0	34,0	-2,0	5,0	5,0	11,0	34,6	-1,0	1,0	3,0	11,0	34,6	-1,0	2,0	3,0
112	19/02/2014 14:30	18,0	34,0	-4,0	3,0	2,0	18,0	34,0	-3,0	4,0	3,0	18,0	34,6	0,0	1,0	1,0	18,0	34,6	0,0	1,0	0,0
113	28/02/2014 08:30	12,0	34,0	-4,0	3,0	3,0	12,0	34,0	-2,0	5,0	5,0	12,0	34,6	0,0	-1,0	2,0	12,0	34,6	0,0	0,0	2,0
114	06/03/2014 16:30	15,0	34,0	-4,0	3,0	3,0	15,0	34,0	-2,0	5,0	4,0	15,0	34,6	-1,0	0,0	3,0	15,0	34,6	0,0	0,0	2,0
115	10/03/2014 08:30	10,0	34,0	-4,0	3,0	4,0	10,0	34,0	-3,0	5,0	5,0	10,0	34,6	-1,0	1,0	4,0	10,0	34,6	0,0	3,0	3,0
116	17/03/2014 15:30	15,0	34,0	-4,0	4,0	2,0	15,0	34,0	-3,0	5,0	5,0	15,0	34,6	-1,0	1,0	2,0	15,0	34,6	0,0	2,0	1,0
117	24/03/2014 08:30	10,0	34,0	-4,0	3,0	2,0	10,0	34,0	-3,0	4,0	4,0	10,0	34,6	-1,0	0,0	2,0	10,0	34,6	0,0	2,0	2,0
118	01/04/2014 18:30	15,0	34,0	-4,0	2,0	3,0	15,0	34,0	-3,0	3,0	5,0	15,0	34,6	0,0	-1,0	4,0	15,0	34,6	0,0	-1,0	3,0
119	09/04/2014 08:30	15,0	34,0	-4,0	3,0	2,0	15,0	34,0	-3,0	5,0	4,0	15,0	34,6	0,0	1,0	2,0	15,0	34,6	0,0	1,0	2,0
120	16/04/2014 08:30	10,0	34,0	-4,0	0,0	3,0	10,0	34,0	-3,0	2,0	5,0	10,0	34,6	0,0	-1,0	3,0	10,0	34,6	0,0	0,0	3,0
121	24/04/2014 08:30	15,0	34,0	-4,0	0,0	0,0	15,0	34,0	-3,0	4,0	4,0	15,0	34,6	0,0	0,0	4,0	15,0	34,6	0,0	0,0	4,0
122	06/05/2014 08:30	15,0	34,0	-5,0	2,0	1,0	15,0	34,0	-3,0	4,0	3,0	15,0	34,6	-1,0	0,0	0,0	15,0	34,6	0,0	1,0	0,0
123	13/05/2014 08:30	18,0	34,0	-5,0	4,0	4,0	18,0	34,0	-3,0	5,0	5,0	18,0	34,6	-1,0	1,0	2,0	18,0	34,6	0,0	1,0	2,0
124	22/05/2014 08:30	20,0	34,0	-4,0	3,0	3,0	20,0	34,0	-3,0	4,0	3,0	20,0	34,6	0,0	-1,0	1,0	20,0	34,6	0,0	1,0	1,0
125	29/05/2014 08:30	18,0	34,0	-4,0	3,0	3,0	18,0	34,0													



Ubicazione STAZIONE CHIAIA
Opera \ \ I Ordine di Tiranti \ 13-
Tipo Strumento Mire Ottiche
Data posa in opera 15/07/2011
Data lettura di zero 15/07/2011

UBICAZIONE

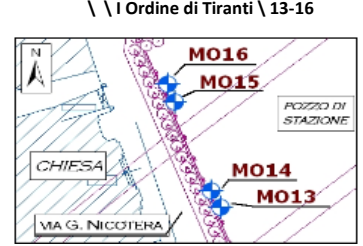
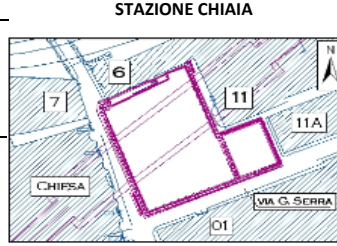


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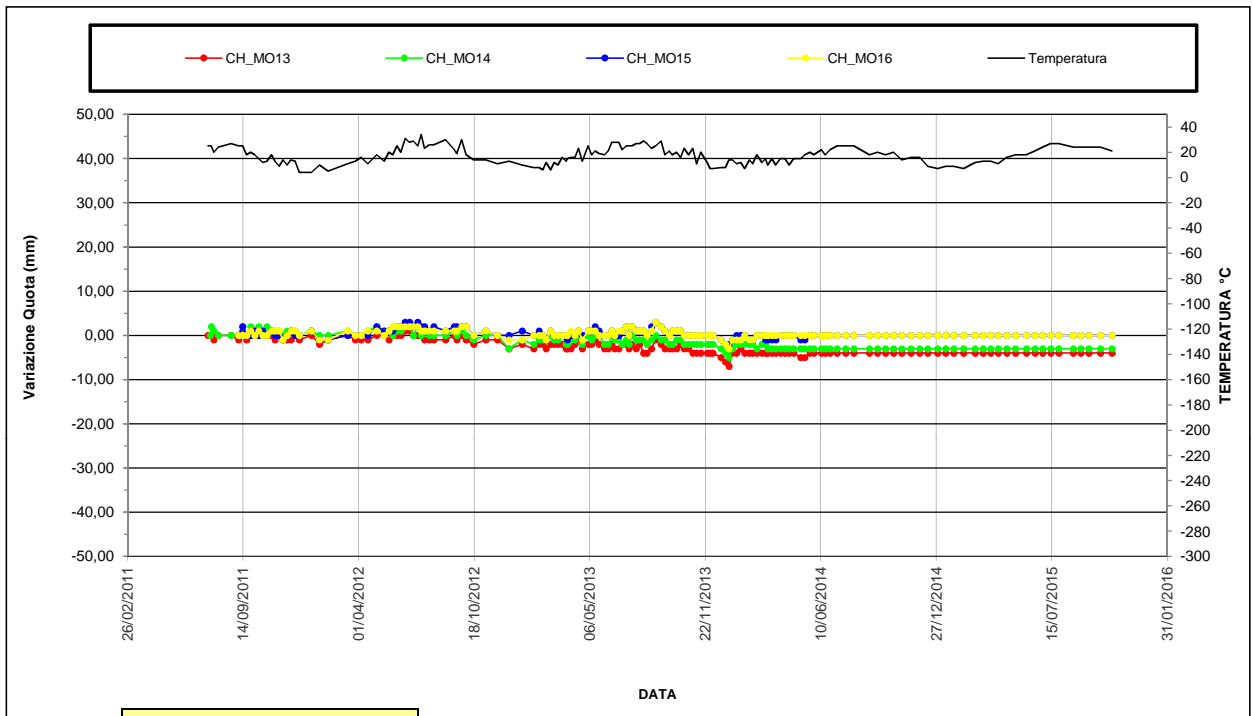
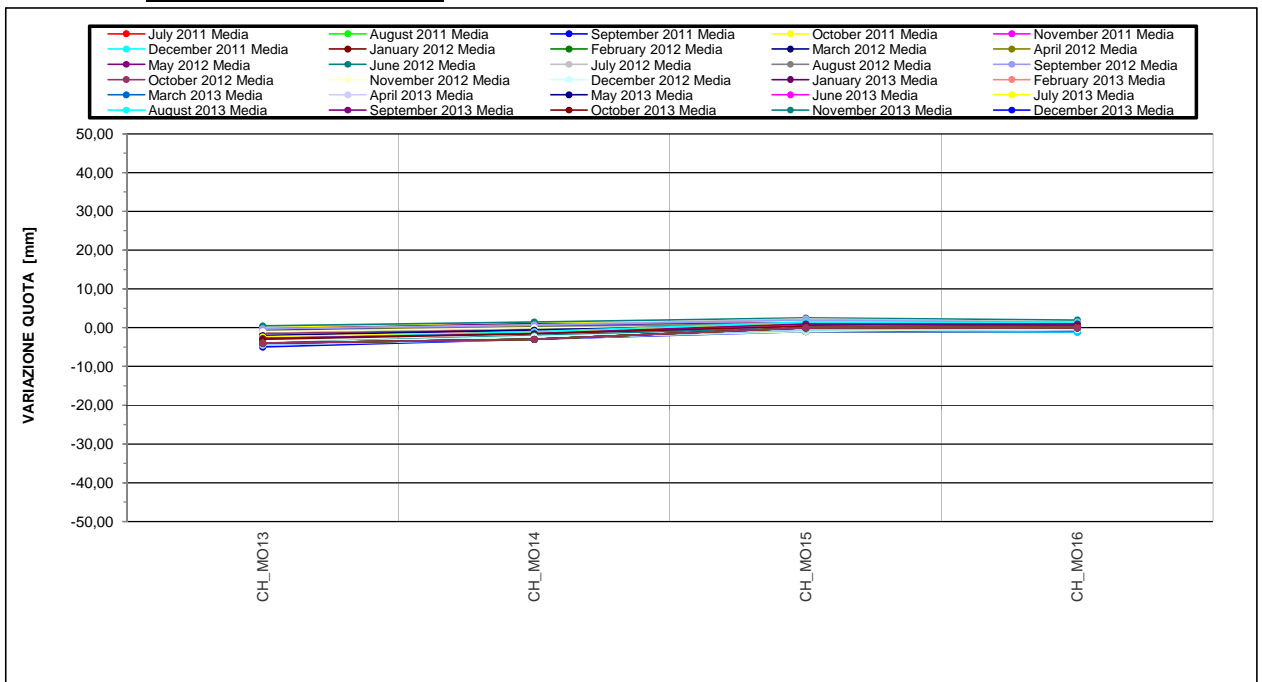


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ I Ordine di Tiranti \ 13-
Tipo Strumento Mire Ottiche
Data posa in opera 15/07/2011
Data lettura di zero 15/07/2011

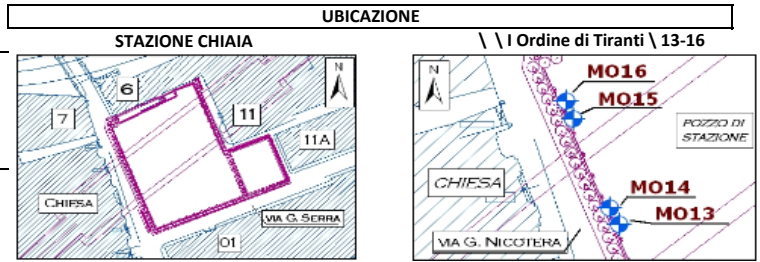


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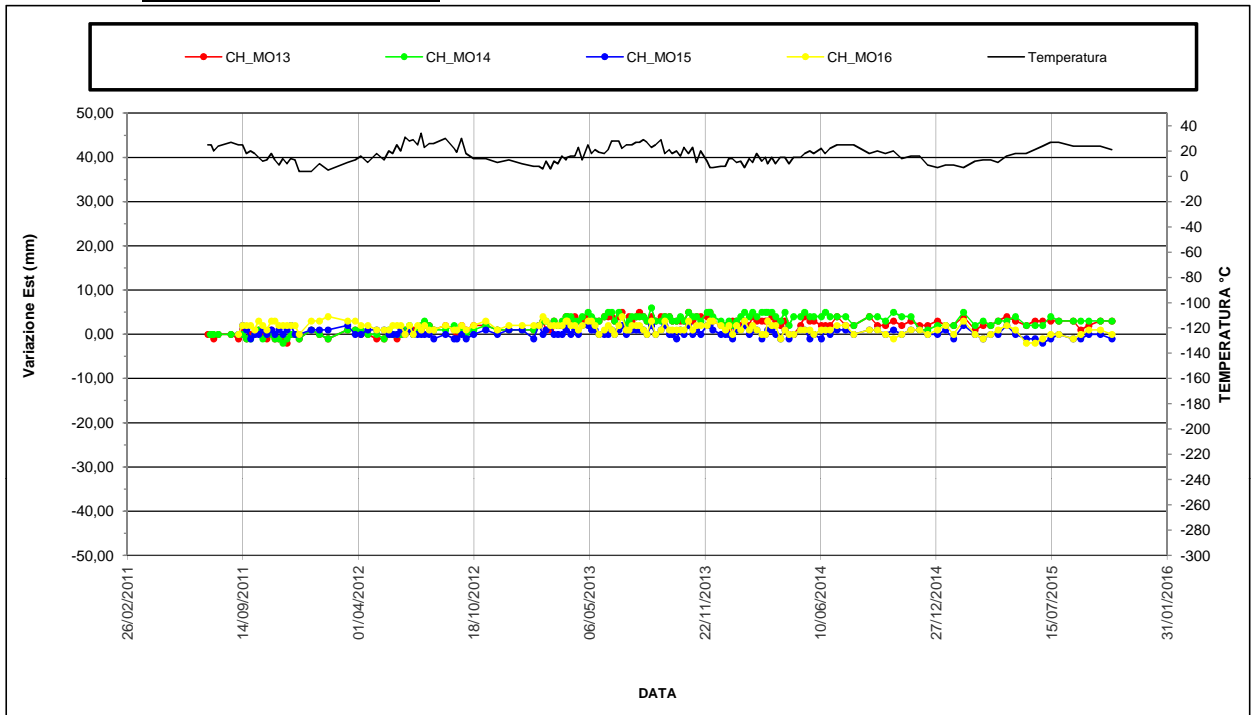
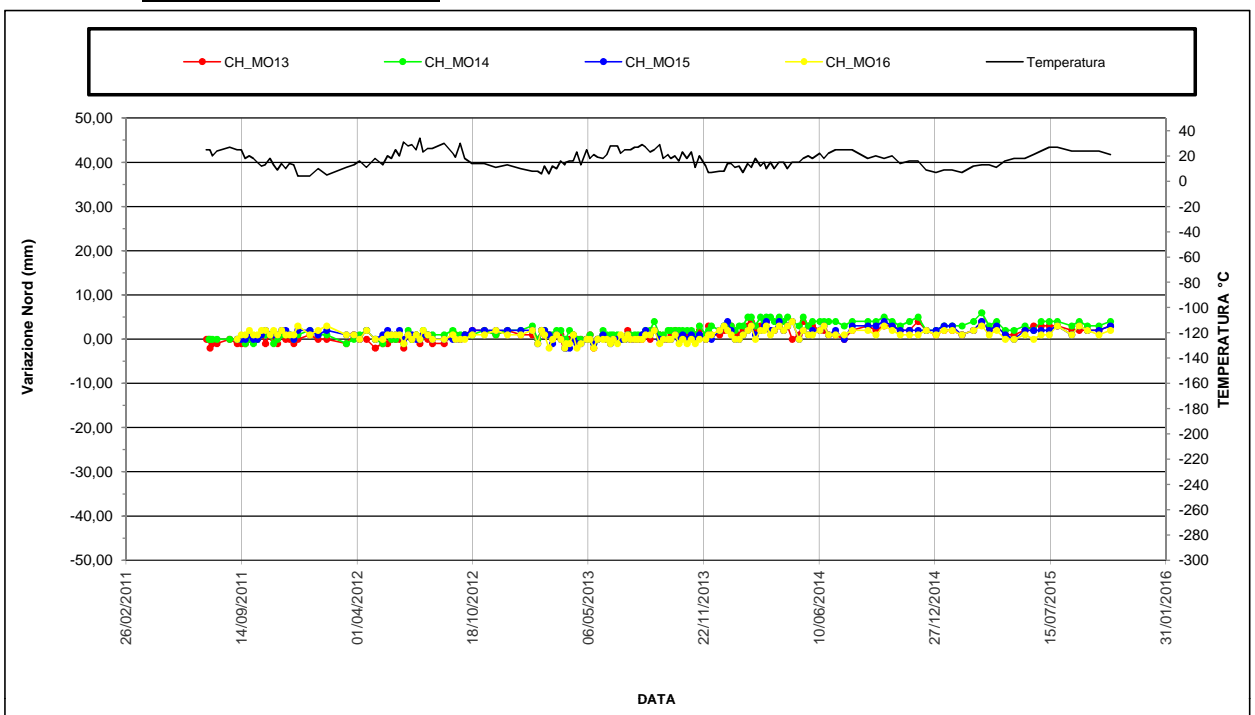


