

CHARACTERIZATION OF THE BROWNFIELD SITE EX RAYON - SNIA VISCOSA - RIETI

The site in question is located inside the disused industrial plant ex-SNIA Viscosa of Rieti, one of the largest Italian plants in the field of viscose production, subject to disposal from the first years 2000.

Between 2001 and 2007, a reclamation was carried out consisting of the removal of the soils. In light of the state of the site and the interventions already carried out, a new Characterisation Plan has been developed.

The development of the new Characterisation Plan was based on the following objectives

- Verify and validate the results of previous surveys;
- Carry out surveys on portions of the site not subject to the previous characterisation activities;
- Carry out the characterisation of the areas in which the aboveground waste present had been removed;
- Acquire all the information for the risk analysis and any subsequent remediation aimed at the redevelopment and enhancement of the site itself.

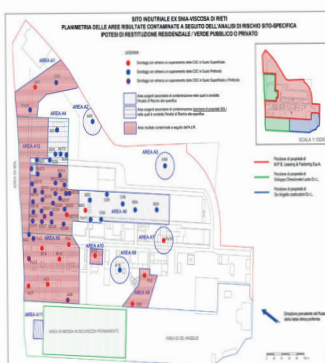
The Characterisation Plan has been structured in 3 macro-parts:

- Systematisation of existing data, aimed at identifying the information useful for the new survey proposal (reasoned choice of the location of the surveys and piezometers) and verifying the actual effectiveness of the remediation already carried out;
- Preparation of the preliminary conceptual model, in order to define the number and depths of the new surveys to be carried out;
- Proposal of the environmental investigation plan, in agreement with ARPA, to characterise the soil and subsoil matrices and collect the necessary site-specific parameters to be used for the drafting of the health risk analysis.

The activities undertaken in order to carry out the surveys were the following:

- Assistance in the field;
- The works management;
- Safety coordination;
- The processing of the site-specific risk analysis.

Thanks to the investigations carried out, it was possible to confirm to the local administrations the effectiveness of the previous remediation activities (at the time still intended for industrial use). In addition, it was highlighted that, following the complete decommissioning of production activities and the simultaneous change in the intended use (residential and public/private green), some portions of the site are contaminated on surface soil; this is because the concentrations of certain analytes found with the characterisation carried out exceed the Risk Threshold Concentrations determined through the RA (Risk Analysis).



DESIGN DATA

Private client

MPS Leasing & Factoring S.p.A.

Type of service

- Drafting and execution of the characterisation plan;
- Analysis of the results of the characterisation;
- Preparation of specific site risk analysis.

Project cost € 371.001,12

Location Rieti

Lot area 17.000 m²

Estimated contaminated surface area about 60.000 m²

Design period 2016-2017

TECHNICAL DATA

ACTIVITIES PERFORMED:

- Preparation of Characterisation Plan;
- Characterisation of the site through a campaign of geognostic surveys and laboratory analyses aimed at determining the type and extent of any contamination present;
- Conceptual model of the land developed on the basis of the results of the Characterisation Plan;
- Site-specific risk analysis elaborated on the basis of the conceptual model in order to determine the Risk Threshold Concentrations (remediation objectives).