



Cielos
de Tarapacá

Chapter 9

Monitoring plan for Environmental Variables

EIA Cielos DE TARAPACÁ

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Chapter 9

Monitoring plan for Environmental Variables

EIA PHOTOVOLTAIC PARK CIELOS DE TARAPACA

Content

1	CULTURAL Heritage	3
1.1	Historical heritageÓrico	3
1.2	Archaeological heritage	7

1 CULTURAL Heritage

In accordance with the present EIA, the Cultural heritage component has three measures Associated Environmental Management, which apply to impacts that are manifested in the construction stage of the "Cielos de Tarapacá".

The follow-up plans for the cultural heritage envisage the development of defined actions, such as the revision of the documents which account for the application of the proposed compensation measures for the protection of the cultural heritage and to ensure Compliance with environmental management plans.

Within the measures proposed in these management plans, specific actions such as the exhaustive registration and collection of archaeological sites are considered. and historical Located in the Area of Influence (AI) of the project.

The following is a detailed description of each follow-up plan for the historical and archaeological components, depending on the proposed compensation measures.

1.1 Historical heritage

The patrimonial management plans, presented for the impacts that will be generated on the historical patrimony, correspond to activities of compensation that ensure the documentary preservation of the historical patrimonial elements that will be affected by the Works of the project.

Within this framework, this plan of monitoring of the historical patrimony considers instances of confirmation of each measure of proposed compensation, the evaluation of the efficiency and effectiveness of the same.

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1.1.1 *Monitoring of the measures associated with the fulfilment of the exhaustive registration of the elements for their conservation in the historical context (PM-PHI-01).*

Table 1: Environmental monitoring Plan-Cultural Heritage component-Confirmation of the execution of the exhaustive register.		
Plan and monitoring	Middle:	Cultural Heritage
	Component:	Historical heritage
	Project stage:	Construction
Environmental impact	Impact PC-PHI-CON-01 : Affection on the elements that define each site, isolated finding or historical linear trait.	
Measures	<i>PM-PHI-01</i> : Exhaustive recording of the elements for their preservation in the historical context.	
Description of the tracking measure	<p>The extent <i>PM-PHI-01</i> Consists of:</p> <ul style="list-style-type: none"> To record in detail the external characteristics of each patrimonial element, through a registration form <i>Ad hoc</i> That allows to document the site, architectural features and materiality of the same. Perform a topographic survey of each element. Make a photographic record and Video graphic of each element. To make a historical review that allows to contextualize each element within the framework of the nitrate development of the region. 	
Measurement parameters	<p>For measurement <i>PM-PHI-01</i>, the measurement parameters correspond to:</p> <ul style="list-style-type: none"> Verify permission entry in the framework of PAS 132. Corroborate the exhaustive registration through the document review. Corroborate that the document complies with all the objectives of the measure. Approval of the Council of National Monuments. 	
Locating checkpoints	does not apply	
Standards allowed according to standard	does not apply.	
Levels committed	does not apply.	
Track duration	<p>Duration of measurement follow-up <i>PM-PHI-01</i>:</p> <ul style="list-style-type: none"> From the time of the implementation of the measure of protection until the approval of the Report By Part of the Council of National Monuments. 	
Tracking frequency	<p>does not apply frequency. Two follow-up milestones are considered:</p> <ul style="list-style-type: none"> Revision of the report that realizes the compliance of the measure 	
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Table 1: Environmental monitoring Plan-Cultural Heritage component-Confirmation of the execution of the exhaustive register.

	<ul style="list-style-type: none"> To Probation on behalf of the Council of National Monuments (CMN).
Method (Procedure)	<p>Scheduling measure Implementation <i>PM-PHI-01</i>:</p> <ul style="list-style-type: none"> Income PAS 132. Approval (CMN) for application of exhaustive registration measure. Programming field activities, conformation work team. Comprehensive registration campaign; Application of specialized file for registration; Topographic survey and photographic record. Systematization of results and elaboration of registration report. Presentation to the CMN. Approval By Part of the CMN.
Auditing Agency	SEA – Council of National Monuments (CMN).
Deadline or frequency of delivery of reports to the auditing body	does not apply.

Source: Self-elaboration

1.1.2 Measurement follow-up: Superficial collection of sites and historical findings. Generation of historical restriction area (measure PM-PHI-02).

Table 2: Environmental monitoring Plan-Cultural Heritage component-confirmation of superficial collection of sites and historical findings, and generation of historical restriction area.