GRAFICO NORD





Ubicazione STAZIONE CHIAIA

Opera \ \ II Ordine di Tiranti \ 17-20

Tipo Strumento Mire Ottiche

Data posa in opera 17/04/2012

Data lettura di zero 17/04/2012

Ultima Misura 142 in data 27/10/2015

Letto. n°	DATA	CH_M017					CH_M018					CH_M019					CH_M020				
		Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]
52	23/04/2013 08:30	13,0	26,5	0,0	0,0	0,0	13,0	26,4	1,0	1,0	1,0	13,0	28,7	-1,0	0,0	1,0	13,0	28,7	0,0	-2,0	-1,0
53	03/05/2013 14:30	25,0	26,5	1,0	1,0	0,0	25,0	26,4	2,0	2,0	1,0	25,0	28,7	0,0	0,0	1,0	25,0	28,7	0,0	0,0	0,0
54	09/05/2013 08:30	18,0	26,5	1,0	2,0	1,0	18,0	26,4	2,0	1,0	1,0	18,0	28,7	0,0	-1,0	2,0	18,0	28,7	1,0	-3,0	-1,0
55	15/05/2013 14:30	21,0	26,5	0,0	0,0	-1,0	21,0	26,4	1,0	2,0	0,0	21,0	28,7	-1,0	2,0	1,0	21,0	28,7	0,0	0,0	-1,0
56	22/05/2013 08:30	19,0	26,5	0,0	2,0	-1,0	19,0	26,4	1,0	2,0	1,0	19,0	28,7	-1,0	1,0	0,0	19,0	28,7	0,0	-1,0	-2,0
57	31/05/2013 15:30	18,0	26,5	2,0	1,0	-1,0	18,0	26,4	1,0	2,0	-1,0	18,0	28,7	1,0	-1,0	0,0	18,0	28,7	1,0	-1,0	-2,0
58	07/06/2013 08:30	21,0	26,5	1,0	1,0	0,0	21,0	26,4	0,0	2,0	1,0	21,0	28,7	0,0	0,0	1,0	21,0	28,7	0,0	-2,0	-1,0
59	13/06/2013 14:30	28,0	26,5	2,0	2,0	0,0	28,0	26,4	2,0	3,0	0,0	28,0	28,7	0,0	1,0	1,0	28,0	28,7	1,0	1,0	-2,0
60	18/06/2013 09:00	28,0	26,5	1,0	1,0	1,0	28,0	26,4	0,0	2,0	1,0	28,0	28,7	-1,0	0,0	2,0	28,0	28,7	0,0	-1,0	-1,0
61	25/06/2013 18:00	28,0	26,5	1,0	1,0	0,0	28,0	26,4	1,0	3,0	1,0	28,0	28,7	0,0	1,0	1,0	28,0	28,7	0,0	0,0	-2,0
62	01/07/2013 07:30	22,0	26,5	1,0	1,0	0,0	22,0	26,4	1,0	2,0	1,0	22,0	28,7	0,0	1,0	0,0	22,0	28,7	0,0	-1,0	-1,0
63	08/07/2013 17:30	25,0	26,5	2,0	2,0	1,0	25,0	26,4	1,0	2,0	1,0	25,0	28,7	0,0	0,0	1,0	25,0	28,7	0,0	0,0	0,0
64	13/07/2013 07:30	25,0	26,5	1,0	1,0	1,0	25,0	26,4	2,0	2,0	2,0	25,0	28,7	0,0	-1,0	2,0	25,0	28,7	1,0	-2,0	-1,0
65	18/07/2013 07:30	25,0	26,5	1,0	1,0	1,0	25,0	26,4	1,0	2,0	1,0	25,0	28,7	0,0	0,0	1,0	25,0	28,7	1,0	-1,0	0,0
66	25/07/2013 18:00	27,0	26,5	2,0	0,0	0,0	27,0	26,4	1,0	1,0	1,0	27,0	28,7	0,0	0,0	2,0	27,0	28,7	0,0	0,0	0,0
67	31/07/2013 09:00	27,0	26,5	1,0	1,0	1,0	27,0	26,4	1,0	1,0	1,0	27,0	28,7	0,0	-1,0	1,0	27,0	28,7	0,0	-1,0	0,0
68	07/08/2013 09:00	29,0	26,5	1,0	1,0	2,0	29,0	26,4	1,0	1,0	2,0	29,0	28,7	-1,0	0,0	2,0	29,0	28,7	0,0	-1,0	0,0
69	13/08/2013 09:00	27,0	26,5	0,0	2,0	3,0	27,0	26,4	0,0	2,0	3,0	27,0	28,7	-2,0	1,0	2,0	27,0	28,7	-1,0	-1,0	0,0
70	21/08/2013 07:30	23,0	26,5	1,0	2,0	0,0	23,0	26,4	1,0	3,0	1,0	23,0	28,7	-1,0	1,0	1,0	23,0	28,7	0,0	0,0	0,0
71	28/08/2013 10:30	25,0	26,5	2,0	1,0	0,0	25,0	26,4	2,0	1,0	1,0	25,0	28,7	-1,0	1,0	2,0	25,0	28,7	0,0	0,0	0,0
72	06/09/2013 17:30	29,0	26,5	2,0	1,0	1,0	29,0	26,4	2,0	3,0	0,0	29,0	28,7	-1,0	1,0	1,0	29,0	28,7	0,0	-1,0	-1,0
73	13/09/2013 07:30	18,0	26,5	2,0	2,0	1,0	18,0	26,4	2,0	3,0	0,0	18,0	28,7	-1,0	2,0	2,0	18,0	28,7	0,0	0,0	0,0
74	21/09/2013 09:30	21,0	26,5	3,0	1,0	-1,0	21,0	26,4	2,0	3,0	0,0	21,0	28,7	-1,0	1,0	1,0	21,0	28,7	0,0	0,0	-1,0
75	26/09/2013 09:30	18,0	26,5	3,0	1,0	0,0	18,0	26,4	2,0	2,0	1,0	18,0	28,7	-1,0	0,0	1,0	18,0	28,7	-1,0	0,0	-1,0
76	03/10/2013 16:30	20,0	26,5	3,0	3,0	-1,0	20,0	26,4	2,0	3,0	1,0	20,0	28,7	-1,0	1,0	1,0	20,0	28,7	0,0	1,0	-1,0
77	10/10/2013 08:30	16,0	26,5	3,0	3,0	2,0	16,0	26,4	3,0	3,0	1,0	16,0	28,7	0,0	1,0	2,0	16,0	28,7	0,0	0,0	1,0
78	16/10/2013 14:30	23,0	26,5	2,0	1,0	1,0	23,0	26,4	3,0	3,0	1,0	23,0	28,7	-1,0	0,0	2,0	23,0	28,7	0,0	-1,0	0,0
79	24/10/2013 08:30	18,0	26,5	2,0	2,0	2,0	18,0	26,4	2,0	3,0	2,0	18,0	28,7	-2,0	1,0	3,0	18,0	28,7	-1,0	0,0	0,0
80	31/10/2013 14:30	23,0	26,5	2,0	3,0	1,0	23,0	26,4	2,0	4,0	1,0	23,0	28,7	-1,0	1,0	2,0	23,0	28,7	0,0	0,0	0,0
81	07/11/2013 08:30	11,0	26,5	2,0	3,0	2,0	11,0	26,4	2,0	4,0	2,0	11,0	28,7	-1,0	2,0	2,0	11,0	28,7	-1,0	1,0	0,0
82	14/11/2013 14:30	20,0	26,5	2,0	3,0	1,0	20,0	26,4	2,0	3,0	1,0	20,0	28,7	-1,0	2,0	2,0	20,0	28,7	-1,0	0,0	0,0
83	25/11/2013 15:30	12,0	26,5	2,0	3,0	2,0	12,0	26,4	2,0	4,0	2,0	12,0	28,7	-1,0	0,0	2,0	12,0	28,7	-1,0	0,0	1,0
84	30/11/2013 08:30	7,0	26,5	2,0	2,0	1,0	7,0	26,4	2,0	3,0	2,0	7,0	28,7	-1,0	2,0	2,0	7,0	28,7	-1,0	0,0	0,0
85	05/12/2013 08:30	7,0	26,5	3,0	3,0	1,0	7,0	26,4	2,0	4,0	2,0	7,0	28,7	-1,0	1,0	1,0	7,0	28,7	-1,0	0,0	0,0
86	19/12/2013 13:00	8,0	26,5	2,0	2,0	2,0	8,0	26,4	1,0	2,0	2,0	8,0	28,7	-3,0	1,0	2,0	8,0	28,7	-2,0	-1,0	0,0
87	27/12/2013 09:00	8,0	26,5	1,0	2,0	3,0	8,0	26,4	1,0	1,0	2,0	8,0	28,7	-3,0	0,0	1,0	8,0	28,7	-2,0	-2,0	0,0
88	02/01/2014 07:30	14,0	26,5	1,0	1,0	4,0	14,0	26,4	1,0	1,0	3,0	14,0	28,7	-2,0	0,0	2,0	14,0	28,7	-2,0	-1,0	-1,0
89	08/01/2014 14:30	14,0	26,5	3,0	3,0	1,0	14,0	26,4	3,0	4,0	1,0	14,0	28,7	-1,0	2,0	2,0	14,0	28,7	-1,0	1,0	0,0
90	15/01/2014 08:30	11,0	26,5	3,0	4,0	1,0	11,0	26,4	3,0	4,0	1,0	11,0	28,7	-1,0	2,0	2,0	11,0	28,7	-1,0	1,0	0,0
91	22/01/2014 14:30	12,0	26,5	3,0	4,0	2,0	12,0	26,4	2,0	5,0	2,0	12,0	28,7	-1,0	3,0	2,0	12,0	28,7	0,0	0,0	-1,0
92	29/01/2014 08:30	7,0	26,5	3,0	1,0	1,0	7,0	26,4	2,0	3,0	2,0	7,0	28,7	-1,0	0,0	2,0	7,0	28,7	-1,0	-2,0	-1,0
93	06/02/2014 14:30	14,0	26,5	3,0	2,0	1,0	14,0	26,4	2,0	3,0	1,0	14,0	28,7	-1,0	1,0	1,0	14,0	28,7	0,0	-1,0	0,0
94	12/02/2014 08:30	11,0	26,5	3,0	5,0	1,0	11,0	26,4	2,0	4,0	1,0	11,0	28,7	0,0	2,0	2,0	11,0	28,7	0,0	0,0	-1,0
95	19/02/2014 14:30	18,0	26,5	3,0	3,0	1,0	18,0	26,4	2,0	3,0	0,0	18,0	28,7	0,0	0,0	2,0	18,0	28,7	0,0	0,0	0,0
96	28/02/2014 08:30	12,0	26,5	3,0	4,0	0,0						12,0	28,7	-1,0	0,0	0,0	12,0	28,7	-1,0	-1,0	-2,0
97	06/03/2014 16:30	15,0	26,5	3,0	2,0	0,0						15,0	28,7	-1,0	2,0	1,0	15,0	28,7	0,0	-1,0	-2,0
98	10/03/2014 08:30	10,0	26,5	3,0	2,0	0,0						10,0	28,7	-1,0	1,0	1,0	10,0	28,7	0,0	1,0	-1,0
99	17/03/2014 15:30	15,0	26,5	2,0	2,0	0,0						15,0	28,7	-1,0	1,0	1,0	15,0	28,7	0,0	0,0	-2,0
100	24/03/2014 08:30	10,0	26,5	2,0	3,0	1,0						10,0	28,7	-1,0	1,0	1,0	10,0	28,7	0,0	0,0	0,0
101	01/04/2014 18:30	15,0	26,5	3,0	2,0	0,0						15,0	28,7	-1,0	0,0	0,0	15,0	28,7	0,0	0,0	-2,0
102	09/04/2014 08:30	15,0	26,5	2,0	4,0	1,0						15,0	28,7	-1,0	1,0	1,0	15,0	28,7	-1,0	1,0	-2,0
103	16/04/2014 08:30	10,0	26,5	2,0	2,0	-1,0						10,0	28,7	-1,0	2,0	1,0	10,0	28,7	-1,0	1,0	0,0
104	24/04/2014 08:30	15,0	26,5	3,0	3,0	-1,0						15,0	28,7	-1,0	1,0	0,0	15,0	28,7	-1,0	0,0	-2,0
105	06/05/2014 08:30	15,0	26,5	3,0	1,0	0,0						15,0	28,7	-1,0	1,0	1,0	15,0	28,7	-1,0	-1,0	-1,0
106	13/05/2014 08:30	18,0	26,5	3,0	2,0	-1,0						18,0	28,7	-1,0	1,0	0,0	18,0	28,7	-1,0	1,0	-1,0
107	22/05/2014 08:30	20,0	26,5	3,0	3,0	0,0						20,0	28,7	-1,0	1,0	0,0	20,0	28,7	-1,0	1,0	0,0
108	29/05/2014 08:30	18,0	26,5	3,0	0,0	0,0						18,0	28,7	-1,0	1,0	2,0	18,0	28,7	-1,0	0,0	0,0
109	11/06/2014 08:30	22,0	26,5	3,0	1,0	0,0						22,0	28,7	-1,0	1,0	1,0	22,0	28,7	-1,0	0,0	-1,0
110																					



Ubicazione STAZIONE CHIAIA
Opera \ \ Il Ordine di Tiranti \ 17-
Tipo Strumento Mire Ottiche
Data posa in opera 17/04/2012
Data lettura di zero 17/04/2012

GRAFICO QUOTA

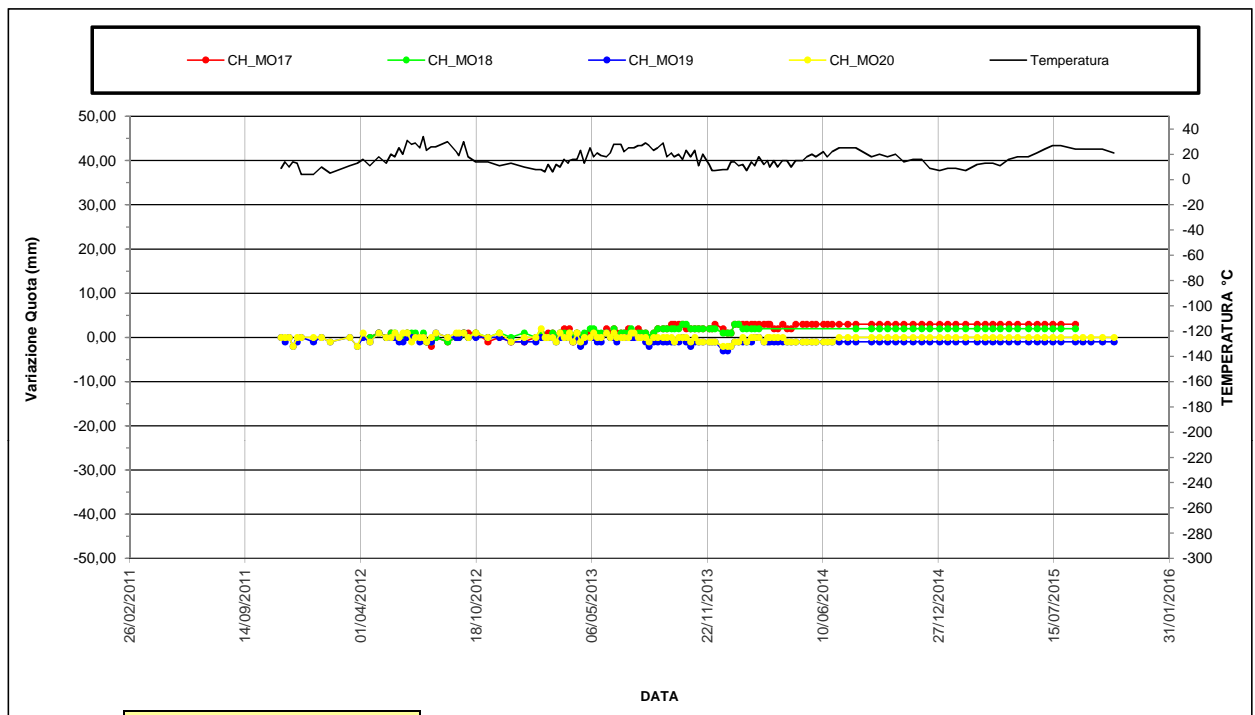
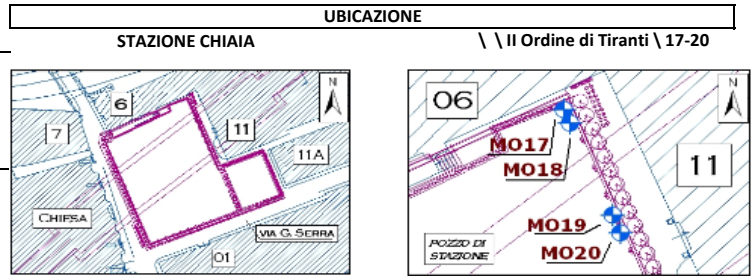
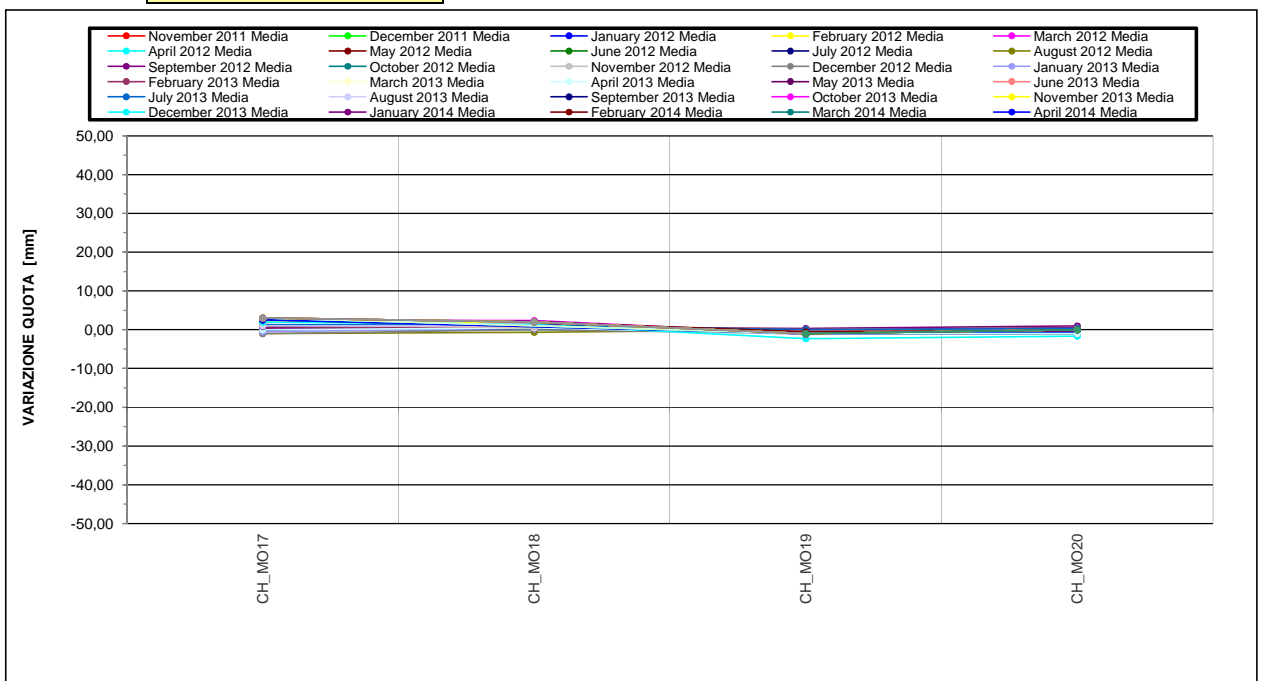


