

PROJECT RESULTS AND DOCUMENTATION

PERFORMANCE

ENGLISH TRANSLATION

PROJECT

**“RIVER RESTORATION, ENVIRONMENTAL IMPROVEMENT AND PUBLIC USE OF THE
HUNDIDERO CAVE”**

FUNDACIÓN SIERRA DE LIBAR

November 2021



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DESCRIPTION

1. PERFORMANCE

The actions carried out are part of the project for the enhancement and public use of the Cueva de Huididero Natural Monument of a mixed nature -geological and biotic-, declared in April 2019 and includes actions on the Cueva de Huididero Asset of Cultural Interest. Sinkhole, of an archaeological nature, declared in 1985, with an approximate area of 30 hectares. These actions are part of the Ecological Restoration Project for the Montejaque Reservoir for the declaration of a River Reserve (Art. 21 of the Andalusian Water Law) carried out by Juan de Castro García (Sierra de Libar Foundation) at the request of Hon. Montejaque City Council on the occasion of the centenary of the construction of the reservoir by the Seville Electricity Company, today ENDESA Generacion.

The rehabilitation and adaptation of the accesses to the Cueva de Huididero have been carried out by means of the reconstruction, rehabilitation and improvement of the existing semi-stepped path and the installation of security elements for the entire route. A route of 450 meters in length with an average drop of 30% and with sections greater than 130%.

- Two lookout areas have been created for the Presa de los Caballeros-Cerro de Tavizna and Embalse de Montejaque from which to observe the colony of griffon vultures and take panoramic photographs.
- The accesses to the Presa de los Caballeros or Presa de Montejaque have been adapted, made up of three different sections with the creation of sufficient security protections for users to walk:
 - Spillways.
 - Taviznilla path.
 - Crown of the dam wall.
- Improvements have been made for the fluvial restoration of the Huididero Gorge with the clearing and pruning of the riverbank trees, as well as the cleaning and elimination of polluting elements due to solid loads foreign to the environment for its use as a sidewalk. passage between the cave and the wall of the dam in its concave part.
- Two interpretive panels have been placed (Cueva del Huididero National Monument and Presa de los Caballeros) in addition to restoring the existing ones and placing an explanatory panel on Good Practices. The panels have been placed both in the area for vehicle parking and in the first access viewpoint to the dam and the cave.
- Virtual tours have been carried out in 3D-360º and VR of the Huididero-Gato System: entrance to the Cueva de Huididero, Dunas room, Giraldillo, Paso de las Termópilas, Bat rooms and Cueva del Gato. The virtual tours have been carried out with 3D scanning and 360º photography equipment, MATTERPORT© technology, and can be viewed both on the screen of any device (mobile, tablet and computer) and through the use of virtual reality glasses.
- The new version of MontejaqueApp has been developed so that the new content can be viewed and the ITINERE App for synchronizing IBEACONS with SENSORO© technology via BLE connection for the display of tourist and interpretive information by proximity and location, which also includes connection with our 3D-360º virtual tour showcases. All information is offered in Spanish, English and French.

- The Cuevadelhundidero.es website has been created, dedicated to offering all the information regarding the Cueva del Hundidero Natural Monument and project for enhancement and public use.
- 5,000 tourist brochures specific to the Monument have been produced in the three languages mentioned.

2. DESCRIPTION OF WORKS AND PHOTOGRAPHIC REPORT

The direction of the works referring to the actions described in the initial technical construction project-report has been carried out by a technician appointed by the Sierra de Libar Foundation in coordination with the municipal technical services and technicians of the Ronda regional office for the Environment. Given that the Cueva del Hundidero Natural Monument is a protected area of high environmental value: RENPA (Network of Protected Natural Areas of Andalusia), LIC (Places of Community Interest), ZEPA (Special Protection Area for Birds) and Reserve of the Biosphere since 1977 (Sierra de Grazalema Natural Park).

- LAND CONDITIONING

The work of clearing and pruning trees has been carried out in March and the first week of November, pending a new pruning at the end of November or the beginning of December due to the lack of rain this season.

The land preparation works (clearing, earthworks, aggregates, etc.) have been carried out by personnel selected from the employment exchanges and by municipal services, including consolidated supplier companies that regularly carry out work for the City Council in its improvement programs of municipal infrastructure.

Two storage areas for materials and general services have been set up, such as water supply, rubble bins and surplus materials: the first in the area of the main lookout point above 720 meters above sea level and the second in the intermediate area of the access path to the Hundidero cave at an elevation of 650 meters above sea level, for which an access lane for dumpers has been built. The last stretch of this trail in the Hundidero gorge is over 600 meters above sea level and is the one with the most pronounced slopes along the route, which is why the collection of materials has been carried out manually.

Access to the Mirador Veiwing Post

The initial area or viewpoint has an area of approximately 250 m². The topsoil and clay cover has been removed, a layer of gravel has been spread on which a layer of gravel has been added, graded and compacted by mechanical means. Two informative and interpretive panels have been installed - Cueva del Hundidero Natural Monument and Recommendations and good practices - in the main protected parking area with a fence of treated wood and an interpretive panel of the Presa de los Caballeros complementing the two existing ones in the main viewpoint protected with treated wood posts and braided rope handrails.



