

Conservation Objectives & Measures

For Malta's Terrestrial Natura 2000 sites

Set 1



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Conservation objectives and measures for Malta's terrestrial Natura
2000 site

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PREAMBLE

This document outlines the Site-Specific Conservation Objectives (SSCOs) for each habitat and species for which terrestrial Natura 2000 sites have been designated. On the basis of guidance provided by the EU Commission¹, SSCO specify conditions targeted to be achieved by the habitat type or species within the specific sites, so as to maximise the level of contribution of the respective sites in achieving the Favourable Conservation Status of such habitats and species as the overall objective of the EU Habitats Directive (92/43/EEC) and Birds Directive (2009/147/EC).

SSCOs need to be based on the **ecological requirements** of the habitat types and species and address threats of degradation to which such habitats and species are exposed to. Ecological requirements are defined in terms of the habitats' and species' attributes that reflect their conservation status. Within this context, the attributes are selected on the basis of their relevance to the parameters that define Favourable Conservation Status as reproduced hereunder for habitats and species:

The conservation status of a natural habitat will be taken as 'favourable' when:

- its **extent** is stable or increasing;
- the specific **structure and functions** which are necessary for its long-term maintenance exist and are likely to continue to exist for the foreseeable future; and

- the **conservation status of its typical species** is favourable (as defined in Article 1e of the Habitats Directive).

The conservation status of a species will be taken as 'favourable' when:

- **population dynamics** data on the species concerned indicate that it is maintaining itself on a long-term basis as a viable component of its natural habitats;
- the **distribution** of the species is neither being reduced nor is likely to be reduced for the foreseeable future; and
- there is, and will probably continue to be, a **sufficiently large habitat** to maintain its populations on a long-term basis (as defined in Article 1i of the Habitats Directive).

The SSCO should identify targets to be reached in terms of these key attributes corresponding to the ecological requirements and the Favourable Conservation Status of the habitats and species within the protected sites. However, the extent to which such targets can be developed also depends on the level of knowledge available for the attributes in question. Each attribute has a target which is either quantified or qualitative depending on the available evidence. The target identifies as far as possible the desired state to be achieved for the attribute.

Whenever knowledge is insufficient to identify the target, Operational Objectives (OOs) are being put forward to address current knowledge gaps within a specified time period. Through the implementation

¹ Refer to the following link:
http://ec.europa.eu/environment/nature/natura2000/management/docs/commission_note/commission_note2_EN.pdf

of such OOs, data will be obtained on the ecological characteristics of particular habitats and species. Knowledge of potential pressures/threats and how they impact habitats and species will be also improved. This would then enable the elaboration of further robust SSCOs.

Table 1 below provides the list of attributes used to elaborate the SSCOs on the basis of the current level of knowledge.

Within the current knowledge scenario, it is important to note that the targets set through the SSCOs are based on best available information at the time of writing and thus may be subject to changes and regular updating based on improved knowledge through time. Nevertheless, these objectives are considered robust enough to enable the assessment of potential impacts as part of the Appropriate Assessment procedure pursuant to Article 6 of the EU Habitats Directive (92/42/EEC). In this regard, Appropriate Assessments, which are undertaken based on these objectives, will be considered valid regardless of any future updates of the SSCOs.

The information with respect to the conservation status and pressures as relevant to each terrestrial Natura 2000 site from the Standard Data Forms are reproduced for each habitat and species reported for each site. This information justifies the elaboration of the conservation objectives in terms of maintenance

or improvements required for each Natura 2000 site. The pressures and threats, which are taken into consideration, are those ranked as of medium/high significance, thus ensuring the elaboration of objectives and measures targeting habitats and species that are most at risk of not achieving favourable conservation status. Those pressures and threats which are reported by Malta pursuant to other reporting obligations, such as Article 17 and Article 12 of the Habitats and Birds Directives respectively, and that are deemed relevant to the terrestrial Natura 2000 sites were also taken into consideration. This information is followed by SSCOs, OOs and Conservation Measures (CM) associated with them.

Timeframes for implementation are stipulated for both conservation measures and operational objectives related to necessary studies or research targeting closure of knowledge gaps.

To ensure that site-specific objectives are met, timeframes from the year of issue are provided for the implementation of each measure using the scale below:

- Short-term: to be completed within 3 years
- Medium term: to be completed within 5 years
- Long-term: to be initiated by 2030, with expected completion beyond 2030
- Ongoing: regular maintenance and monitoring is required

Table 1: List of key attributes corresponding to the ecological requirements of the habitats and species present within the sites

	Article 17 Parameters	Key attributes
Habitat	Extent	Area covered by the habitat type / Number of caves
	Structure and function	Species composition Hydrological regime
	Future prospects	Pressures and threats
Species	Distribution	Occurrence
	Population size	Number of individuals / Area covered / Breeding pairs / Grid cell
	Habitat for the species	Area and condition of occupied habitat
	Future prospects	Pressures and threats



L-INĦAWI TA' PEMBROKE

MT0000002

Designation Area: 96.8 ha

ANNEX I HABITATS

- Vegetated sea cliffs of the Mediterranean coasts with endemic *Limonium* spp. (**Habitat 1240**)
- Mediterranean salt meadows (*Juncetalia maritimi*) (**Habitat 1410**)
- Mediterranean temporary ponds (**Habitat 3170*²**)
- West Mediterranean clifftop phrygas (*Astragalo-Plantaginetum subulatae*) (**Habitat 5410**)
- *Sarcopoterium spinosum* phrygas (**Habitat 5420**)
- Pseudo-steppe with grasses and annuals of the *Thero-Brachypodietea* (**Habitat 6220***)

ANNEX II SPECIES

- *Anacamptis urvilleana*
- *Elatine gussonei*
- *Ophrys melitensis*

2 Priority natural habitat types means natural habitat types in danger of disappearance at EU level. These priority natural habitat types are indicated by an asterisk (*).

Figure 1: Habitat map of 'L-Inħawi ta' Pembroke' – excluding Habitat 6220*

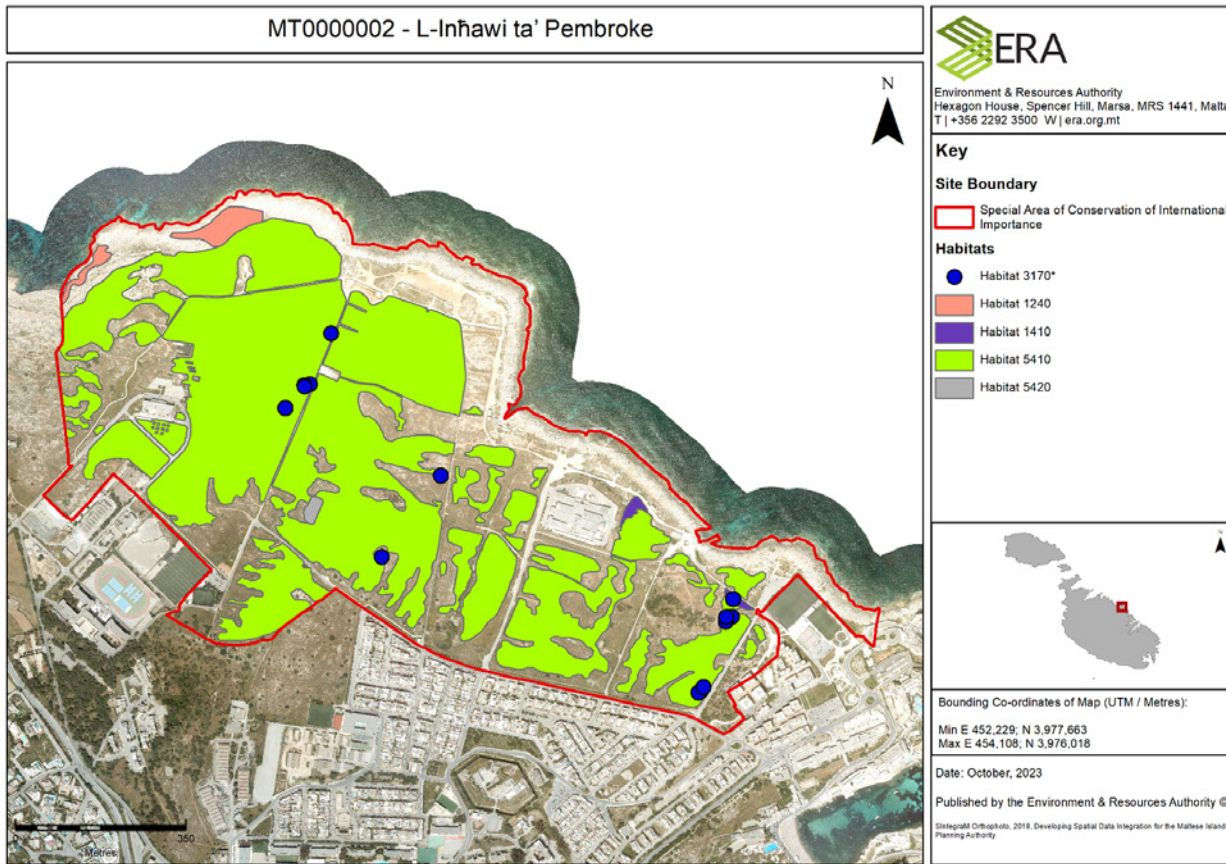
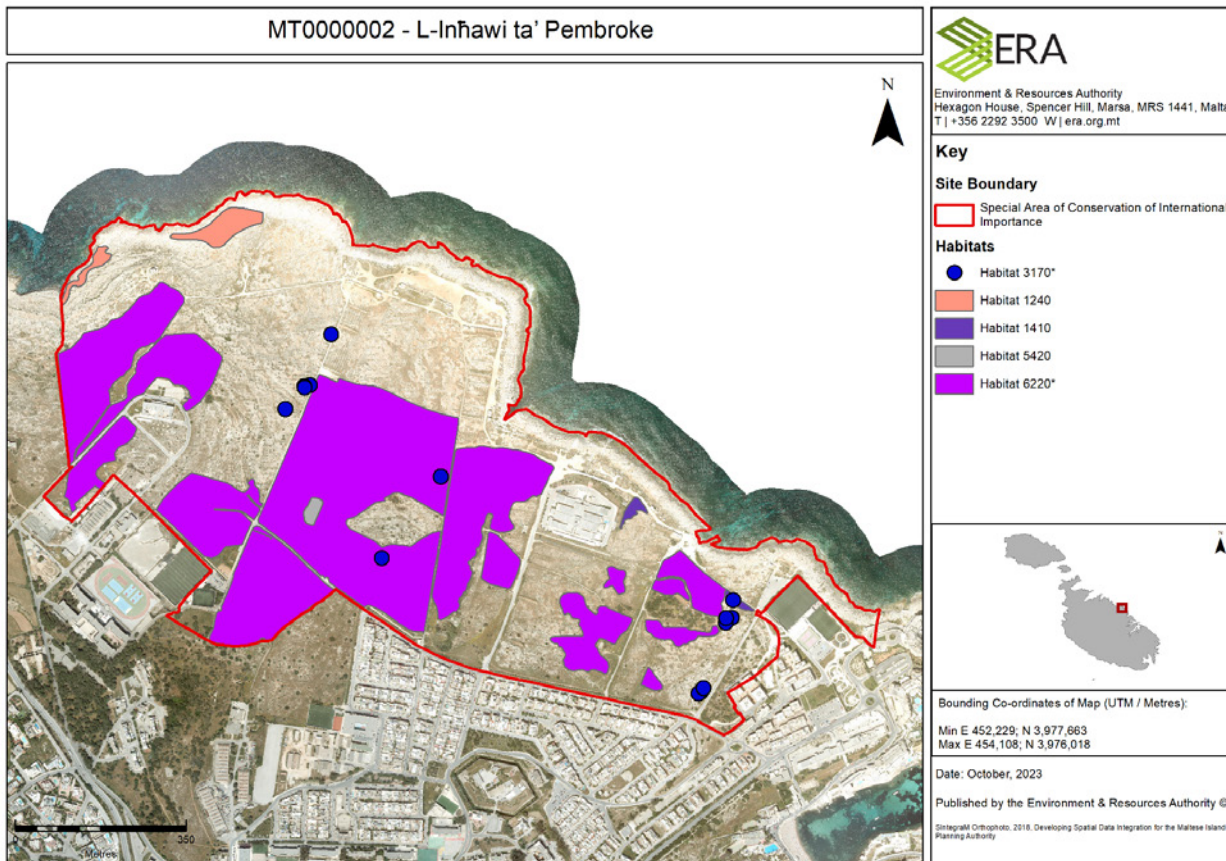


Figure 2: Habitat map of 'L-Inħawi ta' Pembroke' – excluding Habitat 5410



HABITAT ASSESSMENT

Table 2: Habitat types of Annex I of Council Directive 92/43/EEC present on site

Habitat Code	Habitat Name	Cover	Data Quality	Site assessment				Pressures relevant to the Natura 2000 site
				Representativity ³	Relative Surface ⁴	Conservation ⁵	Global ⁶	
1240	Vegetated sea cliffs of the Mediterranean coasts with endemic <i>Limonium</i> spp.	0.9 ha	G	A	C	A	A	
1410	Mediterranean salt meadows (<i>Juncetalia maritimi</i>)	0.2 ha	G	C	A	C	C	PF05 - Sports, tourism and leisure activities
3170*	Mediterranean temporary ponds	0.003 ha	G	B	B	C	B	PI01 - Invasive alien species of Union concern
5410	West Mediterranean cliff-top phryganas (<i>Astragalo-Plantaginetum subulatae</i>)	45 ha	G	B	B	C	B	PI02 - Other invasive alien species (other than species of Union concern)
5420	<i>Sarcopoterium spinosum</i> phryganas	0.1 ha	G	C	A	C	C	
6220*	Pseudo-steppe with grasses and annuals of the <i>Thero-Brachypodietea</i>	32.3 ha	G	B	B	B	B	

3 **REPRESENTATIVITY:** Degree of representativity of the natural habitat type on the site: A: excellent representativity; B: good representativity; C: significant representativity; D: non-significant presence

4 **RELATIVE SURFACE:** Area of the site covered by the natural habitat type in relation to the total area covered by that natural habitat type within the national territory. A: 100 >= p > 15%; B: 15 >= p > 2%; C: 2 >= p > 0

5 **CONSERVATION:** Degree of conservation of the structure and functions of the natural habitat type concerned and restoration possibilities. A: excellent conservation; B: good conservation; C: average or reduced conservation

6 **GLOBAL:** Global assessment of the value of the site for conservation of the natural habitat type concerned. A: excellent value; B: good value; C: significant value

SPECIES ASSESSMENT

Table 3: Species listed in Annex II of Directive 92/43/EEC present on site

Species Code	Species Name	Population size	Site assessment					Pressures relevant to the Natura 2000 site
			Data Quality	Population ⁷	Conservation ⁸	Isolation ⁹	Global ¹⁰	
4092	<i>Elatine gussonei</i>	9.9 m ²	G	B	B	A	B	PF05 - Sports, tourism and leisure activities
4102	<i>Anacamptis urvilleana</i>	4 grid cells (1x1 km)	G	C	B	A	C	PI01 - Invasive alien species of Union Concern PI02 - Other invasive alien species (other than species of Union concern)
4105	<i>Ophrys melitensis</i>	4 grid cells (1x1 km)	G	C	B	A	C	

7 **POPULATION:** Size and density of the population of the species present on the site in relation to the populations present within national territory. A: 100% >= p > 15%; B: 15% >= p > 2%; C: 2% >= p > 0%; D: non-significant population

8 **CONSERVATION:** Degree of conservation of the features of the habitat which are important for the species concerned and possibilities for restoration A: excellent conservation; B: good conservation; C: average or reduced conservation

9 **ISOLATION:** Degree of isolation of the population present on the site in relation to the natural range of the species. A: population (almost) isolated; B: population not-isolated, but on margins of area of distribution; C: population not-isolated within extended distribution range

10 **GLOBAL:** Global assessment of the value of the site for conservation of the species concerned A : excellent value B : good value; C : significant value

1240 - VEGETATED SEA CLIFFS OF THE MEDITERRANEAN COASTS WITH ENDEMIC *LIMONIUM* SPP.

The following site-specific conservation objectives shall seek to maintain the conservation status of this habitat type within this site by 2030:

1240 - Vegetated sea cliffs of the Mediterranean coasts with endemic <i>Limonium</i> spp.				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT02_SSCO_01a	Maintain the extent of Habitat 1240 through the corresponding target	Area covered by the habitat type	Area stable at 0.9 ha or increasing through natural regeneration	Habitat area (in hectares)
MT02_SSCO_01b	Maintain the structure and function of Habitat 1240 through the corresponding target	Species composition: Typical species	The presence of typical species associated with Habitat 1240 within the site is maintained	Species composition

1410 - MEDITERRANEAN SALT MEADOWS (*JUNCETALIA MARITIMI*)

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this habitat type within this site by 2030:

1410 - Mediterranean salt meadows (<i>Juncetalia maritimi</i>)				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT02_SSCO_02a	Maintain the extent of Habitat 1410 through the corresponding target	Area covered by the habitat type	Area stable at 0.2 ha or increasing through natural regeneration	Habitat area (in hectares)
MT02_SSCO_02b	Improve the structure and function of Habitat 1410 through the corresponding targets	Species composition: Typical species	Habitat representativity improved	Species composition
MT02_SSCO_02c		Species composition: Invasive alien plant species	Area occupied by invasive alien species is non-significant	Area of habitat occupied by invasive alien species
MT02_SSCO_02d	Improve future prospects of Habitat 1410 through the corresponding target	Pressures and threats: Human disturbance (Trampling)	Trampling within areas supporting Habitat 1410 is non-significant	Area of habitat showing signs of trampling

1410 - Mediterranean salt meadows (<i>Juncetalia maritimi</i>)					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT02_CM_02a	Removal of invasive alien species, mainly <i>Cortaderia</i> sp., <i>Cyperus alternifolius</i> and <i>Pittosporum tobira</i> , within areas supporting Habitat 1410, while preventing their introduction	Management, control or eradication of other invasive alien species (MIO3)	% area of invasive alien species removed	Short-term	ERA, AM / NGO
MT02_CM_02b	Planting of <i>Juncus</i> spp. to improve representativity of Habitat 1410	Manage native species (incl. non-Directive species) (MS04)	Number of specimens planted, success rate	Short-term	ERA, AM / NGO
MT02_CM_02c	Control of <i>Phragmites australis</i> spread from areas supporting Habitat 1410 to ensure it does not threaten other <i>Juncetalia maritimi</i> species		Area occupied by <i>Phragmites australis</i>	Ongoing	ERA, AM / NGO
MT02_CM_02d	Installation of non-intrusive educational signage and retention of existing footpaths to reduce trampling within areas supporting Habitat 1410	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	Signage installed/ Existing footpaths retained	Short- term/ Ongoing	ERA, AM / NGO

3170* - MEDITERRANEAN TEMPORARY PONDS

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of this habitat type within this site by 2030:

3170* - Mediterranean temporary ponds				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT02_SSCO_03a	Maintain the extent of Habitat 3170* through the corresponding target	Area covered by the habitat type	Area stable at 0.003 ha	Habitat area (in hectares)
MT02_SSCO_03b	Maintain the structure and function of Habitat 3170* through the corresponding target	Species composition: Typical species	The presence of typical species associated with Habitat 3170* within the site is maintained	Species composition
MT02_SSCO_03c	Improve future prospects of Habitat 3170* through the corresponding target	Pressures and threats: Human disturbance (Trampling)	Trampling within areas supporting Habitat 3170* is non-significant ¹¹	Area of habitat showing signs of trampling

3170* - Mediterranean temporary ponds					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT02_CM_03a	Installation of non-intrusive educational signage and retention of existing footpaths to reduce trampling within areas supporting Habitat 3170*	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	Signage installed/ Existing footpaths retained	Short-term/ Ongoing	ERA, AM / NGO

¹¹ The term "non-significant" means that the pressure or threat is no longer considered to have a significant impact on the conservation status of the habitat

5410 - WEST MEDITERRANEAN CLIFFTOP PHRYGANAS (*ASTRAGALO-PLANTAGINETUM SUBULATAE*)

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of this habitat type within this site by 2030:

5410 - West Mediterranean clifftop phryganas (<i>Astragalo-Plantaginetum subulatae</i>)				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT02_SSCO_04a	Maintain the extent of Habitat 5410 through the corresponding target	Area covered by the habitat type	Area stable at 45 ha or increasing through natural regeneration	Habitat area (in hectares)
MT02_SSCO_04b	Improve the structure and function of Habitat 5410 through the corresponding targets	Species composition: Typical species	The presence of typical species associated with Habitat 5410 within the site is maintained	Species composition
MT02_SSCO_04c		Species composition: Invasive alien plant species	Area occupied by invasive alien species is non- significant	Area of habitat occupied by invasive alien species
MT02_SSCO_04d	Improve future prospects of Habitat 5410 through the corresponding targets	Pressures and threats: Human disturbance (Trampling)	Trampling within areas supporting Habitat 5410 is non- significant	Area of habitat showing signs of trampling
MT02_SSCO_04e		Pressures and threats: Human disturbance (Vehicular access)	Vehicular access to areas supporting Habitat 5410 is managed	Vehicular access (Managed/ Unmanaged)

5410 - West Mediterranean clifftop phrygas (<i>Astragalo-Plantaginetum subulatae</i>)					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT02_CM_04a	Removal of invasive alien species, mainly <i>Acacia saligna</i> and <i>Agave</i> spp., from areas supporting Habitat 5410, while preventing their introduction	Management, control or eradication of established invasive alien species of Union concern (MI02) Management, control or eradication of other invasive alien species (MI03)	% area of invasive alien species removed	Medium-term	ERA, AM / NGO
MT02_CM_04b	Installation of non-intrusive educational signage and retention of existing footpaths to reduce trampling within areas supporting Habitat 5410	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	Signage installed/ Existing footpaths retained	Short-term/ Ongoing	ERA, AM / NGO
MT02_CM_04c	Manage vehicular access to facilitate natural habitat regeneration of Habitat 5410	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	Physical barriers/ Signage installed	Medium-term	ERA, AM / NGO

5420 - SARCOPOTERIUM SPINOSUM PHRYGANAS

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this habitat type within this site by 2030:

5420 - <i>Sarcopoterium spinosum phryganas</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT02_SSCO_05a	Maintain the extent of Habitat 5420 through the corresponding target	Area covered by the habitat type	Area stable at 0.1 ha or increasing through natural regeneration	Habitat area (in hectares)
MT02_SSCO_05b	Improve the structure and function of Habitat 5420 through the corresponding target	Species composition: Typical species	Habitat representativity improved	Species composition
MT02_SSCO_05c	Improve future prospects of Habitat 5420 through the corresponding target	Pressures and threats: Human disturbance (Trampling)	Trampling within areas supporting Habitat 5420 is non-significant	Area of habitat showing signs of trampling

5420 - <i>Sarcopoterium spinosum phryganas</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT02_CM_05a	Planting/seeding of <i>Sarcopoterium spinosum</i> to improve representativity of Habitat 5420	Manage native species (incl. non-Directive species) (MS04)	Number of specimens planted, success rate	Short-term	ERA, AM / NGO
MT02_CM_05b	Ex-situ conservation of <i>Sarcopoterium spinosum</i> to preserve its genetic stock for subsequent reinforcement initiatives		Number of specimens present in ex-situ	Short-term	ERA, AM / NGO
MT02_CM_05c	Installation of non-intrusive educational signage and retention of existing footpaths to reduce trampling within areas supporting Habitat 5420	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	Signage installed/ Existing footpaths retained	Short-term/ Ongoing	ERA, AM / NGO

6220* - PSEUDO-STEPPE WITH GRASSES AND ANNUALS OF THE THERO-BRACHYPODIETEA

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this habitat type within this site by 2030:

6220* - Pseudo-steppe with grasses and annuals of the <i>Thero-Brachypodietea</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT02_SSCO_06a	Maintain the extent of Habitat 6220* through the corresponding target	Area covered by the habitat type	Area stable at 32.3 ha or increasing through natural regeneration	Habitat area (in hectares)
MT02_SSCO_06b	Improve the structure and function of Habitat 6220* through the corresponding targets	Species composition: Typical species	The presence of typical species associated with Habitat 6220* within the site is maintained	Species composition
MT02_SSCO_06c		Species composition: Invasive alien plant species	Area occupied by invasive alien species is non-significant	Area of habitat occupied by invasive alien species
MT02_SSCO_06d	Improve future prospects of Habitat 6220* through the corresponding targets	Pressures and threats: Human disturbance (Trampling)	Trampling within areas supporting Habitat 6220* is non-significant	Area of habitat showing signs of trampling
MT02_SSCO_06e		Pressures and threats: Human disturbance (Vehicular access)	Vehicular access to areas supporting Habitat 6220* is managed	Vehicular access (Managed/ Unmanaged)

6220* - Pseudo-steppe with grasses and annuals of the <i>Thero-Brachypodietea</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT02_CM_06a	Removal of invasive alien species, mainly <i>Agave</i> spp. and <i>Opuntia</i> spp., from areas supporting Habitat 6220*, while preventing their introduction	Management, control or eradication of other invasive alien species (MI03)	% area of invasive alien species removed	Long-term	ERA, AM / NGO
MT02_CM_06b	Installation of non- intrusive educational signage and retention of existing footpaths to reduce trampling within areas supporting Habitat 6220*	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	Signage installed/ Existing footpaths retained	Short-term/ Ongoing	ERA, AM / NGO
MT02_CM_06c	Manage vehicular access to facilitate natural habitat regeneration of Habitat 6220*	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	Physical barriers/ Signage installed	Medium-term	ERA, AM / NGO

ANACAMPTIS URVILLEANA AND OPHRYS MELITENSIS

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of these species within this site by 2030:

<i>Anacamptis urvilleana</i> and <i>Ophrys melitensis</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT02_SSCO_07a	Maintain the distribution of <i>Anacamptis urvilleana</i> through the corresponding target	Distribution	No decline in species distribution	Occurrence
MT02_SSCO_07b	Maintain the distribution of <i>Ophrys melitensis</i> through the corresponding target	Distribution	No decline in species distribution	Occurrence
MT02_SSCO_07c	Maintain the extent of Habitat 5410 supporting <i>Anacamptis urvilleana</i> and <i>Ophrys melitensis</i> through the corresponding target	Extent of habitat for the species	Area of Habitat 5410 is stable at 45 ha or increasing through natural regeneration	Area covered by the species' habitat (in hectares)
MT02_SSCO_07d	Improve the condition of Habitat 5410 supporting <i>Anacamptis urvilleana</i> and <i>Ophrys melitensis</i> through the corresponding target	Habitat condition	The condition of Habitat 5410 is suitable to maintain the distribution and population size of the species	Habitat condition

<i>Anacamptis urvilleana</i> and <i>Ophrys melitensis</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT02_CM_07a	Implementation of the conservation measures listed under Habitat 5410 to maintain the condition of the habitat supporting <i>Anacamptis urvilleana</i> and <i>Ophrys melitensis</i>	Restoration of habitat of species from the directives (MS03)	Implementation of measures listed for Habitat 5410	Various	ERA, AM / NGO

ELATINE GUSSONEI

The following site-specific conservation objectives shall seek to maintain the conservation status of this species within this site by 2030:

<i>Elatine gussonei</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT02_SSCO_08a	Maintain the distribution and population size of <i>Elatine gussonei</i> through the corresponding targets	Distribution	No decline in species distribution	Number of rockpools occupied by the species
MT02_SSCO_08b		Population size	Population size stable at 9.9 m ² or showing positive trends	Area covered by the species (in m ²)
MT02_SSCO_08c	Maintain the extent of Habitat 3170* supporting <i>Elatine gussonei</i> through the corresponding target	Extent of habitat for the species	Area of Habitat 3170* is stable at 0.003 ha	Area covered by the species' habitat (in hectares)
MT02_SSCO_08d	Improve the condition of Habitat 3170* supporting <i>Elatine gussonei</i> through the corresponding target	Habitat condition	The condition of Habitat 3170* is suitable for the species	Habitat condition

<i>Elatine gussonei</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT02_CM_08a	Implementation of the conservation measures listed under Habitat 3170* to maintain the condition of the habitat supporting <i>Elatine gussonei</i>	Restoration of habitat of species from the directives (MS03)	Implementation of measures listed for Habitat 3170*	Various	ERA, AM / NGO

There are various invasive alien plant species in close proximity to Annex I Habitats. Site- specific conservation objectives and measures were thus included to prevent the spread of such species on the Annex I Habitats present within the site.

SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT02_SSCO_09	Removal of invasive alien species from areas adjacent to Annex I habitats	Pressures and threats: Invasive alien plant species	50% reduction in area occupied by invasive alien species	Area occupied by invasive alien species

Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT02_CM_09	Removal of invasive alien species, mainly <i>Acacia saligna</i> , <i>Agave</i> spp. and <i>Leucaena leucocephala</i> , from areas adjacent to Annex I habitats while preventing their introduction	Management, control or eradication of established invasive alien species of Union concern (MI02) Management, control or eradication of other invasive alien species (MI03)	% area of invasive alien species removed	Long-term	ERA, AM / NGO



IL-MAQLUBA (LIMITI TAL-QRENDI)

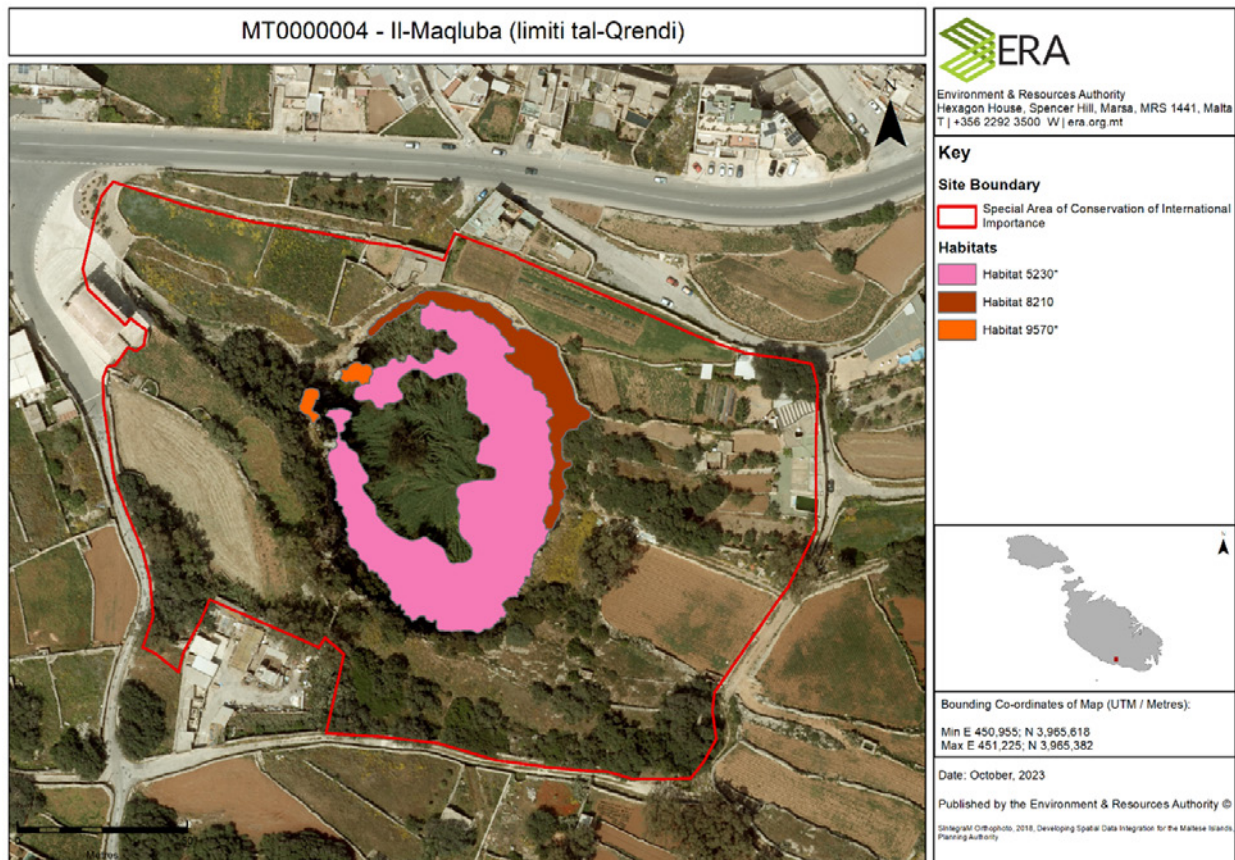
MT0000004

Designation Area: 2.62 ha

ANNEX I HABITATS

- Arborescent matorral with *Laurus nobilis* (Habitat 5230*)
- Calcareous rocky slopes with chasmophytic vegetation (Habitat 8210)
- *Tetraclinis articulata* forests (Habitat 9570*)

Figure 3: Habitat map of 'Il-Maqluba (limiti tal-Qrendi)'



HABITAT ASSESSMENT

Table 4: Habitat types of Annex I of Council Directive 92/43/EEC present on site

Habitat Code	Habitat Name	Cover	Data Quality	Site assessment				Pressures relevant to the Natura 2000 site
				Representativity	Relative Surface	Conservation	Global	
5230*	Arborescent matorral with <i>Laurus nobilis</i>	0.3 ha	G	C	B	C	C	PH08 - Other human intrusions and disturbance not mentioned above
8210	Calcareous rocky slopes with chasmophytic vegetation	0.06 ha	G	C	C	C	C	
9570*	<i>Tetraclinis articulata</i> forests	0.01 ha	G	C	C	C	C	PI02 - Other invasive alien species (other than species of Union concern)

Although invasive alien species were identified as the main pressures impacting the site, only tangible site-specific conservation objectives and measures that are feasible to implement and achieve were developed due to the limited accessibility of the site.

5230* - ARBORESCENT MATORRAL WITH LAURUS NOBILIS

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of this habitat type within this site by 2030:

5230* - Arborescent matorral with <i>Laurus nobilis</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT04_SSCO_01a	Maintain the extent of Habitat 5230* through the corresponding target	Area covered by the habitat type	Area stable at 0.3 ha or increasing through natural regeneration	Habitat area (in hectares)
MT04_SSCO_01b	Maintain the structure and function of Habitat 5230* through the corresponding target	Species composition: Typical species	The presence of typical species associated with Habitat 5230* within the site is maintained	Species composition
MT04_SSCO_01c	Maintain future prospects of Habitat 5230* through the corresponding targets	Pressures and threats: Human disturbance (Access)	Restriction of access to the doline floor is maintained	Access (Restricted/unrestricted)
MT04_SSCO_01d		Pressures and threats: Human disturbance (Fires)	Fire management strategy in place	Presence/absence of a fire management strategy

5230* - Arborescent matorral with <i>Laurus nobilis</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/Supporting Parties
MT04_CM_01a	Access to the doline floor is restricted by retaining the existing railing installed on site	Reduce impact of other specific human activities (MH03)	Railing retained	Ongoing	ERA, AM
MT04_CM_01b	Improve preparedness in case of fire through Fire-Smart Governance systems and introduce a fire management strategy to prevent fire spread	Reduce impact of other specific human activities (MH03)	Fire management strategy in place	Medium-term	ERA, AM

8210 - CALCAREOUS ROCKY SLOPES WITH CHASMOPHYTIC VEGETATION

The following site-specific conservation objectives shall seek to maintain the conservation status of this habitat type within this site by 2030:

8210 - Calcareous rocky slopes with chasmophytic vegetation				
SSCO code	Conservation Objective	Attributes	Targets	Unit of measurement
MT04_SSCO_02a	Maintain the extent of Habitat 8210 through the corresponding target	Area covered by the habitat type	Area stable at 0.06 ha or increasing through natural regeneration	Habitat area (in hectares)
MT04_SSCO_02b	Maintain the structure and function of Habitat 8210 through the corresponding target	Species composition: Typical species	The presence of typical species associated with Habitat 8210 within the site is maintained	Species composition

9570* - TETRACLINIS ARTICULATA FORESTS

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of this habitat type within this site by 2030:

9570* - <i>Tetraclinis articulata</i> forests				
SSCO code	Conservation Objective	Attributes	Targets	Unit of measurement
MT04_SSCO_03a	Maintain the extent of Habitat 9570* through the corresponding target	Area covered by the habitat type	Area stable at 0.01 ha or increasing through natural regeneration	Habitat area (in hectares)
MT04_SSCO_03b	Improve the structure and function of Habitat 9570* through the corresponding target	Species composition: Typical species	Habitat representativity improved	Species composition
MT04_SSCO_03c	Maintain future prospects of Habitat 9570* through the corresponding targets	Pressures and threats: Human disturbance (Fires)	Fire management strategy in place	Presence/absence of a fire management strategy

9570* - <i>Tetraclinis articulata</i> forests					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT04_CM_03a	Strengthening the existing population of <i>Tetraclinis articulata</i> within the site through seeding to further encourage the natural regeneration of Habitat 9570*	Manage native species (incl. non-Directive species) (MS04)	Number of seeds sowed, success rate	Medium-term	ERA, AM
MT04_CM_03b	Improve preparedness in case of fire through Fire-Smart Governance systems and introduce a fire management strategy to prevent fire spread	Reduce impact of other specific human activities (MH03)	Fire management strategy in place	Medium-term	ERA, AM

‘Il-Maqluba’ doline receives significant volumes of surface water channeled from adjacent fields and roads. This surface runoff can adversely impact the flora and fauna at the bottom of the doline through soil deposition, erosion, debris inflow, and pollutant introduction.

An operational objective is thus being included to assess the impact of surface water runoff on the ecology of the site. This will involve identifying and implementing appropriate mitigation measures.

Operational Objective	MT04_OO_01_Assess the impact of surface water runoff from adjacent fields and roads on the doline, and identify any potential mitigation measures
Lead/supporting parties	ERA
Timeframe	Short-term



IS-SIMAR (LIMITI TA' SAN PAWL IL-BAĦAR)

MT0000006 (SAC/SPA)

Designation Area: 2.62 ha

ANNEX I HABITATS

- Coastal lagoons (**Habitat 1150***)
- *Salicornia* and other annuals colonising mud and sand (**Habitat 1310**)
- Mediterranean temporary ponds (**Habitat 3170***)
- Thermo-Mediterranean and pre-desert scrub (**Habitat 5330**)
- West Mediterranean clifftop phrygas (*Astragalo-Plantaginetum subulatae*) (**Habitat 5410**)
- Pseudo-steppe with grasses and annuals of the *Thero-Brachypodietea* (**Habitat 6220***)
- Southern riparian galleries and thickets (*Nerio-Tamaricetea* and *Securinegion tinctoriae*) (Habitat 92D0)
- *Olea* and *Ceratonia* forests (**Habitat 9320**)

ANNEX II SPECIES

- *Anacamptis urvilleana*
- *Aphanius fasciatus*
- *Elatine gussonei*
- *Ophrys melitensis*
- *Petalophyllum ralfsii*
- *Rhinolophus hipposideros*
- *Zamenis situla*

BIRDS

A number of regularly breeding birds are recorded at 'Is-Simar (limiti ta' San Pawl il-Baħar)'.

Figure 4: Habitat map of 'Is-Simar (limiti ta' San Pawl il-Baħar)' - excluding Habitat 6220* & 9320

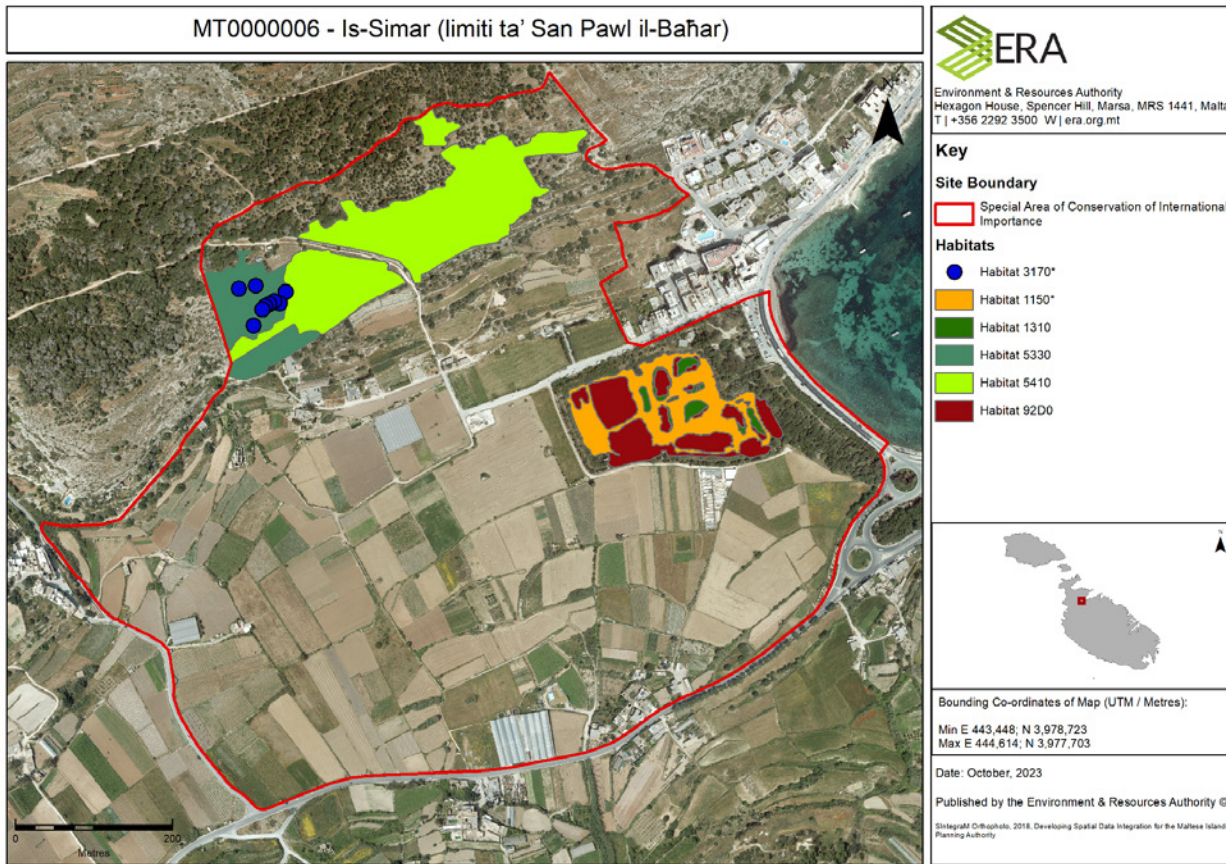


Figure 5: Habitat map of 'Is-Simar (limiti ta' San Pawl il-Baħar)' - excluding Habitat 5330 & 5410

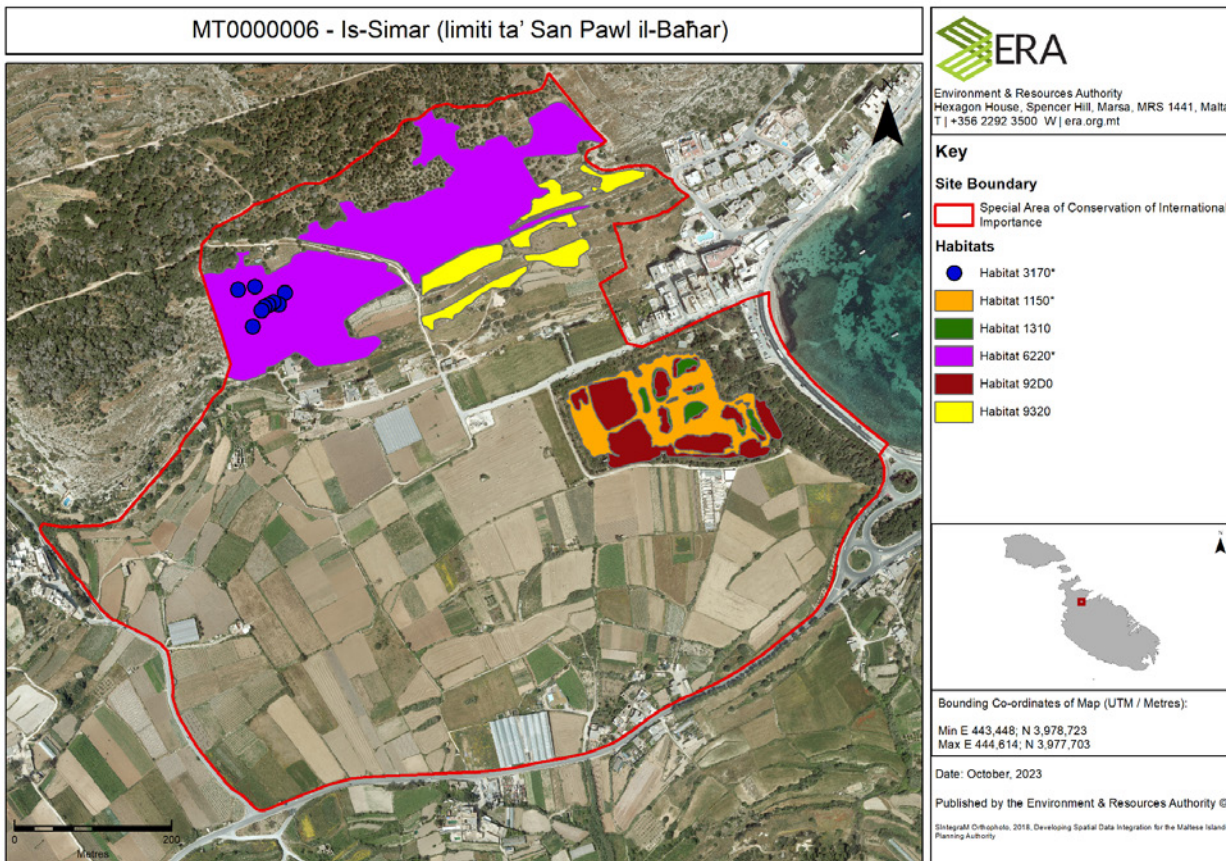
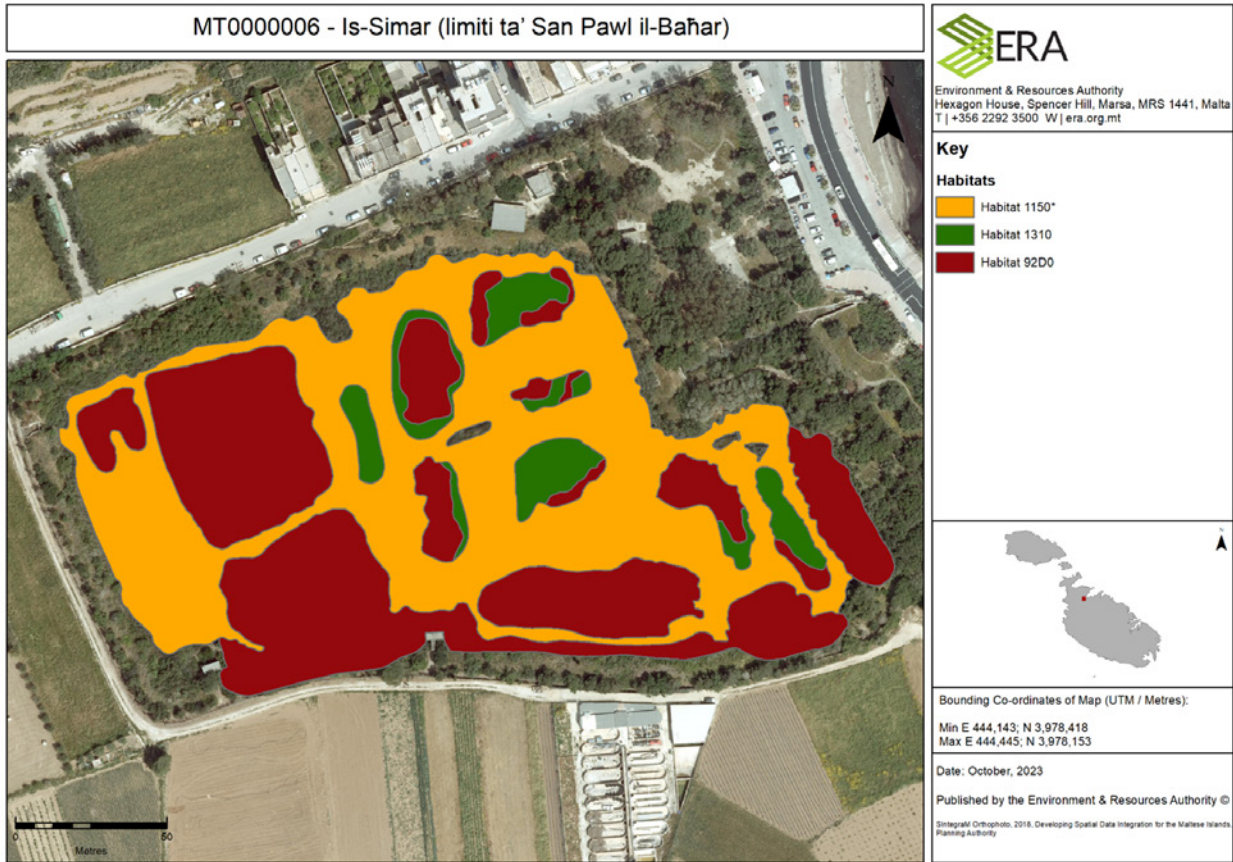


Figure 6: Habitat map of the wetland habitats at 'Is-Simar (limiti ta' San Pawl il-Baħar)'



HABITAT ASSESSMENT

Table 5: Habitat types of Annex I of Council Directive 92/43/EEC present on site

Habitat Code	Habitat Name	Cover	Data Quality	Site assessment				Pressures relevant to the Natura 2000 site
				Representativity	Relative Surface	Conservation	Global	
1150*	Coastal lagoons	1.2 ha	G	B	A	A	B	
1310	<i>Salicornia</i> and other annuals colonising mud and sand	0.1 ha	G	C	A	C	C	
3170*	Mediterranean temporary ponds	0.0005 ha	G	B	C	C	C	PI01 - Invasive alien species of Union concern
5330	Thermo-Mediterranean and pre-desert scrub	1.1 ha	G	B	C	A	B	PI02 - Other invasive alien species (other than species of Union concern)
5410	West Mediterranean clifftop phryganas (<i>Astragalo-Plantaginetum subulatae</i>)	4 ha	G	B	C	A	B	PM07 - Natural processes without direct or indirect influence from human activities or climate change
6220*	Pseudo-steppe with grasses and annuals of the <i>Thero-Brachypodietea</i>	5.9 ha	G	B	C	A	B	
92D0	Southern riparian galleries and thickets (<i>Nerio-Tamaricetea</i> and <i>Securinegion tinctoriae</i>)	1.1 ha	G	C	B	C	C	PL06 - Physical alteration of water bodies
9320	<i>Olea</i> and <i>Ceratonia</i> forests	1 ha	G	B	C	B	B	

SPECIES ASSESSMENT

Table 6: Species listed in Annex II of Directive 92/43/EEC present on site

Species Code	Species Name	Population size	Data Quality	Site assessment				Pressures relevant to the Natura 2000 site
				Population	Conservation	Isolation	Global	
1152	<i>Aphanius fasciatus</i>	/	DD	A	B	A	B	PI01 - Invasive alien species of Union concern
1303	<i>Rhinolophus hipposideros</i>	/	DD	C	C	A	C	PI02 - Other invasive alien species (other than species of Union concern)
1395	<i>Petalophyllum ralfsii</i>	1 grid cell (1x1 km)	G	C	B	A	B	PM07 - Natural processes without direct or indirect influence from human activities or climate change
4092	<i>Elatine gussonei</i>	2.7 m ²	G	B	C	A	C	
4102	<i>Anacamptis urvilleana</i>	1 grid cell (1x1 km)	G	C	B	A	B	PL06 - Physical alteration of water bodies
4105	<i>Ophrys melitensis</i>	/	DD	C	B	A	C	PF12 - Residential, commercial and industrial activities and structures generating noise, light, heat or other forms of pollution
6095	<i>Zamenis situla</i>	/	DD	C	C	A	C	

1150* - COASTAL LAGOONS

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of this habitat type within this site by 2030:

1150* - Coastal lagoons				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT06_SSCO_01a	Maintain the extent of Habitat 1150* through the corresponding target	Area covered by the habitat type	Area of habitat stable at 1.2 ha	Habitat area (in hectares)
MT06_SSCO_01b	Maintain the structure and function of Habitat 1150* through the corresponding targets	Hydrological regime: Water flow and water level fluctuations	Land-sea interface connectivity maintained	Water flow
MT06_SSCO_01c			Appropriate water levels maintained to mitigate the risk of flooding within the lagoon	Water levels
MT06_SSCO_01d			The presence of typical species associated with Habitat 1150* within the site is maintained	Species composition

1150* - Coastal lagoons					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT06_CM_01a	Maintenance of the control valves at the land-sea interface to regulate water levels in the lagoon	Reduce impact of multi- purpose hydrological changes (MK02)	Operation and maintenance of the control valves	Ongoing	ERA, AM / NGO
MT06_CM_01b	Cleaning and maintenance of interconnected channels at the land- sea interface to maintain the hydrological regime of the lagoon		Number of yearly interventions	Ongoing	ERA, AM / NGO

The lagoon at 'Is-Simar' is currently subject to increasing trends in salinity, also as a result of reduced rainfall. Such increasing trends in salinity may potentially affect the flora and fauna associated with Habitat 1150*. An operational objective is being put forward to assess the hydrology of the site and its wider catchment area, identify and implement mitigation measures, including any potential engineering works and/or regular artificial recharges that would enable improved water flows and stabilisation of salinity levels to reach optimal conditions.