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ Il Ordine di Tiranti \ 17-
Tipo Strumento Mire Ottiche
Data posa in opera 17/04/2012
Data lettura di zero 17/04/2012

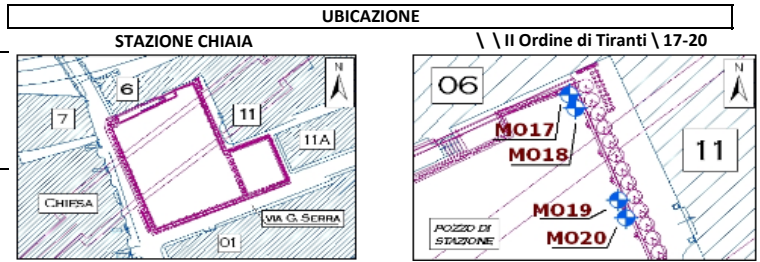


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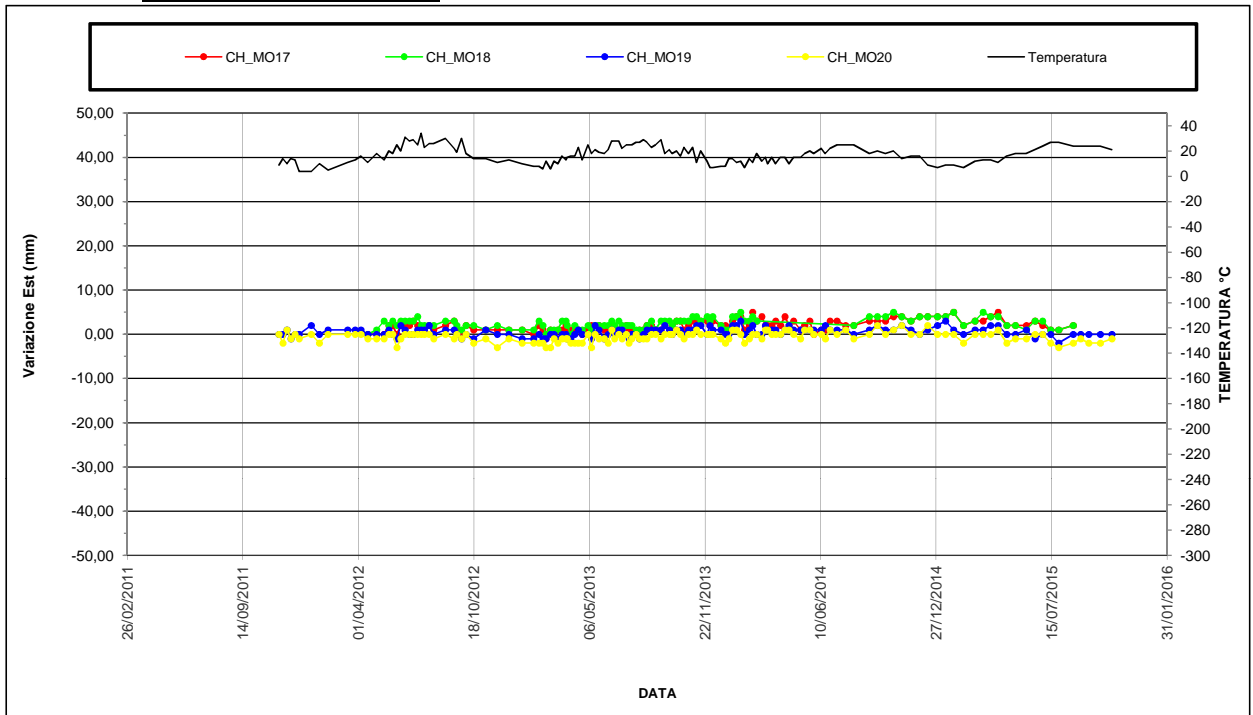
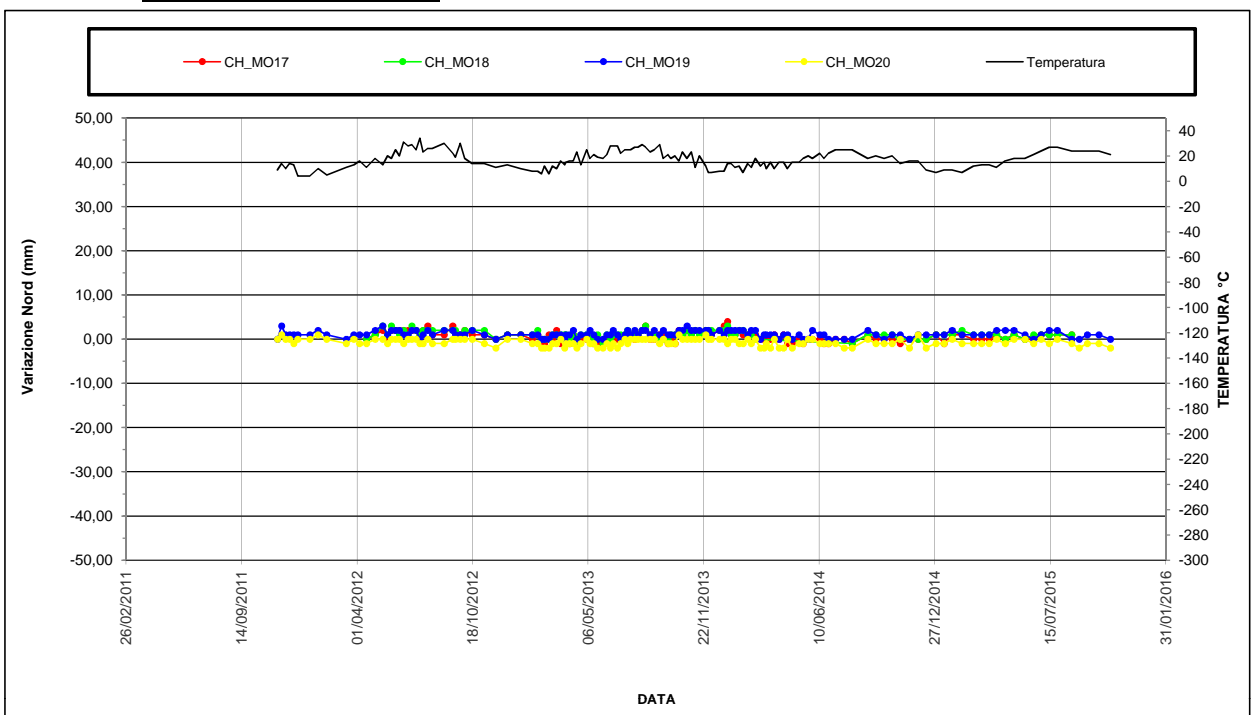


GRAFICO NORD





Ubicazione STAZIONE CHIAIA

Opera \ \ II Ordine di Tiranti \ 21-24

Tipo Strumento Mire Ottiche

Data posa in opera 02/08/2011

Data lettura di zero 02/08/2011

Ultima Misura 153 in data 27/10/2015

Letto. n°	DATA	CH_M021					CH_M022					CH_M023					CH_M024				
		Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]
63	23/04/2013 08:30	13,0	28,9	0,0	3,0	8,0	13,0	28,9	-2,0	3,0	7,0	13,0	28,8	-2,0	-5,0	6,0	13,0	28,8	-3,0	-5,0	5,0
64	03/05/2013 14:30	25,0	28,9	0,0	7,0	7,0	25,0	28,9	-1,0	5,0	7,0	25,0	28,8	-1,0	-4,0	7,0	25,0	28,8	-2,0	-4,0	6,0
65	09/05/2013 08:30	18,0	28,9	0,0	3,0	7,0	18,0	28,9	-2,0	2,0	8,0	18,0	28,8	-1,0	-4,0	8,0	18,0	28,8	-2,0	-5,0	7,0
66	15/05/2013 14:30	21,0	28,9	0,0	6,0	6,0	21,0	28,9	-1,0	4,0	6,0	21,0	28,8	-1,0	-7,0	3,0	21,0	28,8	-2,0	-6,0	3,0
67	22/05/2013 08:30	19,0	28,9	0,0	5,0	6,0	19,0	28,9	-1,0	3,0	7,0	19,0	28,8	-1,0	-6,0	6,0	19,0	28,8	-2,0	-6,0	6,0
68	31/05/2013 15:30	18,0	28,9	1,0	3,0	4,0	18,0	28,9	0,0	2,0	5,0	18,0	28,8	-2,0	-5,0	9,0	18,0	28,8	-3,0	-5,0	7,0
69	07/06/2013 08:30	21,0	28,9	0,0	5,0	6,0	21,0	28,9	-1,0	3,0	7,0	21,0	28,8	-2,0	-6,0	7,0	21,0	28,8	-3,0	-6,0	6,0
70	13/06/2013 14:30	28,0	28,9	1,0	7,0	6,0	28,0	28,9	0,0	5,0	7,0	28,0	28,8	-1,0	-4,0	7,0	28,0	28,8	-1,0	-4,0	5,0
71	18/06/2013 09:00	28,0	28,9	-1,0	5,0	7,0	28,0	28,9	-2,0	4,0	8,0	28,0	28,8	-1,0	-6,0	8,0	28,0	28,8	-2,0	-6,0	7,0
72	25/06/2013 18:00	28,0	28,9	0,0	7,0	6,0	28,0	28,9	-1,0	6,0	6,0	28,0	28,8	-1,0	-6,0	7,0	28,0	28,8	-2,0	-5,0	6,0
73	01/07/2013 07:30	22,0	28,9	1,0	7,0	7,0	22,0	28,9	-1,0	6,0	8,0	22,0	28,8	0,0	-6,0	5,0	22,0	28,8	-2,0	-6,0	5,0
74	08/07/2013 17:30	25,0	28,9	1,0	5,0	7,0	25,0	28,9	-1,0	5,0	8,0	25,0	28,8	1,0	-9,0	5,0	25,0	28,8	0,0	-9,0	4,0
75	13/07/2013 07:30	25,0	28,9	0,0	6,0	8,0	25,0	28,9	-1,0	5,0	9,0	25,0	28,8	0,0	-8,0	7,0	25,0	28,8	-2,0	-8,0	5,0
76	18/07/2013 07:30	25,0	28,9	-1,0	7,0	8,0	25,0	28,9	-1,0	5,0	8,0	25,0	28,8	1,0	-7,0	6,0	25,0	28,8	-1,0	-8,0	5,0
77	25/07/2013 18:00	27,0	28,9	0,0	8,0	9,0	27,0	28,9	-1,0	6,0	9,0	27,0	28,8	0,0	-7,0	6,0	27,0	28,8	-1,0	-7,0	5,0
78	31/07/2013 09:00	27,0	28,9	0,0	6,0	9,0	27,0	28,9	-2,0	6,0	9,0	27,0	28,8	1,0	-6,0	8,0	27,0	28,8	-1,0	-6,0	7,0
79	07/08/2013 09:00	29,0	28,9	0,0	7,0	7,0	29,0	28,9	-2,0	6,0	7,0	29,0	28,8	-1,0	-6,0	7,0	29,0	28,8	-2,0	-6,0	5,0
80	13/08/2013 09:00	27,0	28,9	0,0	8,0	6,0	27,0	28,9	-1,0	7,0	6,0	27,0	28,8	-2,0	-6,0	6,0	27,0	28,8	-3,0	-6,0	4,0
81	21/08/2013 07:30	23,0	28,9	0,0	10,0	8,0	23,0	28,9	0,0	8,0	9,0	23,0	28,8	1,0	-7,0	7,0	23,0	28,8	0,0	-7,0	6,0
82	28/08/2013 10:30	25,0	28,9	0,0	10,0	8,0	25,0	28,9	-1,0	7,0	9,0	25,0	28,8	1,0	-8,0	10,0	25,0	28,8	0,0	-9,0	8,0
83	06/09/2013 17:30						29,0	28,9	-1,0	5,0	10,0	29,0	28,8	0,0	-8,0	8,0	29,0	28,8	-1,0	-8,0	5,0
84	13/09/2013 07:30	18,0	28,9	2,0	8,0	8,0	18,0	28,9	0,0	6,0	9,0	18,0	28,8	0,0	-8,0	7,0	18,0	28,8	-1,0	-7,0	5,0
85	21/09/2013 09:30	21,0	28,9	1,0	7,0	7,0	21,0	28,9	-1,0	6,0	8,0	21,0	28,8	0,0	-8,0	8,0	21,0	28,8	-1,0	-7,0	7,0
86	26/09/2013 09:30	18,0	28,9	1,0	9,0	8,0	18,0	28,9	0,0	6,0	9,0	18,0	28,8	0,0	-9,0	8,0	18,0	28,8	-1,0	-8,0	6,0
87	03/10/2013 16:30	20,0	28,9	2,0	8,0	8,0	20,0	28,9	1,0	5,0	8,0	20,0	28,8	0,0	-8,0	7,0	20,0	28,8	-1,0	-8,0	6,0
88	10/10/2013 08:30	16,0	28,9	2,0	10,0	10,0	16,0	28,9	2,0	8,0	10,0	16,0	28,8	0,0	-8,0	7,0	16,0	28,8	-1,0	-8,0	5,0
89	16/10/2013 14:30	23,0	28,9	1,0	9,0	10,0	23,0	28,9	0,0	6,0	10,0	23,0	28,8	-1,0	-8,0	8,0	23,0	28,8	-2,0	-8,0	7,0
90	24/10/2013 08:30	18,0	28,9	1,0	9,0	10,0	18,0	28,9	0,0	6,0	11,0	18,0	28,8	-1,0	-7,0	7,0	18,0	28,8	-2,0	-6,0	6,0
91	31/10/2013 14:30	23,0	28,9	1,0	9,0	11,0	23,0	28,9	0,0	6,0	10,0	23,0	28,8	-1,0	-8,0	8,0	23,0	28,8	-2,0	-8,0	7,0
92	07/11/2013 08:30	11,0	28,9	0,0	9,0	11,0	11,0	28,9	0,0	6,0	10,0	11,0	28,8	-1,0	-8,0	6,0	11,0	28,8	-2,0	-8,0	6,0
93	14/11/2013 14:30	20,0	28,9	0,0	7,0	11,0	20,0	28,9	0,0	8,0	11,0	20,0	28,8	-1,0	-9,0	7,0	20,0	28,8	-2,0	-8,0	6,0
94	25/11/2013 15:30	12,0	28,9	0,0	7,0	10,0	12,0	28,9	1,0	7,0	11,0	12,0	28,8	-1,0	-7,0	7,0	12,0	28,8	-2,0	-7,0	6,0
95	30/11/2013 08:30	7,0	28,9	1,0	8,0	11,0	7,0	28,9	1,0	7,0	10,0	7,0	28,8	-1,0	-7,0	9,0	7,0	28,8	-2,0	-7,0	7,0
96	05/12/2013 08:30	7,0	28,9	2,0	7,0	9,0	7,0	28,9	1,0	6,0	9,0	7,0	28,8	0,0	-8,0	6,0	7,0	28,8	-2,0	-8,0	6,0
97	19/12/2013 13:00	8,0	28,9	2,0	5,0	7,0	8,0	28,9	0,0	5,0	7,0	8,0	28,8	-2,0	-7,0	5,0	8,0	28,8	-4,0	-7,0	4,0
98	27/12/2013 08:30	8,0	28,9	1,0	4,0	5,0	8,0	28,9	-1,0	6,0	8,0	8,0	28,8	-3,0	-7,0	6,0	8,0	28,8	-4,0	-7,0	5,0
99	02/01/2014 07:30	14,0	28,9	0,0	3,0	4,0	14,0	28,9	0,0	6,0	9,0	14,0	28,8	-4,0	-7,0	6,0	14,0	28,8	-5,0	-7,0	4,0
100	08/01/2014 14:30	14,0	28,9	2,0	9,0	11,0	14,0	28,9	2,0	9,0	10,0	14,0	28,8	-1,0	-9,0	10,0	14,0	28,8	-3,0	-9,0	8,0
101	15/01/2014 08:30	11,0	28,9	2,0	8,0	11,0	11,0	28,9	1,0	9,0	11,0	11,0	28,8	-1,0	-9,0	7,0	11,0	28,8	-2,0	-9,0	5,0
102	22/01/2014 14:30	12,0	28,9	2,0	7,0	10,0	12,0	28,9	1,0	8,0	10,0	12,0	28,8	0,0	-10,0	8,0	12,0	28,8	-1,0	-9,0	6,0
103	29/01/2014 08:30	7,0	28,9	2,0	6,0	11,0	7,0	28,9	1,0	6,0	11,0	7,0	28,8	0,0	-9,0	8,0	7,0	28,8	-1,0	-8,0	6,0
104	06/02/2014 14:30	14,0	28,9	2,0	8,0	10,0	14,0	28,9	1,0	8,0	9,0	14,0	28,8	-1,0	-10,0	9,0	14,0	28,8	-2,0	-10,0	7,0
105	12/02/2014 08:30	11,0	28,9	2,0	6,0	9,0	11,0	28,9	2,0	6,0	10,0	11,0	28,8	-1,0	-7,0	11,0	11,0	28,8	-2,0	-7,0	10,0
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109	10/03/2014 08:30	10,0	28,9	2,0	10,0	9,0	10,0	28,9	1,0	8,0	11,0	10,0	28,8	-1,0	-9,0	10,0	10,0	28,8	-3,0	-9,0	7,0
110	17/03/2014 15:30	15,0	28,9	2,0	5,0	8,0	15,0	28,9	1,0	5,0	8,0	15,0	28,8	-1,0	-8,0	10,0	15,0	28,8	-2,0	-7,0	8,0
111	24/03/2014 08:30	10,0	28,9	2,0	8,0	8,0	10,0	28,9	1,0	6,0	9,0	10,0	28,8	-1,0	-9,0	8,0	10,0	28,8	-2,0	-9,0	6,0
112	01/04/2014 18:30	15,0	28,9	2,0	7,0	8,0	15,0	28,9	1,0	4,0	9,0	15,0	28,8	-1,0	-10,0	13,0	15,0	28,8	-2,0	-10,0	10,0
113	09/04/2014 08:30	15,0	28,9	1,0	9,0	9,0	15,0	28,9	1,0	5,0	10,0	15,0	28,8	-1,0	-9,0	10,0	15,0	28,8	-2,0	-8,0	9,0
114	16/04/2014 08:30	10,0	28,9	1,0	12,0	10,0	10,0	28,9	0,0	8,0	11,0	10,0	28,8	-1,0	-11,0	10,0	10,0	28,8	-2,0	-10,0	8,0
115	24/04/2014 08:30	15,0	28,9	1,0	7,0	9,0	15,0	28,9	0,0	6,0	9,0	15,0	28,8	-1,0	-9,0	11,0	15,0	28,8	-3,0	-10,0	8,0
116	06/05/2014 08:30	15,0	28,9	1,0	8,0	10,0	15,0	28,9	0,0	8,0	12,0	15,0	28,8	-1,0	-10,0	10,0	15,0	28,8	-3,0	-9,0	8,0
117	13/05/2014 08:30	18,0	28,9	1,0	11,0	10,0	18,0	28,9	0,0	10,0	11,0	18,0	28,8	-1,0	-9,0	10,0	18,0	28,8	-3,0	-8,0	10,0
118	22/05/2014 08:30	20,0	28,9	1,0	8,0	10,0	20,0	28,9	0,0	7,0	11,0	20,0	28,8	-1,0	-10,0	11,0	20,0	28,8	-3,0	-10,0	8,0
119	29/05/2014 08:30	18,0	28																		