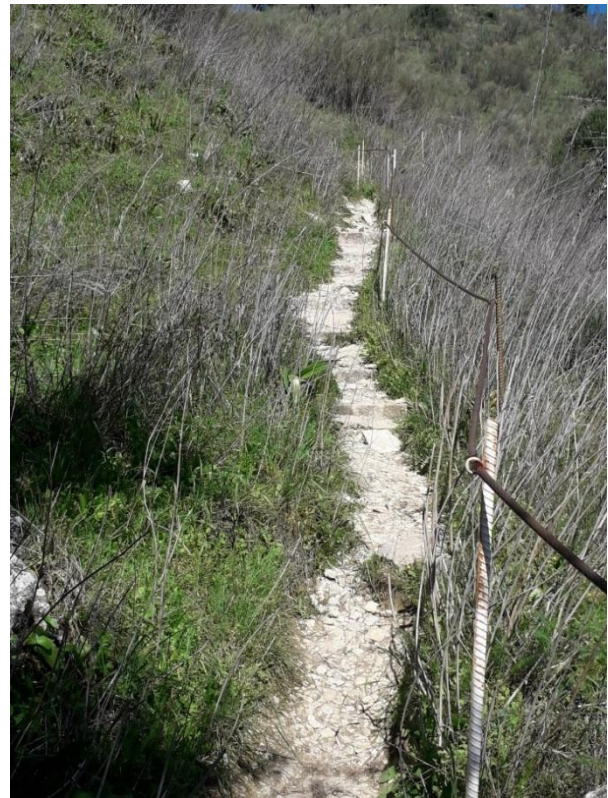
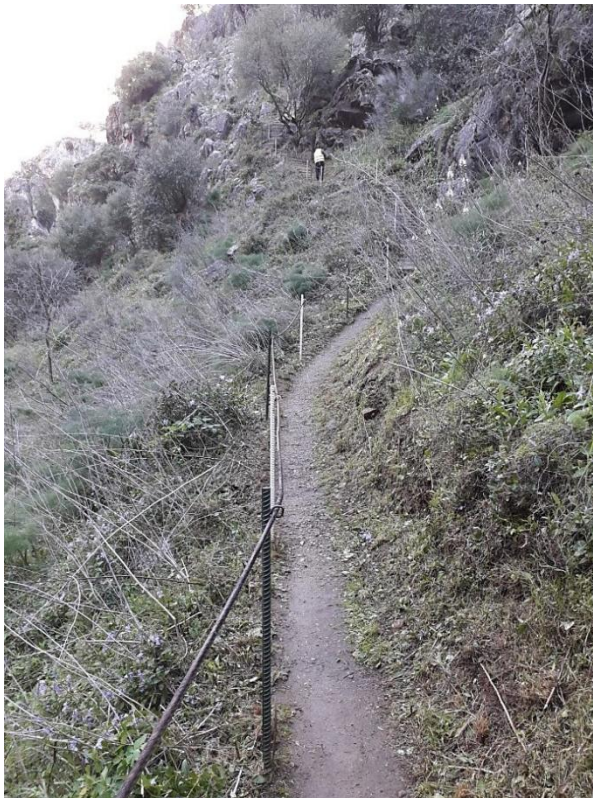
Access path to the Hundedero Cave and Gorge (before and during clearing, cleaning and pruning)

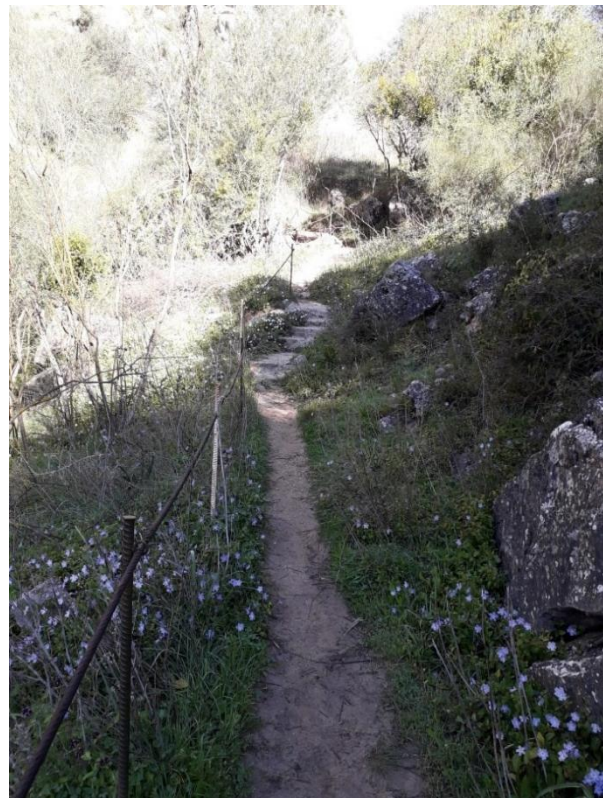
The existing path, due to its original design, was too narrow in most of the sections (approximately 50 cm), having narrowed to a greater extent due to the lack of cleaning and maintenance that causes lateral invasion of the undergrowth. The sidewalk was dotted with stepped sections where the slopes became more pronounced, which, in addition to not being enough, were designed too narrow for the current needs of public use.

In some non-stepped sections, but with considerable slopes, a large part of the paths had become ditches that acted as a channel for runoff caused by the rains, which made traffic along them extremely difficult.

The path has been cleared and cleaned along its entire length, including the stepped sections, prior to the widening of the route. In addition, pruning has been carried out to clean and enhance the existing riverside grove in the Hundedero gorge, since the dense vegetation occupied the accesses to the cave.

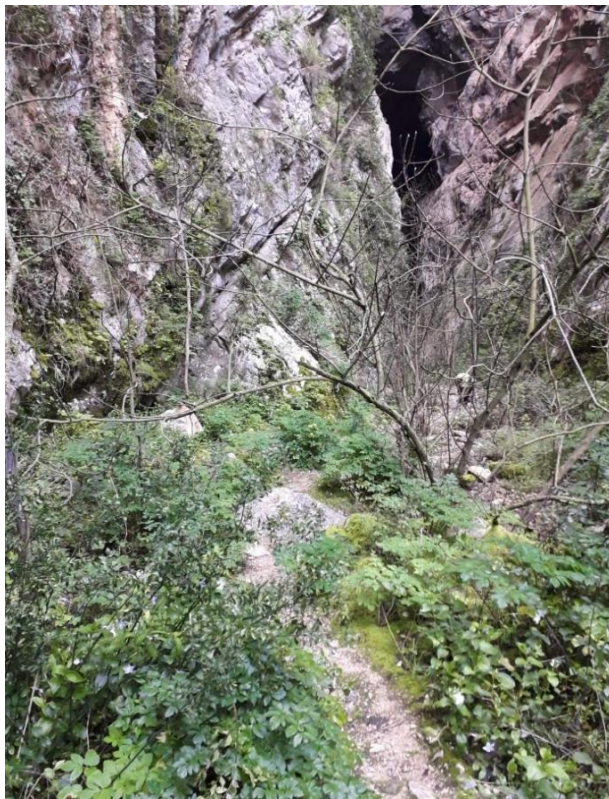
Sidewalk and stepped sections







Garganta del Hundidero



Access path to Cueva del Hundidero (opening of ditches, sub-base compacted fill and cleaning of existing steps)

The sections of sidewalk have been widened, filled and compacted for the settlement of the new planned sections of paving. The stepped sections have also been widened transversely to proceed with their reconstruction with the required width. The widening and compaction of the land of about 400 linear meters in sidewalk and the previous works for the reconstruction of staggered sections in approximately 300 steps have been carried out.