Operational Objective	MT06_OO_01_Assess the hydrology of the site and its wider catchment area, to identify and implement mitigation measures, as deemed necessary
Lead/supporting parties	ERA
Timeframe	Long-term

An assessment shall be carried out to evaluate the possibility to extend the coastal lagoon habitat.

Operational Objective	MT06_OO_02_Assess the possibility of extending the coastal lagoon habitat
Lead/supporting parties	ERA
Timeframe	Long-term

1310 - SALICORNIA AND OTHER ANNUALS COLONISING MUD AND SAND

The following site-specific conservation objectives shall seek to maintain the conservation status of this habitat type within this site by 2030:

1310 - Salicornia and other annuals colonising mud and sand				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT06_SSCO_02a	Maintain the extent of Habitat 1310 through the corresponding target	Area covered by the habitat type	Area stable at 0.1 ha or increasing through natural regeneration	Habitat area (in hectares)
MT06_SSCO_02b	Maintain the structure and function of Habitat 1310 through the corresponding target	Species composition: Typical species	The presence of typical species associated with Habitat 1310 within the site is maintained	Species composition

3170* - MEDITERRANEAN TEMPORARY PONDS

The following site-specific conservation objectives shall seek to maintain the conservation status of this habitat type within this site by 2030:

3170* - Mediterranean temporary ponds				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT06_SSCO_03a	Maintain the extent of Habitat 3170* through the corresponding target	Area covered by the habitat type	Area of habitat stable at 0.0005 ha	Habitat area (in hectares)
MT06_SSCO_03b	Maintain the structure and function of Habitat 3170* through the corresponding target	Species composition: Typical species	The presence of typical species associated with Habitat 3170* within the site is maintained	Species composition

5330 - THERMO-MEDITERRANEAN AND PRE-DESERT SCRUB

The following site-specific conservation objectives shall seek to maintain the conservation status of this habitat type within this site by 2030:

5330 - Thermo-Mediterranean and pre-desert scrub				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT06_SSCO_04a	Maintain the extent of Habitat 5330 through the corresponding target	Area covered by the habitat type	Area stable at 1.1 ha or increasing through natural regeneration	Habitat area (in hectares)
MT06_SSCO_04b	Maintain the structure and function of Habitat 5330 through the corresponding target	Species composition: Typical species	The presence of typical species associated with Habitat 5330 within the site is maintained	Species composition

5410 - WEST MEDITERRANEAN CLIFFTOP PHRYGANAS (ASTRAGALO-PLANTAGINETUM SUBULATAE)

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of this habitat type within this site by 2030:

5410 - West Mediterranean clifftop phryganas (Astragalo-Plantagnetum subulatae)				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT06_SSCO_05a	Maintain the extent of Habitat 5410 through the corresponding target	Area covered by the habitat type	Area stable at 4 ha or increasing through natural regeneration	Habitat area (in hectares)
MT06_SSCO_05b	Improve the structure and function of Habitat 5410 through the corresponding targets	Species composition: Typical species	The presence of typical species associated with Habitat 5410 within the site is maintained	Species composition
MT06_SSCO_05c		Species composition: Invasive alien plant species	Area occupied by invasive alien species is non-significant	Area of habitat occupied by invasive alien species

5410 - West Mediterranean clifftop phrygas (*Astragalo-Plantaginetum subulatae*)

Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT06_CM_05a	Removal of invasive alien species, mainly <i>Acacia saligna</i> , from areas supporting Habitat 5410, while preventing their introduction	Management, control or eradication of established invasive alien species of Union concern (MI02)	% area of invasive alien species removed	Short-term	ERA, AM

6220* - PSEUDO-STEPPE WITH GRASSES AND ANNUALS OF THE THERO-BRACHYPODIETEA

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of this habitat type within this site by 2030:

6220* - Pseudo-steppe with grasses and annuals of the *Thero-Brachypodietea*

SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT06_SSCO_06a	Maintain the extent of Habitat 6220* through the corresponding target	Area covered by the habitat type	Area stable at 5.9 ha or increasing through natural regeneration	Habitat area (in hectares)
MT06_SSCO_06b	Improve the structure and function of Habitat 6220* through the corresponding targets	Species composition: Typical species	The presence of typical species associated with Habitat 6220* within the site is maintained	Species composition
MT06_SSCO_06c		Species composition: Invasive alien plant species	Area occupied by invasive alien species is non-significant	Area of habitat occupied by invasive alien species

6220* - Pseudo-steppe with grasses and annuals of the *Thero-Brachypodietea*

Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead / Supporting Parties
MT06_CM_06a	Removal of invasive alien species, mainly <i>Acacia saligna</i> , from areas supporting Habitat 6220*, while preventing their introduction	Management, control or eradication of established invasive alien species of Union concern(MI02)	% area of invasive alien species removed	Short-term	ERA, AM

**92D0 - SOUTHERN RIPARIAN GALLERIES AND THICKETS
(NERIO-TAMARICETEA AND SECURINEGION TINCTORIAE)**

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this habitat type within this site by 2030:

92D0 - Southern riparian galleries and thickets (<i>Nerio-Tamaricetea</i> and <i>Securinegion tinctoriae</i>)				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT06_SSCO_07a	Maintain the extent of Habitat 92D0 through the corresponding target	Area covered by the habitat type	Area stable at 1.1 ha or increasing through natural regeneration	Habitat area (in hectares)
MT06_SSCO_07b	Improve the structure and function of Habitat 92D0 through the corresponding targets	Species composition: Typical species	Habitat representativity improved	Species composition
MT06_SSCO_07c		Species composition: Invasive alien plant species	Area occupied by invasive alien species is non-significant	Area of habitat occupied by invasive alien species

92D0 - Southern riparian galleries and thickets (<i>Nerio-Tamaricetea</i> and <i>Securinegion tinctoriae</i>)					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead / Supporting Parties
MT06_CM_07a	Planting of <i>Vitex agnus-castus</i> to improve representativity of Habitat 92D0	Manage native species (incl. non-Directive species) (MS04)	Number of specimens planted, success rate	Short-term	ERA, AM / NGO
MT06_CM_07b	Removal of invasive alien species, mainly <i>Lycium</i> sp., from areas supporting Habitat 92D0, while preventing their introduction	Management, control or eradication of other invasive alien species (MI03)	% area of invasive alien species removed	Short-term	ERA, AM / NGO

9320 - OLEA AND CERATONIA FORESTS

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this habitat type within this site by 2030:

9320 - <i>Olea</i> and <i>Ceratonia</i> forests				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT06_SSCO_08a	Maintain the extent of Habitat 9320 through the corresponding target	Area covered by the habitat type	Area stable at 1 ha or increasing through natural regeneration	Habitat area (in hectares)
MT06_SSCO_08b	Improve the structure and function of Habitat 9320 through the corresponding targets	Species composition: Typical species	The presence of typical species associated with Habitat 9320 within the site is maintained	Species composition
MT06_SSCO_08c		Species composition: Invasive alien plant species	20% reduction in area occupied by invasive alien species	Area of habitat occupied by invasive alien species

9320 - <i>Olea</i> and <i>Ceratonia</i> forests					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead / Supporting Parties
MT06_CM_08a	Removal of invasive alien species, mainly <i>Opuntia ficus-indica</i> and <i>Pennisetum setaceum</i> , from areas supporting Habitat 9320, while preventing their introduction	Management, control or eradication of other invasive alien species (MI03) Management, control or eradication of established invasive alien species of Union concern (MI02)	% area of invasive alien species removed	Long-term	ERA, AM

APHANIUS FASCIATUS

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of this species within this site by 2030:

<i>Aphanius fasciatus</i>					
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement	
MT06_SSCO_09a	Maintain the extent of Habitat 1150* supporting <i>Aphanius fasciatus</i> through the corresponding target	Extent of habitat for the species	Area of Habitat 1150* is stable at 1.2 ha	Area covered by the species' habitat (in hectares)	
MT06_SSCO_09b	Maintain the condition of Habitat 1150* supporting <i>Aphanius fasciatus</i> through the corresponding target	Habitat condition	The condition of Habitat 1150* is suitable to maintain the distribution and population size of the species	Habitat condition	

<i>Aphanius fasciatus</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead / Supporting Parties
MT06_CM_09a	Ex-situ conservation of <i>Aphanius fasciatus</i> present at Simar, to preserve its distinct genetic stock	Reinforce populations of species from the directives (MS01)	Number of individuals present in ex-situ	Ongoing	ERA, AM / NGO
MT06_CM_09b	Implementation of the conservation measures listed under Habitat 1150* to maintain the condition of the habitat supporting <i>Aphanius fasciatus</i>	Restoration of habitat of species from the directives (MS03)	Implementation of measures listed for Habitat 1150*	Ongoing	ERA, AM / NGO

The current data available on the population size of *Aphanius fasciatus* within this site is limited. Thus, an operational objective to address this current knowledge gap is being put forward. This would then enable the elaboration of further SSCOs for the species.

Operational Objective	MT06_OO_03_ Undertake a study to improve knowledge on the distribution and population size of <i>Aphanius fasciatus</i> within the site
Lead/supporting parties	ERA
Timeframe	Short-term

ANACAMPTIS URVILLEANA AND OPHRYS MELITENSIS

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of these species within this site by 2030:

<i>Anacamptis urvilleana</i> and <i>Ophrys melitensis</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT06_SSCO_10a	Maintain the distribution of <i>Anacamptis urvilleana</i> through the corresponding target	Distribution	No decline in species distribution	Occurrence
MT06_SSCO_10b	Maintain the total extent of the Habitats 5330 and 5410 supporting <i>Anacamptis urvilleana</i> and <i>Ophrys melitensis</i> through the corresponding target	Extent of habitat for the species	The total area of Habitats 5330 and 5410 is stable at 5.1 ha or increasing through natural regeneration	Area covered by the species' habitats (in hectares)
MT06_SSCO_10c	Improve the condition of the Habitats 5330 and 5410 supporting <i>Anacamptis urvilleana</i> and <i>Ophrys melitensis</i> through the corresponding target	Habitats' condition	The condition of Habitats 5330 and 5410 is suitable to maintain the distribution and population size of the species	Habitats' condition

<i>Anacamptis urvilleana</i> and <i>Ophrys melitensis</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT06_CM_10a	Implementation of the conservation measures listed under Habitat 5410 to maintain the condition of the habitat supporting <i>Anacamptis urvilleana</i> and <i>Ophrys melitensis</i>	Restoration of habitat of species from the directives (MS03)	Implementation of measures listed for Habitat 5410	Short-term	ERA, AM

Data on the distribution of *Ophrys melitensis* at site level is limited. Thus, an operational objective to address this current knowledge gap is being put forward. This would then enable the elaboration of further SSCOs for this species.

Operational Objective	MT06_OO_04_Undertake a study to improve knowledge on the distribution of <i>Ophrys melitensis</i> within the site
Lead/supporting parties	ERA
Timeframe	Short-term

ELATINE GUSSONEI

The following site-specific conservation objectives shall seek to maintain the conservation status of this species within this site by 2030:

<i>Elatine gussonei</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT06_SSCO_11a	Maintain the distribution and population size of <i>Elatine gussonei</i> through the corresponding targets	Distribution	No decline in species distribution	Number of rockpools occupied by the species
MT06_SSCO_11b		Population size	Population size stable at 2.7 m ² or showing positive trends	Area covered by the species (in m ²)
MT06_SSCO_11c	Maintain the extent of Habitat 3170* supporting <i>Elatine gussonei</i> through the corresponding target	Extent of habitat for the species	Area of habitat 3170* stable at 0.0005 ha	Area covered by the species' habitat (in hectares)
MT06_SSCO_11d	Maintain the condition of Habitat 3170* supporting <i>Elatine gussonei</i> through the corresponding target	Habitat condition	The condition of Habitat 3170* is suitable for the species	Habitat condition

PETALOPHYLLUM RALFSII

The following site-specific conservation objectives shall seek to maintain the conservation status of this species within this site by 2030:

<i>Petalophyllum ralfsii</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT06_SSCO_12a	Maintain the distribution of <i>Petalophyllum ralfsii</i> through the corresponding target	Distribution	No decline in species distribution	Occurrence

RHINOLOPHUS HIPPOSIDEROS

Limited data is available on the current population size and distribution (including roosts) of this species within this site. Thus, an operational objective to address this current knowledge gap is being put forward. This would then enable the elaboration of SSCOs for this species.

Operational Objective	MT06_OO_05_Undertake a study to improve knowledge on the population size and distribution (including roosts) of <i>Rhinolophus hipposideros</i> within the site and identify the necessary measures based on the study's recommendations
Lead/supporting parties	ERA
Timeframe	Short-term

ZAMENIS SITULA

Limited data is available on the distribution and population size of *Zamenis situla* within this site. Thus, an operational objective to address this current knowledge gap is being put forward. This would then enable the elaboration of SSCOs for this species.

Operational Objective	MT06_OO_06_Undertake a study to improve knowledge on the distribution and population size of <i>Zamenis situla</i> within the site
Lead/supporting parties	ERA
Timeframe	Short-term

BIRDS

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of these species within this site by 2030:

Birds				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT06_SSCO_13a	Maintain the total extent of habitats present within the wetland area supporting regularly breeding birds through the corresponding target	Extent of habitats for the species	The total area of habitats present within the wetland area is maintained for regularly breeding bird species	Area covered by the habitats (in hectares)
MT06_SSCO_13b	Improve the condition of habitats present within the wetland area supporting regularly breeding birds through the corresponding target	Habitats' condition	The condition of the habitats present within the wetland area is suitable for migratory bird species	Habitats' condition
MT06_SSCO_13c	Improve future prospects for regularly breeding birds through the corresponding targets	Pressures and threats: Predation	Predation by rodents is reduced	Rodent activity
MT06_SSCO_13d			Predation by feral cats is reduced	Feral cat activity
MT06_SSCO_13e		Pressures and threats: Human disturbance (Works or activities)	Works or activities are carried out in full respect of the conservation requirements of the Natura 2000 site and in line with ERA's assessment/ permit conditions, as relevant	Level of compliance with ERA's assessment/ permit conditions

Birds					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT06_CM_13a	Continuation of rat control efforts to ensure that the rodent population is controlled within the wetland area	Management, control or eradication of other invasive alien species (MI03)	% decrease in rodent activity Number of stations in place	Ongoing	ERA, AM / NGO
MT06_CM_13b	Neutering/ relocation of feral cats present within the wetland area		% decrease in feral cat activity	Ongoing	ERA, AM / NGO
MT06_CM_13c	New developments proposed within and in the vicinity of the site are assessed with respect to potential light pollution, and any preventive/ mitigation measures to reduce disturbance to birds are adopted accordingly	Reduce/ eliminate pollution (incl. noise, light, heat, soil pollution) from industrial, commercial, residential and recreational areas and activities (MF07)	Light levels in line with ERA's proposed conditions	Ongoing	ERA
MT06_CM_13d	Works and activities proposed within and in the vicinity of the site are assessed, and any preventive/ mitigation measures to reduce disturbance to birds are adopted accordingly		Works or activities in line with ERA's proposed conditions	Ongoing	ERA

Birds					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT06_ CM_13e	Establishing new artificial nesting sites and retention of existing ones		Existing artificial nesting sites retained Number of artificial nesting sites set up Number of nesting sites occupied	Short-term/ Ongoing	ERA, AM / NGO
MT06_ CM_13f	Implementation of the conservation measures listed for the habitat types present within the wetland area to improve the condition of the habitats supporting regularly breeding birds	Restoration of habitat of species from the directives (MS03)	Implementation of measures listed for the habitat types present within the wetland area	Various	ERA, AM / NGO



IS-SALINI

MT0000007

Designation Area: 23.67 ha

ANNEX I HABITATS

- Coastal lagoons (**Habitat 1150***)
- *Salicornia* and other annuals colonising mud and sand (**Habitat 1310**)
- Mediterranean temporary ponds (**Habitat 3170***)
- West Mediterranean clifftop phrygas (*Astragalo-Plantaginetum subulatae*) (**Habitat 5410**)
- Pseudo-steppe with grasses and annuals of the *Thero-Brachypodietea* (**Habitat 6220***)
- Southern riparian galleries and thickets (*Nerio-Tamaricetea* and *Securinegion tinctoriae*) (**Habitat 92D0**)

ANNEX II SPECIES

- *Aphanius fasciatus*
- *Elatine gussonei*
- *Myotis punicus*

Figure 7: Habitat map of 'Is-Salini' – excluding Habitat 5410

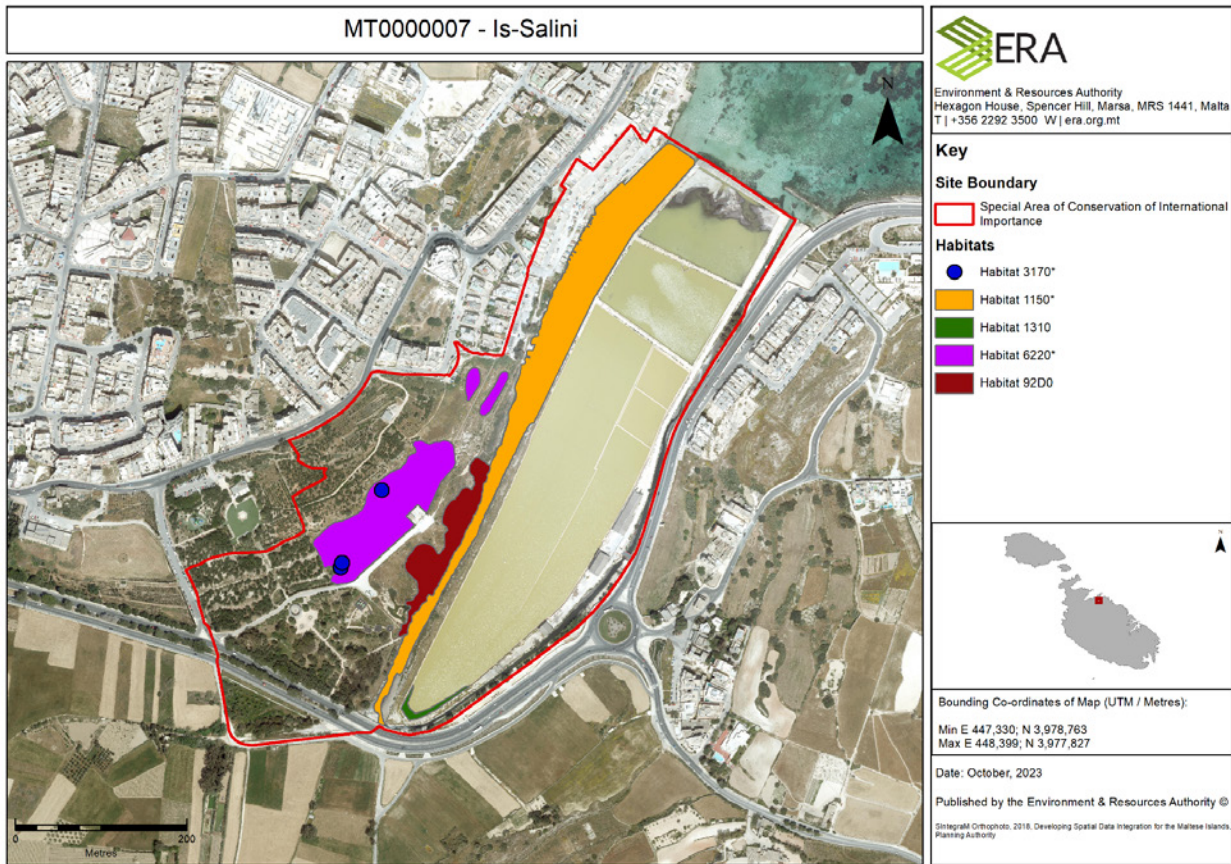
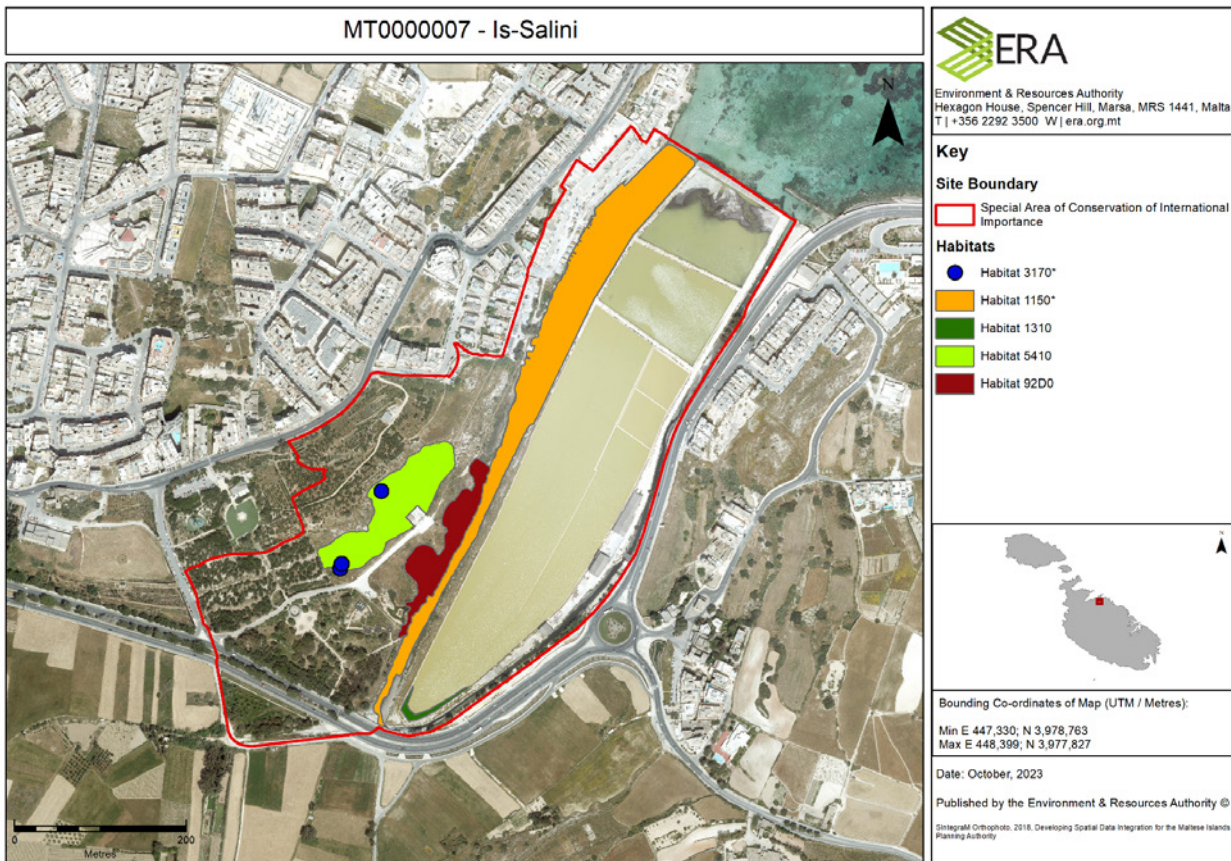


Figure 8: Habitat 5410 at 'Is-Salini' – excluding Habitat 6220*



HABITAT ASSESSMENT

Table 7: Habitat types of Annex I of Council Directive 92/43/EEC present on site

Habitat Code	Habitat Name	Cover	Data Quality	Site assessment				Pressures relevant to the Natura 2000 site
				Representativity	Relative Surface	Conservation	Global	
1150*	Coastal lagoons	2.1 ha	G	C	A	C	C	
1310	<i>Salicornia</i> and other annuals colonising mud and sand	0.05 ha	G	C	A	C	C	PF05 - Sports, tourism and leisure activities
3170*	Mediterranean temporary ponds	0.0003 ha	G	B	C	B	B	PI01 - Invasive alien species of Union concern
5410	West Mediterranean clifftop phryganas (<i>Astragalo-Plantaginietum subulatae</i>)	0.8 ha	G	B	C	A	B	PI02 - Other invasive alien species (other than species of Union concern)
6220*	Pseudo-steppe with grasses and annuals of the <i>Thero-Brachypodietea</i>	1.2 ha	G	A	C	A	B	PM07 - Natural processes without direct or indirect influence from human activities or climate change
92D0	Southern riparian galleries and thickets (<i>Nerio-Tamaricetea</i> and <i>Securinegion tinctoriae</i>)	0.5 ha	G	C	B	C	C	

SPECIES ASSESSMENT

Table 8: Species listed in Annex II of Directive 92/43/EEC present on site

Species Code	Species Name	Population size	Data Quality	Site assessment				Pressures relevant to the Natura 2000 site
				Population	Conservation	Isolation	Global	
1152	<i>Aphanius fasciatus</i>	/	DD	C	B	A	C	PF05 - Sports, tourism and leisure activities
4092	<i>Elatine gussonei</i>	1.7 m ²	G	C	B	A	B	PI02 - Other invasive alien species (other than species of Union concern)
5005	<i>Myotis punicus</i>	1 individual	G	C	C	A	C	PM07 - Natural processes without direct or indirect influence from human activities or climate change

1150* - COASTAL LAGOONS

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this habitat type within this site by 2030:

1150* - Coastal lagoons				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT07_SSCO_01a	Increase the extent of Habitat 1150* through the corresponding target	Area covered by the habitat type	20% increase in the area of Habitat 1150*	% increase in habitat area (compared to baseline area)
MT07_SSCO_01b	Improve the structure and function of Habitat 1150* through the corresponding targets	Hydrological regime: Water/Salinity levels, Water flow	Water/Salinity levels maintained as a result of a fully-functional sluice and culvert system	Water/Salinity levels (ppm)
MT07_SSCO_01c			Land-sea interface connectivity maintained	Water flow
MT07_SSCO_01d			Hydrological regime improved through the restoration of the breakwater	
MT07_SSCO_01e		Species composition: Typical species	Habitat representativity improved	Species composition
MT07_SSCO_01f		Species composition: Invasive alien	Domestic waterfowl population within the lagoon and surrounding areas significantly reduced	Number of individuals
MT07_SSCO_01g		species (flora and fauna)	Population of other alien species (flora and fauna) significantly reduced	Number of individuals/ Percentage cover

1150* - Coastal lagoons					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT07_CM_01a	Engineering works are in line with the approved restoration plans to increase the area of Habitat 1150*	Restoration of habitat of species from the directives (MS03)	Implementation of engineering works	Short-term	ERA, AM / NGO
MT07_CM_01b	Planting of species typical of Habitat 1150* (e.g. <i>Phragmites australis</i> and <i>Ruppia</i> spp.) within the extended wetland area	Manage native species (incl. non- Directive species) (MS04)	Number of typical species (species list), number of specimens planted, success rate	Short-term	ERA, AM / NGO
MT07_CM_01c	Maintenance of the sluice and culvert system to regulate the water/salinity levels in the salt pans		Operation and maintenance of the sluice and culvert system	Ongoing	ERA, AM / NGO
MT07_CM_01d	Cleaning of the 'Tas- Sukkursu' canal to maintain the hydrological regime of the lagoon, as required	Reduce impact of multi-purpose hydrological changes (MK02)	Number of yearly interventions	Ongoing	ERA, AM / NGO
MT07_CM_01e	Restoration of the breakwater to restore the hydrological regime of Habitat 1150*		Breakwater restored	Long-term	Ministry for Public Works and Planning (MPWP)
MT07_CM_01f	Continue with the removal of the domestic waterfowl population from areas supporting Habitat 1150*, while preventing their introduction	Management, control or eradication of other invasive alien species (MI03)	% decrease in domestic waterfowl population	Ongoing	ERA, AM / NGO
MT07_CM_01g	Removal of any other invasive alien species (flora and fauna) present from areas supporting Habitat 1150*		% area covered/ number of invasive alien species	Ongoing	ERA, AM / NGO

1310 - SALICORNIA AND OTHER ANNUALS COLONISING MUD AND SAND

The following site-specific conservation objectives shall seek to maintain the conservation status of this habitat type within this site by 2030:

1310 - Salicornia and other annuals colonising mud and sand				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT07_SSCO_02a	Maintain the extent of Habitat 1310 through the corresponding target	Area covered by the habitat type	Area stable at 0.05 ha or increasing through natural regeneration	Habitat area (in hectares)
MT07_SSCO_02b	Maintain the structure and function of Habitat 1310 through the corresponding target	Species composition: Typical species	The presence of typical species associated with Habitat 1310 within the site is maintained	Species composition

3170* - MEDITERRANEAN TEMPORARY PONDS

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of this habitat type within this site by 2030:

3170* - Mediterranean temporary ponds				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT07_SSCO_03a	Maintain the extent of Habitat 3170* through the corresponding target	Area covered by the habitat type	Area of Habitat 3170* stable at 0.0003 ha	Habitat area (in hectares)
MT07_SSCO_03b	Maintain the structure and function of Habitat 3170* through the corresponding target	Species composition: Typical species	The presence of typical species associated with Habitat 3170* within the site is maintained	Species composition
MT07_SSCO_03c	Improve future prospects of Habitat 3170* through the corresponding target	Pressures and threats: Human disturbance (Trampling)	Trampling within areas supporting Habitat 3170* is non-significant	Area of habitat showing signs of trampling

3170* - Mediterranean temporary ponds

Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT07_CM_03a	Installation of non-intrusive educational signage and retention of existing footpaths to reduce trampling within areas supporting Habitat 3170*	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	Signage installed/ Existing footpaths retained	Short-term/ Ongoing	ERA, AM / NGO

5410 - WEST MEDITERRANEAN CLIFFTOP PHRYGANAS (ASTRAGALO-PLANTAGINETUM SUBULATAE)

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of this habitat type within this site by 2030:

5410 - West Mediterranean clifftop phrygas (Astragalo-Plantaginetum subulatae)

SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT07_SSCO_04a	Maintain the extent of Habitat 5410 through the corresponding target	Area covered by the habitat type	Area stable at 0.8 ha or increasing through natural regeneration	Habitat area (in hectares)
MT07_SSCO_04b	Improve the structure and function of Habitat 5410 through the corresponding targets	Species composition: Typical species	Habitat representativity improved	Species composition
MT07_SSCO_04c		Species composition: Invasive alien plant species	Area occupied by invasive alien species is non-significant	Area of habitat occupied by invasive alien species
MT07_SSCO_04d	Improve future prospects of Habitat 5410 through the corresponding target	Pressures and threats: Human disturbance (Trampling)	Trampling within areas supporting Habitat 5410 is non-significant	Area of habitat showing signs of trampling

5410 - West Mediterranean clifftop phrygas (<i>Astragalo-Plantaginetum subulatae</i>)					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT07_CM_04a	Removal of invasive alien species, mainly <i>Acacia saligna</i> , from areas supporting Habitat 5410, while preventing their introduction	Management, control or eradication of established invasive alien species of Union concern (MI02)	% area of invasive alien species removed	Short-term	ERA, AM / NGO
MT07_CM_04b	Removal of naturally-regenerating pine saplings to maintain the full extent and representativity of Habitat 5410 within the site	Manage native species (incl. non-Directive species) (MS04)	Number of naturally-regenerating pine saplings removed from Habitat 5410	Ongoing	ERA, AM / NGO
MT07_CM_04c	Installation of non-intrusive educational signage and retention of existing footpaths to reduce trampling within areas supporting Habitat 5410	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	Signage installed/ Existing footpaths retained	Short-term/ Ongoing	ERA, AM / NGO

6220*- PSEUDO-STEPPE WITH GRASSES AND ANNUALS OF THE *THERO-BRACHYPODIETEA*

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of this habitat type within this site by 2030:

6220* - Pseudo-steppe with grasses and annuals of the <i>Thero-Brachypodietea</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT07_SSCO_05a	Maintain the extent of Habitat 6220* through the corresponding target	Area covered by the habitat type	Area stable at 1.2 ha or increasing through natural regeneration	Habitat area (in hectares)
MT07_SSCO_05b	Improve the structure and function of Habitat 6220* through the corresponding targets	Species composition: Typical species	The presence of typical species associated with Habitat 6220* within the site is maintained	Species composition
MT07_SSCO_05c		Species composition: Invasive alien plant species	Area occupied by invasive alien species is non-significant	Area of habitat occupied by invasive alien species
MT07_SSCO_05d	Improve future prospects of Habitat 6220* through the corresponding target	Pressures and threats: Human disturbance (Trampling)	Trampling within areas supporting Habitat 6220* is non-significant	Area of habitat showing signs of trampling

6220* - Pseudo-steppe with grasses and annuals of the <i>Thero-Brachypodietea</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT07_CM_05a	Removal of invasive alien species, mainly <i>Acacia saligna</i> , from areas supporting Habitat 6220*, while preventing their introduction	Management, control or eradication of established invasive alien species of Union concern (MI02)	% area of invasive alien species removed	Short-term	ERA, AM / NGO

6220* - Pseudo-steppe with grasses and annuals of the <i>Thero-Brachypodietea</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT07_CM_05b	Removal of naturally-regenerating pine saplings to maintain the full extent and representativity of Habitat 6220* within the site	Manage native species (incl. non-Directive species) (MS04)	Number of naturally-regenerating pine saplings removed from Habitat 6220*	Ongoing	ERA, AM / NGO
MT07_CM_05c	Installation of non-intrusive educational signage and retention of existing footpaths to reduce trampling within areas supporting Habitat 6220*	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	Signage installed/ Existing footpaths retained	Short-term/ Ongoing	ERA, AM / NGO

92D0 - SOUTHERN RIPARIAN GALLERIES AND THICKETS (*NERIO-TAMARICETEA* AND *SECURINEGION TINCTORIAE*)

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this habitat type within this site by 2030:

92D0 - Southern riparian galleries and thickets (<i>Nerio-Tamaricetea</i> and <i>Securinegion tinctoriae</i>)				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT07_SSCO_06a	Increase the extent of Habitat 92D0 through the corresponding target	Area covered by the habitat type	30% increase in the area of Habitat 92D0	% increase in habitat area (compared to baseline area)
MT07_SSCO_06b	Improve the structure and function of Habitat 92D0 through the corresponding targets	Species composition: Typical species	Habitat representativity improved	Species composition
MT07_SSCO_06c		Species composition: Invasive alien plant species	Area occupied by invasive alien species is non-significant	Area of habitat occupied by invasive alien species

92D0 - Southern riparian galleries and thickets (<i>Nerio-Tamaricetea</i> and <i>Securinegion tinctoriae</i>)					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT07_CM_06a	Planting of <i>Nerio-Tamaricetea</i> species within areas currently devoid of habitats to restore and increase the current surface area occupied by this habitat type	Manage native species (incl. non-Directive species) (MS04)	Number of typical species (species list), number of specimens planted, success rate	Short-term	ERA, AM / NGO
MT07_CM_06b	Planting of <i>Vitex agnus-castus</i> to improve representativity of Habitat 92D0		Number of specimens planted, success rate	Short-term	ERA, AM / NGO
MT07_CM_06c	Removal of invasive alien species, mainly <i>Acacia saligna</i> , from areas supporting Habitat 92D0, while preventing their introduction		Management, control or eradication of established invasive alien species of Union concern (MI02)	% area of invasive alien species removed	Short-term

APHANIUS FASCIATUS

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this species within this site by 2030:

<i>Aphanius fasciatus</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT07_SSCO_07a	Increase the extent of Habitat 1150* supporting <i>Aphanius fasciatus</i> through the corresponding target	Extent of habitat for the species	Approximately 20% increase in the area of Habitat 1150*	% increase in the area covered by the species' habitat (in hectares)
MT07_SSCO_07b	Maintain the condition of Habitat 1150* supporting <i>Aphanius fasciatus</i> through the corresponding target	Habitat condition	The condition of Habitat 1150* is suitable to maintain the distribution and population size of the species	Habitat condition

<i>Aphanius fasciatus</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT07_CM_07a	Continue with the ex-situ conservation of the <i>Aphanius fasciatus</i> present at Salini, to preserve its distinct genetic stock	Reinforce populations of species from the directives (MS01)	Number of individuals present in ex-situ	Ongoing	ERA, AM / NGO
MT07_CM_07b	Implementation of the conservation measures listed under Habitat 1150* to improve the condition of the habitat supporting <i>Aphanius fasciatus</i>	Restoration of habitat of species from the directives (MS03)	Implementation of measures listed for Habitat 1150*	Various	ERA, AM / NGO

The current data available on the population size of *Aphanius fasciatus* within this site is limited. Thus, an operational objective to address this current knowledge gap is being put forward. This would then enable the elaboration of further SSCOs for the species.

Operational Objective	MT07_OO_01_ Undertake a study to improve knowledge on the distribution and population size of <i>Aphanius fasciatus</i> within the site
Lead/supporting parties	ERA
Timeframe	Short-term

ELATINE GUSSONEI

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of this species within this site by 2030:

<i>Elatine gussonei</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT07_SSCO_08a	Maintain the distribution and population size of <i>Elatine gussonei</i> through the corresponding targets	Distribution	No decline in species distribution	Number of rockpools occupied by the species
MT07_SSCO_08b		Population size	Population size stable at 1.7 m ² or showing positive trends	Area covered by the species (in m ²)
MT07_SSCO_08c	Maintain the extent of Habitat 3170* supporting <i>Elatine gussonei</i> through the corresponding target	Extent of habitat for the species	Area covered by Habitat 3170* is stable at 0.0003 ha	Area covered by the species' habitat (in hectares)
MT07_SSCO_08d	Improve the condition of the habitat type supporting <i>Elatine gussonei</i> through the corresponding target	Habitat condition	The condition of Habitat 3170* is suitable to maintain the distribution and population size of the species	Habitat condition

<i>Elatine gussonei</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT07_CM_08a	Implementation of the conservation measures listed under Habitat 3170* to maintain the condition of the habitat supporting <i>Elatine gussonei</i>	Restoration of habitat of species from the directives (MS03)	Implementation of measures listed for Habitat 3170*	Various	ERA, AM / NGO

MYOTIS PUNICUS

The following site-specific conservation objectives shall seek to maintain the conservation status of these species within this site by 2030:

<i>Myotis punicus</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT15_SSCO_09a	Maintain the distribution and population size of <i>Myotis punicus</i> through the corresponding targets	Distribution	No decline in species distribution	Occurrence
MT15_SSCO_09b		Population size	Population size stable or showing positive trends	Number of individuals



L-GĦADIRA S-SAFRA U L-ISKOLL TAL-GĦALLIS

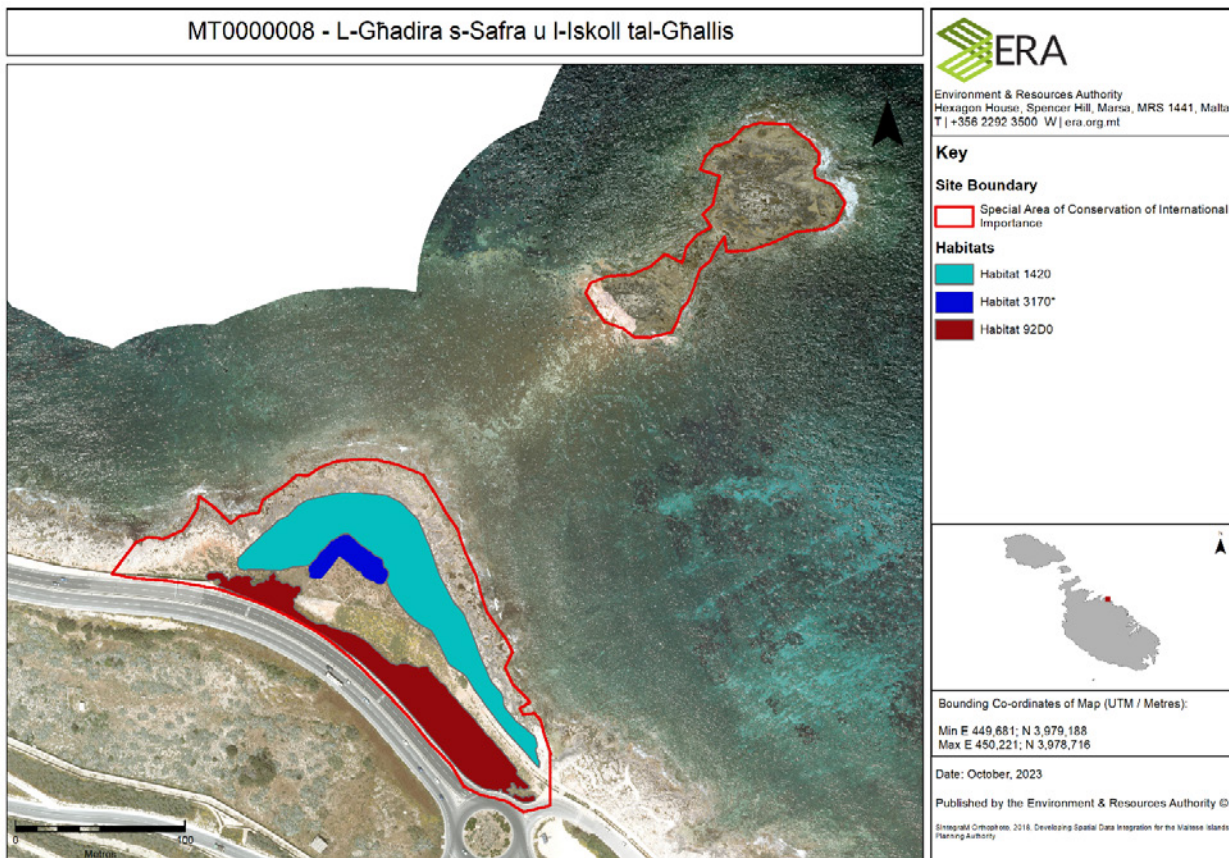
MT0000008

Designation Area: 2.82 ha

ANNEX I HABITATS

- Mediterranean and thermo-Atlantic halophilous scrubs (*Sarcocornetea fruticosi*) (**Habitat 1420**)
- Mediterranean temporary pools (**Habitat 3170***)
- Southern riparian galleries and thickets (*Nerio-Tamaricetea* and *Securinegion tinctoriae*) (**Habitat 92D0**)

Figure 9: Habitat map of 'L-Għadira s-Safra u l-Iskoll tal-Għallis'



HABITAT ASSESMENT

Table 9: Habitat types of Annex I of Council Directive 92/43/EEC present on site

Habitat Code	Habitat Name	Cover	Data Quality	Site assessment				Pressures relevant to the Natura 2000 site
				Representativity	Relative Surface	Conservation	Global	
1420	Mediterranean and thermo- Atlantic halophilous scrubs (<i>Sarcocornetea fruticosi</i>)	0.5 ha	G	B	A	A	B	PF05 - Sports, tourism and leisure activities PI01 - Invasive alien species of Union concern
3170*	Mediterranean temporary pools	0.07 ha	G	B	A	C	C	
92D0	Southern riparian galleries and thickets (<i>Nerio-Tamaricetea</i> and <i>Securinegion tinctoriae</i>)	0.3 ha	G	B	B	A	B	PI02 - Other invasive alien species (other than species of Union concern)

1420 - MEDITERRANEAN AND THERMO-ATLANTIC HALOPHILOUS SCRUBS (*SARCOCORNETEA FRUTICOSI*)

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this habitat type within this site by 2030:

1420 - Mediterranean and thermo-Atlantic halophilous scrub (<i>Sarcocornetea fruticosi</i>)				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT08_SSCO_01a	Maintain the extent of Habitat 1420 through the corresponding target	Area covered by the habitat type	Area stable at 0.5 ha or increasing through natural regeneration	Habitat area (in hectares)
MT08_SSCO_01b	Improve the structure and function of Habitat 1420 through the corresponding targets	Species composition: Typical species	Habitat representativity improved	Species composition
MT08_SSCO_01c		Species composition: Invasive alien plant species	Area occupied by invasive alien species is non-significant	Area of habitat occupied by invasive alien species
MT08_SSCO_01d	Improve future prospects of Habitat 1420 through the corresponding target	Pressures and threats: Human disturbance (Trampling)	Trampling within areas supporting Habitat 1420 is non-significant	Area of habitat showing signs of trampling

1420 - Mediterranean and thermo-Atlantic halophilous scrubs (*Sarcocornetea fruticosi*)

Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT08_CM_01a	Planting of <i>Sarcocornetea fruticosi</i> species which are currently absent or at a low population	Manage native species (incl. non-Directive species) (MS04)	Number of typical species (species list), number of specimens planted, success rate	Short-term	ERA, AM / NGO

1420 - Mediterranean and thermo-Atlantic halophilous scrubs (*Sarcocornetea fruticosi*)

Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT08_CM_01b	Removal of invasive alien species, mainly <i>Acacia saligna</i> , from areas adjacent to Habitat 1420	Management, control or eradication of established invasive alien species of Union concern (MI02)	% area of invasive alien species removed	Short-term	ERA, AM / NGO
MT08_CM_01c	Retention of the cordoning and signage currently in place to reduce trampling within the area supporting Habitat 1420	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	Signage/ Cordoning retained	Ongoing	ERA, AM / NGO

3170* - MEDITERRANEAN TEMPORARY POOLS

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of this habitat type within this site by 2030:

3170* - Mediterranean temporary pools				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT08_SSCO_02a	Maintain the extent of Habitat 3170* through the corresponding target	Area covered by the habitat type	Area stable at 0.07 ha	Habitat area (in hectares)
MT08_SSCO_02b	Improve the structure and function of Habitat 3170* through the corresponding target	Species composition: Typical species	The presence of typical species associated with Habitat 3170* within the site is maintained	Species composition
MT08_SSCO_02c	Maintain future prospects of Habitat 3170* through the corresponding target	Pressures and threats: Human disturbance (Trampling)	Trampling within areas supporting Habitat 3170* is non-significant	Area of habitat showing signs of trampling

3170* - Mediterranean temporary pools					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT08_CM_02a	Retention of the cordoning and signage currently in place to reduce trampling within the area supporting Habitat 3170*	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	Signage/ Cordoning retained	Ongoing	ERA, AM / NGO

Information on the structure and function of Habitat 3170* present within this site is limited. Even during the wet season, this habitat has a severely restricted water retaining capacity. This has an effect on the ecology and the structure and function of this habitat type.

Thus, an operational objective is being put forward to carry out a study to better understand the biotic and abiotic parameters of Habitat 3170* within the site. This would then enable the elaboration of SSCO's to address the 'structure and function' parameter for this habitat type.

Operational Objective	MT08_OO_01_Undertake a study to better understand the biotic and abiotic parameters of Habitat 3170*
Lead/supporting parties	ERA
Timeframe	Short-term

92D0 - SOUTHERN RIPARIAN GALLERIES AND THICKETS (*NERIO-TAMARICETEA* AND *SECURINEGION TINCTORIAE*)

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this habitat type within this site by 2030:

92D0 - Southern riparian galleries and thickets (<i>Nerio-Tamaricetea</i> and <i>Securinegion tinctoriae</i>)				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT08_SSCO_03a	Maintain the extent of Habitat 92D0 through the corresponding target	Area covered by the habitat type	Area stable at 0.3 ha or increasing through natural regeneration	Habitat area (in hectares)
MT08_SSCO_03b	Improve the structure and function of Habitat 92D0 through the corresponding targets	Species composition: Typical species	The presence of typical species associated with Habitat 92D0 within the site is maintained	Species composition
MT08_SSCO_03c		Species composition: Invasive alien plant species	Area occupied by invasive alien species is non-significant	Area of habitat occupied by invasive alien species

92D0 - Southern riparian galleries and thickets (<i>Nerio-Tamaricetea</i> and <i>Securinegion tinctoriae</i>)					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT08_CM_03a	Removal of invasive alien species, namely <i>Arundo donax</i> , from areas supporting Habitat 92D0, while preventing their introduction	Management, control or eradication of other invasive alien species (MIO3)	% area of invasive alien species removed	Short-term	ERA, AM / NGO



L-INĦAWI TAR-RAMLJA TAT-TORRI U TAL-IRDUM TAL-MADONNA

MT0000009 (SAC/SPA)

Designation Area: **74.91 ha**

ANNEX I HABITATS

- Vegetated sea cliffs of the Mediterranean coasts with endemic *Limonium* spp. (**Habitat 1240**)
- Embryonic shifting dunes (**Habitat 2110**)
- *Crucianellion maritimae* fixed beach dunes (**Habitat 2210**)
- Dunes with *Euphorbia terracina* (**Habitat 2220**)
- Thermo-Mediterranean and pre-desert scrub (**Habitat 5330**)
- West Mediterranean clifftop phrygas (*Astragalo-Plantagnetum subulatae*) (**Habitat 5410**)
- Calcareous rocky slopes with chasmophytic vegetation (**Habitat 8210**)
- Southern riparian galleries and thickets (*Nerio-Tamaricetea* and *Securinegion tinctoriae*) (**Habitat 92D0**)

ANNEX II SPECIES

- *Anacamptis urvilleana*
- *Brachytrupes megacephalus*
- *Pseudoseriscius cameroni*
- *Zamenis situla*

ANNEX I BIRD SPECIES

- *Calandrella brachydactyla*
- *Calonectris diomedea*
- *Hydrobates pelagicus*
- *Puffinus yelkouan*

Figure 10: Habitat map of 'L-Inħawi tar-Ramla tat-Torri u tal-Irdum tal-Madonna'