Ubicazione STAZIONE CHIAIA
Opera \ \ Il Ordine di Tiranti \ 21-
Tipo Strumento Mire Ottiche
Data posa in opera 02/08/2011
Data lettura di zero 02/08/2011

GRAFICO QUOTA

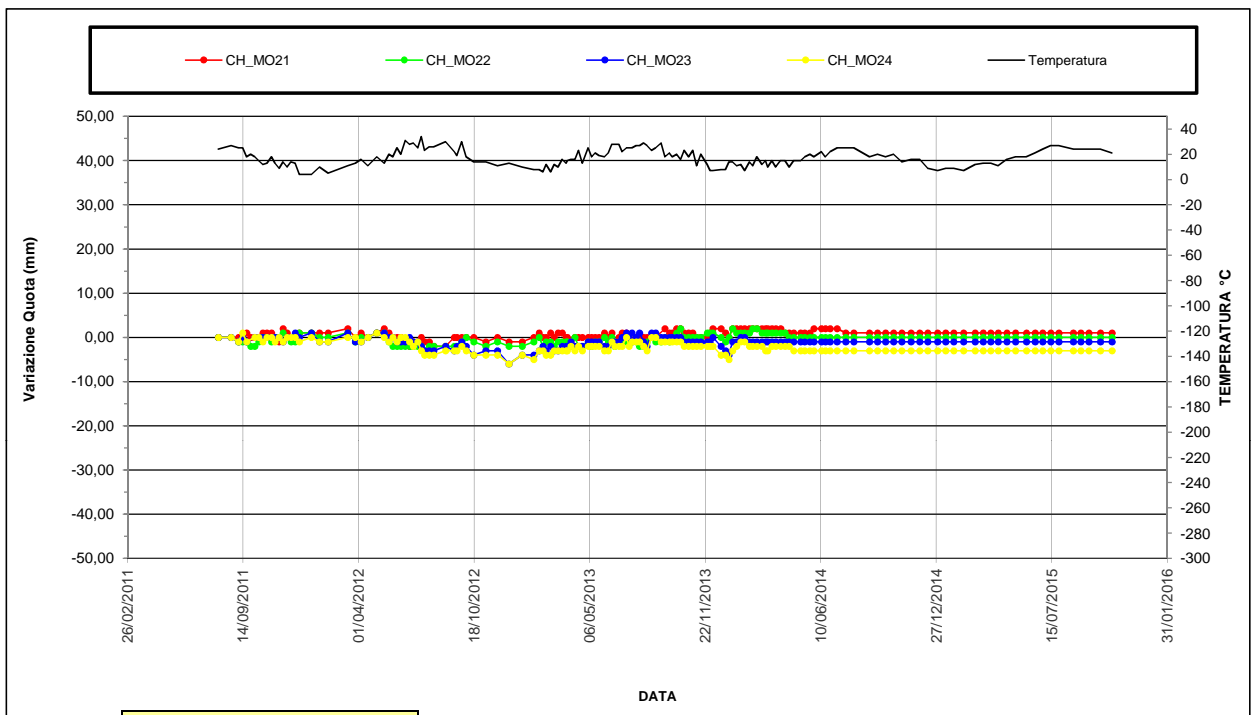
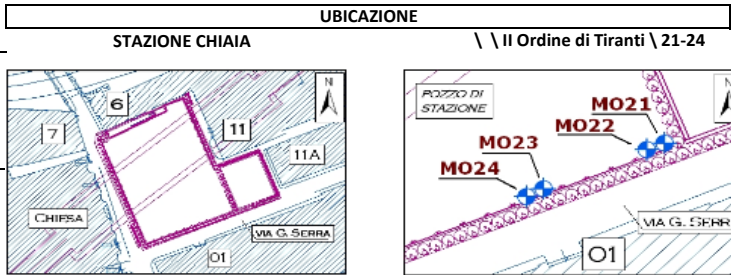
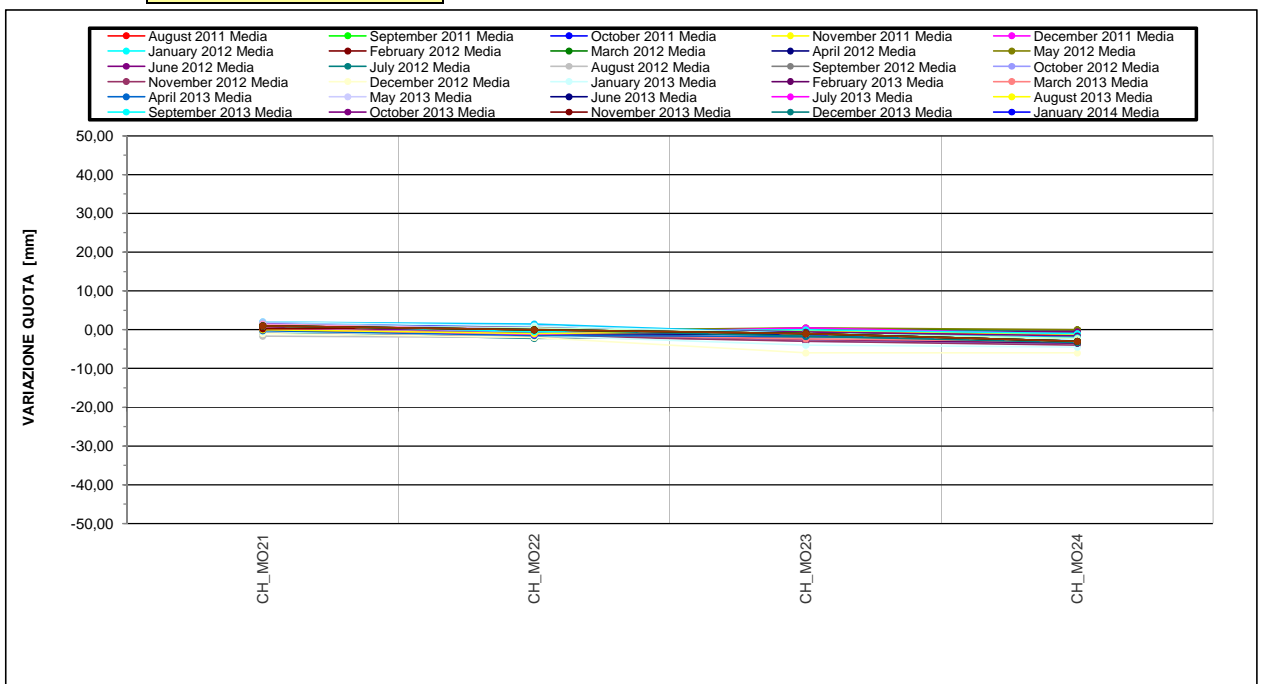


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ Il Ordine di Tiranti \ 21-
Tipo Strumento Mire Ottiche
Data posa in opera 02/08/2011
Data lettura di zero 02/08/2011

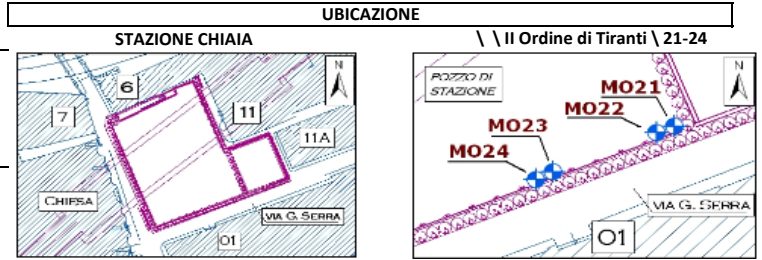


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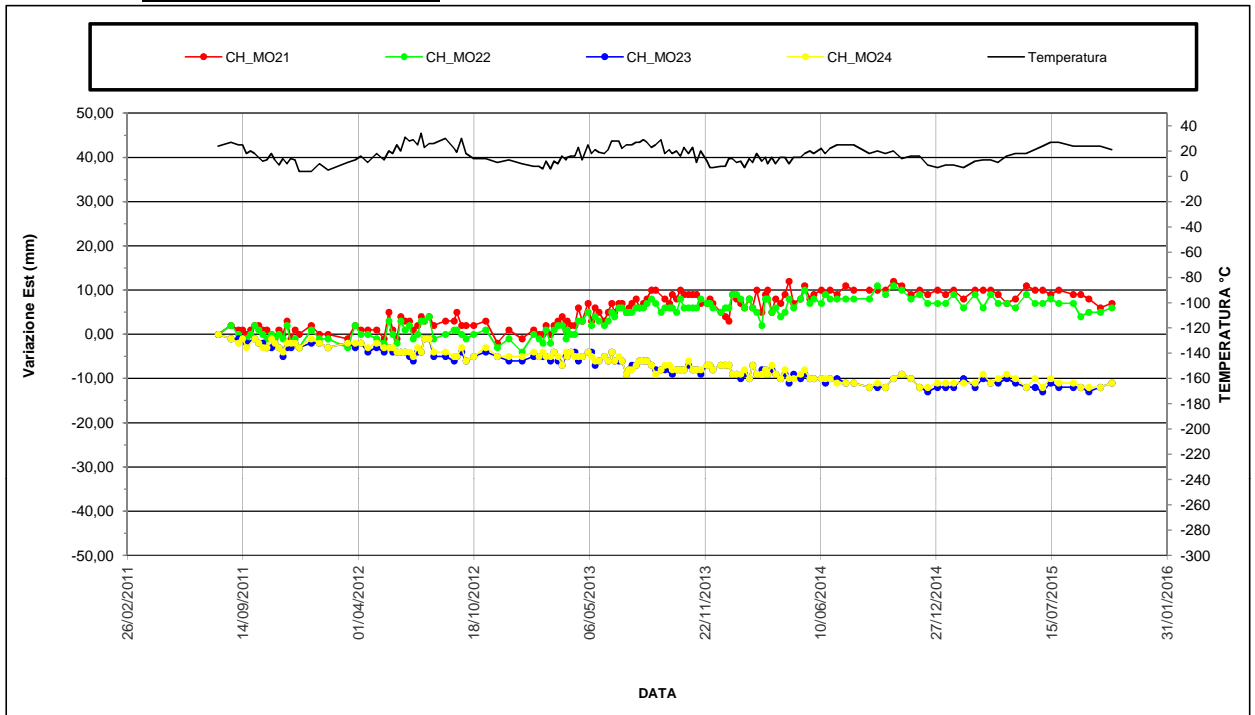
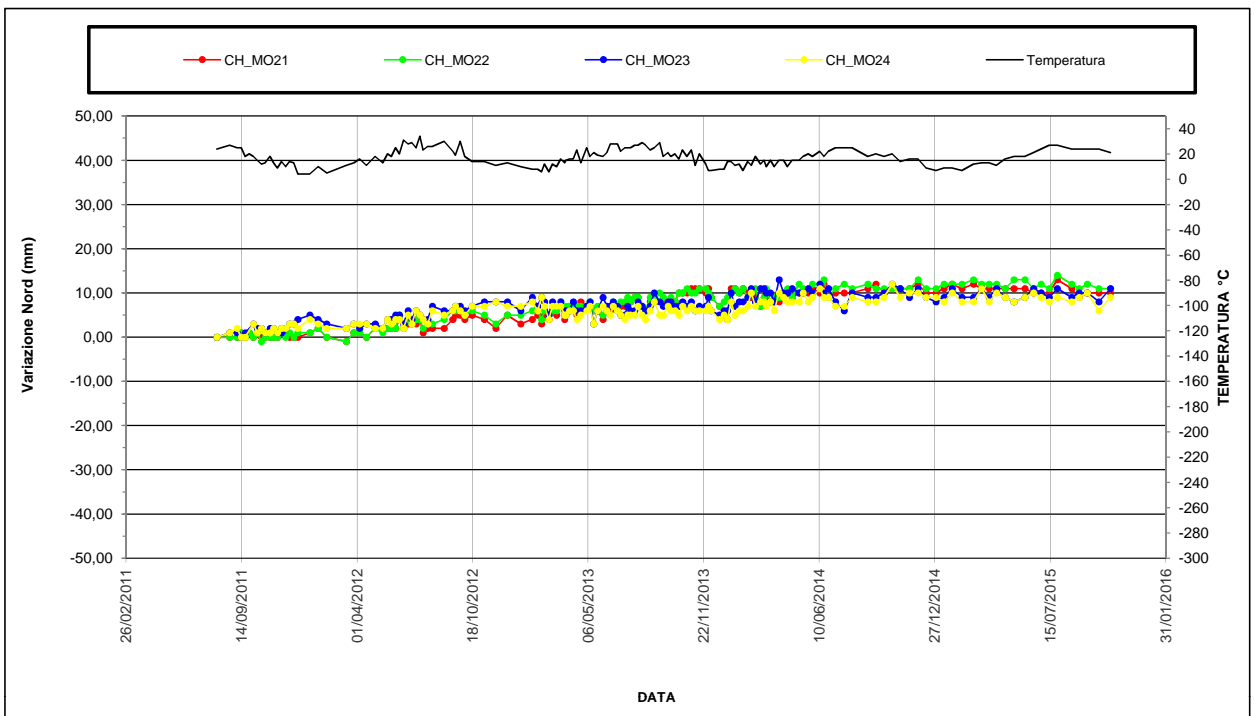