Sidewalk and stepped sections





- MASONRY AND INFRASTRUCTURES

The execution of the masonry works has been carried out with personnel selected from the job boards published by the Montejaque City Council.

In the supply and installation of infrastructures, small local carpentry and locksmith companies have been taken into account, except for the supply of special materials, seeking to optimize budgets. These works correspond to the installation of safety elements in treated wood and rope on the stepped access path to the Hundidero cave, such as the installation of metallic elements to protect the route between the reservoir spillways, the access path to the dam and the route on the crown of the wall of the Presa de los Caballeros.

Access path to Cueva del Hundidero (reconstruction of existing stepped sections, creation of new sections and paving of path)

New stepped sections have been created made with concrete and stone from the ground in the old sections of sidewalk with significant slopes. The total route is made up of 497 steps and the gently sloping sections have been paved with concrete and thick non-slip Chinese paving. Everything has been dyed with natural dyes in earth tones and iron oxide to achieve landscape homogenization.

The existing stepped sections have been widened and stained to adapt them to the whole.

Subsequently, the anchors for the fastening of the treated wood posts that hold the rope handrail have been consolidated and once fixed, the entire route has been re-stained to blend in with the environment.

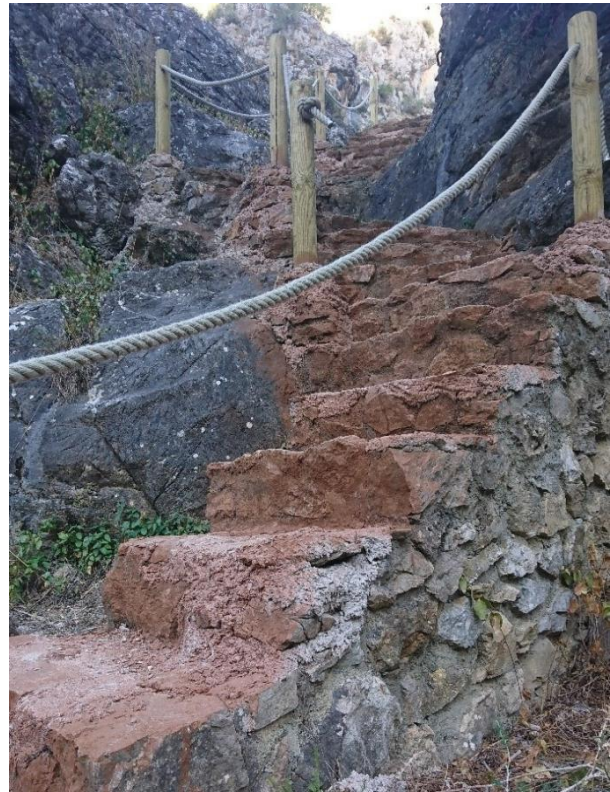
The slope areas that have been widened to widen the path and have been covered with seeded coconut fiber mesh to stabilize the land through rooting.



Fijación de Postes y Pasamanos



Tramos escalonados en mayor pendiente



Slope stabilization with coconut fiber mesh



Access to the Presa de los Caballeros or Presa de Montejaque (installation of protections for safety in foot traffic)

Until now, the accesses to the Presa de los Caballeros were closed to public access. The actions that had been carried out had the objective of closing the accesses due to the danger of passing through these infrastructures.

The necessary infrastructures have been installed in the three different sections (spillways, Taviznilla path and crown of the wall of the Presa de los Caballeros) to guarantee foot traffic throughout its route.

The existing protection elements have been maintained in order to differentiate the actions that have been carried out in the last century and those that have been carried out in this project. A design protection similar to that used in the Caminito del Rey has been chosen by means of a 1-meter-high simple torsion mesh tensioned by three cables on rack posts and with 16-mm galvanized braided handrails at 1.2 meters in length. In this case, rack posts have been used that adapt to the unevenness of the Taviznilla path. In the crown of the dam, these posts have been used as trim for the old protections and as a support for the braided handrail cable.

The access to the spillway was a small channel between rocks that has been widened and stepped with the same materials used in the access path to the Hundidero cave.

- Spillways

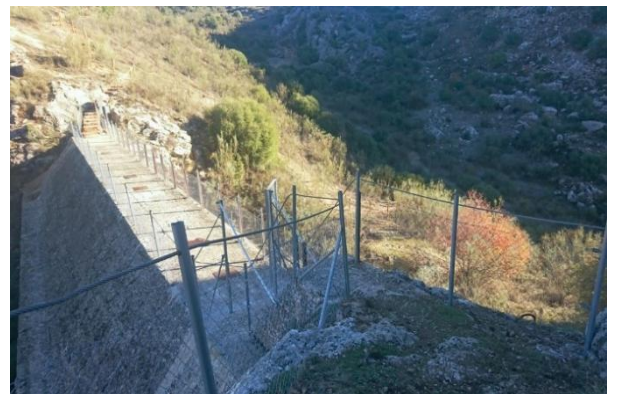
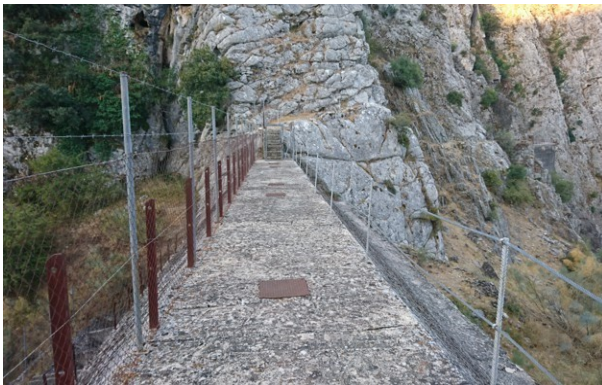
Two protective sections have been placed flanking the concrete platform that makes up this infrastructure. The stepped sections at each of the ends have been protected in the same way and an access gate to the Taviznilla path has been added.

