



LASPEH "Low Adriatic SPEcies and Habitat"

D.T1.3.1 Concrete actions for habitat

LP "Natural Regional Park of Coastal Dunes" – Report ver. 1















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1 Introduction

This project intends to improve an environment of exceptional green value, by enhancing his ecological matrix and the tourist potential offered by the area, that the municipality wants to improve. The project involves operations of ordinary reclamation with the removal of waste classified as "[...] household waste, also cumbersome, from places for civilian use. "(art. 184 subparagraph 2 Environmental Code Decree-Law No 152/2006, April). The actions proposed are in line with the Management Plans Guidelines adopted and approved by the competent authorities for the Natural Oasis of Campochiaro and Guardiaregia, and written by WWF.The environmental reclaimed operations provided by the project and described in this report, are an integral part of "Quirino Canyon Habitat Conservation Plan ». This planning is included in the interregional IPA CBC Program Italy-Albanie - Montenegro 2014-2020, in application of the project « Law Adriatic Species and Habitat (LASPEH).

Specifically, the identified area is part of Quirino Canyon close to the residential area of Contrada Formelle. Therefore, it is intended to achieve an operation of environmental reclamation designed to an area of great landscape importance. The canyon is located in the Natural WWF Oasis of Guardiaregia-Campochiaro, but at the moment it is exposed to a degradation that have caused adverse effects on the environmental parameters and a reduced area liveability and usability.

This area has an extension of about 12 hectares and after a recent inspection activity, the presence of various kind of waste was found, therefore there is an urgent need to take action with appropriate tools, to reclaim the area and to promote management proposals for promotional activities (rafting, sport climbing and trail).

Specifically, the following activities are necessary:

- 1. Remote research with the use of SAPR (remotely piloted aircraft) and following feedback onsite in the "Vulnerable area".
- 2. Descent with rope technique and collection of materials to be reclaimed.
- 3. Helicopter transport in free zone for transport to landfill.

The achievement of these actions with Italia- Albania- Montenegro Programme have the aim to bring successfully experience realised in areas with the same characteristics, in order to be



part of a territorial valorisation circuit that could promote the eco-compatible use of these areas.

2 Concrete Actions

Concrete Action	ACTION 1									
General objective	Environment monitoring									
Specific objective	Identification of bulky urb	ban waste								
Description		e use of SAPR (remotely piloted aircraft) and								
	subsequent feedback onsite	e in the "vulnerable area ".								
Beneficiaries	Habitat and population									
Connection with	The action is directly relat	ed to the study of habitats that is propaedeutic for								
the other actions	the conservation of Quirino Canyon.									
of the										
Conservation Plan										
Stages of	Remote research with the	use of SAPR (remotely piloted aircraft).								
implementation										
	Activity	The inspection with the use of SAPR was affected								
	description	by climatic factors. In particular, it was possible								
		to make flights in a short and positive climatic								
		period, in the late spring and during June 2019. It								
		was excluded the month of May that would be t								
		best month for this kind of analysis.								
		After the adverse weather conditions during the								
		month of May, it was possible to make flights,								
		also in inaccessible areas, but vegetative restart								
		with the leaf cover, was an obstacle for the soil's								
		inspection.								

Italy - Albania - Montenegro

	In the picture above, taken in April, it is well noticed the presence of not natural materials along the over flight crevice. If the over flight crevice of the over flight crevice of the over flight crevice. The inspections with the drone, have showed a considerable amount of reclaimed materials in the valleys close to the town, and the presence of a body made of sheet, close to the stream.
Hun Reso	The technical Studio Eden GP that operates in Campobasso was involved in this project's phase. The operation was conducted by a drone operator and a pilot.
Mat	erials used For the inspections, two machines were used : • DJI Matrice 200 • DJI Mavic 2 Pro The first one has a high-resolution optical instrumentation and it was possible to use it only



	in June's flights because of the strong updrafts
	found in April.
Output	Identification of 12 hectares to be reclaimed and
	localisation of 8 "vulnerable areas "
2) Please insert here the	e name of second stage
Activity	After drones inspections, it was decided to check
description	with reliefs onsite the areas most covered by
	vegetation.
	From this research a large accumulation of waste
	was found that come from production or
	consumption residues. They are located mainly in
	the impluvium areas, close to the town and with
	forest formations.
Human	The technical Studio Eden GP that operates in
Resources	Campobasso was involved in this project's phase. The
	operation was conducted by planners selected by the
	Municipality of Guardiaregia.
Output	From the researches carried out, all the waste
	found can be classified according to the Decree
	Law No 152/2016 as "[] household waste, also
	cumbersome, from places for civilian use."
	(art.184 subparagraph 2).