Plan Dand monitoring	Middle:	Cultural Heritage
	Component:	Archaeological heritage
	Project stage:	Construction
Environmental impact	PC-PHI-CON-01: affecting and/or straying from the elements that define each site or historical isolated find.	
Measure	PM-PHI-02: Superficial collection of superficial sites and isolated historical findings. Generation of historical restriction area.	
Description of the tracking measure	<ul style="list-style-type: none"> Register the topographic point of each site and find isolated through an uprising with high-resolution equipment. Collect each element according to protocols of Registry 	

Table 2: Environmental monitoring Plan-Cultural Heritage component-confirmation of superficial collection of sites and historical findings, and generation of historical restriction area.

	<p>and Archaeological conservation.</p> <ul style="list-style-type: none"> To carry out specialized analyses that allow to complete the historical information associated to the project area. Fence and install protection signage for the site SH04/LAT.
Measurement parameters	<ul style="list-style-type: none"> Corroboration of the registration, collection, conservation, packing and dispatch to the institution designated by the CMN, of the sites and isolated archaeological finds. Corroboration of installation of fence and signage in SH04/LAT.
Locating checkpoints	Site SH04/LAT, around which will generate an area of archaeological restriction.
Standards allowed according to standard	does not apply.
Levels committed	does not apply.
Track duration	From the moment of the implementation of the collection measure until the dispatch of the historical materials to the institution designated by the CMN.
Tracking frequency	The frequency will be directly related to the programming of the implementation of this measure.
Method (Procedure)	<p>Programming of the implementation of the measure PM-PAR-01:</p> <ul style="list-style-type: none"> Inspection of the state of the sites and historical isolated findings prior to the application of the measure. Record and collection of historical elements. Conservation and packing of the collected remains. Installation of fence and signage for protection of SH04/LAT. Send to the institution designated by the CMN, of the collected remains. Elaboration of reports with evaluation of results of each stage.
Auditing Agency	SEA – Council of National Monuments (CMN).
Deadline or frequency of delivery of reports to the auditing body	does not apply.

1.2 Archaeological heritage

The environmental management plans presented for the impacts that will be generated on the archaeological heritage, correspond to Activities of compensation that ensure the recovery of 100% of the archaeological remains located in the area of the project, prior to the beginning of the construction stage.

They consist of actions such as the recording and collection of isolated findings and archaeological sites.

Within this framework, the archaeological heritage monitoring plan considers instances of confirmation of the application of the proposed compensation measures, the evaluation of the efficiency and effectiveness of the proposals and the supervision of the state of the elements Archaeological heritage collected.

1.2.1 *Monitoring of the measure: superficial collection of sites and archaeological finds. Generation of archaeological restriction areas (Measure PM-PAR-01).*

Table 3: Environmental monitoring Plan-Cultural Heritage component-confirmation of superficial collection of archaeological sites and findings, and GEneración of archaeological restriction areas	
Plan Dand monitoring	Middle: Cultural Heritage
	Component: Archaeological heritage
	Project stage: Construction
Environmental impact	PC-PAR-CON-02: affectation and/or loss of the elements that define each site or archaeological isolated finding.
Measure	<i>PM-PAR-01:</i> Superficial collection of archaeological sites and findings. Generation of archaeological restriction areas.
Description of the tracking measure	<ul style="list-style-type: none"> • Register the topographic point of each site and find isolated through an uprising with high-resolution equipment. • Collect each item according to logging protocols and archaeological conservation. • To carry out specialized analyses that allow to complete the archaeological information associated to the project area.
Measurement parameters	Corroboration of the registration, collection, conservation,

Table 3: Environmental monitoring Plan-Cultural Heritage component-confirmation of superficial collection of archaeological sites and findings, and GGeneración of archaeological restriction areas	
	packing and dispatch to the institution designated by the CMN, of the sites and isolated archaeological finds.
Locating checkpoints	Site SA04/LAT and find HA01, around which will generate areas of restriction archaeological.
Standards allowed according to standard	does not apply.
Levels committed	does not apply.
Track duration	From the moment of the implementation of the collection measure until the dispatch of the isolated archaeological finds to the institution designated by the CMN.
Tracking frequency	The frequency will be directly related to the programming of the implementation of this measure.
Method (Procedure)	Scheduling measure Implementation <i>PM-PAR-01</i> : <ul style="list-style-type: none"> • Inspection of the state of the sites and archaeological isolated findings prior to the application of the measure. • Registration and collection of archaeological elements. • Conservation and packing of the collected remains. • Installation of fence and signage for protection of SA04/LAT and HA01. • Send to the institution designated by the CMN, of the collected remains. • Elaboration of reports with evaluation of results of each stage.
Auditing Agency	SEA – Council of National Monuments (CMN).
Deadline or frequency of delivery of reports to the auditing body	does not apply.

Source: Self-elaboration