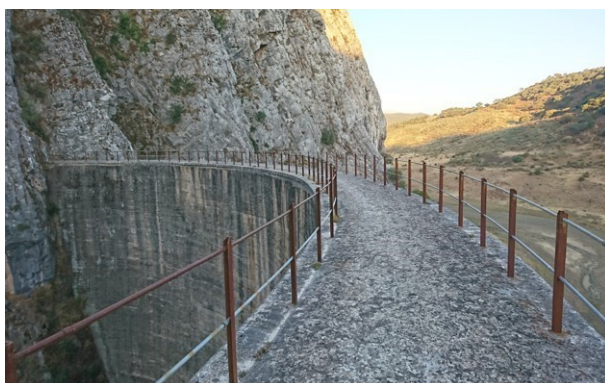
- Taviznilla path

The path has different slopes in some sections. The exterior protection of the sidewalk has been made with rack posts, simple twist mesh and protection handrails with 16 mm braided cable, just like the previous section. To ensure the unevenness and curves on the path, steel tube reinforcements have been incorporated with tensioned winds that guarantee its stability and safety, in addition to reinforcing all the steps on step platforms made during the dam construction works.

- CROWN OF THE DAM WALL

The protections for the security of access and transit through the crown of the dam wall have been made using the same design and materials as the previous sections. It has been decided to maintain the existing protections for this action to favor the stability and security of the new facility. Two access gates have been added for the future via ferrata at the vertices with the Tavizna and Taviznilla hills.





- ELEMENTS INTENDED FOR PUBLIC USE

The enclosure has been equipped with two new interpretive panels: a main one for the Cueva del Huididero Natural Monument placed at the start of the route in the main public parking area (it has a co-financing identification panel attached) and a second panel for the Presa de the Knights at the access viewpoint to the two rehabilitated routes. These panels complement the existing ones that have been restored. An information panel has also been placed on recommendations for good practices in the natural environment.

Monumento Natural Cueva del Huididero

PARQUE NATURAL Sierra de Grazalema

En España, sólo existen dos ríos que se ocultan, continúan en corriente subterránea y resurgen más adelante: nuestros ríos Guadalupe y Campobuzo al río Guadaira, que llega al punto donde se pierde y vuelve a aparecer aguas abajo, en los términos "Oros de Guadaira".

Con más de 50 metros de altura, la cueva se sitúa a fondo de una Grieta por la que circula el torrente del sistema Huididero-Cabo.

En la Guadaira se crea por esta vía la Sierra de Muro y el Agriñico para responder por la Cueva del Cabo separada más de 4 Km. de la embocadura formando el espacio fluvial subterráneo más impresionante de nuestra provincia.

In Spain, there are only two rivers that are hidden, continue in underground current, and appear later as river Guadalupe or Campobuzo and the river Guadaira, which reaches the point where it disappears and reappears in the so-called "Oros de Guadaira".

More than 50 meters high, the Huididero Cave is located at the bottom of a gorge through which the river circulates, forming the Huididero-Cabo system.

The Guadaira river creates the Muro and Agriñico mountains in this way to separate through the Cabo Cove separated by more than 4 km from the entrance, forming the most impressive underground fluvial space in our province.

En Espagne, il n'y a que deux rivières qui se cachent, continuent dans le courant souterrain et réapparaissent plus tard, nos rivières Guadalupe ou Campobuzo et le ruisseau Guadaira qui arrivent au point où ils disparaissent et réapparaissent en aval, dans le sous-domaine "Oros de Guadaira".

Avec plus de 50 mètres de haut, la Cueva del Huididero est située au fond d'une gorge à travers laquelle circule le torrent du système Huididero-Cabo.

La rivière Guadaira traverse ainsi les chaînes montagneuses Muro et Agriñico pour séparer la Cueva del Cabo séparée de plus de 4 km de l'embouchure, formant l'espace fluvial souterrain le plus impressionnant de notre province.




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Presa de los Caballeros

PARQUE NATURAL Sierra de Grazalema

La presa de Montajaque, que se terminó de construir en 1924, fue pionera en Europa, al ser la primera de la tipología en forma de "Boveda-Caja", que se construyó con RC75 en el alto de la montaña a una cota de 1.000 metros de altura. La particularidad de este tipo de presa es que tiene doble coronación, tanto en sentido horizontal como en el vertical, por tanto se ven la forma de bóveda con la coronación del río y el agua en el río.

La naturaleza impuso un relieve que se pudo haber sido la gran infraestructura de la Sierra de Ronca ha quedado como testigo de la lucha del hombre contra la naturaleza.

The Montajaque dam, which was completed in 1924, was a pioneer in Europe, as it was the first of the so-called "vaulted-box" type, which was built with RC75 in a high place in the mountain range. The particularity of this type of dam is that they have double coronation, both horizontally and vertically, and therefore resemble the vault shape with the concavity on the upstream side of the river.

Nature imposed its relief and what could have been the great infrastructure of the Sierra de Ronca has remained as a witness to the struggle of man against nature.




