

Preg.mi

Provincia della Spezia  
Settore Gestione Ambiente e Tutela Ambientale  
Via Vittorio Veneto, 2  
19124 La Spezia  
Att.ne Ing G. Benvenuto

Comune della Spezia  
Dipartimento II "Territorio e politiche ambientali"  
Piazza Europa, 1  
19124 La Spezia  
Att.ne Ing C. Canneti

**OGGETTO: trasmissione dati metalli relativi al I TRIMESTRE 2015.**

Si trasmettono in allegato i dati relativi alla ricerca dei metalli nell'aria ai sensi del D.Lgs. 155/2010 su alcune delle postazioni della Rete di Qualità dell'Aria.

Rimanendo a disposizione per ulteriori chiarimenti, si porgono cordiali saluti.

***Il Responsabile Settore Agenti Fisici-  
Inquinamento Atmosferico***

***dott. Ing. G.C. Leveratto***

Allegati:

- dati metalli I TRIMESTRE 2015

Il Dirigente Responsabile U.O Territorio: dott.ssa. F.Colonna

Il Dirigente Responsabile Settore Agenti Fisici-Inquinamento Atmosferico: dott.G.C. Leveratto

Estensore Provvedimento: dott. R.Cresta

**Dipartimento Provinciale della Spezia**

Via Fontevivo, 21 L - 19125 La Spezia

Tel. +39 0187 2814 207- fax. +39 0187 2814 230

roberto.cresta@arpal.gov.it - www.arpal.gov.it

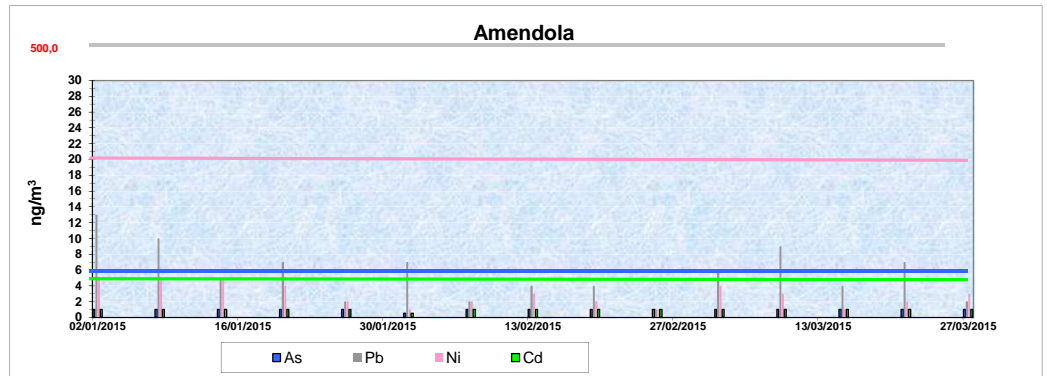
C.F. e P.IVA 01305930107

### Metalli anno 2015

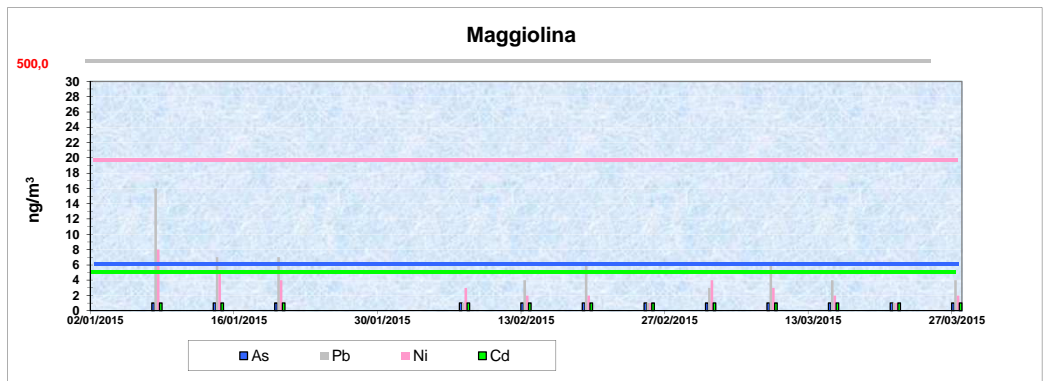
### Valori obiettivo annuale per As, Ni, Cd e valore limite per il piombo ai sensi D.Lgs. 155/2010

Arsenico: 6 ng/m<sup>3</sup> - Cadmio 5ng/m<sup>3</sup> - Nichel 20 ng/m<sup>3</sup> - Piombo 500 ng/m<sup>3</sup>