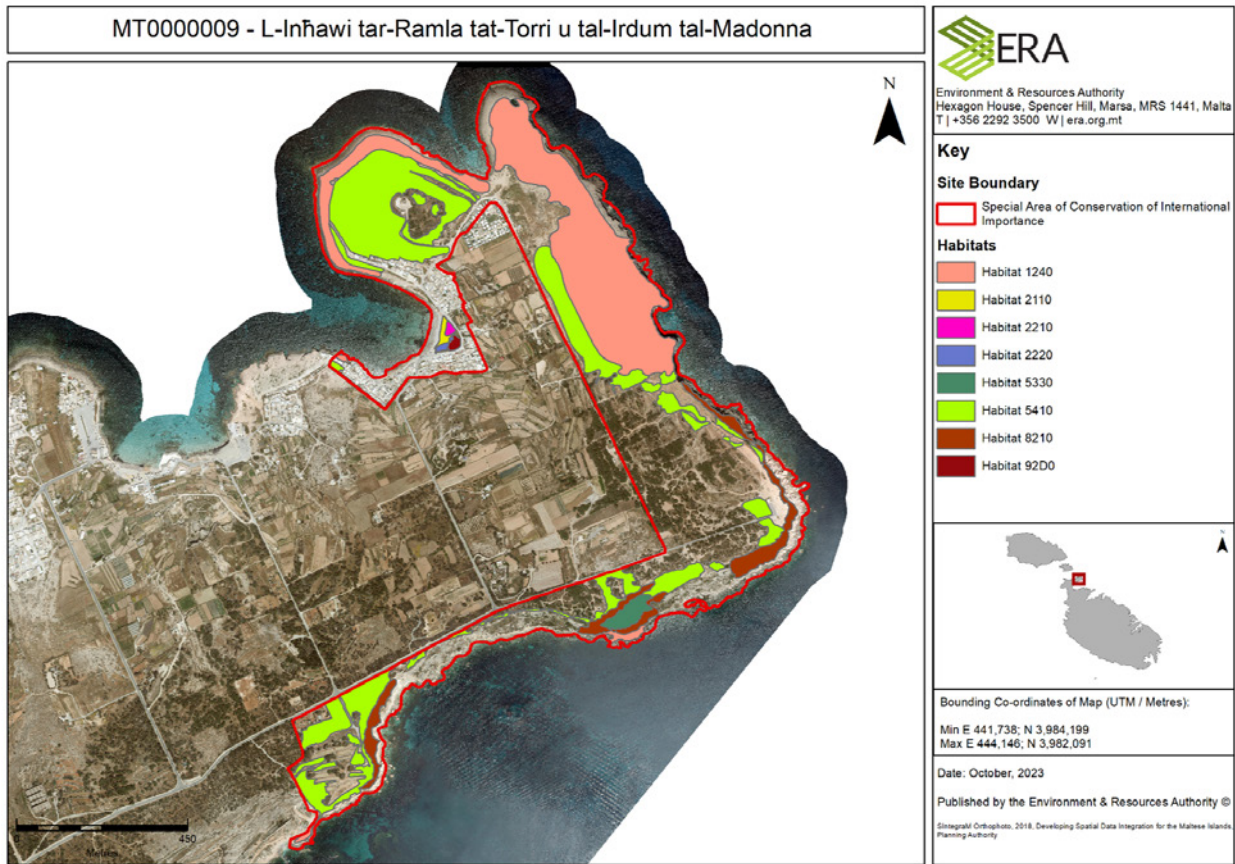
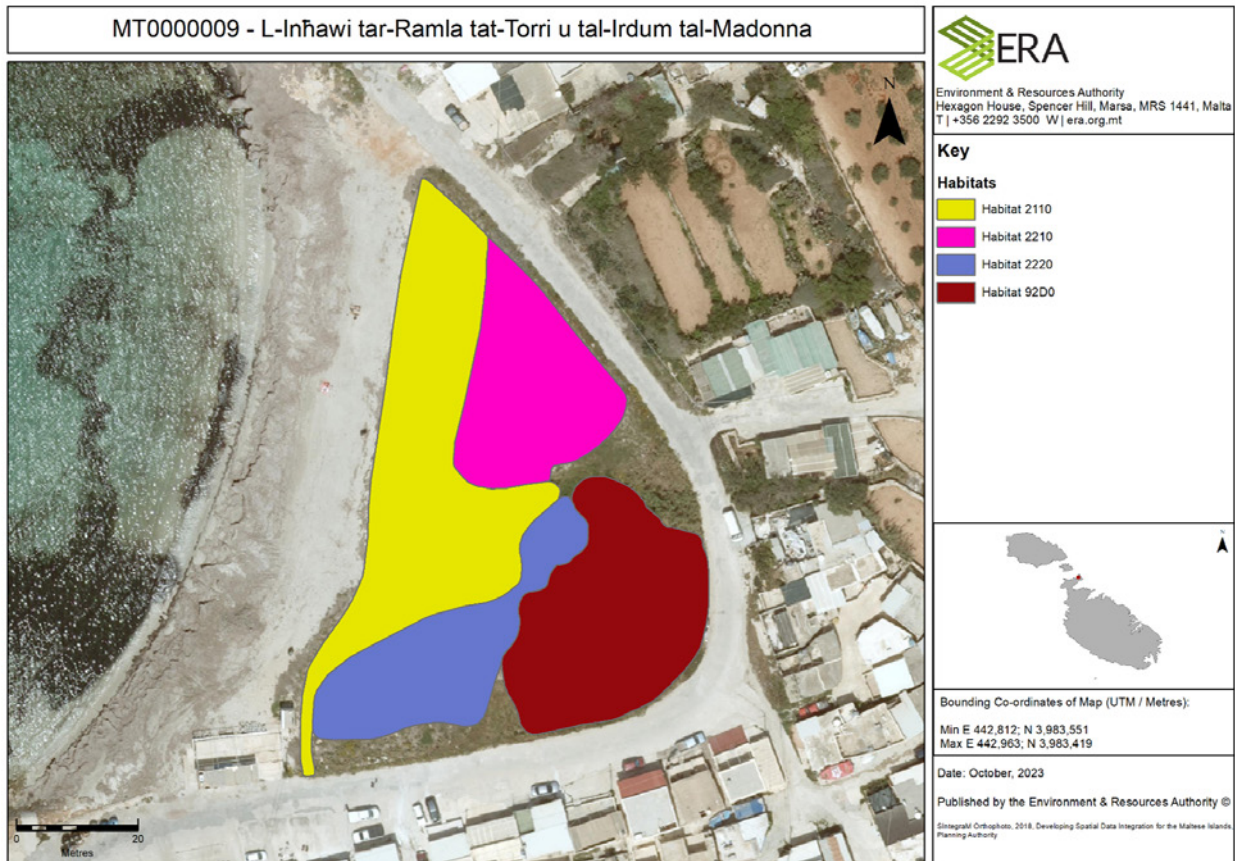


Figure 11: Habitat map of the sand dune area at 'L-Inħawi tar-Ramla tat-Torri u tal-Irdum tal-Madonna'



HABITAT ASSESSMENT

Table 10: Habitat types of Annex I of Council Directive 92/43/EEC present on site

Habitat Code	Habitat Name	Cover	Data Quality	Site assessment				Pressures relevant to the Natura 2000 site
				Representativity	Relative Surface	Conservation	Global	
1240	Vegetated sea cliffs of the Mediterranean coasts with endemic <i>Limonium</i> spp.	14.3 ha	G	B	B	A	B	
2110	Embryonic shifting dunes	0.1 ha	G	B	B	A	B	PF03 - Creation or development of sports, tourism and leisure infrastructure
2210	<i>Crucianellion maritimae</i> fixed beach dunes	0.06 ha	G	C	B	C	C	
2220	Dunes with <i>Euphorbia terracina</i>	0.06 ha	G	C	B	A	B	PF05 - Sports, tourism and leisure activities
5330	Thermo-Mediterranean and pre-desert scrub	0.5 ha	G	B	C	A	B	
5410	West Mediterranean clifftop phrygas (<i>Astragalo-Plantaginetum subulatae</i>)	15.2 ha	G	C	C	C	C	PI01 - Invasive alien species of Union concern PI02 - Other invasive alien species (other than species of Union concern)
8210	Calcareous rocky slopes with chasmophytic vegetation	2.8 ha	G	B	B	A	B	
92D0	<i>Southern riparian galleries and thickets (Nerio-Tamaricetea and Securinegion tinctoriae)</i>	0.09 ha	G	C	C	C	C	

SPECIES ASSESSMENT

Table 11: Species listed in article 4 Directive 2009/147/EC and Annex II of Directive 92/43/EEC present on site

Species Code	Species Name	Population size	Data Quality	Site assessment				Pressures relevant to the Natura 2000 site
				Population	Conservation	Isolation	Global	
4025	<i>Pseudoseriscus cameroni</i>	/	DD	C	B	A	C	PF03 - Creation or development of sports, tourism and leisure infrastructure
4047	<i>Brachytrupes megacephalus</i>	/	DD	C	C	A	C	
4102	<i>Anacamptis urvilleana</i>	2 grid cells (1x1 km)	G	C	C	A	C	PF05 - Sports, tourism and leisure activities
6095	<i>Zamenis situla</i>	/	DD	C	C	A	C	
A010	<i>Calonectris diomedea</i>	25 - 60 breeding pairs	M	C	B	C	C	PI01 - Invasive alien species of Union concern
A014	<i>Hydrobates pelagicus</i>	1 - 10 breeding pairs	P	C	B	C	C	
A243	<i>Calandrella brachydactyla</i>	/	DD	C	C	C	C	PI02 - Other invasive alien species (other than species of Union concern)
A464	<i>Puffinus yelkouan</i>	300 - 575 breeding pairs	G	A	B	C	B	

1240 - VEGETATED SEA CLIFFS OF THE MEDITERRANEAN COASTS WITH ENDEMIC *LIMONIUM* SPP.

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this habitat type within this site by 2030:

1240 - Vegetated sea cliffs of the Mediterranean coasts with endemic <i>Limonium</i> spp.				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT09_SSCO_01a	Maintain the extent of Habitat 1240 through the corresponding target	Area covered by the habitat type	Area stable at 14.3 ha or increasing through natural regeneration	Habitat area (in hectares)
MT09_SSCO_01b	Maintain the structure and function of Habitat 1240 through the corresponding target	Species composition: Typical species	The presence of typical species associated with Habitat 1240 within the site is maintained	Species composition
MT09_SSCO_01c	Improve future prospects of Habitat 1240 through the corresponding target	Pressures and threats: Human disturbance (Vehicular access)	Vehicular access to areas supporting Habitat 1240 is managed	Vehicular access (Managed/unmanaged)

1240 - Vegetated sea cliffs of the Mediterranean coasts with endemic <i>Limonium</i> spp.					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT09_CM_01a	Manage vehicular access to facilitate natural habitat regeneration of Habitat 5410	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	Physical barriers/ Signage installed	Medium-term	ERA, AM

2110 - EMBRYONIC SHIFTING DUNES

2210 - CRUCIANELLION MARITIMAE FIXED BEACH DUNES

2220 - DUNES WITH EUPHORBIA TERRACINA

The following site-specific conservation objectives and measures shall seek to restore the conservation status of these habitat types within this site by 2030:

Sand dune habitat types (2110, 2210 and 2220)				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT09_SSCO_02a	Maintain the extent of Habitats 2110, 2210 and 2220 through the corresponding target	Area covered by the habitat types	Area of Habitats 2110 (0.1 ha), 2210 (0.06 ha) and 2220 (0.06 ha) stable or increasing through natural regeneration	Habitat area (in hectares)
MT09_SSCO_02b	Improve the structure and function of Habitats 2110, 2210 and 2220 through the corresponding targets	Species composition: Typical species	Habitats' representativity improved	Species composition
MT09_SSCO_02c		Positive indicator species	Established population of <i>Brachytrupes megacephalus</i> within the area supporting sand dune habitats	Number of individuals
MT09_SSCO_02d		Species composition: Ruderal species	Area occupied by ruderal species is non-significant	Area of habitats occupied by ruderal species
MT09_SSCO_02e	Maintain future prospects for Habitats 2110, 2210 and 2220 through the corresponding target	Pressures and threats: Human Disturbance (Trampling)	Trampling within areas supporting Habitats 2110, 2210 and 2220 is non- significant	Area of habitats showing signs of trampling

Sand dune habitat types (2110, 2210 and 2220)						
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties	
MT09_CM_02a	Planting/seeding of <i>Ammophila arenaria</i> , <i>Calystegia soldanella</i> , <i>Euphorbia paralias</i> and <i>Polygonum maritimum</i> to improve representativity of Habitat 2110	Manage native species (incl. non- Directive species) (MS04)	Number of typical species (species list), number of specimens/ seeds planted, success rate	Short-term	ERA, AM	
MT09_CM_02b	Planting/seeding of <i>Cyperus capitatus</i> and <i>Lotus cytisoides</i> to improve representativity of Habitat 2210			Short-term	ERA, AM	
MT09_CM_02c	Planting/seeding of <i>Echinophora spinosa</i> and <i>Scolymus hispanicus</i> to improve representativity of Habitat 2220			Short-term	ERA, AM	
MT09_CM_02d	Removal of ruderal species, mainly <i>Malva arborea</i> , from areas supporting sand dune habitats, while preventing their introduction			% area of ruderal species removed	Medium-term	ERA, AM
MT09_CM_02e	Removal of naturally-regenerating Tamarisk saplings to maintain the full extent and representativity of the sand dune habitats within the site			Number of naturally-regenerating Tamarisk saplings removed from sand dune habitats	Ongoing	ERA, AM

Sand dune habitat types (2110, 2210 and 2220)					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT09_CM_02f	Retention of the cordoning and signage currently in place to reduce trampling within the area supporting sand dune habitats	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	Signage / Cordoning retained	Ongoing	ERA, AM
MT09_CM_02g	Introduction of <i>Brachytrupes megacephalus</i> within the area supporting sand dune habitats	Reinforce populations of species from the directives (MS01)	Number of translocated individuals / Monitoring reports	Short-term	ERA, AM

5330 - THERMO-MEDITERRANEAN AND PRE-DESERT SCRUB

The following site-specific conservation objectives shall seek to maintain the conservation status of this habitat type within this site by 2030:

5330 - Thermo-Mediterranean and pre-desert scrub				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT09_SSCO_03a	Maintain the extent of Habitat 5330 through the corresponding target	Area covered by the habitat type	Area stable at 0.5 ha or increasing through natural regeneration	Habitat area (in hectares)
MT09_SSCO_03b	Maintain the structure and function of Habitat 5330 through the corresponding target	Species composition: Typical species	The presence of typical species associated with Habitat 5330 within the site is maintained	Species composition

5410 - WEST MEDITERRANEAN CLIFFTOP PHRYGANAS (*ASTRAGALO-PLANTAGINETUM SUBULATAE*)

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this habitat types within this site by 2030:

5410 - West Mediterranean clifftop phrygas (<i>Astragalo-Plantaginetum subulatae</i>)				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT09_SSCO_04a	Maintain the extent of Habitat 5410 through the corresponding target	Area covered by the habitat type	Area stable at 15.2 ha or increasing through natural regeneration	Habitat area (in hectares)
MT09_SSCO_04b	Improve the structure and function of Habitat 5410 through the corresponding targets	Species composition: Typical species	The presence of typical species associated with Habitat 5410 within the site is maintained	Species composition
MT09_SSCO_04c		Species composition: Invasive alien plant species	Area occupied by invasive alien species is non-significant	Area of habitat occupied by invasive alien species
MT09_SSCO_04d	Improve future prospects of Habitat 5410 through the corresponding target	Pressures and threats: Human disturbance (Vehicular access)	Vehicular access to areas supporting Habitat 5410 is managed	Vehicular access (Managed/unmanaged)

5410 - West Mediterranean clifftop phrygas (<i>Astragalo-Plantaginetum subulatae</i>)					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT09_CM_04a	Removal of invasive alien species, mainly <i>Acacia</i> spp., <i>Agave</i> spp. and <i>Opuntia</i> spp, from areas supporting Habitat 5410, while preventing their introduction	Management, control or eradication of established invasive alien species of Union concern (MI02) Management, control or eradication of other invasive alien species (MI03)	% area of invasive alien species removed	Long-term	ERA, AM
MT09_CM_04b	Manage vehicular access to facilitate natural habitat regeneration of Habitat 5410	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	Physical barriers/ Signage installed	Medium-term	ERA, AM

The afforested areas adjacent to Habitat 5410 are impacted by invasive alien plant species. Site- specific conservation objectives and measures were thus included to prevent the spread of such species on areas supporting Habitat 5410.

SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT09_SSCO_05a	Removal of invasive alien species from afforested areas adjacent to Habitat 5410	Pressures and threats: Invasive alien plant species	10 % reduction in area occupied by invasive alien species	Area occupied by invasive alien species

Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT09_CM_05a	Removal of invasive alien species, mainly <i>Acacia</i> spp., <i>Agave</i> spp. and <i>Opuntia</i> spp., while preventing their introduction	Management, control or eradication of established invasive alien species of Union concern (MI02) Management, control or eradication of other invasive alien species (MI03)	% area of invasive alien species removed	Long-term	ERA, AM
MT09_CM_05b	Planting of native tree species within areas previously occupied by invasive alien species	Manage native species (incl. non-Directive species) (MS04)	Number of species (species list), number of specimens planted, success rate	Long-term	ERA, AM

8210 - CALCAREOUS ROCKY SLOPES WITH CHASMOPHYTIC VEGETATION

The following site-specific conservation objectives shall seek to maintain the conservation status of this habitat type within this site by 2030:

8210 - Calcareous rocky slopes with chasmophytic vegetation				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT09_SSCO_06a	Maintain the extent of Habitat 8210 through the corresponding target	Area covered by the habitat type	Area stable at 2.8 ha or increasing through natural regeneration	Habitat area (in hectares)
MT09_SSCO_06b	Maintain the structure and function of Habitat 8210 through the corresponding target	Species composition: Typical species	The presence of typical species associated with Habitat 8210 within the site is maintained	Species composition

92D0 - SOUTHERN RIPARIAN GALLERIES AND THICKETS (NERIO-TAMARICETEA AND SECURINEGION TINCTORIAE)

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this habitat type within this site by 2030:

92D0 - Southern riparian galleries and thickets (<i>Nerio-Tamaricetea</i> and <i>Securinegion tinctoriae</i>)				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT09_SSCO_07a	Maintain the extent of Habitat 92D0 through the corresponding target	Area covered by the habitat type	Area stable at 0.09 ha	Habitat area (in hectares)
MT09_SSCO_07b	Improve the structure and function of Habitat 92D0 through the corresponding targets	Species composition: Typical species	Habitat representativity improved	Species composition
MT09_SSCO_07c		Species composition: Invasive alien plant species	Area occupied by invasive alien species is non- significant	Area of habitat occupied by invasive alien species
MT09_SSCO_07d	Improve future prospects for Habitat 92D0 through the corresponding target	Pressures and threats: Human Disturbance (Access)	Access to areas supporting Habitat 92D0 is controlled	Access (Controlled/ uncontrolled)

92D0 - Southern riparian galleries and thickets (<i>Nerio-Tamaricetea</i> and <i>Securinegion tinctoriae</i>)					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT09_CM_07a	Planting of <i>Vitex agnus-castus</i> in areas previously occupied by <i>Arundo donax</i> to improve representativity of Habitat 92D0	Manage native species (incl. non-Directive species) (MS04)	Number of specimens planted, success rate	Short-term	ERA, AM
MT09_CM_07b	Removal of invasive alien species, mainly <i>Arundo donax</i> , <i>Aptenia cordifolia</i> and <i>Leucaena leucocephala</i> , from areas supporting Habitat 92D0, while preventing their introduction	Management, control or eradication of other invasive alien species (MI03)	% area of invasive alien species removed	Short-term	ERA, AM
MT09_CM_07c	Extend the existing cordoning to control access and prevent dumping within areas supporting Habitat 92D0	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	New cordoning installed	Short-term	ERA, AM

ANACAMPTIS URVILLEANA

The following site-specific conservation objectives and measures shall seek to improve the conservation status of this species within this site by 2030:

<i>Anacamptis urvilleana</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT09_SSCO_08a	Maintain the distribution of <i>Anacamptis urvilleana</i> through the corresponding target	Distribution	No decline in species distribution	Occurrence
MT09_SSCO_08b	Maintain the total extent of Habitats 5330 and 5410 supporting <i>Anacamptis urvilleana</i> through the corresponding target	Extent of habitats for the species	The total area of Habitats 5330 and 5410 is stable at 15.7 ha or increasing through natural regeneration	Area covered by the species' habitats (in hectares)
MT09_SSCO_08c	Maintain the condition of Habitat 5330 and improve the condition of Habitat 5410 supporting <i>Anacamptis urvilleana</i> through the corresponding target	Habitats' condition	The condition of Habitats 5330 and 5410 is suitable for the species	Habitats' condition

<i>Anacamptis urvilleana</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT09_CM_08a	Implementation of the conservation measures listed under Habitat 5410 to improve the condition of the habitat supporting <i>Anacamptis urvilleana</i>	Restoration of habitat of species from the directives (MS03)	Implementation of measures listed for Habitat 5410	Various	ERA, AM

BRACHYTRUPES MEGACEPHALUS

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this species within this site by 2030:

<i>Brachytrupes megacephalus</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT09_SSCO_09a	Maintain the total extent of Habitats 2110, 2210 and 2220 supporting <i>Brachytrupes megacephalus</i> through the corresponding target	Extent of habitat for the species	The total area of Habitats 2110, 2210 and 2220 is stable at 0.22 ha	Area covered by the species' habitats (in hectares)
MT09_SSCO_09b	Improve the condition of Habitats 2110, 2210 and 2220 supporting <i>Brachytrupes megacephalus</i> through the corresponding target	Habitats' condition	The condition of Habitats 2110, 2210 and 2220 is suitable for the species	Habitats' condition
MT09_SSCO_09c	Improve future prospects for <i>Brachytrupes megacephalus</i> through the corresponding targets	Pressures and threats: Predation	Predation by feral cats is reduced within the sand dune area supporting the species	Feral cat activity
MT09_SSCO_09d		Pressures and threats: Human disturbance (Vehicular access)	Vehicular access within areas supporting the species is managed	Vehicular access (Managed/unmanaged)

<i>Brachytrupes megacephalus</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT09_CM_09a	Translocation of <i>Brachytrupes megacephalus</i> to new areas within the site to improve the distribution of the species and connectivity of metapopulations	Reintroduce species from the directives (MS02)	Number of translocated individuals / Monitoring reports	Medium-term	ERA, AM
MT09_CM_09b	Manage vehicular access from areas supporting <i>Brachytrupes megacephalus</i>	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	Physical barriers/ Signage installed	Medium-term	ERA, AM
MT09_CM_09c	Neutering/relocation of feral cats present within the sand dune area	Management, control or eradication of other invasive alien species (MI03)	% decrease in feral cat activity	Ongoing	ERA, AM
MT09_CM_09d	Implementation of the conservation measures listed under Habitats 2110, 2210 and 2220 to improve the condition of the habitats supporting <i>Brachytrupes megacephalus</i>	Restoration of habitat of species from the directives (MS03)	Implementation of measures listed for Habitats 2110, 2210 and 2220	Various	ERA, AM

The current data available on the population size of *Brachytrupes megacephalus* within this site is limited. Thus, an operational objective to address this current knowledge gap is being put forward. This would then enable the elaboration of further SSCOs for the species.

Operational Objective	MT09_OO_01_Undertake a study to improve knowledge on the distribution and population size of <i>Brachytrupes megacephalus</i> within the site
Lead/supporting parties	ERA
Timeframe	Short-term

PSEUDOSERICIUS CAMERONI

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this species within this site by 2030:

<i>Pseudoseriscius cameroni</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT09_SSCO_10a	Maintain the total extent of Habitats 2110, 2210 and 2220 supporting <i>Pseudoseriscius cameroni</i> through the corresponding target	Extent of habitat for the species	The total area of Habitat 2110, 2210 and 2220 is stable at 0.22 ha	Area covered by the species' habitats (in hectares)
MT09_SSCO_10b	Improve the condition of Habitats 2110, 2210 and 2220 supporting <i>Pseudoseriscius cameroni</i> through the corresponding target	Habitats' condition	The condition of Habitats 2110, 2210 and 2220 is suitable for the species	Habitats' condition

<i>Pseudoseriscius cameroni</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT09_CM_10a	Implementation of the conservation measures listed under Habitats 2110, 2210 and 2220 to improve the condition of the habitat supporting <i>Pseudoseriscius cameroni</i>	Restoration of habitat of species from the directives (MS03)	Implementation of measures listed for Habitats 2110, 2210 and 2220	Various	ERA, AM

Limited data is available on the distribution and population size of *Pseudoseriscius cameroni* within this site. Thus, an operational objective to address this current knowledge gap is being put forward. This would then enable the elaboration of further SSCO's for the species.

Operational Objective	MT09_OO_02_Undertake a study to improve knowledge on the distribution and population size of <i>Pseudoseriscius cameroni</i> within the site
Lead/supporting parties	ERA
Timeframe	Short-term

CALANDRELLA BRACHYDACTYLA, CALONECTRIS DIOMEDEA, HYDROBATES PELAGICUS AND PUFFINUS YELKOUAN

The following site-specific conservation objectives and measures shall seek to restore the conservation status of these species within this site by 2030:

<i>Calandrella brachydactyla, Calonectris diomedea, Hydrobates pelagicus and Puffinus yelkouan</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT09_SSCO_11a	Maintain the breeding distribution and population size of <i>Calonectris diomedea</i> through the corresponding targets	Breeding distribution	Breeding distribution remains stable at approximately 550 m along the coastline, with no loss of breeding sites	Extent of coastline occupied by breeding colonies
MT09_SSCO_11b		Breeding population	Breeding population remains stable at 25 - 60 breeding pairs or shows positive trends	Estimates of breeding pairs
MT09_SSCO_11c	Maintain the breeding distribution and population size of <i>Hydrobates pelagicus</i> through the corresponding targets	Breeding distribution	Breeding distribution remains stable at approximately 200 m along the coastline, with no loss of breeding sites	Extent of coastline occupied by breeding colonies
MT09_SSCO_11d		Breeding population	Breeding population remains stable at 1 - 10 breeding pairs or shows positive trends	Estimates of breeding pairs
MT09_SSCO_11e	Maintain the breeding distribution and population size of <i>Puffinus yelkouan</i> through the corresponding targets	Breeding distribution	Breeding distribution remains stable at approximately 2100 m along the coastline, with no loss of breeding sites	Extent of coastline occupied by breeding colonies
MT09_SSCO_11f		Breeding population	Breeding population remains stable at 300 - 575 breeding pairs or shows positive trends	Estimates of breeding pairs
MT09_SSCO_11g	Maintain the extent of habitat supporting <i>Calandrella brachydactyla</i> , <i>Calonectris diomedea</i> , <i>Hydrobates pelagicus</i> and <i>Puffinus yelkouan</i> through the corresponding target	Extent of habitat for the species	Area covered by the habitat for the species is stable	Area covered by the species' habitat (in hectares)

<i>Calandrella brachydactyla, Calonectris diomedea, Hydrobates pelagicus and Puffinus yelkouan</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT09_SSCO_11h	Improve the condition of the habitat supporting <i>Calandrella brachydactyla</i> , <i>Calonectris diomedea</i> , <i>Hydrobates pelagicus</i> and <i>Puffinus yelkouan</i> through the corresponding target	Habitat condition	The condition of the habitat is suitable to maintain the breeding distribution and population size of the species	Habitat condition
MT09_SSCO_11i		Pressures and threats: Predation	Predation by rodents is reduced	Rodent activity
MT09_SSCO_11j			Predation by feral cats is reduced	Feral cat activity
MT09_SSCO_11k	Improve future prospects of <i>Calandrella brachydactyla</i> , <i>Calonectris diomedea</i> , <i>Hydrobates pelagicus</i> and <i>Puffinus yelkouan</i> through the corresponding targets	Pressures and threats: Human disturbance (Vehicular access)	Vehicular access within areas supporting bird colonies is managed	Vehicular access (Managed/unmanaged)
MT09_SSCO_11l		Pressures and threats: Human disturbance (Works or activities)	Works or activities are carried out in full respect of the conservation requirements of the Natura 2000 site and in line with ERA's assessment/ permit conditions, as relevant	Level of compliance with ERA's assessment/ permit conditions

<i>Calandrella brachydactyla, Calonectris diomedea, Hydrobates pelagicus and Puffinus yelkouan</i>						
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties	
MT09_CM_11a	Continuation of rat control efforts to ensure that the rodent population is controlled	Management, control or eradication of other invasive alien species (MI03)	% decrease in rodent activity	Ongoing	ERA, AM	
			Number of stations in place			
MT09_CM_11b	Neutering/relocation of feral cats present within the site		% decrease in feral cat activity	Ongoing	ERA, AM	
MT09_CM_11c	Improvement of waste management within the site		Adequate waste management in place	Ongoing	Mellieħa Local Council / ERA, AM	
MT09_CM_11d	Improvement of the management of camping activities within the site	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	Adequate management of camping activities in place	Ongoing	Mellieħa Local Council / ERA, AM	
MT09_CM_11e	Delineation of clear boundaries for permissible camping spots within the site, to prevent and deter camping close to bird colonies			Physical barriers/ Signage installed	Medium-term	Mellieħa Local Council / ERA, AM
MT09_CM_11f	Manage vehicular access from the cliff areas to reduce disturbance to bird colonies			Physical barriers/ Signage installed	Medium-term	ERA, AM

<i>Calandrella brachydactyla, Calonectris diomedea, Hydrobates pelagicus and Puffinus yelkouan</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT09_CM_11g	New developments proposed within and in the vicinity of the site are assessed with respect to potential light pollution, and any preventive/ mitigation measures to reduce disturbance to birds are adopted accordingly	Reduce/ eliminate pollution (incl. noise, light, heat, soil pollution) from industrial, commercial, residential and recreational areas and activities (MF07)	Light levels in line with ERA's proposed conditions	Ongoing	ERA
MT09_CM_11h	Works and activities proposed within and in the vicinity of the site are assessed, and any preventive/ mitigation measures to reduce disturbance to birds are adopted accordingly	Restoration of habitat of species from the directives (MS03)	Works or activities in line with ERA's proposed conditions	Ongoing	ERA
MT09_CM_11i	Implementation of the conservation measures listed for the habitat types present within the site to improve the condition of the habitats supporting Annex I bird species	Restoration of habitat of species from the directives (MS03)	Implementation of measures listed for the habitat types present within the site	Ongoing	ERA, AM

Limited data is available on the breeding population and distribution of *Calandrella brachydactyla* within this site. Thus, an operational objective to address this current knowledge gap is being put forward. This would then enable the elaboration of SSCOs for this species.