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Recomendaciones y Buenas Prácticas

PARQUE NATURAL Sierra de Grazalema

- 1. No se permite fumar en el interior de las cuevas ni en el exterior de las mismas.
- 2. No se permite el uso de mecheros ni de cualquier otro tipo de fuego.
- 3. No se permite el uso de bombas de agua ni de cualquier otro tipo de maquinaria.
- 4. No se permite el uso de vehículos motorizados ni de cualquier otro tipo de transporte.
- 5. No se permite el uso de drones ni de cualquier otro tipo de aeronave.
- 6. No se permite el uso de armas ni de cualquier otro tipo de arma.
- 7. No se permite el uso de explosivos ni de cualquier otro tipo de explosivo.
- 8. No se permite el uso de sustancias químicas ni de cualquier otro tipo de sustancia.
- 9. No se permite el uso de productos de limpieza ni de cualquier otro tipo de producto.
- 10. No se permite el uso de productos de belleza ni de cualquier otro tipo de producto.
- 11. No se permite el uso de productos de alimentación ni de cualquier otro tipo de producto.
- 12. No se permite el uso de productos de higiene personal ni de cualquier otro tipo de producto.
- 13. No se permite el uso de productos de cuidado personal ni de cualquier otro tipo de producto.
- 14. No se permite el uso de productos de protección personal ni de cualquier otro tipo de producto.
- 15. No se permite el uso de productos de protección ambiental ni de cualquier otro tipo de producto.
- 16. No se permite el uso de productos de protección social ni de cualquier otro tipo de producto.
- 17. No se permite el uso de productos de protección económica ni de cualquier otro tipo de producto.
- 18. No se permite el uso de productos de protección cultural ni de cualquier otro tipo de producto.
- 19. No se permite el uso de productos de protección educativa ni de cualquier otro tipo de producto.
- 20. No se permite el uso de productos de protección sanitaria ni de cualquier otro tipo de producto.

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Mejora Ambiental y Uso Público

Monumento Natural Cueva del Huididero

PITAF- 2020

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It has been equipped with a rubbish reception module with compartments for recycling, placed in the public parking area.

- NEW TECHNOLOGIES (ICTs), DISSEMINATION AND PROMOTION

Websites and Mobile Applications (App)

Two web pages have been designed and published, one of them monographic on the Cueva del Hundidero Natural Monument and the second dedicated to information and promotion of the tourist services of the municipality of Montejaque for visitors.

- cuvadelhundidero.es

Web page of the Cueva del Hundidero Natural Monument with all the information on the enhancement and public use of the enclave and the PITAF-2020 project.

- montejaqueturismo.es

Website of the Municipal Tourist Information Office located in the Speleology Interpretation Centre.

The existing municipal application for mobile devices has been redesigned and adapted to the new elements for displaying tourist information: 3D 360° virtual tours and trails via GPS supported by GoogleEarth ©. In addition, the ITINERE Montejaque App has been created to display tourist information via BLE with proximity and location sensors.

- MontejaqueApp redesigned

Official app of the City Council of Montejaque for mobile devices downloadable in Play Store and Apple Store.

-  ITINERE Montejaque

Exclusive tourist and cultural information app for displaying information by ibeacons proximity and location sensors, also recently created, for mobile devices downloadable in the Play Store and Apple Store.

3D 360° virtual tours - VR

Scans of the Hundidero-Gato System have been carried out, selecting the most spectacular areas of the route in six immersive routes for viewing both on the screen of any device and for the use of virtual reality glasses.

- Hundidero cave entrance
- Super Room
- Room of the Dunes
- Giraldillo
- Thermopylae Pass
- Bat Room
- Cat caveo

The virtual tours are available on the websites cuvadelhundidero.es, montejaque.es (official website of the Montejaque City Council), elhacho.es (online publication of the Culture Delegation of the Montejaque City Council), montejaqueturismo.es, MontejaqueApp and ITINERE Montejaque App).

The information displayed, both in the 3D 360° - VR virtual tours and on the web and mobile applications, has been provided with text and multimedia files in video and audio formats.

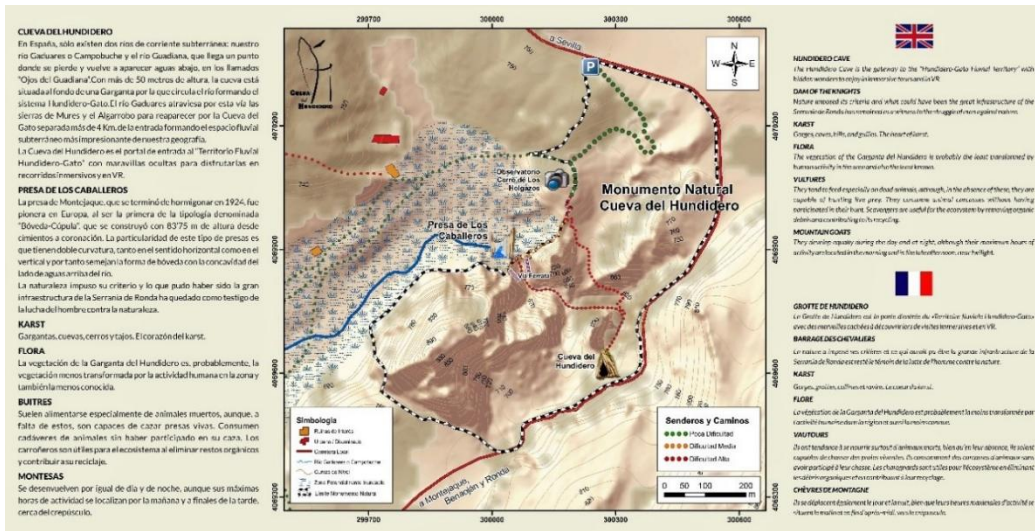
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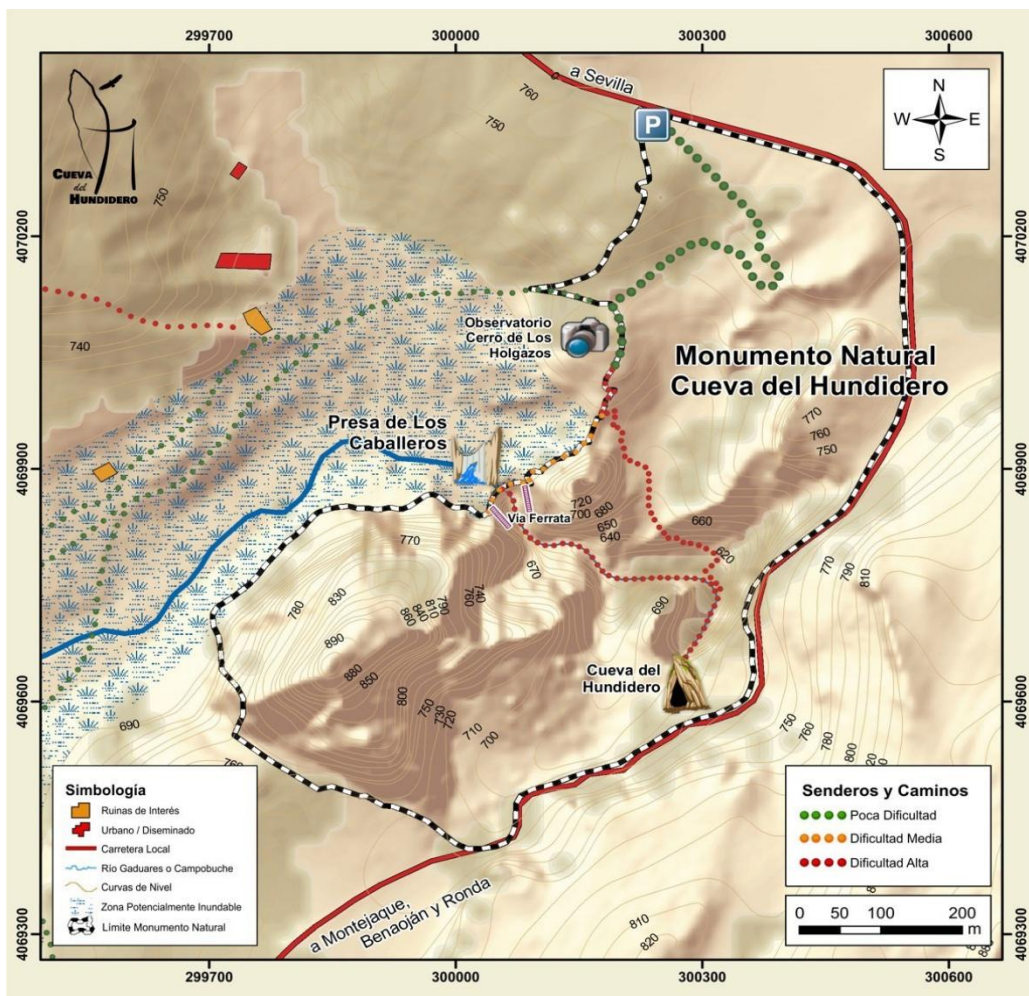
Interior "YOU WILL BE THRILLED"