GRAFICO NORD





Ubicazione STAZIONE CHIAIA

Opera \ \ II Ordine di Tiranti \ 25-28

Tipo Strumento Mire Ottiche

Data posa in opera 25/07/2011

Data lettura di zero 25/07/2011

Ultima Misura 155 in data 27/10/2015

Letto. n°	DATA	CH_M025					CH_M026					CH_M027					CH_M028				
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66	03/05/2013 14:30	25,0	29,9	-2,0	-1,0	5,0	25,0	30,0	-1,0	0,0	5,0	25,0	29,8	-2,0	3,0	1,0	25,0	29,8	-2,0	4,0	0,0
67	09/05/2013 08:30	18,0	29,9	-2,0	0,0	5,0	18,0	30,0	-1,0	-1,0	4,0	18,0	29,8	-2,0	3,0	-1,0	18,0	29,8	-2,0	3,0	0,0
68	15/05/2013 14:30	21,0	29,9	0,0	-2,0	3,0	21,0	30,0	0,0	-3,0	2,0	21,0	29,8	-1,0	1,0	-1,0	21,0	29,8	-2,0	1,0	2,0
69	22/05/2013 08:30	19,0	29,9	-1,0	-2,0	6,0	19,0	30,0	-1,0	-3,0	4,0	19,0	29,8	-2,0	1,0	0,0	19,0	29,8	-2,0	1,0	0,0
70	31/05/2013 15:30	18,0	29,9	-2,0	0,0	7,0	18,0	30,0	-2,0	-2,0	4,0	18,0	29,8	-3,0	2,0	0,0	18,0	29,8	-3,0	3,0	1,0
71	07/06/2013 08:30	21,0	29,9	-2,0	-2,0	6,0	21,0	30,0	-2,0	-2,0	4,0	21,0	29,8	-3,0	2,0	0,0	21,0	29,8	-3,0	2,0	1,0
72	13/06/2013 14:30	28,0	29,9	-1,0	0,0	5,0	28,0	30,0	0,0	-1,0	4,0	28,0	29,8	-2,0	4,0	0,0	28,0	29,8	-2,0	4,0	-1,0
73	18/06/2013 09:00	28,0	29,9	-2,0	-2,0	6,0	28,0	30,0	0,0	-2,0	5,0	28,0	29,8	-4,0	2,0	0,0	28,0	29,8	-3,0	3,0	1,0
74	25/06/2013 18:00	28,0	29,9	-2,0	-2,0	6,0	28,0	30,0	-1,0	-3,0	4,0	28,0	29,8	-4,0	2,0	0,0	28,0	29,8	-3,0	3,0	0,0
75	01/07/2013 07:30	22,0	29,9	-1,0	-3,0	5,0	22,0	30,0	-1,0	-4,0	4,0	22,0	29,8	-3,0	2,0	0,0	22,0	29,8	-3,0	3,0	0,0
76	08/07/2013 17:30	25,0	29,9	1,0	-5,0	5,0	25,0	30,0	1,0	-6,0	4,0	25,0	29,8	-1,0	0,0	0,0	25,0	29,8	-1,0	1,0	1,0
77	13/07/2013 07:30	25,0	29,9	-1,0	-3,0	6,0	25,0	30,0	-1,0	-5,0	5,0	25,0	29,8	-4,0	1,0	1,0	25,0	29,8	-3,0	2,0	2,0
78	18/07/2013 07:30	25,0	29,9	1,0	-3,0	6,0	25,0	30,0	0,0	-5,0	3,0	25,0	29,8	-2,0	3,0	0,0	25,0	29,8	-2,0	3,0	1,0
79	25/07/2013 18:00	27,0	29,9	0,0	-3,0	7,0	27,0	30,0	-1,0	-4,0	4,0	27,0	29,8	-3,0	2,0	0,0	27,0	29,8	-2,0	2,0	1,0
80	31/07/2013 09:00	27,0	29,9	0,0	-2,0	6,0	27,0	30,0	1,0	-3,0	5,0	27,0	29,8	-3,0	3,0	1,0	27,0	29,8	-3,0	4,0	0,0
81	07/08/2013 09:00	29,0	29,9	-1,0	-2,0	5,0	29,0	30,0	0,0	-3,0	4,0	29,0	29,8	-4,0	3,0	1,0	29,0	29,8	-4,0	4,0	0,0
82	13/08/2013 09:00	27,0	29,9	-2,0	-3,0	4,0	27,0	30,0	-1,0	-4,0	3,0	27,0	29,8	-5,0	2,0	1,0	27,0	29,8	-5,0	3,0	1,0
83	21/08/2013 07:30	23,0	29,9	-1,0	-4,0	6,0	23,0	30,0	0,0	-3,0	5,0	23,0	29,8	-2,0	3,0	1,0	23,0	29,8	-3,0	2,0	1,0
84	28/08/2013 10:30	25,0	29,9	1,0	-5,0	9,0	25,0	30,0	1,0	-5,0	7,0	25,0	29,8	-2,0	0,0	3,0	25,0	29,8	-2,0	2,0	3,0
85	06/09/2013 17:30	29,0	29,9	0,0	-5,0	6,0	29,0	30,0	1,0	-4,0	5,0	29,0	29,8	-3,0	2,0	0,0	29,0	29,8	-3,0	2,0	1,0
86	13/09/2013 07:30	18,0	29,9	0,0	-3,0	6,0	18,0	30,0	1,0	-4,0	5,0	18,0	29,8	-2,0	3,0	1,0	18,0	29,8	-3,0	3,0	1,0
87	21/09/2013 09:30	21,0	29,9	-1,0	-4,0	7,0	21,0	30,0	-1,0	-4,0	6,0	21,0	29,8	-3,0	2,0	2,0	21,0	29,8	-3,0	3,0	2,0
88	26/09/2013 09:30	18,0	29,9	0,0	-4,0	7,0	18,0	30,0	0,0	-5,0	5,0	18,0	29,8	-3,0	1,0	2,0	18,0	29,8	-3,0	1,0	1,0
89	03/10/2013 16:30	20,0	29,9	-1,0	-4,0	6,0	20,0	30,0	-1,0	-4,0	5,0	20,0	29,8	-3,0	1,0	2,0	20,0	29,8	-3,0	1,0	1,0
90	10/10/2013 08:30	16,0	29,9	-1,0	-4,0	6,0	16,0	30,0	0,0	-4,0	6,0	16,0	29,8	-3,0	2,0	2,0	16,0	29,8	-3,0	1,0	0,0
91	16/10/2013 14:30	23,0	29,9	-1,0	-4,0	8,0	23,0	30,0	0,0	-5,0	6,0	23,0	29,8	-3,0	2,0	2,0	23,0	29,8	-4,0	1,0	2,0
92	24/10/2013 08:30	18,0	29,9	-1,0	-2,0	6,0	18,0	30,0	-1,0	-3,0	6,0	18,0	29,8	-3,0	4,0	2,0	18,0	29,8	-4,0	3,0	1,0
93	31/10/2013 14:30	23,0	29,9	-1,0	-4,0	7,0	23,0	30,0	-1,0	-4,0	5,0	23,0	29,8	-3,0	1,0	2,0	23,0	29,8	-4,0	1,0	2,0
94	07/11/2013 08:30	11,0	29,9	-1,0	-3,0	6,0	11,0	30,0	-1,0	-5,0	5,0	11,0	29,8	-4,0	1,0	0,0	11,0	29,8	-4,0	2,0	0,0
95	14/11/2013 14:30	20,0	29,9	-1,0	-4,0	7,0	20,0	30,0	0,0	-5,0	6,0	20,0	29,8	-3,0	1,0	2,0	20,0	29,8	-4,0	1,0	1,0
96	25/11/2013 15:30	12,0	29,9	-1,0	-2,0	6,0	12,0	30,0	0,0	-2,0	6,0	12,0	29,8	-3,0	2,0	0,0	12,0	29,8	-4,0	3,0	1,0
97	30/11/2013 08:30	7,0	29,9	-1,0	-3,0	7,0	7,0	30,0	0,0	-3,0	6,0	7,0	29,8	-3,0	2,0	2,0	7,0	29,8	-3,0	3,0	2,0
98	05/12/2013 08:30	7,0	29,9	-1,0	-3,0	7,0	7,0	30,0	1,0	-4,0	5,0	7,0	29,8	-3,0	1,0	2,0	7,0	29,8	-3,0	1,0	1,0
99	19/12/2013 13:00	8,0	29,9	-2,0	-4,0	5,0	8,0	30,0	-1,0	-5,0	4,0	8,0	29,8	-5,0	0,0	1,0	8,0	29,8	-4,0	1,0	2,0
100	27/12/2013 09:00	8,0	29,9	-3,0	-4,0	5,0	8,0	30,0	-1,0	-5,0	5,0	8,0	29,8	-8,0	-1,0	3,0	8,0	29,8	-5,0	0,0	3,0
101	02/01/2014 07:30	14,0	29,9	-4,0	-4,0	5,0	14,0	30,0	-2,0	-5,0	4,0	14,0	29,8	-7,0	0,0	2,0	14,0	29,8	-6,0	1,0	2,0
102	08/01/2014 14:30	14,0	29,9	-2,0	-4,0	8,0	14,0	30,0	-2,0	-5,0	6,0	14,0	29,8	-4,0	1,0	2,0	14,0	29,8	-4,0	1,0	2,0
103	15/01/2014 08:30	11,0	29,9	-1,0	-5,0	6,0	11,0	30,0	0,0	-5,0	6,0	11,0	29,8	-3,0	0,0	0,0	11,0	29,8	-4,0	1,0	1,0
104	22/01/2014 14:30	12,0	29,9	0,0	-5,0	7,0	12,0	30,0	0,0	-6,0	5,0	12,0	29,8	-2,0	0,0	1,0	12,0	29,8	-4,0	1,0	1,0
105	29/01/2014 08:30	7,0	29,9	-1,0	-4,0	7,0	7,0	30,0	0,0	-4,0	6,0	7,0	29,8	-3,0	1,0	2,0	7,0	29,8	-4,0	1,0	1,0
106	06/02/2014 14:30	14,0	29,9	-2,0	-5,0	8,0	14,0	30,0	-1,0	-6,0	7,0	14,0	29,8	-4,0	1,0	4,0	14,0	29,8	-4,0	1,0	3,0
107	12/02/2014 08:30	11,0	29,9	-2,0	-3,0	10,0	11,0	30,0	-2,0	-3,0	8,0	11,0	29,8	-5,0	1,0	5,0	11,0	29,8	-4,0	3,0	4,0
108	19/02/2014 14:30	18,0	29,9	-2,0	-5,0	7,0	18,0	30,0	-2,0	-6,0	6,0	18,0	29,8	-5,0	0,0	3,0	18,0	29,8	-4,0	2,0	2,0
109	28/02/2014 08:30	12,0	29,9	-1,0	-3,0	11,0	12,0	30,0	-2,0	-4,0	8,0	12,0	29,8	-4,0	2,0	4,0	12,0	29,8	-4,0	2,0	3,0
110	06/03/2014 16:30	15,0	29,9	-1,0	-2,0	9,0	15,0	30,0	-2,0	-4,0	7,0	15,0	29,8	-5,0	3,0	4,0	15,0	29,8	-4,0	2,0	3,0
111	10/03/2014 08:30	10,0	29,9	-2,0	-5,0	8,0	10,0	30,0	-2,0	-4,0	7,0	10,0	29,8	-4,0	1,0	6,0	10,0	29,8	-4,0	1,0	4,0
112	17/03/2014 15:30	15,0	29,9	-2,0	-3,0	8,0	15,0	30,0	-2,0	-4,0	6,0	15,0	29,8	-4,0	2,0	6,0	15,0	29,8	-4,0	2,0	3,0
113	24/03/2014 08:30	10,0	29,9	-2,0	-4,0	7,0	10,0	30,0	-2,0	-5,0	6,0	10,0	29,8	-4,0	3,0	4,0	10,0	29,8	-4,0	2,0	3,0
114	01/04/2014 18:30	15,0	29,9	-2,0	-5,0	11,0	15,0	30,0	-2,0	-6,0	8,0	15,0	29,8	-4,0	0,0	6,0	15,0	29,8	-4,0	0,0	5,0
115	09/04/2014 08:30	15,0	29,9	-2,0	-3,0	10,0	15,0	30,0	-2,0	-4,0	7,0	15,0	29,8	-4,0	3,0	5,0	15,0	29,8	-4,0	2,0	3,0
116	16/04/2014 08:30	10,0	29,9	-2,0	-7,0	8,0	10,0	30,0	-2,0	-7,0	8,0	10,0	29,8	-4,0	2,0	6,0	10,0	29,8	-4,0	0,0	4,0
117	24/04/2014 08:30	15,0	29,9	-3,0	-6,0	10,0	15,0	30,0	-2,0	-7,0	7,0	15,0	29,8	-4,0	2,0	6,0	15,0	29,8	-4,0	1,0	4,0
118	06/05/2014 08:30	15,0	29,9	-3,0	-4,0	8,0	15,0	30,0	-2,0	-5,0	7,0	15,0	29,8	-4,0	2,0	4,0	15,0	29,8	-5,0	2,0	1,0
119	13/05/2014 08:30	18,0	29,9	-3,0	-4,0	8,0	18,0	30,0	-2,0	-5,0	6,0	18,0	29,8	-4,0	3,0	5,0	18,0	29,8	-5,0	2,0	3,0
120	22/05/2014 08:30	20,0	29,9	-2,0	-6,0	9,0	20,0	30,0	-2,0	-6,0	5,0	20,0	29,8	-4,0	3,0	3,0	20,0	29,8	-5,0	2,0	2,0
121	29/05/2014 08:30	18,0	29,9	-3,0	-6,0	8,0	18,0	30,0</													



Ubicazione STAZIONE CHIAIA
Opera \ \ Il Ordine di Tiranti \ 25-
Tipo Strumento Mire Ottiche
Data posa in opera 25/07/2011
Data lettura di zero 25/07/2011