Operational Objective	MT09_OO_03_Undertake a study to improve knowledge on the distribution and breeding population of <i>Calandrella brachydactyla</i> within the site
Lead/supporting parties	ERA
Timeframe	Short-term

ZAMENIS SITULA

Limited data is available on the distribution and population size of *Zamenis situla* within this site. Thus, an operational objective to address this current knowledge gap is being put forward. This would then enable the elaboration of SSCOs for this species.

Operational Objective	MT09_OO_04_Undertake a study to improve knowledge on the distribution and population size of <i>Zamenis situla</i> within the site
Lead/supporting parties	ERA
Timeframe	Short-term



GĦAR DALAM

MT0000011

Designation Area: 0.7 ha

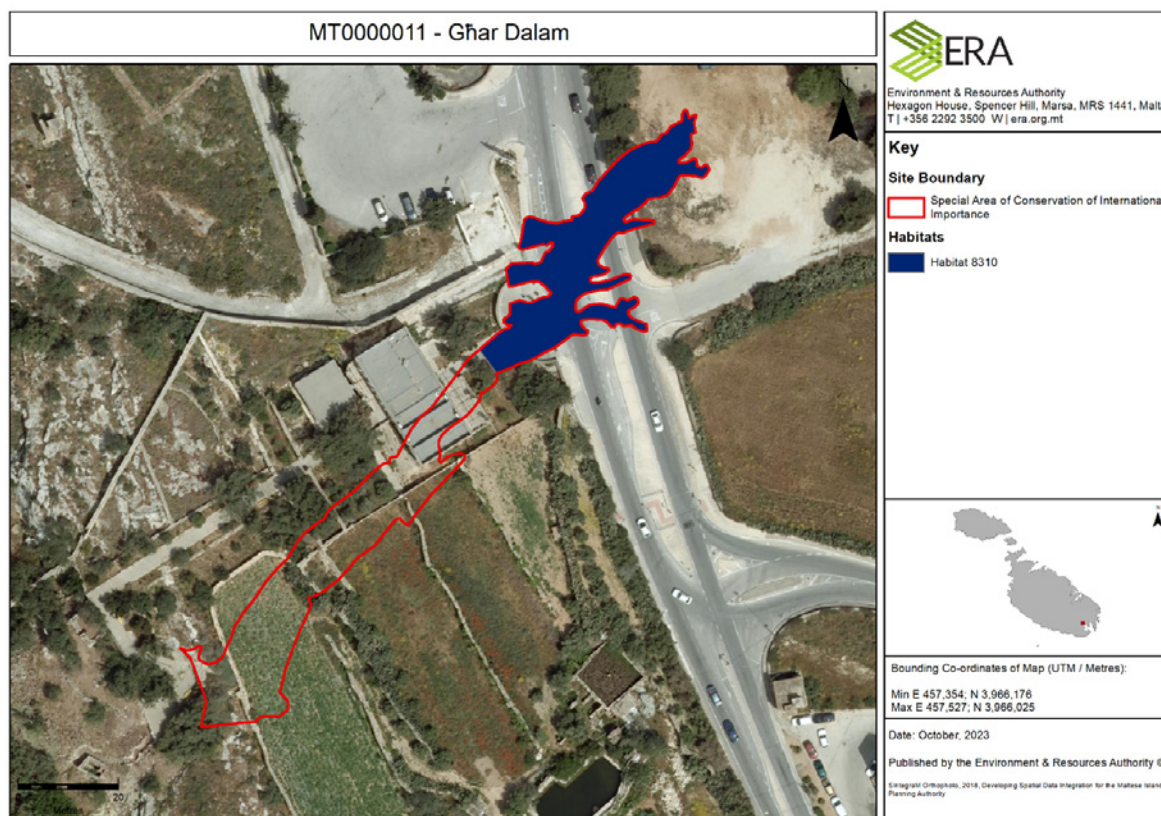
ANNEX I HABITATS

- Caves not open to the public (**Habitat 8310**)

ANNEX II SPECIES

- *Armadilidium ghardalamensis*
- *Rhinolophus hipposideros*

Figure 12: Habitat map of 'Għar Dalam'



HABITAT ASSESSMENT

Table 12: Habitat types of Annex I of Council Directive 92/43/EEC present on site

Habitat Code	Habitat Name	Cover	Data Quality	Site assessment				Pressures relevant to the Natura 2000 site
				Representativity	Relative Surface	Conservation	Global	
8310	Caves not open to the public	0.07 ha	G	A	B	A	A	PF12 - Residential, commercial and industrial activities and structures generating noise, light, heat or other forms of pollution

SPECIES ASSESSMENT

Table 13: Species listed in Annex II of Directive 92/43/EEC present on site

Species Code	Species Name	Population size	Data Quality	Site assessment				Pressures relevant to the Natura 2000 site
				Population	Conservation	Isolation	Global	
1303	<i>Rhinolophus hipposideros</i>	1 individual	G	C	A	A	B	PF12 - Residential, commercial and industrial activities and structures generating noise, light, heat or other forms of pollution
4010	<i>Armadillidium ghardalamensis</i>	1 grid cell (1 x 1 km)	G	A	A	A	A	

8310 - CAVES NOT OPEN TO THE PUBLIC

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of this habitat type within this site by 2030:

8310 - Caves not open to the public				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT11_SSCO_01a	Maintain the extent of Habitat 8310 through the corresponding target	Area covered by the habitat type	Area stable at 0.07 ha	Habitat area (in hectares)
MT11_SSCO_01b	Maintain the structure and function of Habitat 8310 through the corresponding targets	Environmental Parameters/ Conditions	Stable and optimal conditions present inside and outside the cave	Data related to environmental parameters
MT11_SSCO_01c		Species composition: Typical species	The presence of typical species associated with Habitat 8310 within the site is maintained	Species composition
MT11_SSCO_01d	Maintain the future prospects of Habitat 8310 through the corresponding targets	Pressures/Threats: Human disturbance (Access)	Access beyond the initial 50 m of the cave system restricted to authorised personnel only	Access (restricted/unrestricted)
MT11_SSCO_01e			Number of visitors at any one time does not exceed 55	Number of visitors
MT11_SSCO_01f		Pressures/Threats: Human disturbance (Works or activities)	Works or activities that may affect the structural integrity of the cave are carried out in line with ERA's assessment/permit conditions, as relevant	Level of compliance with ERA's assessment/permit conditions

8310 - Caves not open to the public					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT11_CM_01a	Ensure that the area of the cave system that is open to the public remains restricted to the initial 50 m, except for authorised visits, including for essential scientific research and monitoring of species	Reduce impact of other specific human activities (MH03)	Control of access	Ongoing	ERA, Heritage Malta
MT11_CM_01b	Ensure that the established sustainable visitors' carrying capacity of no more than 55 persons at any one time is not exceeded		Number of visitors entering the cave at any one time	Ongoing	ERA, Heritage Malta
MT11_CM_01c	Works or activities proposed within the vicinity of the cave that may affect the structural integrity of the cave are assessed and any preventive/mitigation measures to reduce impacts are adopted accordingly	Reduce/eliminate pollution (incl. noise, light, heat, soil pollution) from industrial, commercial, residential and recreational areas and activities (MF07)	Works or activities in line with ERA's proposed conditions	Ongoing	ERA

ARMADILLIDIUM GHARDALAMENSIS

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of this species within this site by 2030:

<i>Armadillidium ghardalamensis</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT11_SSCO_02a	Maintain the distribution of <i>Armadillidium ghardalamensis</i> through the corresponding target	Distribution	No decline in species distribution within the cave system	Extent of cave occupied by the species (in hectares)
MT11_SSCO_02b	Maintain the extent of Habitat 8310 supporting <i>Armadillidium ghardalamensis</i> through the corresponding target	Extent of habitat for the species	Area supporting the species is stable at 0.07 ha	Area covered by the species' habitat (in hectares)
MT11_SSCO_02c	Maintain the condition of Habitat 8310 supporting <i>Armadillidium ghardalamensis</i> through the corresponding target	Habitat condition	The condition of the habitat is suitable to maintain the distribution and population size of the species	Habitat condition
MT11_SSCO_02d	Maintain future prospects for <i>Armadillidium ghardalamensis</i> through the corresponding target	Pressures and threats: Light pollution	Disturbance to species arising from light pollution is non-significant	Light intensity (Lux)

<i>Armadillidium ghardalamensis</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT11_CM_02a	Lights within the cave to be kept at low intensity and limited to visitors' opening hours to prevent disturbance and to allow species to potentially extend its distribution within the cave system	Reduce/ eliminate pollution (incl. noise, light, heat, soil pollution) from industrial, commercial, residential and recreational areas and activities (MF07)	Light intensity (Lux)	Ongoing	ERA, Heritage Malta
MT11_CM_02b	Implementation of the conservation measures listed under Habitat 8310 to maintain the condition of the habitat supporting <i>Armadillidium ghardalamensis</i>	Restoration of habitat of species from the directives (MS03)	Implementation of measures listed for Habitat 8310	Ongoing	ERA, Heritage Malta

Noting that *Armadillidium ghardalamensis* occurs only within this site and has a low population, a study to determine the feasibility of carrying out ex-situ conservation would be essential in an attempt to enhance the current population of the species.

Operational Objective	MT11_OO_01_Undertake a study to determine the feasibility of carrying out ex-situ conservation of <i>Armadillidium ghardalamensis</i> to reinforce the species' population
Lead/supporting parties	ERA
Timeframe	Short-term

RHINOLOPHUS HIPPOSIDEROS

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of the species within this site by 2030:

<i>Rhinolophus hipposideros</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT11_SSCO_03a	Maintain the distribution and population size of <i>Rhinolophus hipposideros</i> through the corresponding targets	Distribution	No decline in species distribution within the cave system	Extent of cave occupied by the species (in hectares)
MT11_SSCO_03b		Population size	Population size stable or showing positive trends	Number of individuals
MT11_SSCO_03c	Maintain the extent of Habitat 8310 supporting <i>Rhinolophus hipposideros</i> through the corresponding target	Extent of habitat for the species	Area covered by the habitat supporting the species is stable at 0.07 ha	Area covered by the species' habitat (in hectares)
MT11_SSCO_03d	Maintain the condition of Habitat 8310 supporting <i>Rhinolophus hipposideros</i> through the corresponding target	Habitat condition	The condition of the habitat is suitable to maintain the distribution of the species	Habitat condition
MT11_SSCO_03e	Maintain future prospects for <i>Rhinolophus hipposideros</i> through the corresponding targets	Pressures and threats: Light pollution	Disturbance arising from light pollution is non-significant	Light intensity (Lux)
MT11_SSCO_03f		Pressures and threats: Human disturbance (Works or activities)	Works or activities are carried out in full respect of the conservation requirements of the Natura 2000 site and in line with ERA's assessment/ permit conditions, as relevant	Level of compliance with ERA's assessment/ permit conditions

<i>Rhinolophus hipposideros</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT11_CM_03a	Lights within the cave to be kept at low intensity and limited to visitors opening hours to prevent disturbance to <i>Rhinolophus hipposideros</i> and to allow species to potentially extend its distribution within the cave system		Light intensity (Lux)	Ongoing	ERA, Heritage Malta
MT11_CM_03b	New developments proposed within and in the vicinity of the site are assessed in terms of potential light pollution, and any preventive/ mitigation measures to reduce bat disturbance are adopted accordingly	Reduce/ eliminate pollution (incl. noise, light, heat, soil pollution) from industrial, commercial, residential and recreational areas and activities (MF07)	Light levels in line with ERA's proposed conditions	Ongoing	ERA
MT11_CM_03c	Works or activities proposed within the vicinity of the cave are assessed and any preventive/ mitigation measures to reduce bat disturbance are adopted accordingly		Works or activities in line with ERA's proposed conditions	Ongoing	ERA
MT11_CM_02d	Implementation of the conservation measures listed under Habitat 8310 to maintain the condition of the habitat supporting <i>Rhinolophus hipposideros</i>	Restoration of habitat of species from the directives (MS03)	Implementation of measures listed for Habitat 8310	Ongoing	ERA, Heritage Malta



IĊ-ĊITTADELLA

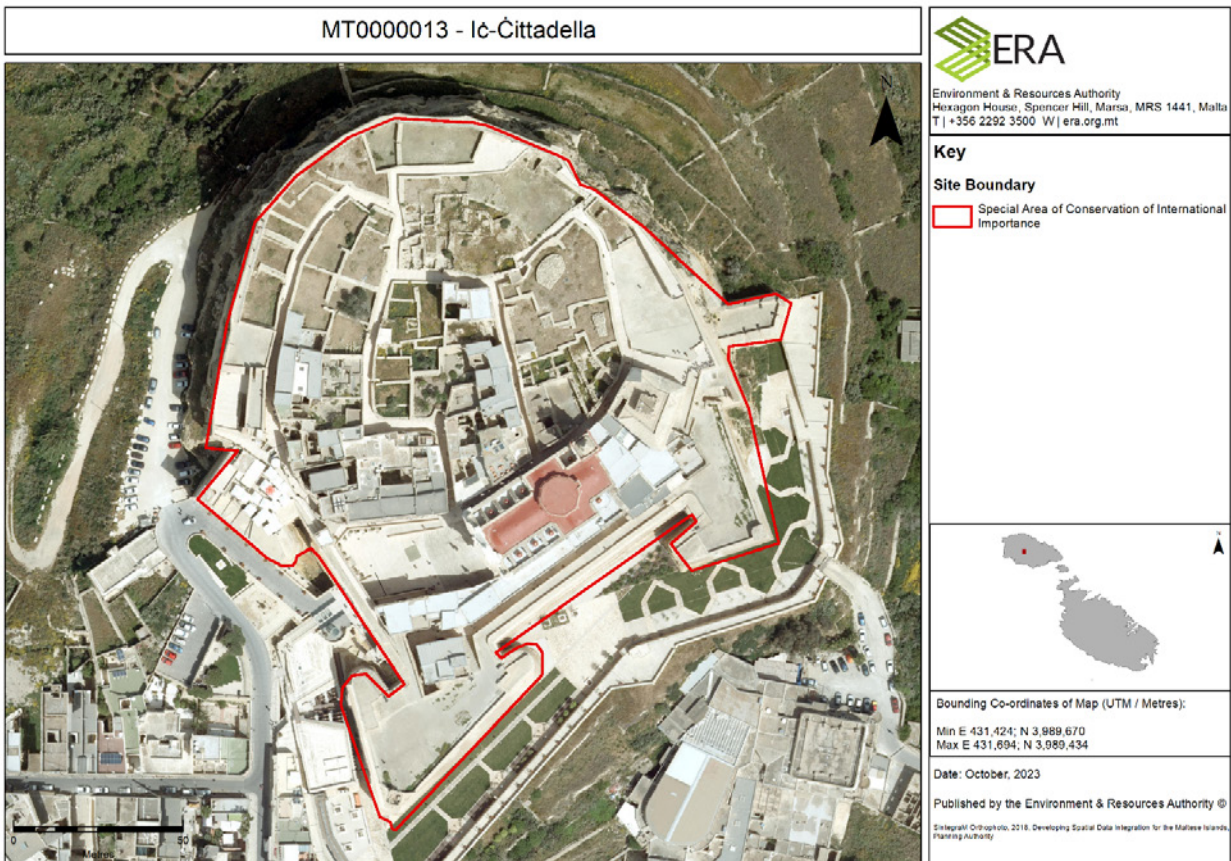
MT0000013

Designation Area: 2.07 ha

ANNEX II SPECIES

- *Linaria pseudolaxiflora*
- *Myotis punicus*
- *Rhinolophus hipposideros*

Figure 13: SAC boundary of 'Iċ-Ċittadella'



SPECIES ASSESSMENT

Table 14: Species listed in Annex II of Directive 92/43/EEC present on site

Species Code	Species Name	Population size	Data Quality	Site assessment				Pressures relevant to the Natura 2000 site
				Population	Conservation	Isolation	Global	
1303	<i>Rhinolophus hipposideros</i>	5 individuals	G	C	C	A	C	PF05 - Sports, tourism and leisure activities
4114	<i>Linaria pseudolaxiflora</i>	50 individuals	G	C	C	A	C	PF12 - Residential, commercial and industrial activities and structures generating noise, light, heat or other forms of pollution
5005	<i>Myotis punicus</i>	/	DD	C	C	A	C	

LINARIA PSEUDOLAXIFLORA

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this species within this site by 2030:

<i>Linaria pseudolaxiflora</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT13_SSCO_01a	Maintain the distribution and population size of <i>Linaria pseudolaxiflora</i> through the corresponding targets	Distribution	No decline in species distribution	Occurrence
MT13_SSCO_01b		Population size	Population size stable at 50 individuals or showing positive trends	Number of individuals
MT13_SSCO_01c	Improve future prospects for <i>Linaria pseudolaxiflora</i> through the corresponding targets	Pressures and threats: Human disturbance (Trampling)	Trampling within areas supporting <i>Linaria pseudolaxiflora</i> is non-significant	Area showing signs of trampling
MT13_SSCO_01d		Pressures and threats: Pesticides/Herbicides	Manual weed control practices adopted	Manual weed control practices (Adopted/not adopted)

<i>Linaria pseudolaxiflora</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT13_CM_01a	Installation of temporary cordoning and non-intrusive signage between mid- January and mid-May of each year, to reduce trampling within areas supporting <i>Linaria pseudolaxiflora</i>	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	Signage/ Cordoning installed	Ongoing	ERA, EcoGozo
MT13_CM_01b	Adoption of manual weed cutting and removal practices, without the use of any pesticides/herbicides	Other measures related to residential, commercial, industrial and recreational infrastructures, operations and activities (MF10)	Procedure adopted for weeding operations	Ongoing	ERA, EcoGozo

MYOTIS PUNICUS AND RHINOLOPHUS HIPPOSIDEROS

The following site-specific conservation objectives and measures shall seek to restore the conservation status of these species within this site by 2030:

<i>Myotis punicus</i> and <i>Rhinolophus hipposideros</i>					
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement	
MT11_SSCO_02a	Maintain the distribution and population size of <i>Rhinolophus hipposideros</i> through the corresponding targets	Distribution	No decline in species distribution	Number of roosting sites	
MT11_SSCO_02b		Population size	Population size stable or showing positive trends	Number of individuals	
MT13_SSCO_02c	Increase the extent of potential foraging/ roosting habitats for <i>Myotis punicus</i> and <i>Rhinolophus hipposideros</i> through the corresponding targets	Extent of habitat for the species	Extent of potential foraging habitat availability increased	Area covered by the habitat (in hectares)	
MT13_SSCO_02d			Potential roosting extent/ spots increased	Number of roosting boxes installed	

<i>Myotis punicus</i> and <i>Rhinolophus hipposideros</i> (continued)				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT13_SSCO_02e		Pressures/ Threats: Human disturbance (Access)	Access to roosting sites is restricted to authorised personnel only	Access (restricted/unrestricted)
MT13_SSCO_02f	Improve future prospects for <i>Myotis punicus</i> and <i>Rhinolophus hipposideros</i> through the corresponding targets	Pressures and threats: Light Pollution	Disturbance to bats arising from light pollution is mitigated	Light intensity (Lux)
MT13_SSCO_02g		Pressures and threats: Human disturbance (Works or activities)	Works or activities are carried out in full respect of the conservation requirements of the Natura 2000 site and in line with ERA's assessment/permit conditions, as relevant	Level of compliance with ERA's assessment/permit conditions

<i>Myotis punicus</i> and <i>Rhinolophus hipposideros</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT13_CM_02a	Manage access to the bat roosting sites through the installation of bat access grilles	Reduce impact of other specific human activities (MH03)	Bat access grilles installed	Short-term	ERA, EcoGozo
MT13_CM_02b	Increase the size of bat roosting sites by cleaning infilled chambers and corridors from stones and debris	Restoration of habitat of species from the directives (MS03)	% increase in area of roosting sites	Short-term	ERA, EcoGozo
MT13_CM_02c	Installation of bat roosting boxes to increase potential bat roosting sites		Number of roosting boxes installed, number of boxes occupied	Short-term	ERA, EcoGozo
MT13_CM_02d	Planting of native plant species to increase bat foraging grounds	Restoration of habitat of species from the directives (MS03)	Number of species (species list), number of specimens planted, success rate	Medium-term	ERA, EcoGozo
MT13_CM_02e	Implement light preventive/ mitigation measures of permanent sources of light pollution facing directly on the entrances of bat roosting sites	Reduce/ eliminate pollution (incl. noise, light, heat, soil pollution) from industrial, commercial, residential and recreational areas and activities (MF07)	Light intensity (Lux)	Medium-term	ERA, EcoGozo

<i>Myotis punicus</i> and <i>Rhinolophus hipposideros</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT13_CM_02f	Restoration or maintenance works undertaken on the shelters/tunnels or other cunicula or crevices that are or have the potential to be used by bats as roosting places, are only undertaken following a survey of the site to determine its use by bats and according to ERA's conditions	Other measures related to residential, commercial, industrial and recreational infrastructures, operations and activities (MF10)	Restoration/ maintenance projects in line with ERA's proposed conditions	Ongoing	ERA
MT13_CM_02g	Works or activities proposed within the vicinity of areas hosting bat roosting sites are assessed and any preventive/ mitigation measures to reduce bat disturbance are adopted accordingly	Reduce/ eliminate pollution (incl. noise, light, heat, soil pollution) from industrial, commercial, residential and recreational areas and activities (MF07)	Works or activities in line with ERA's proposed conditions	Ongoing	ERA
MT13_CM_02h	New developments proposed within and in the vicinity of the site are assessed with respect to potential light pollution, and any preventive/ mitigation measures to reduce bat disturbance are adopted accordingly		Light levels in line with ERA's proposed conditions	Ongoing	ERA

Myotis punicus has been also recorded from 'Ic-Çittadella'. However, limited data is available on the distribution and population size of *Myotis punicus* within this site. Thus, an operational objective to address this current knowledge gap is being put forward. This would then enable the elaboration of further SSCOs for this species.