Inside unfolded



Downloadable maps made with GIS tools



3. OBJECTIVES ACHIEVED

As mentioned at the beginning of this call, the principle of this project had to establish the condition of combining the priorities of conservation with the objectives of enhancement and take advantage of the opportunity that this enclave offers us to allow the enjoyment and increase of quality of life of the citizens, which contributes to the development of the territory by conserving the ecosystem, the historical, cultural and ethnographic heritage.

The actions carried out in this project have achieved the following specific objectives:

- A tourism product that enhances the value of the Cueva del Hundidero Natural Monument and complements the Cueva del Gato Natural Monument in the Benaoján area, linked by the Hundidero-Gato Hydrogeological System, providing an improvement in the offer of the Serranía de Ronda tourist destination.
- A sustainable tourism asset based on environmental sustainability, sociocultural sustainability and temporary sustainability of local employment, which helps to minimize the depopulation of rural areas.
- An innovative project that uses ICT in tourism promotion with the implementation of proximity sensors for the display of information, the realization of state-of-the-art immersive virtual tours that incorporate Virtual Reality to facilitate the enjoyment of the tourist asset for people with mobility small and elderly in an enclave whose orography represents the first drawback of adaptability. Thanks to these technologies, the Cueva del Hundidero Natural Monument can be enjoyed from anywhere on the globe.

4. CALENDAR

The original calendar has been maintained at all times with the logical variations caused by the unforeseen events encountered in terms of the development of the works and performances, but maintaining the final execution dates of the performances.

- **INITIATED:** 20/01/2021

- **END:** 15/11/2021

- **SCHEDULE:**

MONTH	FASE	ZONE	ACTION
JANUARY	Planning		<ul style="list-style-type: none"> ● Planning of execution of the project, communication to the administrations of the beginning of the actions
FEBRUARY	Placing	- General	<ul style="list-style-type: none"> ● Stakeout and layout of the access path to the cave ● Measurements and layout of security elements in the Taviznilla path and the dam wall
MARCH	Pruning and clearing	- Veredas y entorno - Garganta de Hundidero	<ul style="list-style-type: none"> ● Cleaning and clearing of the access path to the cave ● Access path to the dam wall ● Cleaning of interpretive area ● Pruning stubble and riparian trees in the Hundidero gorge
APRIL			
MAY	Masonries and Installations	- Vereda acceso a cueva - Vereda Taviznilla	<ul style="list-style-type: none"> ● Conditioning of land. Filling, compacting and explanations. ● Preliminary preparation work for the installation of security elements at the accesses to the dam
JUNE			

JULY	Masonries	Cave Access	<ul style="list-style-type: none"> ● Installation of security elements in the accesses and spillways of the reservoir ● Staggered sections and ramps of the cave access path
AUGUST	Technology and Design	<ul style="list-style-type: none"> - Design of GIS Maps - ITINERE App Design - Adaptation of MontejaqueApp 	<ul style="list-style-type: none"> ● Filming and scanning of the main gallery of the Hundidero ● Gato System
	Masonries	- General	<ul style="list-style-type: none"> ● Design of virtual tours ● Programming of sensing platforms ● Design of maps and signage panels
SEPTEMBER OCTOBER	Installations	- General	<ul style="list-style-type: none"> ● Masonry works in stepped sections of steeper slopes
	Technology and Design	- General	<ul style="list-style-type: none"> ● Installation of security elements of the wall of the Presa de los Caballeros ● Installation of security elements in the village of Taviznilla
	Technology and Design	- General	<ul style="list-style-type: none"> ● Reception of printed brochures. ● Installation of interpretive panels and other elements ● Testing and final publication of App and web for public use
NOVEMBER	General		<ul style="list-style-type: none"> ● Supervision of all the actions carried out ● Second tree enhancement pruning in the Hundidero gorge due to environmental impact needs

5. LOCAL EMPLOYMENT

Most of the on-site services, both conditioning, transport and stockpiling of masonry materials, signaling and safety elements, as well as labor, have been provided by the Montejaque City Council, following the work method forecasts described in point 4 of the Descriptive Report for the project, which contemplates carrying out the work with local personnel from the municipal labor exchanges and the usual suppliers of the Montejaque City Council in the execution of urban works and infrastructures. This has guaranteed the completion of the work on time and optimization of resources.