GRAFICO QUOTA

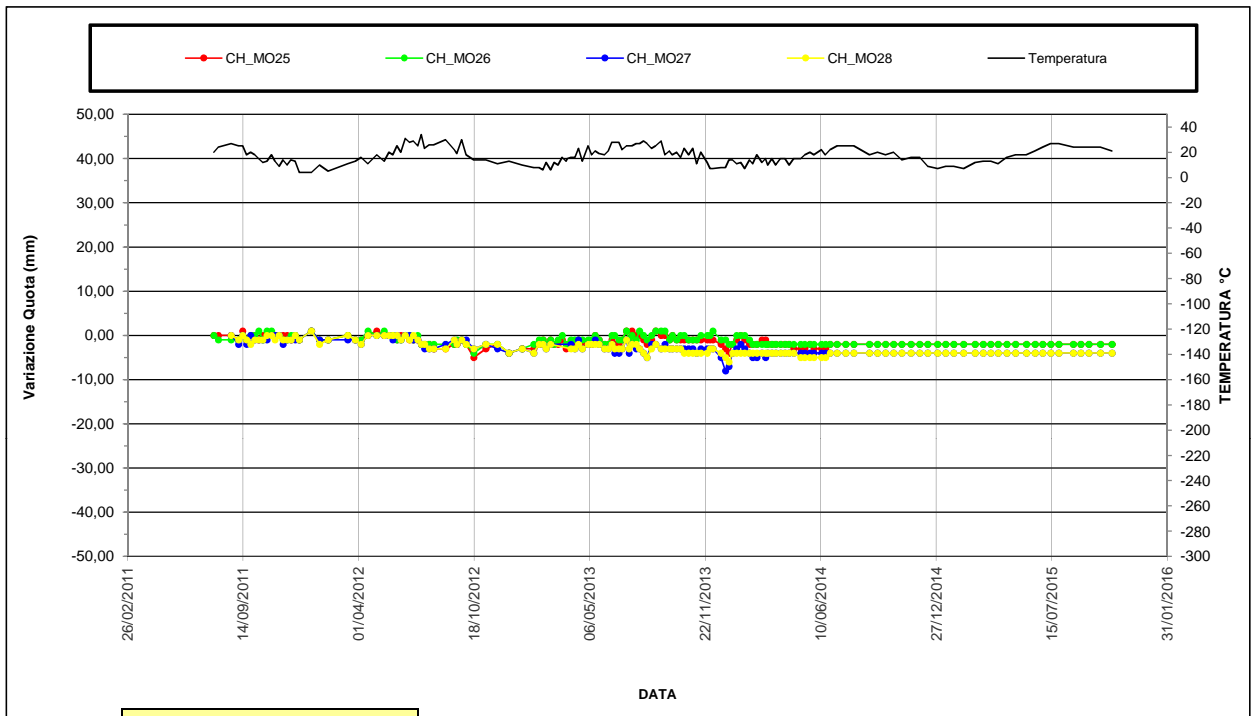
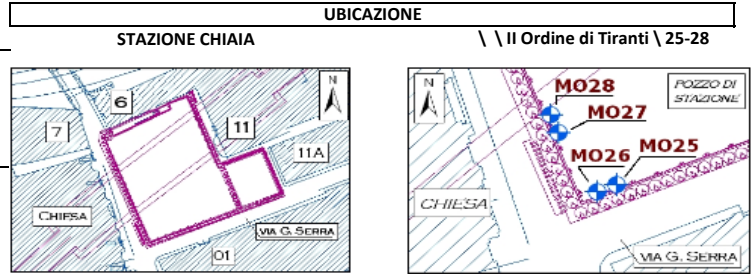
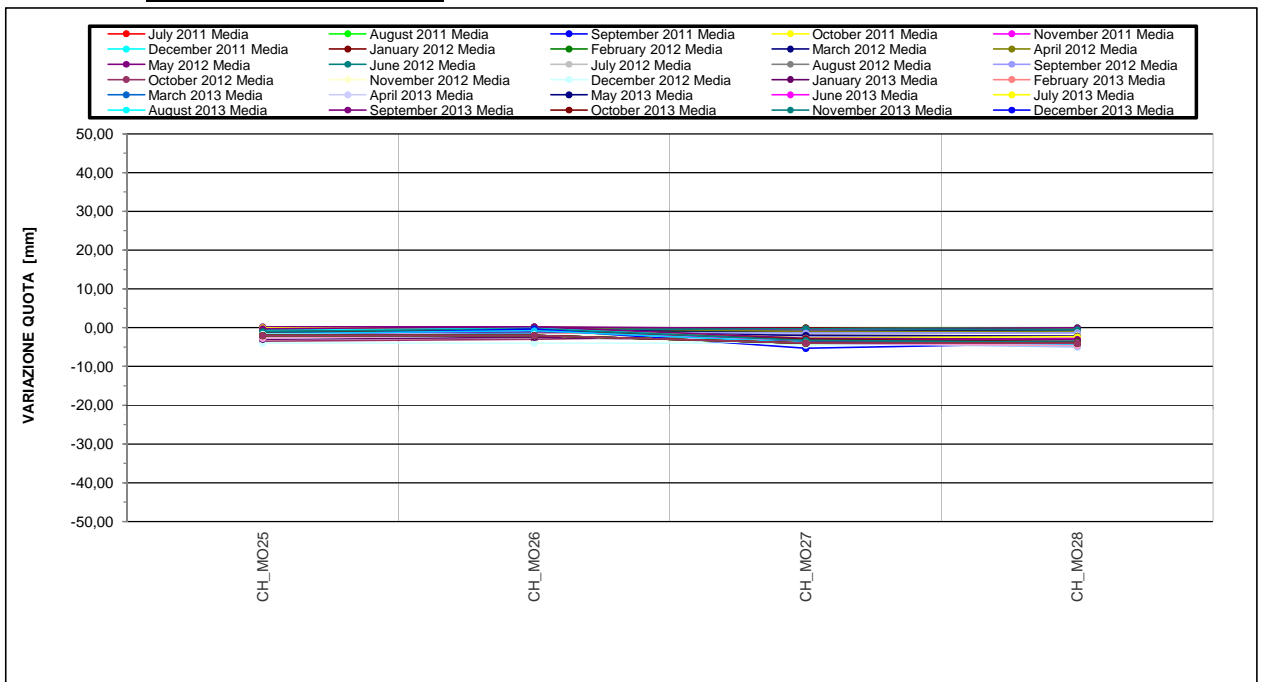


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ Il Ordine di Tiranti \ 25-
Tipo Strumento Mire Ottiche
Data posa in opera 25/07/2011
Data lettura di zero 25/07/2011

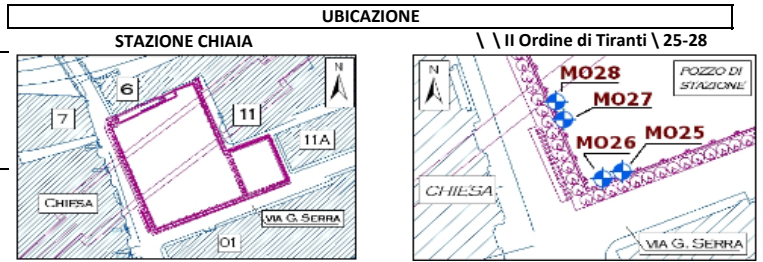


GRAFICO EST

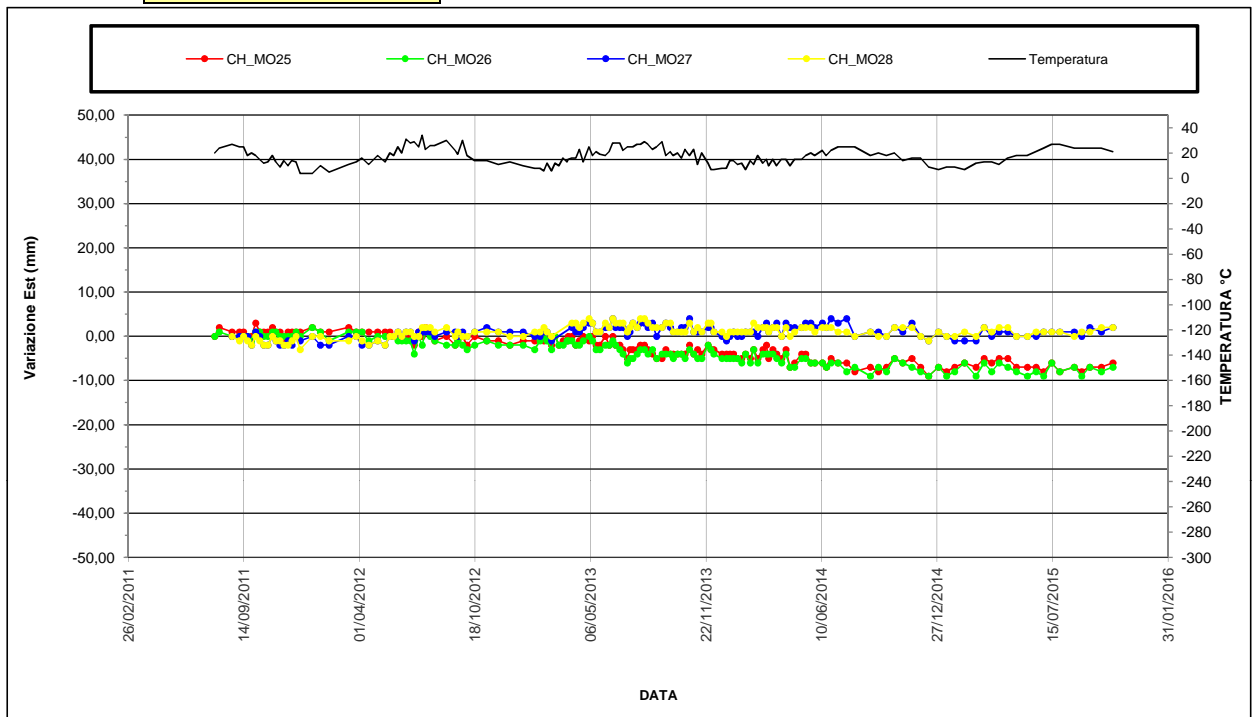
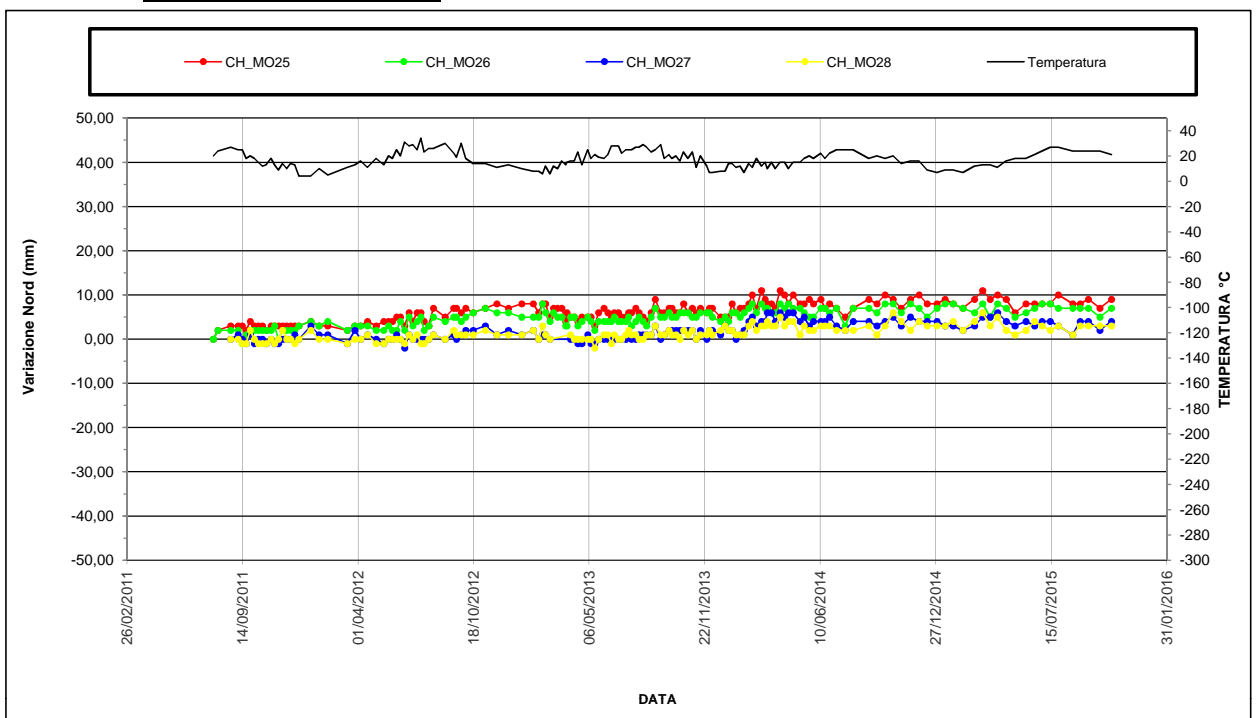