Operational Objective	MT13_OO_01_Undertake a study to improve knowledge on the distribution and population size of <i>Myotis punicus</i> within the site
Lead/supporting parties	ERA
Timeframe	Short-term



IL-BALLUT TA' MARSAXLOKK

MT0000014

Designation Area: **23.34 ha**

ANNEX I HABITATS

- *Salicornia* and other annuals colonising mud and sand (**Habitat 1310**)
- Mediterranean salt meadows (*Juncetalia maritimi*) (**Habitat 1410**)
- Mediterranean and thermo-Atlantic halophilous scrubs (*Sarcocornetea fruticosi*) (**Habitat 1420**)
- Southern riparian galleries and thickets (*Nerio-Tamaricetea* and *Securinegion tinctoriae*) (**Habitat 92D0**)

Figure 14: Habitat map of 'Il-Ballut ta' Marsaxlokk'

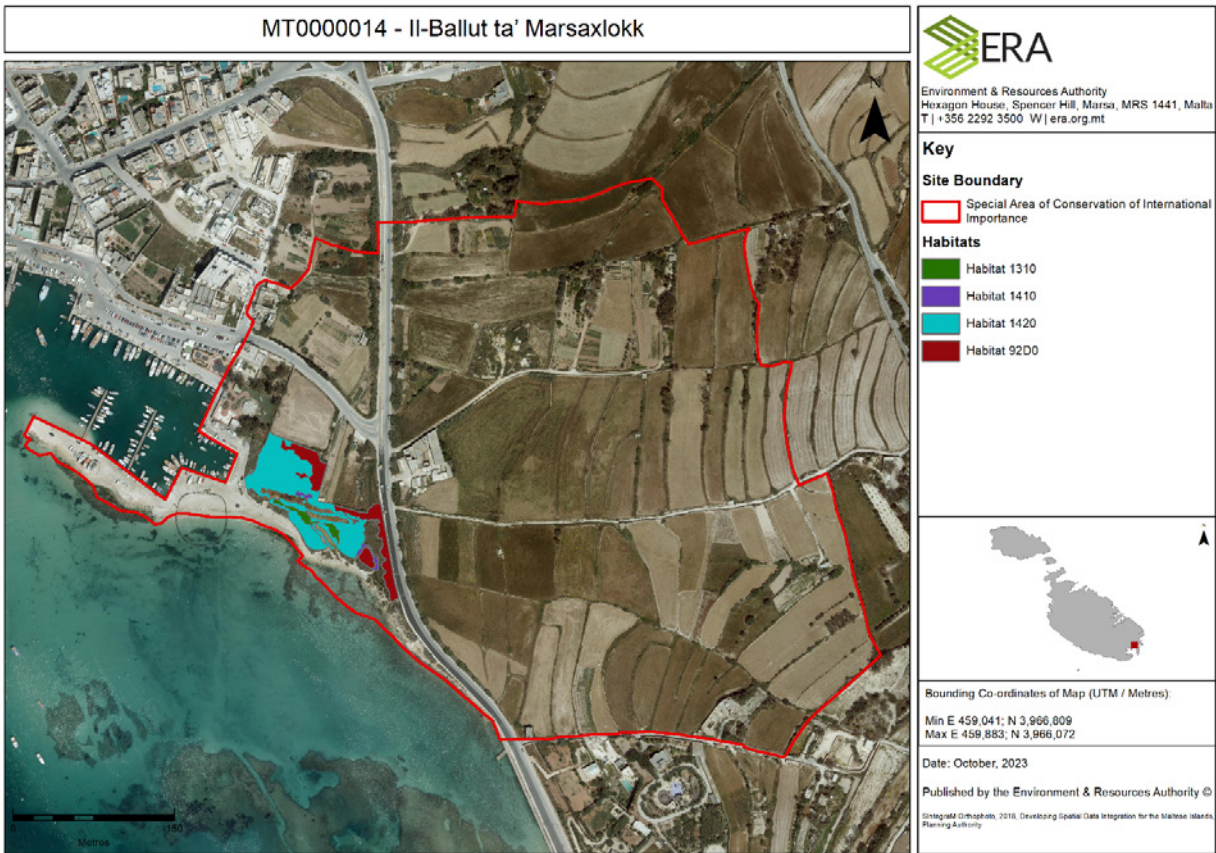
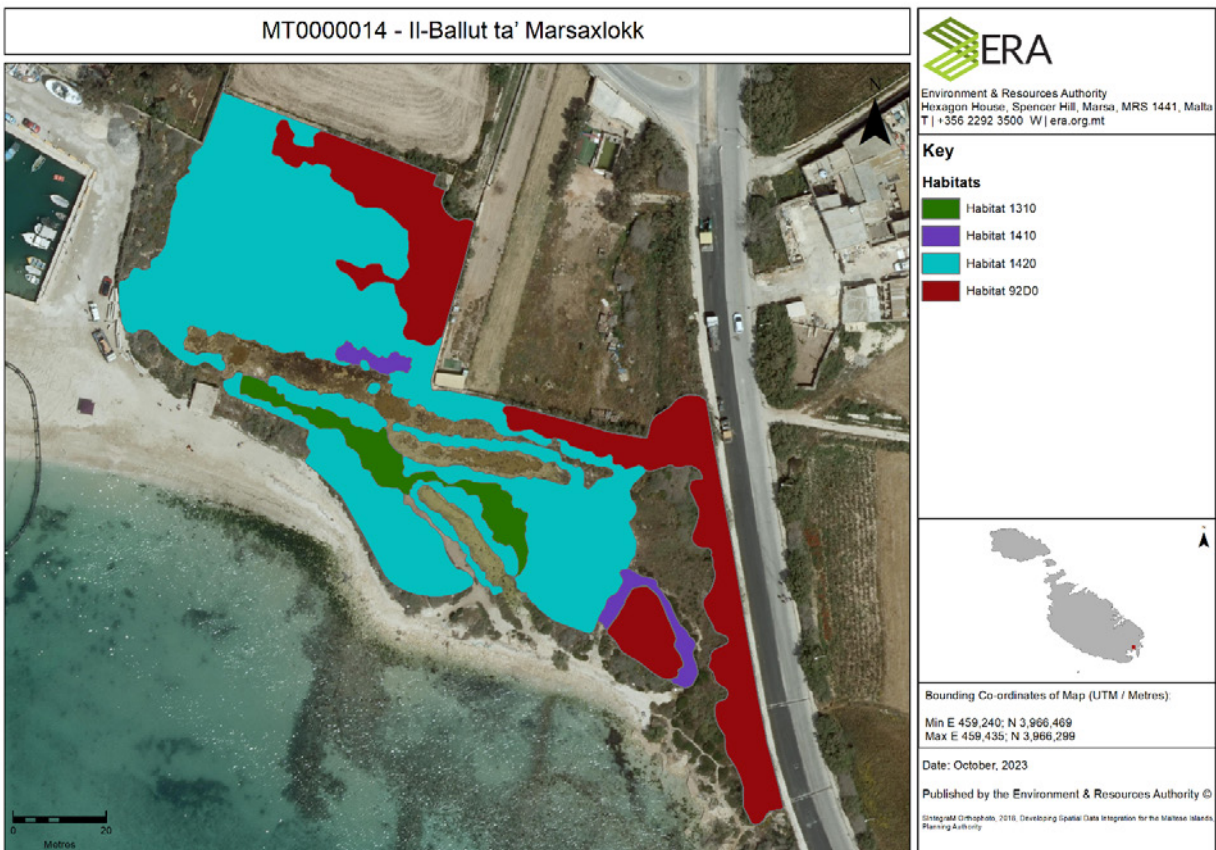


Figure 15: Habitat map of the saltmarsh habitats at 'Il-Ballut ta' Marsaxlokk'



HABITAT ASSESSMENT

Table 15: Habitat types of Annex I of Council Directive 92/43/EEC present on site

Habitat Code	Habitat Name	Cover	Data Quality	Site assessment				Pressures relevant to the Natura 2000 site
				Representativity	Relative Surface	Conservation	Global	
1310	<i>Salicornia</i> and other annuals colonising mud and sand	0.03 ha	G	B	B	A	B	
1410	Mediterranean salt meadows (<i>Juncetalia maritimi</i>)	0.01 ha	G	C	B	A	B	PF05 - Sports, tourism and leisure activities
1420	Mediterranean and thermo-Atlantic halophilous scrubs (<i>Sarcocornetea fruticosi</i>)	0.4 ha	G	B	A	B	B	PM07 - Natural processes without direct or indirect influence from human activities or climate change
92D0	Southern riparian galleries and thickets (<i>Nerio-Tamaricetea</i> and <i>Securinegion tinctoriae</i>)	0.1 ha	G	C	C	C	C	PL05 - Modification of hydrological flow

1310 - SALICORNIA AND OTHER ANNUALS COLONISING MUD AND SAND

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this habitat type within this site by 2030:

1310 - <i>Salicornia</i> and other annuals colonising mud and sand				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT14_SSCO_01a	Maintain the extent of Habitat 1310 through the corresponding target	Area covered by the habitat type	Area stable at 0.03 ha or increasing through natural regeneration	Habitat area (in hectares)
MT14_SSCO_01b	Improve the structure and function of Habitat 1310 through the corresponding targets	Species composition: Typical species	Habitat representativity improved	Species composition
MT14_SSCO_01c		Hydrological regime	Appropriate hydrological regime necessary for maintenance of Habitat 1310	Habitat area (in hectares)
MT14_SSCO_01d	Improve future prospects of Habitat 1310 through the corresponding targets	Pressures and threats: Human disturbance (Trampling)	Trampling within areas supporting Habitat 1310 is non- significant	Area of habitat showing signs of trampling
MT14_SSCO_01e		Pressures & threats: Coastal erosion	Coastal erosion mitigated	Habitat area (in hectares)

1310 - <i>Salicornia</i> and other annuals colonising mud and sand					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT14_CM_01a	Planting of <i>Thero-Salicornietalia</i> species which are currently absent or at a low population to improve representativity of Habitat 1310	Manage native species (incl. non-Directive species) (MS04)	Number of typical species (species list), number of specimens planted and success rate	Short-term	ERA, AM / NGO

1310 - <i>Salicornia</i> and other annuals colonising mud and sand					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT14_CM_01b	Evaluate recommendations outlined from the LIFE IP hydrological regime study which aim to re-establish the hydrological regime and implement as necessary	Manage changes in hydrological and coastal systems and regimes for construction and development (incl. restoration of habitats). (MF08)	Hydrological regime (Water flow/ levels)	Medium-term	ERA, AM / NGO
MT14_CM_01c	Evaluate recommendations outlined from the LIFE IP (Action C.13) study which aim to mitigate coastal erosion processes and implement as necessary	Management of habitats (others than agriculture and forest) to slow, stop or reverse natural processes that occur without direct or indirect influence from human activities or climate change (MM01)	Trend in coastal erosion rate	Medium-term	ERA, AM / NGO
MT14_CM_01d	Delineation of an official footpath for visitor management to control access and reduce trampling within areas supporting Habitat 1310	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	Demarcation of footpath	Medium-term	ERA, AM / NGO

1410 - MEDITERRANEAN SALT MEADOWS (*Juncetalia maritimi*)

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this habitat type within this site by 2030:

1410 - Mediterranean salt meadows (<i>Juncetalia maritimi</i>)				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT14_SSCO_02a	Maintain the extent of Habitat 1410 through the corresponding target	Area covered by the habitat type	Area stable at 0.01 ha or increasing through natural regeneration	Habitat area (in hectares)
MT14_SSCO_02b	Improve the structure and function of Habitat 1410 through the corresponding targets	Species composition: Typical species	Habitat representativity improved	Species composition
MT14_SSCO_02c		Hydrological regime	Appropriate hydrological regime necessary for maintenance of Habitat 1410	Habitat area (in hectares)
MT14_SSCO_02d	Improve future prospects of Habitat 1410 through the corresponding targets	Pressures and threats: Human disturbance (Trampling)	Trampling within areas supporting Habitat 1410 is non-significant	Area of habitat showing signs of trampling
MT14_SSCO_02e		Pressures & threats: Coastal erosion	Coastal erosion mitigated	Habitat area (in hectares)

1410 - Mediterranean salt meadows (<i>Juncetalia maritimi</i>)					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT14_CM_02a	Planting of <i>Juncetalia maritimi</i> species which are currently absent or at a low population to improve representativity of Habitat 1410	Manage native species (incl. non-Directive species) (MS04)	Number of typical species (species list), number of specimens planted and success rate	Short-term	ERA, AM / NGO

1410 - Mediterranean salt meadows (<i>Juncetalia maritimi</i>)					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT14_CM_02b	Evaluate recommendations outlined from the LIFE IP hydrological regime study which aim to re-establish the hydrological regime and implement as necessary	Manage changes in hydrological and coastal systems and regimes for construction and development (incl. restoration of habitats). (MF08)	Hydrological regime (Water flow/levels)	Medium-term	ERA, AM / NGO
MT14_CM_02c	Evaluate recommendations outlined from the LIFE IP (Action C.13) study which aim to mitigate coastal erosion processes and implement as necessary	Management of habitats (others than agriculture and forest) to slow, stop or reverse natural processes that occur without direct or indirect influence from human activities or climate change (MM01)	Trend in coastal erosion rate	Medium-term	ERA, AM / NGO
MT14_CM_02d	Delineation of an official footpath for visitor management to control access and reduce trampling within areas supporting Habitat 1410	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	Demarcation of footpath	Medium-term	ERA, AM / NGO

1420 - MEDITERRANEAN AND THERMO-ATLANTIC HALOPHILOUS SCRUBS (*SARCOCORNETEA FRUTICOSI*)

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this habitat type within this site by 2030:

1420 - Mediterranean and thermo-Atlantic halophilous scrubs (<i>Sarcocornetea fruticosi</i>)				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT14_SSCO_03a	Maintain the extent of Habitat 1420 through the corresponding target	Area covered by the habitat type	Area stable at 0.4 ha or increasing through natural regeneration	Habitat area (in hectares)
MT14_SSCO_03b	Improve the structure and function of Habitat 1420 through the corresponding targets	Species composition: Typical species	Habitat representativity improved	Species composition
MT14_SSCO_03c		Hydrological regime	Appropriate hydrological regime necessary for maintenance of Habitat 1420	Habitat area (in hectares)
MT14_SSCO_03d	Improve future prospects of Habitat 1420 through the corresponding targets	Pressures and threats: Human disturbance (Trampling)	Trampling within areas supporting Habitat 1420 is non-significant	Area of habitat showing signs of trampling
MT14_SSCO_03e		Pressures & threats: Coastal erosion	Coastal erosion mitigated	Habitat area (in hectares)

1420 - Mediterranean and thermo-Atlantic halophilous scrubs (<i>Sarcocornetea fruticosi</i>)					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT14_CM_03a	Planting of <i>Sarcocornetea fruticosi</i> species which are currently absent or at a low population to improve representativity of Habitat 1420	Manage native species (incl. non-Directive species) (MSO4)	Number of typical species (species list), number of specimens planted and success rate	Short-term	ERA, AM / NGO

1420 - Mediterranean and thermo-Atlantic halophilous scrubs (<i>Sarcocornetea fruticosi</i>)					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT14_CM_03b	Evaluate recommendations outlined from the LIFE IP hydrological regime study which aim to re-establish the hydrological regime and implement as necessary	Manage changes in hydrological and coastal systems and regimes for construction and development (incl. restoration of habitats). (MF08)	Hydrological regime (Water flow/ levels)	Medium-term	ERA, AM / NGO
MT14_CM_03c	Evaluate recommendations outlined from the LIFE IP (Action C.13) study which aim to mitigate coastal erosion processes and implement as necessary	Management of habitats (others than agriculture and forest) to slow, stop or reverse natural processes that occur without direct or indirect influence from human activities or climate change (MM01)	Trend in coastal erosion rate	Medium-term	ERA, AM / NGO
MT14_CM_03d	Delineation of an official footpath for visitor management to control access and reduce trampling within areas supporting Habitat 1420	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	Demarcation of footpath	Medium-term	ERA, AM / NGO

92D0 - SOUTHERN RIPARIAN GALLERIES AND THICKETS (*NERIO-TAMARICETEA* AND *SECURINEGION TINCTORIAE*)

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this habitat type within this site by 2030:

92D0 - Southern riparian galleries and thickets (<i>Nerio-Tamaricetea</i> and <i>Securinegion tinctoriae</i>)				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT14_SSCO_04a	Increase the extent of Habitat 92D0 through the corresponding target	Area covered by the habitat type	20% increase in the area of Habitat 92D0	Habitat area (in hectares)
MT14_SSCO_04b	Improve the structure and function of Habitat 92D0 through the corresponding target	Species composition: Typical species	Habitat representativity improved	Species composition
MT14_SSCO_04c	Improve future prospects of Habitat 92D0 through the corresponding targets	Pressures and threats: Human disturbance (Trampling)	Trampling within areas supporting Habitat 92D0 is non-significant	Area of habitat showing signs of trampling
MT14_SSCO_04d		Pressures & threats: Coastal erosion	Coastal erosion mitigated	Habitat area (in hectares)

92D0 - Southern riparian galleries and thickets (<i>Nerio-Tamaricetea</i> and <i>Securinegion tinctoriae</i>)					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT14_CM_04a	Planting of <i>Vitex agnus-castus</i> to improve representativity of Habitat 92D0	Manage native species (incl. non-Directive species) (MS04)	Number of specimens planted, success rate	Short-term	ERA, AM / NGO
MT14_CM_04b	Planting of <i>Nerio-Tamaricetea</i> species to increase the current surface area occupied by this habitat		Number of typical species (species list), number of specimens planted and success rate	Medium-term	ERA, AM / NGO

92D0 - Southern riparian galleries and thickets (<i>Nerio-Tamaricetea</i> and <i>Securinegion tinctoriae</i>)					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT14_CM_04c	Delineation of an official footpath for visitor management to control access and reduce trampling within areas supporting Habitat 92D0	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	Demarcation of footpath	Medium-term	ERA, AM / NGO
MT14_CM_04d	Evaluate recommendations outlined from the LIFE IP (Action C.13) study which aim to mitigate coastal erosion processes and implement as necessary	Management of habitats (others than agriculture and forest) to slow, stop or reverse natural processes that occur without direct or indirect influence from human activities or climate change (MM01)	Trend in coastal erosion rate	Medium-term	ERA, AM / NGO



L-INĦAWI TAL-GĦADIRA

MT0000015 (SAC/SPA)

Designation Area: **97.74 ha**

ANNEX I HABITATS

- Coastal lagoons (**Habitat 1150***)
- *Salicornia* and other annuals colonising mud and sand (**Habitat 1310**)
- Mediterranean salt meadows (*Juncetalia maritimi*) (**Habitat 1410**)
- Mediterranean and thermo-Atlantic halophilous scrubs (*Sarcocornetea fruticosi*) (**Habitat 1420**)
- *Crucianellion maritimae* fixed beach dunes (**Habitat 2210**)
- Dunes with *Euphorbia terracina* (**Habitat 2220**)
- West Mediterranean clifftop phrygas (*Astragalo-Plantagnetum subulatae*) (**Habitat 5410**)
- Pseudo-steppe with grasses and annuals of the *Thero-Brachypodietea* (**Habitat 6220***)
- Southern riparian galleries and thickets (*Nerio-Tamaricetea* and *Securinegion tinctoriae*) (**Habitat 92D0**)
- Mediterranean pine forests with endemic Mesogean pines (**Habitat 9540**)

ANNEX II SPECIES

- *Anacamptis urvilleana*
- *Aphanius fasciatus*
- *Brachytrupes megacephalus*
- *Myotis punicus*
- *Ophrys melitensis*
- *Rhinolophus hipposideros*
- *Zamenis situla*

BIRDS

A number of regularly breeding birds are recorded at 'L-Inħawi tal-Għadira'.

Figure 16: Habitat map of 'L-Inħawi tal-Għadira - excluding Habitat 6220*

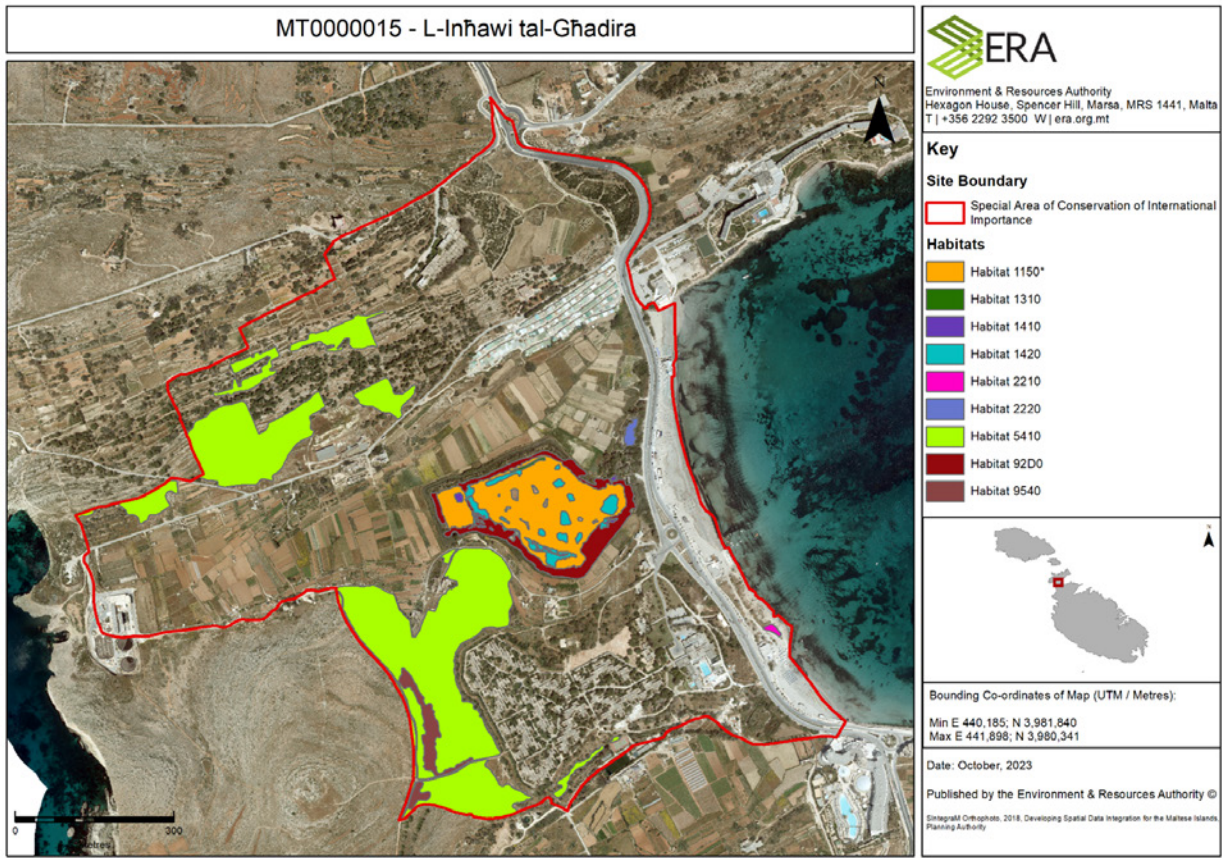


Figure 17: Habitat map of 'L-Inħawi tal-Għadira' - excluding Habitat 5410 & 9540

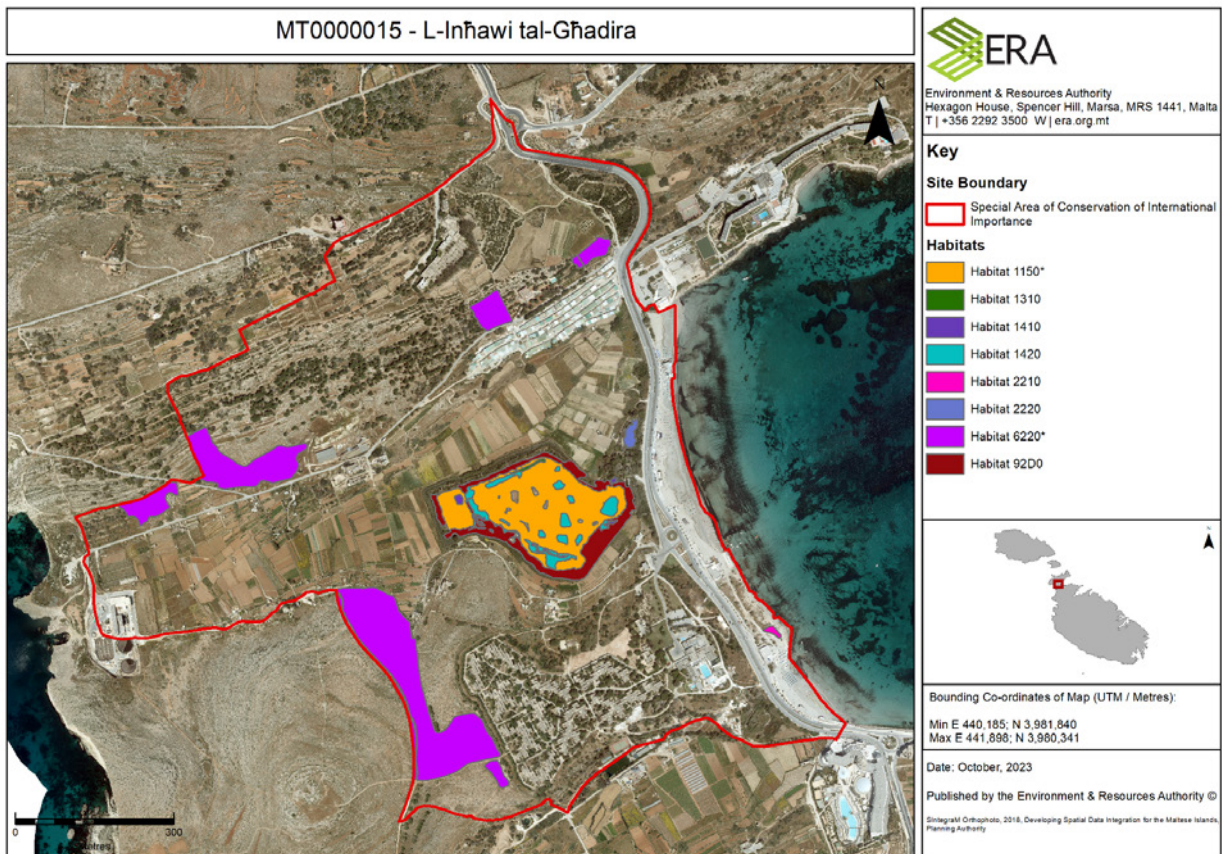
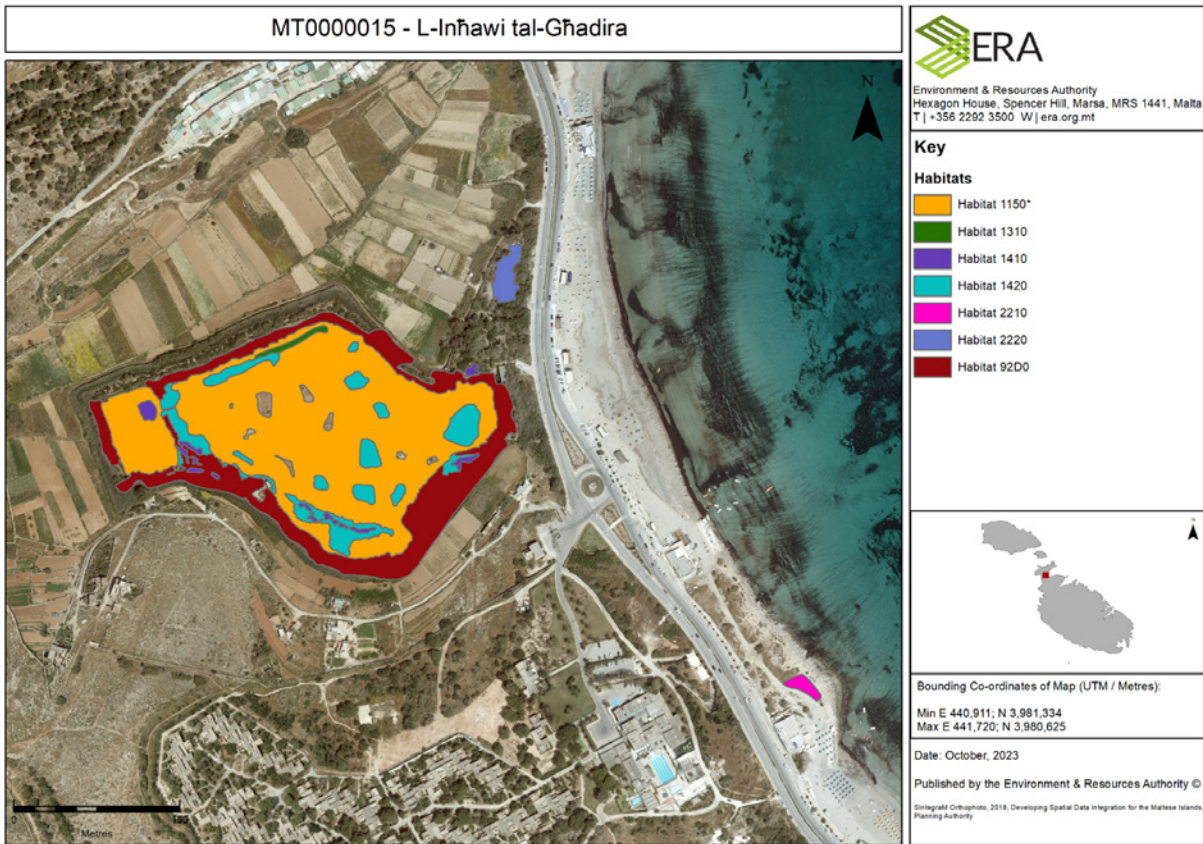