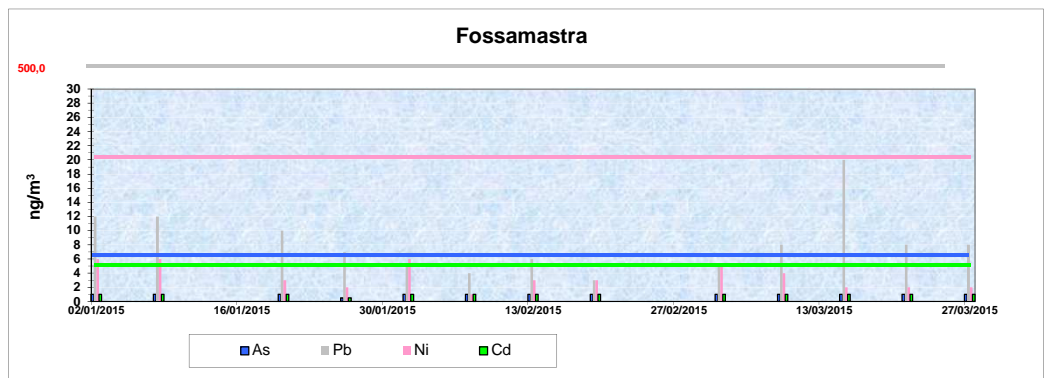
| Amendola  |       |      |       |       |
|-----------|-------|------|-------|-------|
|           | As    | Pb   | Ni    | Cd    |
| 2-gen-15  | < 1,0 | 13,0 | 5,0   | < 1,0 |
| 8-gen-15  | < 1,0 | 10,0 | 5,0   | < 1,0 |
| 14-gen-15 | 1,0   | 5,0  | 5,0   | < 1,0 |
| 20-gen-15 | 1,0   | 7,0  | 4,0   | < 1,0 |
| 26-gen-15 | < 1,0 | 2,0  | 2,0   | < 1,0 |
| 1-feb-15  | < 0,5 | 7,0  | 1,0   | < 0,5 |
| 7-feb-15  | < 1,0 | 2,0  | 2,0   | < 1,0 |
| 13-feb-15 | < 1,0 | 4,0  | 3,0   | < 1,0 |
| 19-feb-15 | < 1,0 | 4,0  | 2,0   | < 1,0 |
| 25-feb-15 | < 1,0 | 1,0  | < 1,0 | < 1,0 |
| 3-mar-15  | < 1,0 | 6,0  | 4,0   | < 1,0 |
| 9-mar-15  | < 1,0 | 9,0  | 3,0   | < 1,0 |
| 15-mar-15 | < 1,0 | 4,0  | 1,0   | < 1,0 |
| 21-mar-15 | < 1,0 | 7,0  | 2,0   | < 1,0 |
| 27-mar-15 | < 1,0 | 2,0  | 3,0   | < 1,0 |
| media (*) | 1,0   | 5,5  | 2,9   | 1,0   |



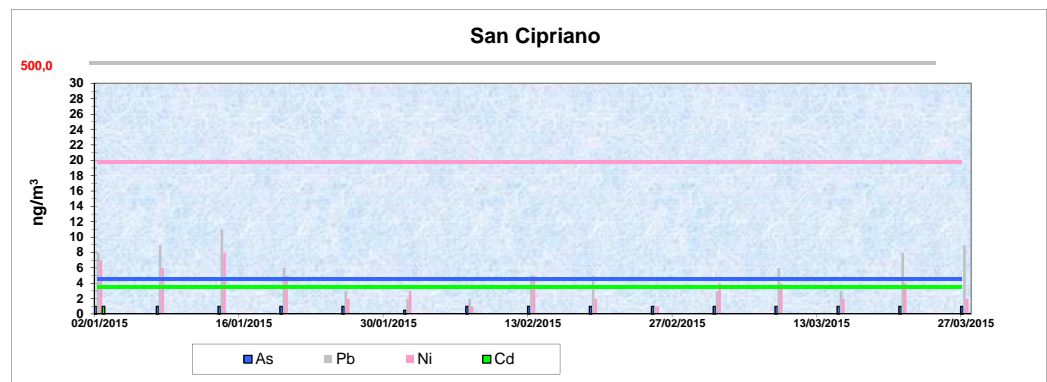
| Maggiolina |       |       |       |       |
|------------|-------|-------|-------|-------|
|            | As    | Pb    | Ni    | Cd    |
| 2-gen-15   | -     | -     | -     | -     |
| 8-gen-15   | < 1,0 | 16,0  | 8,0   | < 1,0 |
| 14-gen-15  | < 1,0 | 7,0   | 5,0   | < 1,0 |
| 20-gen-15  | < 1,0 | 7,0   | 4,0   | < 1,0 |
| 26-gen-15  | -     | -     | -     | -     |
| 1-feb-15   | -     | -     | -     | -     |
| 7-feb-15   | < 1,0 | < 1,0 | 3,0   | < 1,0 |
| 13-feb-15  | < 1,0 | 4,0   | 2,0   | < 1,0 |
| 19-feb-15  | < 1,0 | 6,0   | 2,0   | < 1,0 |
| 25-feb-15  | < 1,0 | < 1,0 | < 1,0 | < 1,0 |
| 3-mar-15   | < 1,0 | 3,0   | 4,0   | < 1,0 |
| 9-mar-15   | < 1,0 | 6,0   | 3,0   | < 1,0 |
| 15-mar-15  | < 1,0 | 4,0   | 2,0   | < 1,0 |
| 21-mar-15  | < 1,0 | < 1,0 | < 1,0 | < 1,0 |
| 27-mar-15  | < 1,0 | 4,0   | 2,0   | < 1,0 |
| media (*)  | 1,0   | 5,0   | 3,1   | 1,0   |



