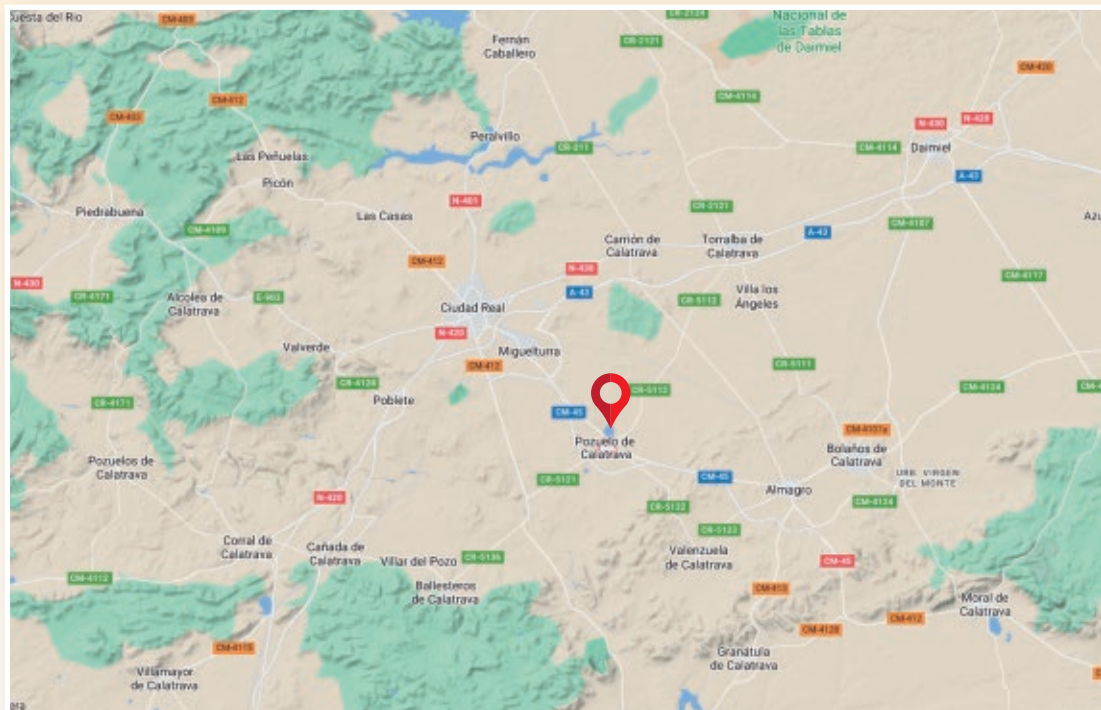




GOOGLE MAPS 38.917088, -3.836261



www.proyectogeoparquevolcanesdecalatrava.es



Ayuntamiento de Pozuelo de Calatrava

PROJECT

CALATRAVA VOLCANES GEOPARK. CIUDAD REAL

NATURE RESERVE
OF LAGUNA DEL PRADO
OR LA INESPERADA



- Magma
- Mercury
- Coal



Castilla-La Mancha



GEOPARQUE
VOLCANES
DE CALATRAVA
CIUDAD REAL



DIPUTACIÓN DE
CIUDAD REAL

There is still today scientific controversy about its genesis, which is linked either to an origin derived from the dissolution of powerful packages of gypsum, or to a volcanic maar: in other words, a formation of igneous origin produced by the interaction of water, whether surface or underground, with a magmatic source of heat, producing the vaporisation of water and triggering powerful explosions due to the steam pressure (Fig. 2.1). In any case, the Pozuelo lagoon is a closed depression, bounded both to the north and southeast by two explosion craters (Fig. 1), with two rims of volcanic materials (Fig. 2). The lagoon basin is made up of grey-coloured silt and clay deposits, mainly gypsum.

The lagoon has an ovoid shape with a maximum diameter of one kilometre, and is characterised by the high salinity of the water (values of up to 32,700 mS/cm). Due to their physical and chemical properties, these waters were bottled as medicinal mineral waters and marketed as “Aguas La Inesperada”.

It is located in an area with very intense and complicated fracturing. These fracture lines were formed by the movements and thrusts of the ground over the long geological history.

As it is a saline lagoon, it has plant communities of great botanical interest. It is home to an important community of breeding waders, and during the wintering season to a significant number of surface ducks. It is also a transit point for other migratory species. The bird communities have large inter-annual variations, as a result of the fluctuating climatology of the area. In situations of high recharge rate and exceptional water levels, bird populations increase extraordinarily (Fig. 3).

This geosite is of great environmental value. It is protected by regional legislation as a Nature Reserve and Wildlife Refuge, included in the Ramsar Convention on Wetlands of International Importance, especially as a Waterfowl Habitat, in the European Union’s Natura 2000 Network as a special area of conservation and forms part of the IGME list, Site of Geological Interest -LIG TM139- “Laguna del Prado (de Pozuelo or Inesperada)”.



Work derived from Mapa-LiDAR 2019 CC-BY 4.0 scne.es - Fig. 1

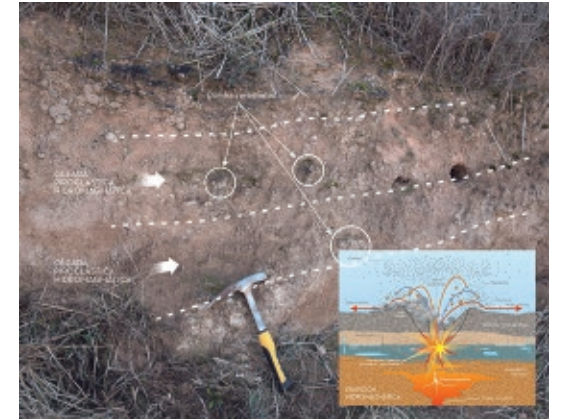


Fig. 2



Fig. 3