The small metal and wood carpentry companies are local companies experienced in similar work that they carry out for the City Council itself.

APPENDIX I. PROOF OF GENDER EQUALITY IN THE EXECUTION OF ACTIONS

APPENDIX II & III. PROOF OF CREATION OF STABLE EMPLOYMENT AND EMPLOYMENT CONTRACT

These documents are not provided as it is prohibited to publish the names of employees who are protected by Spain's General Data Protection Regulations "Reglamento General de Protección de Datos" (GDPR).

6. ENVIRONMENTAL IMPACT

The Sierra de Libar Foundation has ensured at all times, in coordination with the Regional Office for the Environment, so that the least environmental impact is produced both in the execution phase of the project and in the operation phase of the facilities for public use.

Maintenance and conservation protocols have been created that will be adjusted to future actions scheduled in the area declared a Cueva del Hundidero Natural Monument.

HUNDIDERO CAVE – CONSERVATION PROTOCOL			
Area	Sub-Area	Action	Frequency
NATURAL, CULTURAL AND LANDSCAPE RESOURCES	Management Criteria	<ul style="list-style-type: none"> • Regeneration of geological, faunal, botanical, landscape and hydrological values • Dissemination of natural, cultural and landscape values • Planning of services and activities for public use 	Annual
	Corrective Measures	<ul style="list-style-type: none"> • Necessary measures if alterations are detected in the dynamics of the processes 	Biannual
	Natural Resources	<ul style="list-style-type: none"> • Classification of elements belonging to cultural heritage and their signage 	Annual
	Resources	<ul style="list-style-type: none"> • Management of solid waste produced 	
	Hydraulic Public Domain	<ul style="list-style-type: none"> • Demarcation of land belonging to the Public Hydraulic Domain as well as other surroundings that affect the water regime 	Annual
USO PÚBLICO	Provision of Equipment	<ul style="list-style-type: none"> • Study of needs to make effective the citizen's right to enjoy the natural environment • Provision of sufficient information mechanisms for the knowledge and enjoyment of the environment as well as recommendations for its proper use, facilitating access to the environment. • Enjoyment by people with disabilities, ensuring the safety of visitors 	Annual
	Equipment location	<ul style="list-style-type: none"> • Design of necessary elements that guarantee knowledge and enjoyment, including viewpoints for elements that can be viewed from a distance 	Annual
	Accesses and Signage	<ul style="list-style-type: none"> • Conditioning of parking area • Signage in accordance with the provisions of the Andalusian Natural Areas Signaling Manual. • Signaling of beacons proximity sensors, contextual deployment and virtual tours adapted to people with disabilities • (audio, video, AR-VR). 	Annual
	Quality of the Offer	<ul style="list-style-type: none"> • Report on the quality of the offer regarding equipment, dissemination material and user protection. 	Annual
	Economic Initiatives	<ul style="list-style-type: none"> • Promotion of local economic initiatives related to public use according to formulas provided for in current regulations. 	Annual
ENVIRONMENTAL EDUCATION	Collaboration	<ul style="list-style-type: none"> • Collaboration with educational institutions in promoting conservation awareness campaigns. 	Annual
	Priority Sectors	<ul style="list-style-type: none"> • Local educational community • Inhabitants of the municipality • Users • Economic and social agents related to the activities carried out 	Annual

ENVIORNMENTAL EDUCATION	Performance	<ul style="list-style-type: none"> ● Promotion of public or private initiatives favorable to the understanding of the natural, cultural and landscape resources of the enclave. ● Promotion of the values of space. ● Development of communication, awareness and training actions related to the conservation and restoration of resources. ● Promotion through volunteering for collaboration in the tasks of improvement and conservation of resources. 	Annual
INVESTIGATION	Projects	<ul style="list-style-type: none"> ● Research projects on the cultural and natural elements of the space in accordance with the regulations of the competent Ministry. ● Methodology used in the research to cause the least impact. ● Results and dissemination of the projects. 	Annual
USES AND ACTIVITIES	Traditional Activities	<ul style="list-style-type: none"> ● Within the scope area, traditional activities and uses may be developed as long as they do not affect the values that justify the protection of the enclave. 	Annual
	Other Activities	<ul style="list-style-type: none"> ● All activities other than the traditional ones must have the express authorization of the Ministry responsible for the environment, in addition to the sectoral ones. ● The protection and authorization regime will apply according to Andalusian Historical Heritage ● Recreational activities and occasional public shows must abide by the current law on this matter. 	Annual
	Incompatible Activities	<ul style="list-style-type: none"> ● Activities involving change of land use ● Introduction of alien species of flora and fauna. ● Recode samples of rocks, minerals, plants, fossils, etc. ● Earth movements that modify the physiographic characteristics of the area. ● Camping or removable accommodation. ● Circulation of mechanical or animal traction vehicles outside the area authorized for it. ● Use of fire. ● Disposal of waste. ● All the incompatibilities established on properties registered in the General Catalog of Andalusian Historical Heritage. 	Annual
PARKING	Terrain	<ul style="list-style-type: none"> ● Waste cleaning ● Pavement condition inspection 	Weekly Biannual
	Signage	<ul style="list-style-type: none"> ● Fence Inspection 	Biannual
		<ul style="list-style-type: none"> ● Informative and interpretive panels 	Annual