GRAFICO NORD





Ubicazione STAZIONE CHIAIA

Opera \ \ Il Ordine di Tiranti \ 29-32

Tipo Strumento Mire Ottiche

Data posa in opera 24/08/2011

Data lettura di zero 24/08/2011

Ultima Misura 153 in data 27/10/2015

Letto. n°	DATA	CH_M029					CH_M030					CH_M031					CH_M032				
		Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]	Temp. Media [°C]	Quota [m]	Quota Spost. [mm]	Est Spost. [mm]	Nord Spost. [mm]
63	23/04/2013 08:30	13,0	30,0	-3,0	4,0	1,0	13,0	30,0	-2,0	3,0	1,0	13,0	27,9	0,0	3,0	-1,0	13,0	28,0	-1,0	3,0	-1,0
64	03/05/2013 14:30	25,0	30,0	-1,0	4,0	1,0	25,0	30,0	-1,0	4,0	1,0	25,0	27,9	2,0	5,0	0,0	25,0	28,0	0,0	4,0	0,0
65	09/05/2013 08:30	18,0	30,0	-1,0	5,0	1,0	18,0	30,0	-2,0	4,0	2,0	18,0	27,9	2,0	4,0	1,0	18,0	28,0	0,0	3,0	0,0
66	15/05/2013 14:30	21,0	30,0	-1,0	4,0	-1,0	21,0	30,0	-1,0	2,0	-1,0	21,0	27,9	2,0	5,0	0,0	21,0	28,0	1,0	2,0	-1,0
67	22/05/2013 08:30	19,0	30,0	-1,0	4,0	1,0	19,0	30,0	-1,0	3,0	1,0	19,0	27,9	1,0	3,0	1,0	19,0	28,0	1,0	2,0	0,0
68	31/05/2013 15:30	18,0	30,0	-3,0	4,0	2,0	18,0	30,0	-2,0	4,0	3,0	18,0	27,9	0,0	2,0	1,0	18,0	28,0	0,0	2,0	0,0
69	07/06/2013 08:30	21,0	30,0	-4,0	5,0	1,0	21,0	30,0	-2,0	4,0	3,0	21,0	27,9	1,0	4,0	1,0	21,0	28,0	-1,0	3,0	1,0
70	13/06/2013 14:30	28,0	30,0	-1,0	5,0	0,0	28,0	30,0	-1,0	5,0	1,0	28,0	27,9	2,0	4,0	-1,0	28,0	28,0	1,0	4,0	-1,0
71	18/06/2013 09:00	28,0	30,0	-2,0	4,0	1,0	28,0	30,0	-2,0	3,0	3,0	28,0	27,9	1,0	3,0	1,0	28,0	28,0	0,0	2,0	1,0
72	25/06/2013 18:00	28,0	30,0	-3,0	3,0	1,0	28,0	30,0	-2,0	5,0	2,0	28,0	27,9	1,0	4,0	1,0	28,0	28,0	-1,0	3,0	0,0
73	01/07/2013 07:30	22,0	30,0	-2,0	5,0	2,0	22,0	30,0	-2,0	4,0	2,0	22,0	27,9	1,0	5,0	0,0	22,0	28,0	0,0	4,0	0,0
74	08/07/2013 17:30	25,0	30,0	-2,0	3,0	1,0	25,0	30,0	-1,0	2,0	2,0	25,0	27,9	2,0	4,0	1,0	25,0	28,0	0,0	1,0	0,0
75	13/07/2013 07:30	25,0	30,0	-3,0	4,0	2,0	25,0	30,0	-2,0	4,0	3,0	25,0	27,9	1,0	4,0	1,0	25,0	28,0	0,0	4,0	1,0
76	18/07/2013 07:30	25,0	30,0	-1,0	4,0	1,0	25,0	30,0	-1,0	3,0	2,0	25,0	27,9	2,0	4,0	1,0	25,0	28,0	1,0	3,0	0,0
77	25/07/2013 18:00	27,0	30,0	-3,0	5,0	2,0	27,0	30,0	-2,0	4,0	2,0	27,0	27,9	1,0	4,0	1,0	27,0	28,0	0,0	3,0	0,0
78	31/07/2013 09:00	27,0	30,0	-3,0	6,0	1,0	27,0	30,0	-1,0	5,0	2,0	27,0	27,9	1,0	4,0	1,0	27,0	28,0	0,0	3,0	-1,0
79	07/08/2013 09:00	29,0	30,0	-4,0	5,0	1,0	29,0	30,0	-2,0	5,0	2,0	29,0	27,9	0,0	3,0	1,0	29,0	28,0	-1,0	2,0	-2,0
80	13/08/2013 09:00	27,0	30,0	-5,0	4,0	2,0	27,0	30,0	-3,0	4,0	3,0	27,0	27,9	-1,0	2,0	2,0	27,0	28,0	-2,0	0,0	-1,0
81	21/08/2013 07:30	23,0	30,0	-2,0	5,0	2,0	23,0	30,0	-2,0	5,0	3,0	23,0	27,9	2,0	6,0	1,0	23,0	28,0	0,0	4,0	1,0
82	28/08/2013 10:30	25,0	30,0	-1,0	3,0	4,0	25,0	30,0	0,0	3,0	5,0	25,0	27,9	2,0	3,0	3,0	25,0	28,0	1,0	2,0	2,0
83	06/09/2013 17:30	29,0	30,0	-2,0	3,0	1,0	29,0	30,0	-1,0	3,0	3,0	29,0	27,9	2,0	4,0	1,0	29,0	28,0	1,0	1,0	0,0
84	13/09/2013 07:30	18,0	30,0	-2,0	5,0	1,0	18,0	30,0	-2,0	5,0	3,0	18,0	27,9	1,0	4,0	1,0	18,0	28,0	0,0	4,0	0,0
85	21/09/2013 09:30	21,0	30,0	-3,0	5,0	3,0	21,0	30,0	-3,0	4,0	3,0	21,0	27,9	0,0	3,0	2,0	21,0	28,0	0,0	4,0	1,0
86	26/09/2013 09:30	18,0	30,0	-3,0	3,0	2,0	18,0	30,0	-3,0	3,0	2,0	18,0	27,9	1,0	4,0	1,0	18,0	28,0	0,0	2,0	1,0
87	03/10/2013 16:30	20,0	30,0	-3,0	3,0	2,0	20,0	30,0	-2,0	3,0	3,0	20,0	27,9	1,0	3,0	2,0	20,0	28,0	0,0	2,0	1,0
88	10/10/2013 08:30	16,0	30,0	-3,0	4,0	2,0	16,0	30,0	-2,0	4,0	3,0	16,0	27,9	1,0	3,0	1,0	16,0	28,0	0,0	3,0	0,0
89	16/10/2013 14:30	23,0	30,0	-4,0	3,0	2,0	23,0	30,0	-3,0	4,0	3,0	23,0	27,9	0,0	3,0	1,0	23,0	28,0	-1,0	2,0	1,0
90	24/10/2013 08:30	18,0	30,0	-4,0	5,0	1,0	18,0	30,0	-3,0	5,0	2,0	18,0	27,9	0,0	5,0	1,0	18,0	28,0	-1,0	4,0	1,0
91	31/10/2013 14:30	23,0	30,0	-4,0	4,0	3,0	23,0	30,0	-3,0	3,0	4,0	23,0	27,9	0,0	3,0	2,0	23,0	28,0	-1,0	2,0	1,0
92	07/11/2013 08:30	11,0	30,0	-4,0	5,0	2,0	11,0	30,0	-3,0	4,0	3,0	11,0	27,9	0,0	3,0	1,0	11,0	28,0	-1,0	4,0	0,0
93	14/11/2013 14:30	20,0	30,0	-3,0	3,0	2,0	20,0	30,0	-3,0	3,0	3,0	20,0	27,9	1,0	4,0	1,0	20,0	28,0	-1,0	2,0	0,0
94	25/11/2013 15:30	12,0	30,0	-3,0	5,0	2,0	12,0	30,0	-3,0	4,0	1,0	12,0	27,9	1,0	4,0	1,0	12,0	28,0	-1,0	3,0	-1,0
95	30/11/2013 08:30	7,0	30,0	-3,0	5,0	3,0	7,0	30,0	-3,0	5,0	3,0	7,0	27,9	1,0	4,0	2,0	7,0	28,0	-1,0	4,0	0,0
96	05/12/2013 08:30	7,0	30,0	-3,0	4,0	2,0	7,0	30,0	-3,0	4,0	3,0	7,0	27,9	1,0	5,0	1,0	7,0	28,0	-1,0	3,0	0,0
97	19/12/2013 13:00	8,0	30,0	-5,0	3,0	3,0	8,0	30,0	-4,0	3,0	3,0	8,0	27,9	-1,0	3,0	2,0	8,0	28,0	-2,0	2,0	1,0
98	27/12/2013 09:00	8,0	30,0	-6,0	2,0	4,0	8,0	30,0	-5,0	2,0	4,0	8,0	27,9	-2,0	1,0	4,0	8,0	28,0	-3,0	1,0	3,0
99	02/01/2014 07:30	14,0	30,0	-6,0	3,0	3,0	14,0	30,0	-6,0	2,0	4,0	14,0	27,9	-3,0	0,0	3,0	14,0	28,0	-4,0	1,0	2,0
100	08/01/2014 14:30	14,0	30,0	-4,0	2,0	2,0	14,0	30,0	-4,0	2,0	4,0	14,0	27,9	-1,0	1,0	2,0	14,0	28,0	-2,0	1,0	2,0
101	15/01/2014 08:30	11,0	30,0	-3,0	3,0	2,0	11,0	30,0	-3,0	3,0	3,0	11,0	27,9	0,0	3,0	1,0	11,0	28,0	-1,0	0,0	0,0
102	22/01/2014 14:30	12,0	30,0	-3,0	1,0	1,0	12,0	30,0	-3,0	3,0	3,0	12,0	27,9	1,0	3,0	1,0	12,0	28,0	0,0	1,0	0,0
103	29/01/2014 08:30	7,0	30,0	-4,0	4,0	3,0	7,0	30,0	-4,0	3,0	3,0	7,0	27,9	1,0	4,0	1,0	7,0	28,0	-1,0	2,0	1,0
104	06/02/2014 14:30	14,0	30,0	-4,0	3,0	4,0	14,0	30,0	-5,0	2,0	3,0	14,0	27,9	0,0	3,0	3,0	14,0	28,0	-1,0	1,0	2,0
105	12/02/2014 08:30	11,0	30,0	-4,0	4,0	4,0	11,0	30,0	-5,0	4,0	4,0	11,0	27,9	0,0	4,0	4,0	11,0	28,0	-1,0	4,0	3,0
106	19/02/2014 14:30	18,0	30,0	-4,0	3,0	3,0	18,0	30,0	-4,0	2,0	2,0	18,0	27,9	0,0	5,0	3,0	18,0	28,0	-1,0	4,0	1,0
107	28/02/2014 08:30	12,0	30,0	-4,0	3,0	3,0	12,0	30,0	-4,0	2,0	4,0	12,0	27,9	0,0	3,0	4,0	12,0	28,0	-1,0	2,0	2,0
108	06/03/2014 16:30	15,0	30,0	-4,0	3,0	3,0	15,0	30,0	-4,0	2,0	3,0					15,0	28,0	-1,0	3,0	3,0	
109	10/03/2014 08:30	10,0	30,0	-4,0	4,0	4,0	10,0	30,0	-4,0	3,0	4,0					10,0	28,0	-1,0	2,0	2,0	
110	17/03/2014 15:30	15,0	30,0	-4,0	4,0	3,0	15,0	30,0	-4,0	3,0	3,0					15,0	28,0	-1,0	2,0	2,0	
111	24/03/2014 08:30	10,0	30,0	-4,0	4,0	4,0	10,0	30,0	-4,0	3,0	3,0					10,0	28,0	-1,0	1,0	2,0	
112	01/04/2014 18:30	15,0	30,0	-4,0	2,0	5,0	15,0	30,0	-4,0	3,0	6,0					15,0	28,0	0,0	1,0	4,0	
113	09/04/2014 08:30	15,0	30,0	-4,0	3,0	3,0	15,0	30,0	-4,0	3,0	3,0					15,0	28,0	0,0	3,0	2,0	
114	16/04/2014 08:30	10,0	30,0	-4,0	2,0	4,0	10,0	30,0	-4,0	2,0	5,0					10,0	28,0	0,0	1,0	3,0	
115	24/04/2014 08:30	15,0	30,0	-4,0	2,0	5,0	15,0	30,0	-4,0	1,0	4,0					15,0	28,0	0,0	1,0	3,0	
116	06/05/2014 08:30	15,0	30,0	-4,0	4,0	3,0	15,0	30,0	-4,0	3,0	3,0					15,0	28,0	-1,0	3,0	1,0	
117	13/05/2014 08:30	18,0	30,0	-4,0	3,0	3,0	18,0	30,0	-4,0	4,0	4,0					18,0	28,0	-1,0	1,0	3,0	
118	22/05/2014 08:30	20,0	30,0	-4,0	3,0	3,0	20,0	30,0	-4,0	3,0	4,0					20,0	28,0	-1,0	1,0	1,0	
119	29/05/2014 08:30	18,0	30,0	-5,0	2,0	2,0	18,0	30,0	-4,0	2,0	3,0					18,0	28,0	-1,0	1,0	2,0	
120	11/06/2014 08:30	22,0	30,0	-5,0	2,0	2,0	22,0	30,0	-4,0	1,0	3,0					22,0	28,0	-1,0	0,0	2,0</	



Ubicazione STAZIONE CHIAIA
Opera \ \ Il Ordine di Tiranti \ 29-
Tipo Strumento Mire Ottiche
Data posa in opera 24/08/2011
Data lettura di zero 24/08/2011

GRAFICO QUOTA

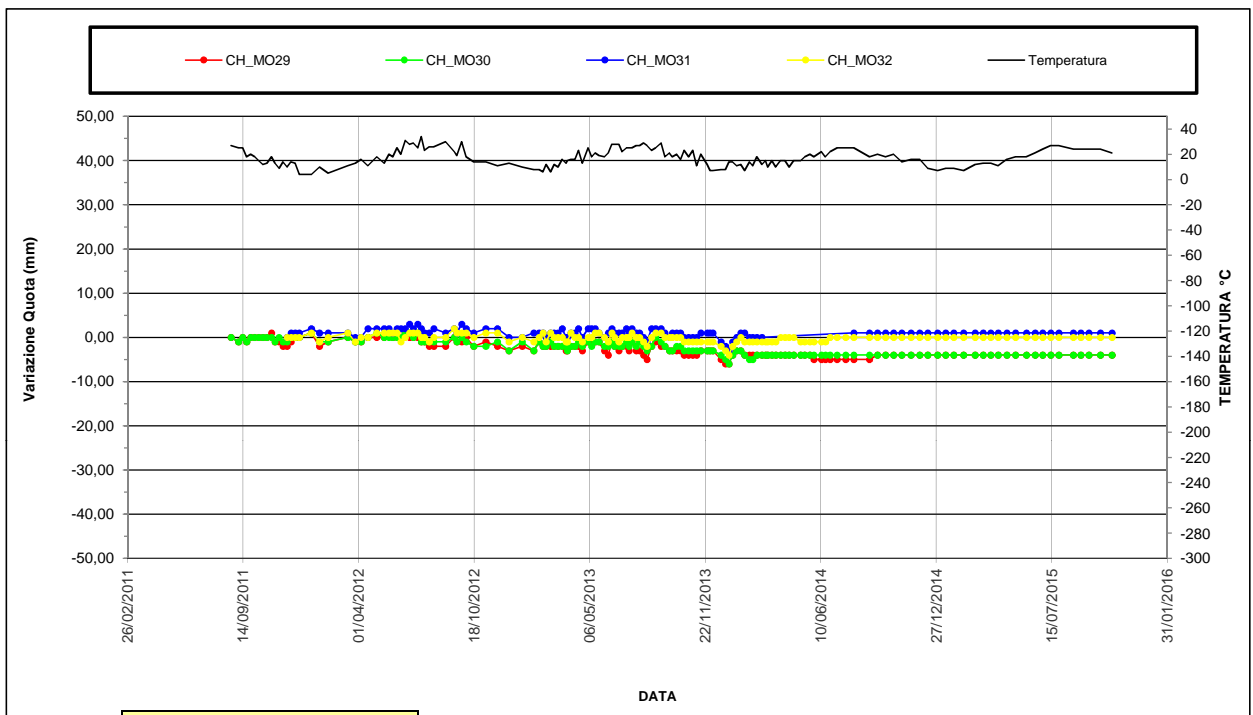
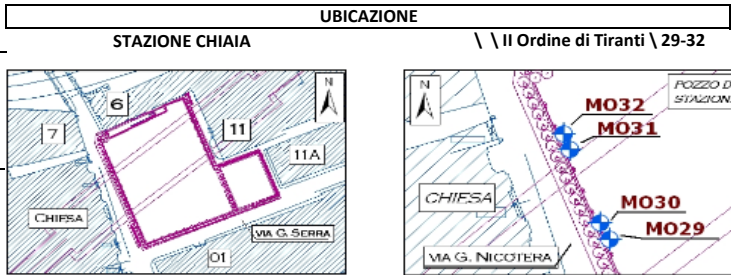
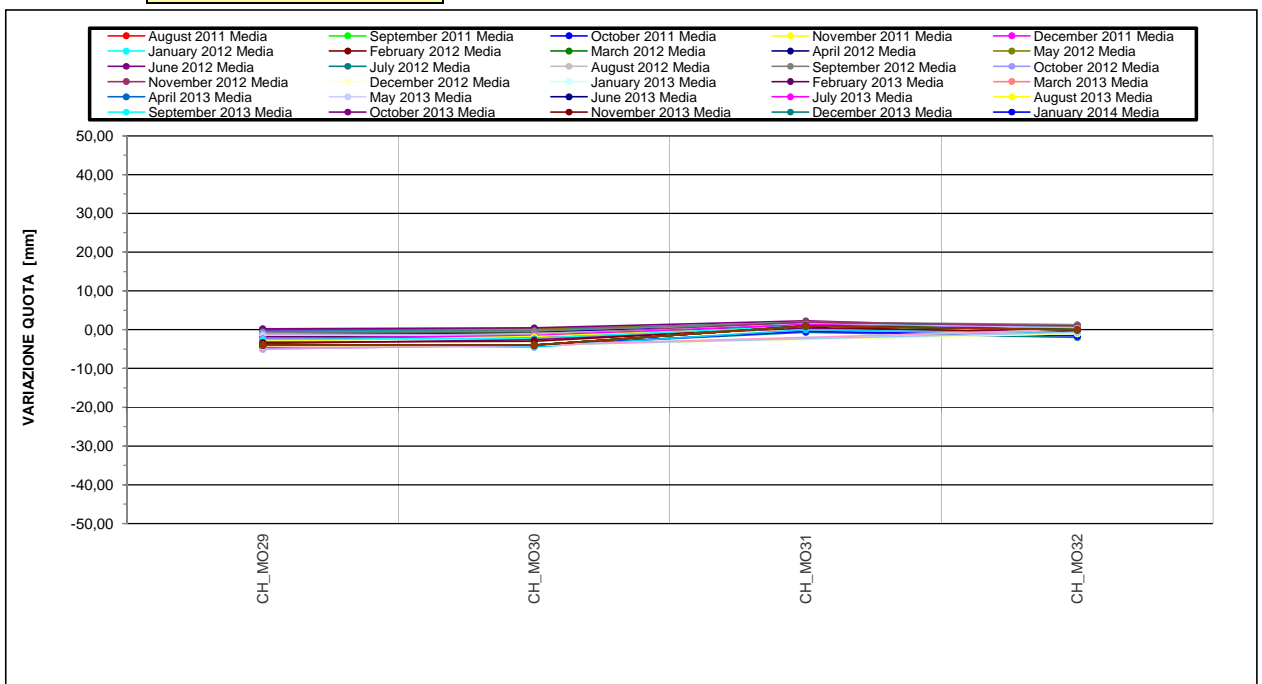


GRAFICO ISOCRONE





Ubicazione STAZIONE CHIAIA
Opera \ \ Il Ordine di Tiranti \ 29-
Tipo Strumento Mire Ottiche
Data posa in opera 24/08/2011
Data lettura di zero 24/08/2011