	All the waste found in the inspection, fall into the								
	category simil	iar to abandoned waste in urban							
	areas.								
	Specifically the	e waste found come from domestic							
	activities of th	e town, plastic, metal objects and							
	sheets. According to the European Waste								
	Catalogue (CE	ER CODE) it's possible to list the							
	following waste present in place:								
	Cod.Sheet of car, the carcass								
	200140of washing machines,Metalsmall not elect								
		household appliances,							
		knives, pots, etc.							
	Cod.	Plastics packaging							
	150102								
	Cod. Mixed packaging								
	150106								
	Cod.	Wood packaging							
	150103								
	Cod.	Electrical panels of							
	200136	eventual household							
		appliances							
	Cod.	Wood different from that							
	200138 stated under t								
	200137 (contamin								
		wood)							



Cod.	Cooking oil
020300	
Cod.	Disused tyres
160103	



Concrete Action	ACTION 2									
General objective		o Canyon environmental conditions.								
Specific objective		the natural environment								
Description	Descent with rope te	chnique and collection of materials to be reclaimed.								
Beneficiaries	Habitat and population	on								
Connection with	The action is directly linked to the study of habitats that is propaedeutic									
other actions of the	for the conservation of Quirino Canyon.									
Conservation Plan										
Stages of	1) 1) Waste removal activity									
implementation										
	Activity	As a result of the analysis about the type and the								
	description	extent of contamination of the sediment volumes								
		to be reclaimed, the more suitable reclaimed								
		technologies will need to be identified. They may								
		consist of :								
		• Removal activity destined to landfilling or								
		to an appropriate treatment plant in the								
		case of health or environmental risk.								
		• Treatment activity onsite in the case of small contamination.								
	Human	The reclaimed operations will require highly								
	Resources	qualified professionals belonging to the category								
		of « work on cable » according to the decree No								
		81 all. « rope access and positioning techniques »								
		and in canyoning skills. In detail, specialised								
		access work that require climber skills and the use								
		of appropriate tools, which means works at high,								
		on high structures.								
	Materials used	Use of PPE (personal protective equipment)								
		specific for rope works, harnesses and helmets, -								
		ropes, lanyards, slings, energy absorbers, -								
		connectors, brakes, ascenders, pulleys for access,								
		positioning and suspension.								



	Output	Collection and accumulation of material to be reclaimed.
2)	Waste accumulati	on and removal of reclaimed material
	<i>Activity</i> <i>description</i>	Collection of material to be reclaimed through propylene bags 150 gsm (or similiar) for small objects, through appropriate anchorage the others. The box full of waste for disposal will be closed and carry out to the valley through rope or winches system. Subsequently, the free transport was carried out to the transport to landfill. The means of implementation of that operation may be realised through collection by cable with the helicopter in vertical stationary position.
	Human Resources	Team composed of n. 5 qualified operators for work on cable; Team composed of n. 2 skill-workers, for work in helicopter and helicopter pilot.
	Materials used	Helicopter and 35 propylene bags (150 gsm) with the following size: 90x90xh120cm.
	Output	The objects reclaimed were not large, except for the metal sheets in oxidation state, located in the south area closed to San Nicola waterfall. From the canyon, a total amount of 35 (1mg) bags have been extracted as well as reclaimed sheet for a total of about 50 m3 of waste.

Concrete Action	ACTION 3									
General objective	Landscape Protectior	Landscape Protection								
Specific objective	To enhance the surve	To enhance the surveillance and the fire prevention.								
Description	Monitoring and installation of camera.									
Beneficiaries	Habitat and population									
Connection with the	The action is direct	The action is directly related to the study of habitats and to the								
other actions of the	conservation of Quiri	conservation of Quirino Canyon.								
Conservation Plan										
Stages of	1) Waste removal activity									
implementation	Activity	As a result of savings in project's implementation,								
	description	2 cameras have been installed for the								
		surveillance of the part of the urban centre that								
		faces the canyon, and a thermal imaging camera								
	that frames a part of the canyon, exactly where									
	fires have been set in past years.									
	Human	n. 2 workers								
	Resources									
	Materials used	n. 2 cameras								
		n. 1 thermal imaging camera								
	Output	Output Constant monitoring								



3 Time schedule

Action	Years	2	018		2	019			2	020			20	021	
Activities	Period			IV			IV				IV				IV
Action n°1															
Investigation with	n drones				х	х									
Investigation with on the field	n reliefs					x	x								
Action n°2															
Reclaimed works waste recovery	and						x	Х							
Concentration of waste and transport to landfill								х	x						
Action n°3															
Selection of the m appropriate moni system											x				
Installation of can	nera										Х	х			