REST AREA	Access and Terrain	<ul style="list-style-type: none"> ● Waste cleaning ● stubble pruning 	Weekly Annual
	Signage	<ul style="list-style-type: none"> ● Inspection of the fence ● Informative and interpretive panels 	Biannual Annual
	Installations	<ul style="list-style-type: none"> ● Ibeacons proximity sensor monitoring 	Daily
	Furniture	<ul style="list-style-type: none"> ● Bench tables, litter bins, etc. 	Biannual
BIRD OBSERVATION	Access and Terrain	<ul style="list-style-type: none"> ● Waste cleaning ● Stubble pruning ● Inspection of the general condition of accesses 	Weekly Annual Biannual
	Installations	<ul style="list-style-type: none"> ● General state of conservation of the booth ● Ibeacons proximity sensor monitoring 	Biannual Daily
TAVIZNA MOUNTAIN AND DAM	Access	<ul style="list-style-type: none"> ● Waste cleaning ● Security elements (fenced) 	Weekly Weekly
	Signage	<ul style="list-style-type: none"> ● Informative and interpretive panels 	Weekly
	Installations	<ul style="list-style-type: none"> ● Ibeacons proximity sensor monitoring 	Daily
	Vía ferrata	<ul style="list-style-type: none"> ● Review of security elements 	Monthly
HUNDIDERO CAVE	Access and Terrain	<ul style="list-style-type: none"> ● Waste cleaning ● Inspection of state of the pavement and the steps ● Fence and handrail inspection 	Weekly Biannual Biannual
	Signage	<ul style="list-style-type: none"> ● Informative and interpretive panels 	Annual
	Installations	<ul style="list-style-type: none"> ● Ibeacons proximity sensor monitoring 	Daily
HUNDIDERO GORGE	Sidewalk and Land	<ul style="list-style-type: none"> ● Waste cleaning ● Stubble pruning ● Ribera grove pruning 	Weekly Annual Annual

7. RECOGNITION OF EXECUTED WORK

APPENDIX IV. RECORD OF RECOGNITION OF EXECUTED WORK AND RECEPTION OF THE SAME

Montejaque. Submitted with digital date and digital signature

Juan de Castro

Fundación Sierra de Libar

APPENDIX I. PROOF OF GENDER EQUALITY IN THE EXECUTION OF ACTIONS.



Ayuntamiento de Montejaque

Diego Sánchez Sánchez (1 de 1)
Alcalde-Presidente

Fecha Firma: 15/12/2021
Firma: 602748c449b93b3e4d855b8a794680



El Ayuntamiento de Montejaque en cumplimiento con la Ley de Igualdad de género y haciendo uso de la bolsa de trabajo municipal ha contratado a 3 hombres y 3 mujeres para la realización de los trabajos en el Proyecto “Acondicionamiento de Acceso a la Cueva de Hundidero”(Monumento Natural) que se han venido desarrollando en la localidad desde Junio a Octubre de 2021 consistiendo los mismos en limpieza, albañilería, desbroce etc.

En Montejaque a fecha de firma electrónica.
El Alcalde-Presidente

Fdo. Diego Sánchez Sánchez.



Ayuntamiento de Montejaque

Plaza Constitución, 4, Montejaque. 29360 (Málaga), Tfno. 952167196, Fax: 952167351



Cód. Validación: 6GTLZSTNNWXYMPEGSZTPSZK | Verificación: <https://montejaque.es/electronica.es/>
Documento firmado electrónicamente desde la plataforma esPublica Gestiona | Página 1 de 1

APPENDIX IV. RECORD OF RECOGNITION OF EXECUTED WORK AND RECEPTION OF THE SAME.

AYUNTAMIENTO DE MONTEJAQUE

ACTA DE RECONOCIMIENTO Y COMPROBACIÓN DE OBRA EJECUTADA

1.- DATOS DE LA OBRA			
Obra:	ACONDICIONAMIENTO DE ACCESO A LA CUEVA DE HUNDIDERO		
Dirección	ACCESO A HUNDIDERO	C. Postal:	29.360
Nº Exp.:	Programa:	PITAF	

2.- PARTES PRESENTES	
En	MONTEJAQUE el día 30 de octubre De 2021
En el lugar de emplazamiento de las obras, se reúnen los señores que a continuación se citan, al objeto de proceder a la recepción o conformidad del objeto del contrato, conforme a lo dispuesto en los 208 y 241 de la ley 9/2017 de Contratos del Sector Público y al art. 179 del Reglamento General de la Ley de Contratos de las Administraciones Públicas.	
El facultativo de la Administración, D./Dña.	
El Director Técnico del la Obra, D./Dña.	ANTONIO CASTAÑO DOMÍNGUEZ
El Contratista Adjudicatario.	AYUNTAMIENTO DE MONTEJAQUE
El Alcalde - Presidente D./Dña.	DIEGO SANCHEZ SANCHEZ
La Dirección de la Obra informa que se han efectuado las prestaciones convenidas en el proyecto, y que las obras ejecutadas se ajustan a las instrucciones por él dictadas en el transcurso de los trabajo, por lo que se porcede a la recepción de las mismas, que han consistido especialmente en:	
Limpieza de los accesos, creación de peldaños y mejora de firme, colocación de señalística y colocación de sistemas de protección según memoria técnica	
Los reunidos las dan por recibidas las obras, haciéndose cargo de las mismas el Ayuntamiento para su conservación y explotación, manifestándose que con esta fecha comienza a contar el plazo de garantía de 12 meses durante el cual el contratista responderá de los posibles vicios ocultos que pudieran advertirse en lo construido o ejecutado, sin perjuicio de la responsabilidad que le incumbe conforme a lo previsto en el artículo 236 de la referida Ley.	
La fecha prevista para el inicio de la medicion de las obras realmente ejecutadas de acuerdo con el proyecto será el día 30 de octubre De 2021	

Y en prueba de conformidad, los reunidos firman la presente, en MONTEJAQUE

3.- FIRMAS			
El Facultativo de la Administración	La Dirección de Obras	El Ayuntamiento	El Contratista
			
Fdo. Antonio Castaño Domínguez Arquitecto Técnico Mcpal.	Fdo. Diego Sánchez Sánchez Alcalde	Fdo. Diego Sánchez Sánchez Alcalde	Fdo. Diego Sánchez Sánchez Alcalde