| Fossamastra |       |      |       |       |
|-------------|-------|------|-------|-------|
|             | As    | Pb   | Ni    | Cd    |
| 2-gen-15    | 1,0   | 12,0 | 6,0   | < 1,0 |
| 8-gen-15    | < 1,0 | 12,0 | 6,0   | < 1,0 |
| 14-gen-15   | -     | -    | -     | -     |
| 20-gen-15   | < 1,0 | 10,0 | 3,0   | < 1,0 |
| 26-gen-15   | < 0,5 | 7,0  | 2,0   | < 0,5 |
| 1-feb-15    | < 1,0 | 5,0  | 6,0   | < 1,0 |
| 7-feb-15    | < 1,0 | 4,0  | < 1,0 | < 1,0 |
| 13-feb-15   | < 1,0 | 6,0  | 3,0   | < 1,0 |
| 19-feb-15   | < 1,0 | 3,0  | 3,0   | < 1,0 |
| 25-feb-15   | -     | -    | -     | -     |
| 3-mar-15    | < 1,0 | 5,0  | 5,0   | < 1,0 |
| 9-mar-15    | < 1,0 | 8,0  | 4,0   | < 1,0 |
| 15-mar-15   | 1,0   | 20,0 | 2,0   | < 1,0 |
| 21-mar-15   | 1,0   | 8,0  | 2,0   | < 1,0 |
| 27-mar-15   | < 1,0 | 8,0  | 2,0   | < 1,0 |
| media (*)   | 1,0   | 8,3  | 3,5   | 1,0   |



| San Cipriano |       |      |       |       |
|--------------|-------|------|-------|-------|
|              | As    | Pb   | Ni    | Cd    |
| 2-gen-15     | < 1,0 | 8,0  | 7,0   | < 1,0 |
| 8-gen-15     | < 1,0 | 9,0  | 6,0   | < 1,0 |
| 14-gen-15    | < 1,0 | 11,0 | 8,0   | < 1,0 |
| 20-gen-15    | < 1,0 | 6,0  | 5,0   | < 1,0 |
| 26-gen-15    | < 1,0 | 3,0  | 2,0   | < 1,0 |
| 1-feb-15     | < 0,5 | 2,0  | 3,0   | < 0,5 |
| 7-feb-15     | 1,0   | 2,0  | 1,0   | < 1,0 |
| 13-feb-15    | < 1,0 | 5,0  | 5,0   | < 1,0 |
| 19-feb-15    | < 1,0 | 5,0  | 2,0   | < 1,0 |
| 25-feb-15    | < 1,0 | 1,0  | < 1,0 | < 1,0 |
| 3-mar-15     | < 1,0 | 3,0  | 4,0   | < 1,0 |
| 9-mar-15     | < 1,0 | 6,0  | 4,0   | < 1,0 |
| 15-mar-15    | 1,0   | 3,0  | 2,0   | < 1,0 |
| 21-mar-15    | < 1,0 | 8,0  | 4,0   | < 1,0 |
| 27-mar-15    | < 1,0 | 9,0  | 2,0   | < 1,0 |
| media (*)    | 1,0   | 5,4  | 3,7   | 1,0   |



(\*) calcolata tenendo conto anche dei valori sotto il limite di rilevabilità strumentale espresso in ng/m<sup>3</sup> come da tabella

| metodo                | As  | Pb  | Ni  | Cd  |
|-----------------------|-----|-----|-----|-----|
| EPA 3051A + EPA 6010C | 1,0 | 1,0 | 1,0 | 1,0 |
| UNI EN 14902:2005     | 0,5 | 0,5 | 0,5 | 0,5 |