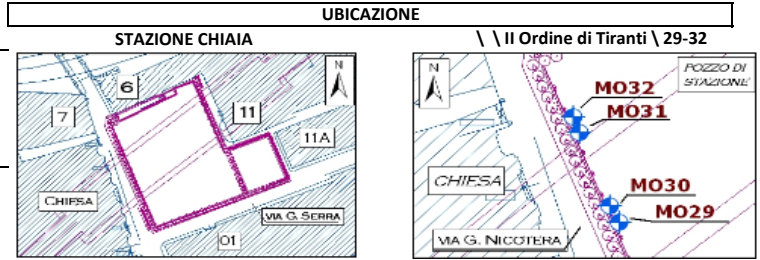


GRAFICO EST

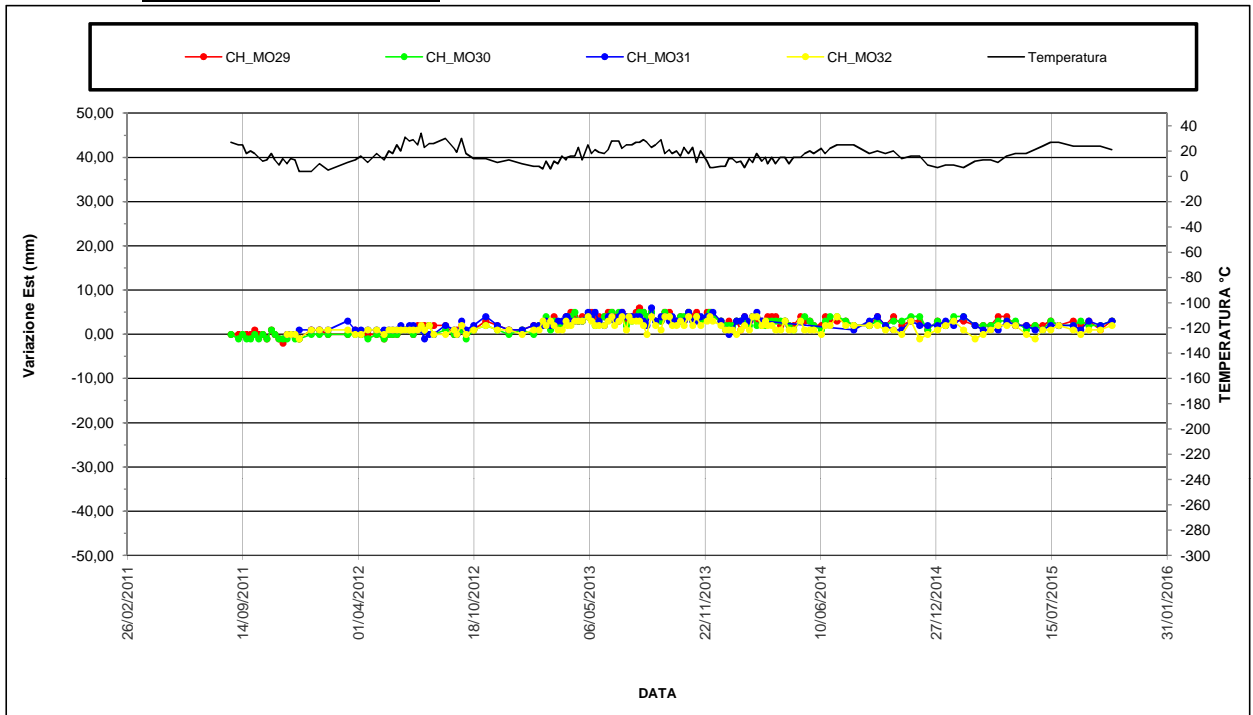
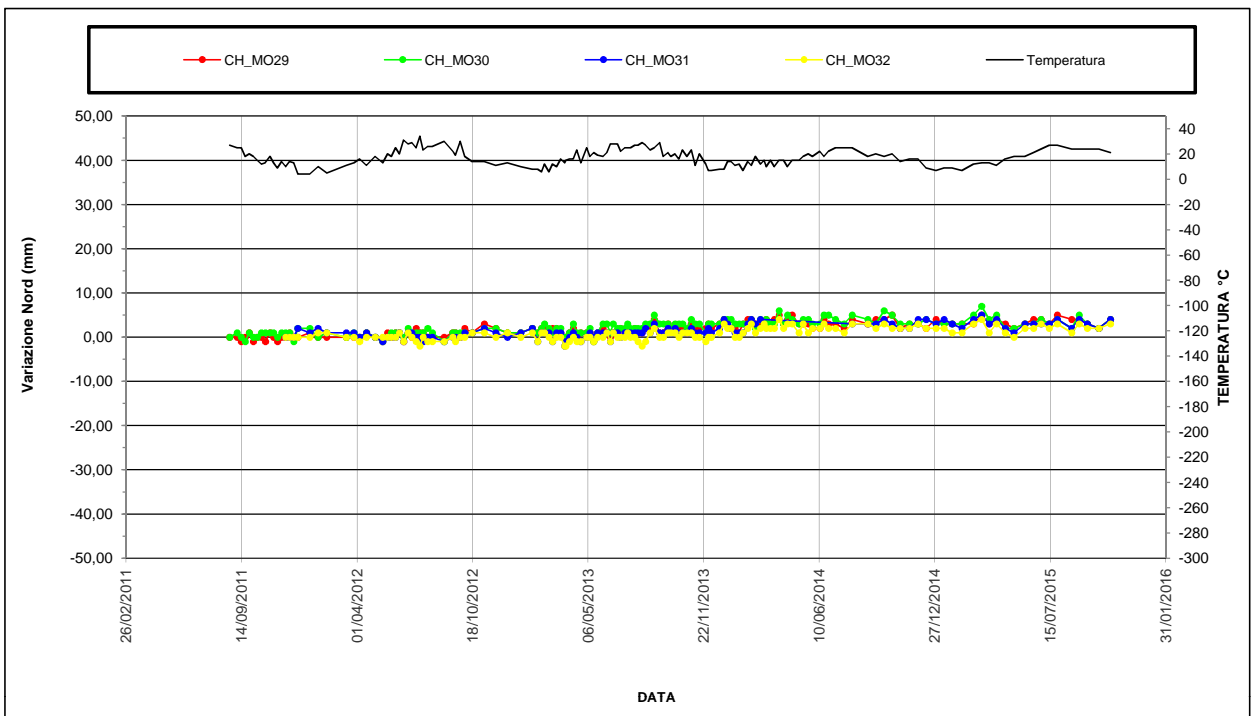


GRAFICO NORD



METROPOLITANA LINEA 6 - RESOCONTO MANUTENZIONE TRESSE ENGINEERING S.R.L.

SP	SP_PZ7_S	PIEZ. CASAGRANDE	15							0	2
SP	SP_PZ7_P	PIEZ. CASAGRANDE	30							0	2
SP	SP_PZ8_S	PIEZ. CASAGRANDE	40							0	2
SP	SP_PZ8_P	PIEZ. CASAGRANDE	43							0	2
SP	SP_PZ9_S	PIEZ. CASAGRANDE	15							0	2
SP	SP_PZ9_P	PIEZ. CASAGRANDE	30							0	2
SP	SP_PZ10_S	PIEZ. CASAGRANDE	40							0	2
SP	SP_PZ10_P	PIEZ. CASAGRANDE	43							0	2
SP	SP_PZ11_S	PIEZ. CASAGRANDE	40							0	2
SP	SP_PZ11_P	PIEZ. CASAGRANDE	43							0	2
SP	SP_PZ12_S	PIEZ. CASAGRANDE	15							0	2
SP	SP_PZ12_P	PIEZ. CASAGRANDE	30							0	2
SP	SP_PZ13_S	PIEZ. CASAGRANDE	15							0	2
SP	SP_PZ13_P	PIEZ. CASAGRANDE	30							0	2
SP	SP_PZ14_S	PIEZ. CASAGRANDE	40							0	2
SP	SP_PZ14_P	PIEZ. CASAGRANDE	43							0	2
SP	P1	POZZO	40							0	1
SP	P2	POZZO	40							0	0
SP	P1	POZZO	40							0	0
SP	P2	POZZO	45							0	0
SP	P3	POZZO	42							0	0
SP	P4	POZZO	42							0	0
SP	P5	POZZO	40							0	0
SP	P6	POZZO	45							0	0
SP	P7	POZZO	45							0	0
SP	P8	POZZO	45							0	0

Note:

Lo strumento SP_EI5/ES5 (ESTENSO-INCLINOMETRO) risulta leggibile con la sonda inclinometrica ma non leggibile con la sonda estensimetrica. Pertanto nel programma di monitoraggio verranno eseguite le sole letture inclinometriche.

STAZIONE ARCO MIRELLI

COD.STAZIONE	COD. STRUM.	TIPOLOGIA STRUM.	METRI da p.c.	12/10	13/10	14/10	15/10	16/10	ESITO	TOT MESE	TOTALE
AM	AM_PZ1_P	PIEZ. CASAGRANDE	28	1					P	1	10
AM	AM_PZ2_S	PIEZ. CASAGRANDE	10	1					P	1	10
AM	AM_PZ2_P	PIEZ. CASAGRANDE	28	1					P	1	10
AM	AM_PZ4_P	PIEZ. CASAGRANDE	28							0	1
AM	AM_PZ4_S	PIEZ. CASAGRANDE	10							0	1
AM	AM_PZ5_S	PIEZ. CASAGRANDE	10							0	8
AM	AM_PZ5_P	PIEZ. CASAGRANDE	28							0	10
AM	AM_PZ6_S	PIEZ. CASAGRANDE	10							0	7
AM	AM_PZ6_P	PIEZ. CASAGRANDE	28							0	8
AM	AM_PZ7_S	PIEZ. CASAGRANDE	10	1					P	1	8
AM	AM_PZ7_P	PIEZ. CASAGRANDE	28	1					P	1	8
AM	AM_EI1/ES1	ESTENSO-INCLINOMETRO	50/50							0	9
AM	AM_EI3 bis/ES3 bis	ESTENSO-INCLINOMETRO	50/50							0	7
AM	AM_IN1_1	INCLINOMETRO	41/41		1				P	1	8
AM	AM_IN2_1	INCLINOMETRO	49/49		1				P	1	5
AM	AM_IN_P5_1	INCLINOMETRO	39/39							0	6
AM	AM_IN_P17_1	INCLINOMETRO	38/38		1				P	1	9
AM	AM_IN_P18	INCLINOMETRO	40/40		1				P	1	10

METROPOLITANA LINEA 6 - RESOCONTO MANUTENZIONE TRESSE ENGINEERING S.R.L.

AM	AM_IN_P31_1	INCLINOMETRO	31/31						0	4
AM	AM_IN_P32_1	INCLINOMETRO	38/38						0	4
AM	AM_IN_P61_1	INCLINOMETRO	37/37						0	5
AM	AM_IN_P62_1	INCLINOMETRO	36/36						0	6
AM	AM_IN_P76	INCLINOMETRO	39/39		1			P	1	7
AM	AM_IN_P77	INCLINOMETRO	40/40						0	6
AM	AM_IN_P87	INCLINOMETRO	32/42		1				1	4
AM	AM_IN_P104	INCLINOMETRO	40/40		1			P	1	10
AM	AM_IN_P105	INCLINOMETRO	40/40		1			P	1	11
AM	AM_IN1	INCLINOMETRO	0/50						0	0
AM	AM_IN2	INCLINOMETRO	0/50						0	0
AM	AM_IN_P5	INCLINOMETRO	0/40						0	0
AM	AM_IN_P17	INCLINOMETRO	29/40						0	1
AM	AM_IN_P31	INCLINOMETRO	0/35						0	0
AM	AM_IN_P32	INCLINOMETRO	40/40						0	1
AM	AM_IN_P61	INCLINOMETRO	0/40						0	0
AM	AM_IN_P62	INCLINOMETRO	4/40						0	0
AM	AM_EI2/ ES2	ESTENSO-INCLINOMETRO	0/50						0	0
AM	AM_PZ8 (KOLLHOFF)	PIEZ. TUBO APERTO	25						0	0
AM	AM_PZ9 (KOLLHOFF)	PIEZ. TUBO APERTO	25						0	0
AM	AM_PZ10 (KOLLHOFF)	PIEZ. TUBO APERTO	25						0	0
AM	AM_PZ1_S	PIEZ. CASAGRANDE	10						0	1
AM	AM_PZ1_P	PIEZ. CASAGRANDE	28						0	1
AM	AM_PZ1_S	PIEZ. CASAGRANDE	10						0	4
AM	AM_PZ11_S	PIEZ. CASAGRANDE	28						0	2
AM	AM_PZ11_P	PIEZ. CASAGRANDE	36						0	2
AM	AM_PZ12_S	PIEZ. CASAGRANDE	24						0	4
AM	AM_PZ12_P	PIEZ. CASAGRANDE	32						0	4
AM	AM_PZ13_S	PIEZ. CASAGRANDE	27						0	3
AM	AM_PZ13_P	PIEZ. CASAGRANDE	34						0	3
AM	AM_PZ14_S	PIEZ. CASAGRANDE	27						0	4
AM	AM_PZ14_P	PIEZ. CASAGRANDE	35						0	5
AM	AM_PZ15_S	PIEZ. CASAGRANDE	23						0	4
AM	AM_PZ15_P	PIEZ. CASAGRANDE	30						0	4
AM	AM_PZ16_S	PIEZ. CASAGRANDE	23						0	3
AM	AM_PZ16_P	PIEZ. CASAGRANDE	30						0	3
AM	AM_PZ17_S	PIEZ. CASAGRANDE	25						0	3
AM	AM_PZ17_P	PIEZ. CASAGRANDE	30						0	3
AM	AM_PZ18_S	PIEZ. CASAGRANDE	29						0	3
AM	AM_PZ18_P	PIEZ. CASAGRANDE	31						0	3
AM	AM_PZ19_S	PIEZ. CASAGRANDE	28						0	3
AM	AM_PZ19_P	PIEZ. CASAGRANDE	35						0	3
AM	AM_PZ20_S	PIEZ. CASAGRANDE	29						0	3
AM	AM_PZ20_P	PIEZ. CASAGRANDE	34						0	3
AM	AM_PZ21_S	PIEZ. CASAGRANDE	29						0	0
AM	AM_PZ21_P	PIEZ. CASAGRANDE	32						0	0
AM	AM_PZ22_S	PIEZ. CASAGRANDE	29						0	0
AM	AM_PZ22_P	PIEZ. CASAGRANDE	32						0	0
AM	AM_PZ23_S	PIEZ. CASAGRANDE	29						0	0
AM	AM_PZ23_P	PIEZ. CASAGRANDE	32						0	0
AM	AM_PZ24_S	PIEZ. CASAGRANDE	30						0	0
AM	AM_PZ24_P	PIEZ. CASAGRANDE	29						0	0

METROPOLITANA LINEA 6 - RESOCONTO MANUTENZIONE TRESSE ENGINEERING S.R.L.

GL_AS	GL_AS_SC03_EI1/ES1	ESTENSO-INCLINOMETRO	34/34							0	3
GL_AS	GL_AS_SC03_EI2/ES2	ESTENSO-INCLINOMETRO	34/34							0	3
GL_AS	GL_AS_SC02_PZ	PIEZ. CASAGRANDE	35							0	7
GL_AS	GL_AS_SC03_PZ	PIEZ. CASAGRANDE	35							0	7
GL_AS	GL_AS_SP03_PZ	PIEZ. CASAGRANDE	35							0	6

TRATTA SAN PASQUALE / CHIAIA

COD.STAZIONE	COD. STRUM.	TIPOLOGIA STRUM.	METRI da p.c.	12/10	13/10	14/10	15/10	16/10	ESITO	TOT MESE	TOTALE
GL_SH	GL_SH_SC04_EI1/ES1	ESTENSO-INCLINOMETRO	35/35							0	4
GL_SH	GL_SH_SC04_EI2/ES2	ESTENSO-INCLINOMETRO	35/35							0	3
GL_SH	GL_SH_SP04_EI1/ES1	ESTENSO-INCLINOMETRO	34/34							0	2
GL_SH	GL_SH_SP04_EI2/ES2	ESTENSO-INCLINOMETRO	31/31							0	1
GL_SH	GL_SH_SC05_EI1/ES1	ESTENSO-INCLINOMETRO	30/30							0	1
GL_SH	GL_SH_SC05_EI2/ES2	ESTENSO-INCLINOMETRO	30/30							0	1
GL_SH	GL_SH_SC04_PZ	PIEZ. CASAGRANDE	35					1	P	1	6
GL_SH	GL_SH_SP04_PZ	PIEZ. CASAGRANDE	35					1	P	1	7
GL_SH	GL_SH_SC05_PZ	PIEZ. CASAGRANDE	30					1	P	1	4

TRATTA CHIAIA / MUNICIPIO

COD.STAZIONE	COD. STRUM.	TIPOLOGIA STRUM.	METRI da p.c.	12/10	13/10	14/10	15/10	16/10	ESITO	TOT MESE	TOTALE
GL_CM	GL_CM_SC06_PZ2	PIEZ. CASAGRANDE	40/40					1	P	1	6
GL_CM	GL_CM_SC06_EI/ES	ESTENSO-INCLINOMETRO	37/37							0	2
GL_CM	GL_CM_SC06_PZ1	PIEZ. CASAGRANDE	40/40							0	3

LEGENDA

	IN ROSSO STRUMENTO FUORI USO (per il quale è inutile programmare attività di manutenzione e monitoraggio)
	IN VERDE STRUMENTO A FUNZIONALITA' RIDOTTA
	IN ARANCIO STRUMENTO SOSTITUITO
P	ESITO POSITIVO
N	ESITO NEGATIVO
Video	VIDEOISPEZIONE ESEGUITA

NOTE

Gli strumenti sottoposti a manutenzione nel periodo indicato, dopo il trattamento di spurgo, lavaggio a pressione, verifica dell'accessibilità tubi di misura, hanno migliorato la loro funzionalità. Superando le prove con esito positivo.

Per i piezometri tipo Casagrande sotto riportati, si evince la scarsa comunicazione fra i tubi di misura, che indica un ridotto ricircolo dell'acqua all'interno della cella. Dalla risposta strumentale ottenuta durante le fasi di manutenzione, si suppone un funzionamento assimilabile più a piezometri tubo aperto che non a celle tipo Casagrande, ciò potrebbe comportare tempi di risposta più lunghi. Tuttavia questi strumenti continuano a fornire misure correlabili con gli altri strumenti funzionanti, continueranno ad essere regolarmente inseriti nel programma di monitoraggio e di manutenzione.