Figure 18: Habitat map of the wetland and sand dune habitats at 'L-Inħawi tal-Għadira'



HABITAT ASSESSMENT

Table 16: Habitat types of Annex I of Council Directive 92/43/EEC present on site

Habitat Code	Habitat Name	Cover	Data Quality	Site assessment				Pressures relevant to the Natura 2000 site
				Representativity	Relative Surface	Conservation	Global	
1150*	Coastal lagoons	3.3 ha	G	B	A	A	B	PF05 - Sports, tourism and leisure activities
1310	<i>Salicornia</i> and other annuals colonising mud and sand	0.03 ha	G	B	B	A	B	PI01 - Invasive alien species of Union concern
1410	Mediterranean salt meadows (<i>Juncetalia maritimi</i>)	0.08 ha	G	B	B	A	B	PI02 - Other invasive alien species (other than species of Union concern)
1420	Mediterranean and thermo-Atlantic halophilous scrubs (<i>Sarcocornetea fruticosi</i>)	0.5 ha	G	B	A	B	B	PL05 - Modification of hydrological flow
2210	<i>Crucianellion maritimae</i> fixed beach dunes	0.03 ha	G	C	B	C	C	PM07 - Natural processes without direct or indirect influence from human activities or climate change
2220	Dunes with <i>Euphorbia terracina</i>	0.08 ha	G	C	A	C	C	

Habitat Code	Habitat Name	Cover	Data Quality	Site assessment				Pressures relevant to the Natura 2000 site
				Representativity	Relative Surface	Conservation	Global	
5410	West Mediterranean clifftop phrygas (<i>Astragalo-Plantaginietum subulatae</i>)	12.6 ha	G	B	C	B	B	PF05 - Sports, tourism and leisure activities PI01 - Invasive alien species of Union concern
6220*	Pseudo-steppe with grasses and annuals of the <i>Thero-Brachypodietea</i>	5.6 ha	G	A	C	A	A	PI02 - Other invasive alien species (other than species of Union concern)
92D0	Southern riparian galleries and thickets (<i>Nerio-Tamaricetea</i> and <i>Securinegion tinctoriae</i>)	1.3 ha	G	C	B	C	C	PL05 - Modification of hydrological flow PM07 - Natural processes without direct or indirect influence from human activities or climate change
9540	Mediterranean pine forests with endemic Mesogean pines	0.5 ha	G	B	C	C	C	

SPECIES ASSESSMENT

Table 17: Species listed in Annex II of Directive 92/43/EEC present on site

Species Code	Species Name	Population size	Data Quality	Site assessment				Pressures relevant to the Natura 2000 site
				Population	Conservation	Isolation	Global	
1152	<i>Aphanius fasciatus</i>	/	DD	A	B	A	B	PF05 - Sports, tourism and leisure activities
1303	<i>Rhinolophus hipposideros</i>	3 individuals	G	C	C	A	C	PF12 - Residential, commercial and industrial activities and structures generating noise, light, heat or other forms of pollution
4047	<i>Brachytrupes megacephalus</i>	/	DD	C	C	A	C	PI01 - Invasive alien species of Union concern
4102	<i>Anacamptis urvilleana</i>	2 grid cells (1x1 km)	G	C	B	A	C	PI02 - Other invasive alien species (other than species of Union concern)
4105	<i>Ophrys melitensis</i>	2 grid cells (1x1 km)	G	C	B	A	C	PL05 - Modification of hydrological flow
5005	<i>Myotis punicus</i>	1 individual	G	C	C	A	C	PM07 - Natural processes without direct or indirect influence from human activities or climate change
6095	<i>Zamenis situla</i>	/	DD	C	C	A	C	

1150* - COASTAL LAGOONS

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of this habitat type within this site by 2030:

1150* - Coastal lagoons				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT15_SSCO_01a	Maintain the extent of Habitat 1150* through the corresponding target	Area covered by the habitat type	Area stable at 3.3 ha	Habitat area (in hectares)
MT15_SSCO_01b	Maintain the structure and function of Habitat 1150* through the corresponding targets	Hydrological regime: Water flow and water level fluctuations	Water level maintained as a result of a fully-functional sluice and culvert system	Water level
MT15_SSCO_01c			Land-sea interface connectivity maintained	Water flow
MT15_SSCO_01d		Species composition: Typical species	The presence of typical species associated with Habitat 1150* within the site is maintained	Species composition

1150* - Coastal lagoons					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT15_CM_01a	Operation and maintenance of the sluice and culvert system at the land- sea interface to regulate water levels in the lagoon	Reduce impact of multi- purpose hydrological changes (MK02)	Operation and maintenance of the sluice and culvert system	Ongoing	ERA, AM / NGO
MT15_CM_01b	Cleaning and maintenance of interconnected channels at the land- sea interface to maintain the hydrological regime of the lagoon		Number of yearly interventions	Ongoing	ERA, AM / NGO

The lagoon at 'L-Ghadira' is currently subject to increasing trends in salinity, also as a result of reduced rainfall. Such increasing trends in salinity may potentially affect the flora and fauna associated with Habitat 1150*. An operational objective is being put forward to assess the hydrology of the site and its wider catchment area, identify and implement mitigation measures, including any potential engineering works and/or regular artificial recharges that would enable improved water flows and stabilisation of salinity levels to reach optimal conditions.

Operational Objective	MT15_OO_01_Assess the hydrology of the site and its wider catchment area, to identify and implement mitigation measures, as deemed necessary
Lead/supporting parties	ERA
Timeframe	Long-term

1310 - SALICORNIA AND OTHER ANNUALS COLONISING MUD AND SAND

The following site-specific conservation objectives shall seek to maintain the conservation status of this habitat type within this site by 2030:

1310 - <i>Salicornia</i> and other annuals colonising mud and sand				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT15_SSCO_02a	Maintain the extent of Habitat 1310 through the corresponding target	Area covered by the habitat type	Area stable at 0.03 ha or increasing through natural regeneration	Habitat area (in hectares)
MT15_SSCO_02b	Maintain the structure and function of Habitat 1310 through the corresponding target	Species composition: Typical species	The presence of typical species associated with Habitat 1310 within the site is maintained	Species composition

1410 - MEDITERRANEAN SALT MEADOWS (*Juncetalia maritimi*)

The following site-specific conservation objectives shall seek to maintain the conservation status of this habitat type within this site by 2030:

1410 - Mediterranean salt meadows (<i>Juncetalia maritimi</i>)				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT15_SSCO_03a	Maintain the extent of Habitat 1410 through the corresponding target	Area covered by the habitat type	Area stable at 0.08 ha or increasing through natural regeneration	Habitat area (in hectares)
MT15_SSCO_03b	Maintain the structure and function of Habitat 1410 through the corresponding target	Species composition: Typical species	The presence of typical species associated with Habitat 1410 within the site is maintained	Species composition

1420 - MEDITERRANEAN AND THERMO-ATLANTIC HALOPHILOUS SCRUBS (*Sarcocornetea fruticosi*)

The following site-specific conservation objectives shall seek to maintain the conservation status of this habitat type within this site by 2030:

1420 - Mediterranean and thermo-Atlantic halophilous scrubs (<i>Sarcocornetea fruticosi</i>)				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT15_SSCO_04a	Maintain the extent of Habitat 1420 through the corresponding target	Area covered by the habitat type	Area stable at 0.5 ha or increasing through natural regeneration	Habitat area (in hectares)
MT15_SSCO_04b	Maintain the structure and function of Habitat 1420 through the corresponding target	Species composition: Typical species	The presence of typical species associated with Habitat 1420 within the site is maintained	Species composition

2210 - *CRUCIANELLION MARITIMAE* FIXED BEACH DUNES

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this habitat type within this site by 2030:

2210 - <i>Crucianellion maritimae</i> fixed beach dunes				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT15_SSCO_05a	Maintain the extent of Habitat 2210 through the corresponding target	Area covered by the habitat type	Area stable at 0.03 ha or increasing through natural regeneration	Habitat area (in hectares)
MT15_SSCO_05b	Improve the structure and function of Habitat 2210 through the corresponding target	Species composition: Typical species	Habitat representativity improved	Species composition
MT15_SSCO_05c	Improve future prospects for Habitat 2210 through the corresponding target	Pressures and threats: Human Disturbance (Trampling)	Trampling within areas supporting Habitat 2210 is non- significant	Area of habitat showing signs of trampling

2210 - <i>Crucianellion maritimae</i> fixed beach dunes					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT15_CM_05a	Planting of <i>Cyperus capitatus</i> to improve representativity of Habitat 2210	Manage native species (incl. non- Directive species) (MS04)	Number of specimens/ seeds planted, success rate	Short-term	ERA, AM
MT15_CM_05b	Removal of ruderal species, mainly <i>Malva arborea</i> , to improve representativity of Habitat 2210		% area of ruderal species removed	Short-term	ERA, AM
MT15_CM_05c	Installation of cordoning and educational signage to reduce trampling within the area supporting Habitat 2210	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	Cordoning/ Signage installed	Short-term	ERA, AM

2220 - DUNES WITH EUPHORBIA TERRACINA

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this habitat type within this site by 2030:

2220 - Dunes with <i>Euphorbia terracina</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT15_SSCO_06a	Increase the extent of Habitat 2220 through the corresponding target	Area covered by the habitat type	50 % increase in the area of Habitat 2220	Habitat area (in hectares)
MT15_SSCO_06b	Improve the structure and function of Habitat 2220 through the corresponding targets	Species composition: Typical species	Habitat representativity improved	Species composition
MT15_SSCO_06c		Species composition: Invasive alien plant species	Area occupied by invasive alien species is non- significant	Area of habitat occupied by invasive alien species
MT15_SSCO_06d	Maintain future prospects for Habitat 2220 through the corresponding target	Pressures and threats: Human Disturbance (Trampling)	Trampling within areas supporting Habitat 2220 is non-significant	Area of habitat showing signs of trampling

2220 - Dunes with <i>Euphorbia terracina</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT15_CM_06a	Removal of invasive alien species, mainly <i>Acacia saligna</i> , <i>Arundo donax</i> and <i>Eucalyptus</i> sp., from the area surrounding Habitat 2220 to allow for the expansion of the habitat	Management, control or eradication of established invasive alien species of Union concern (MI02) Management, control or eradication of other invasive alien species (MI03)	% area of invasive alien species removed	Long-term	ERA, AM / NGO
MT15_CM_06b	Planting/seeding of <i>Ambrosia maritima</i> , <i>Cyperus capitatus</i> , <i>Echinophora spinosa</i> and <i>Scolymus hispanicus</i> to improve representativity of Habitat 2220	Manage native species (incl. non-Directive species) (MS04)	Number of typical species (species list), number of specimens/ seeds planted, success rate	Short-term	ERA, AM / NGO
MT15_CM_06c	Planting/seeding of typical sand dune species within areas previously occupied by invasive alien species to increase the current surface area occupied by this habitat type		Number of typical species (species list), number of specimens/ seeds planted, success rate	Short-term	ERA, AM / NGO
MT15_CM_06d	Removal of atypical tree species, mainly <i>Olea europea</i> and <i>Pinus halepensis</i> , from the immediate vicinity of Habitat 2220 to allow for the expansion of the habitat		Number of trees removed	Short-term	ERA, AM / NGO
MT15_CM_06e	Installation of non-intrusive educational signage and retention of existing footpath to reduce trampling within areas supporting Habitat 2220	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	Signage installed/ Existing footpath retained	Short-term/ Ongoing	ERA, AM / NGO

The foredunes at Ghadira are currently occupied by invasive alien plant species, mainly *Acacia saligna* and *Arundo donax*. Restoration of this habitat is possible through the removal of these invasive species, followed by planting/seeding of species typical of the foredune, which are representative of Embryonic shifting dunes (Habitat 2110). In view of this, site-specific conservation objectives and measures have been included.

SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT15_SSCO_07a	Restore the foredunes by the planting of species typical of Habitat 2110	Species composition: Invasive alien plant species	Invasive alien species cover within areas identified for restoration is non-significant	Percentage cover
MT15_SSCO_07b		Species composition: Typical species	Established populations of flora typical of Habitat 2110 within areas identified for restoration	Species composition
MT15_SSCO_07c		Pressures and threats: Human Disturbance (Trampling)	Trampling within the restored sand dune area is non-significant	Area of habitat showing signs of trampling

Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT15_CM_07a	Removal of invasive alien species, mainly <i>Acacia saligna</i> and <i>Arundo donax</i> , to restore the sand dune area	Management, control or eradication of established invasive alien species of Union concern (MI02) Management, control or eradication of other invasive alien species (MI03)	% area of invasive alien species removed	Long-term	ERA, AM / NGO

Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT15_CM_07b	Planting/seeding of <i>Ammophila arenaria</i> , <i>Eryngium maritimum</i> , <i>Elytrigia juncea</i> and <i>Pancremium maritimum</i> in areas previously occupied by invasive alien species to introduce Habitat 2110 within the site	Manage native species (incl. non-Directive species) (MS04)	Number of typical species (species list), number of specimens/ seeds planted, success rate	Long-term	ERA, AM / NGO
MT15_CM_07c	Installation of fencing to limit access and reduce trampling within the restored sand dune area	Reduce impact of outdoor sports, leisure and recreational activities (incl. restoration of habitats) (MF03)	Fencing installed	Long-term	ERA, AM / NGO

5410 - WEST MEDITERRANEAN CLIFFTOP PHRYGANAS (*ASTRAGALO-PLANTAGINETUM SUBULATAE*)

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this habitat type within this site by 2030:

5410 - West Mediterranean clifftop phryganas (<i>Astragalo-Plantaginetum subulatae</i>)				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT15_SSCO_08a	Maintain the extent of Habitat 5410 through the corresponding target	Area covered by the habitat type	Area stable at 12.6 ha or increasing through natural regeneration	Habitat area (in hectares)
MT15_SSCO_08b	Improve the structure and function of Habitat 5410 through the corresponding targets	Species composition: Typical species	The presence of typical species associated with Habitat 5410 within the site is maintained	Species composition
MT15_SSCO_08c		Species composition: Invasive alien plant species	Area occupied by Invasive alien species cover does not exceed 5% of the habitat area	Area of habitat occupied by invasive alien species

5410 - West Mediterranean clifftop phrygas (*Astragalo-Plantaginetum subulatae*)

Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT15_CM_08a	Removal of invasive alien species, mainly <i>Acacia saligna</i> , from areas supporting Habitat 5410, while preventing their introduction	Management, control or eradication of established invasive alien species of Union concern (MI02)	% area of invasive alien species removed	Long-term	ERA, AM

The afforested areas adjacent to Habitat 5410 are impacted by invasive alien plant species. Site- specific conservation objectives and measures were thus included to prevent the spread of such species on areas supporting Habitat 5410.

SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT15_SSCO_09a	Removal of invasive alien species from afforested areas adjacent to Habitat 5410	Pressures and threats: Invasive alien plant species	30 % reduction in area occupied by invasive alien species	Area occupied by invasive alien species

Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT15_CM_09a	Removal of invasive alien species, mainly <i>Acacia saligna</i> and <i>Opuntia ficus-indica</i> , from areas adjacent to Habitat 5410, while preventing their introduction	Management, control or eradication of established invasive alien species of Union concern (MI02) Management, control or eradication of other invasive alien species (MI03)	% area of invasive alien species removed	Long-term	ERA, AM

6220* - PSEUDO-STEPPE WITH GRASSES AND ANNUALS OF THE *THERO-BRACHYPODIETEA*

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of this habitat type within this site by 2030:

6220* - Pseudo-steppe with grasses and annuals of the <i>Thero-Brachypodietea</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT15_SSCO_10a	Maintain the extent of Habitat 6220* through the corresponding target	Area covered by the habitat type	Area stable at 6 ha or increasing through natural regeneration	Habitat area (in hectares)
MT15_SSCO_10b	Improve the structure and function of Habitat 6220* through the corresponding targets	Species composition: Typical species	The presence of typical species associated with Habitat 6220* within the site is maintained	Species composition
MT15_SSCO_10c		Species composition: Invasive alien plant species	Area occupied by invasive alien species is non-significant	Area of habitat occupied by invasive alien species

6220* - Pseudo-steppe with grasses and annuals of the <i>Thero-Brachypodietea</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT15_CM_10a	Removal of invasive alien species, mainly <i>Acacia saligna</i> , from areas supporting Habitat 6220*, while preventing their introduction	Management, control or eradication of established invasive alien species of Union concern (MI02)	% area of invasive alien species removed	Long-term	ERA, AM

92D0 - SOUTHERN RIPARIAN GALLERIES AND THICKETS (*NERIO-TAMARICETEA* AND *SECURINEGION TINCTORIAE*)

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this habitat type within this site by 2030:

92D0 - Southern riparian galleries and thickets (<i>Nerio-Tamaricetea</i> and <i>Securinegion tinctoriae</i>)				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT15_SSCO_11a	Maintain the extent of Habitat 92D0 through the corresponding target	Area covered by the habitat type	Area stable at 1.3 ha or increasing through natural regeneration	Habitat area (in hectares)
MT15_SSCO_11b	Improve the structure and function of Habitat 92D0 through the corresponding targets	Species composition: Typical species	Habitat representativity improved	Species composition
MT15_SSCO_11c		Species composition: Invasive alien plant species	Area occupied by invasive alien species is non-significant	Area of habitat occupied by invasive alien species

92D0 - Southern riparian galleries and thickets (<i>Nerio-Tamaricetea</i> and <i>Securinegion tinctoriae</i>)					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT15_CM_11a	Removal of invasive alien species, mainly <i>Arundo donax</i> , from areas supporting Habitat 92D0, while preventing their introduction	Management, control or eradication of other invasive alien species (MIO3)	% area of invasive alien species removed	Long-term	ERA, AM / NGO
MT15_CM_11b	Planting of <i>Vitex agnus-castus</i> to improve representativity of Habitat 92D0	Manage native species (incl. non-Directive species) (MS04)	Number of specimens planted, success rate	Short-term	ERA, AM / NGO

9540 - MEDITERRANEAN PINE FORESTS WITH ENDEMIC MESOGEAN PINES

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this habitat type within this site by 2030:

9540 - Mediterranean pine forests with endemic Mesogean pines					
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement	
MT15_SSCO_12a	Maintain the extent of Habitat 9540 through the corresponding target	Area covered by the habitat type	Area stable at 0.5 ha or increasing through natural regeneration	Habitat area (in hectares)	
MT15_SSCO_12b	Improve the structure and function of Habitat 9540 through the corresponding targets	Species composition: Typical species	The presence of typical species associated with Habitat 9540 within the site is maintained	Species composition	
MT15_SSCO_12c		Species composition: Invasive alien plant species	Area occupied by invasive alien species is non-significant	Area of habitat occupied by invasive alien species	
9540 - Mediterranean pine forests with endemic Mesogean pines					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT15_CM_12a	Removal of invasive alien species, mainly <i>Acacia saligna</i> , from areas supporting Habitat 9540, while preventing their introduction	Management, control or eradication of established invasive alien species of Union concern (MI02)	% area of invasive alien species removed	Long-term	ERA, AM

ANACAMPTIS URVILLEANA AND OPHRYS MELITENSIS

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of these species within this site by 2030:

<i>Anacamptis urvilleana</i> and <i>Ophrys melitensis</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT15_SSCO_13a	Maintain the distribution of <i>Anacamptis urvilleana</i> through the corresponding target	Distribution	No decline in species distribution	Occurrence
MT15_SSCO_13b	Maintain the distribution of <i>Ophrys melitensis</i> through the corresponding target	Distribution	No decline in species distribution	Occurrence
MT15_SSCO_13c	Maintain the extent of Habitat 5410 supporting <i>Anacamptis urvilleana</i> and <i>Ophrys melitensis</i> through the corresponding target	Extent of habitat for the species	Area of Habitat 5410 is stable at 12.6 ha or increasing through natural regeneration	Area covered by the species' habitat (in hectares)
MT15_SSCO_13d	Improve the condition of Habitat 5410 supporting <i>Anacamptis urvilleana</i> and <i>Ophrys melitensis</i> through the corresponding target	Habitat condition	The condition of the Habitat 5410 is suitable for the species	Habitat condition

<i>Anacamptis urvilleana</i> and <i>Ophrys melitensis</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT15_CM_13a	Implementation of the conservation measures listed under Habitat 5410 to improve the condition of the habitat supporting <i>Anacamptis urvilleana</i> and <i>Ophrys melitensis</i>	Restoration of habitat of species from the directives (MS03)	Implementation of measures listed for Habitat 5410	Long-term	ERA, AM

APHANIUS FASCIATUS

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of this species within this site by 2030:

<i>Aphanius fasciatus</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT15_SSCO_14a	Maintain the extent of Habitat 1150* supporting <i>Aphanius fasciatus</i> through the corresponding target	Extent of habitat for the species	Area of Habitat 1150* is stable at 3.3 ha	Area covered by the species' habitat (in hectares)
MT15_SSCO_14b	Maintain the condition of Habitat 1150* supporting <i>Aphanius fasciatus</i> through the corresponding target	Habitat condition	The condition of Habitat 1150* is suitable to maintain the distribution and population size of the species	Habitat condition

<i>Aphanius fasciatus</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT15_CM_14a	Continue with the ex-situ conservation of the <i>Aphanius fasciatus</i> present at Ghadira, to preserve its distinct genetic stock	Reinforce populations of species from the directives (MS01)	Number of individuals present in ex- situ	Ongoing	ERA, AM / NGO
MT15_CM_14b	Implementation of the conservation measures listed under Habitat 1150* to maintain the condition of the habitat supporting <i>Aphanius fasciatus</i>	Restoration of habitat of species from the directives (MS03)	Implementation of measures listed for Habitat 1150*	Ongoing	ERA, AM / NGO

The current data available on the population size of *Aphanius fasciatus* within this site is limited. Thus, an operational objective to address this current knowledge gap is being put forward. This would then enable the elaboration of further SSCOs for the species.

Operational Objective	MT15_OO_02_ Undertake a study to improve knowledge on the distribution and population size of <i>Aphanius fasciatus</i> within the site
Lead/supporting parties	ERA
Timeframe	Short-term

BRACHYTRUPES MEGACEPHALUS

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this species within this site by 2030:

<i>Brachytrupes megacephalus</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT15_SSCO_15a	Increase the extent of Habitat 2220 supporting <i>Brachytrupes megacephalus</i> through the corresponding target	Extent of habitat for the species	50 % increase in the area of Habitat 2220	Area covered by the species' habitat (in hectares)
MT15_SSCO_15b	Improve the condition of Habitat 2220 supporting <i>Brachytrupes megacephalus</i> through the corresponding target	Habitat condition	The condition of Habitat 2220 is suitable for the species	Habitat condition
MT15_SSCO_15c	Improve future prospects for <i>Brachytrupes megacephalus</i> through the corresponding target	Pressures and threats: Predation	Predation by feral cats is reduced within the wetland area	Feral cat activity

<i>Brachytrupes megacephalus</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT15_CM_15a	Implementation of the conservation measures listed under Habitat 2220 to improve the condition of the habitat supporting <i>Brachytrupes megacephalus</i>	Restoration of habitat of species from the directives (MS03)	Implementation of measures listed for Habitat 2220	Various	ERA, AM
MT15_CM_15b	Neutering/ relocation of feral cats present within the wetland area	Management, control or eradication of other invasive alien species (MI03)	% decrease in feral cat activity	Ongoing	ERA, AM

The current data available on the population size of *Brachytrupes megacephalus* within this site is limited. Thus, an operational objective to address this current knowledge gap is being put forward. This would then enable the elaboration of further SSCOs for the species.

Operational Objective	MT15_OO_03_ Undertake a study to improve knowledge on the distribution and population size of <i>Brachytrupes megacephalus</i> within the site
Lead/supporting parties	ERA
Timeframe	Short-term

MYOTIS PUNICUS AND RHINOLOPHUS HIPPOSIDEROS

The following site-specific conservation objectives and measures shall seek to restore the conservation status of these species within this site by 2030:

<i>Myotis punicus</i> and <i>Rhinolophus hipposideros</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT15_SSCO_16a	Maintain the distribution and population size of <i>Myotis punicus</i> through the corresponding targets	Distribution	No decline in species distribution	Number of roosting sites
MT15_SSCO_16b		Population size	Population size stable or showing positive trends	Number of individuals
MT15_SSCO_16c	Maintain the distribution and population size of <i>Rhinolophus hipposideros</i> through the corresponding targets	Distribution	No decline in species distribution within the roosting sites	Extent of roosting sites occupied by the species (in hectares)
MT15_SSCO_16d		Population size	Population size stable or showing positive trends	Number of individuals
MT15_SSCO_16e	Improve future prospects for <i>Myotis punicus</i> and <i>Rhinolophus hipposideros</i> through the corresponding target	Pressures and threats: Human disturbance (Works or activities)	Works or activities are carried out in full respect of the conservation requirements of the Natura 2000 site and in line with ERA's assessment/permit conditions, as relevant	Level of compliance with ERA's assessment/permit conditions

<i>Myotis punicus and Rhinolophus hipposideros</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT15_ CM_16a	Restoration or maintenance works undertaken on the shelters/tunnels that are used by bats as roosting places, are only undertaken following a survey of the site and according to ERA's conditions	Other measures related to residential, commercial, industrial and recreational infrastructures , operations and activities (MF10)	Restoration/ maintenance projects in line with ERA's proposed conditions	Ongoing	ERA
MT15_ CM_16b	Works or activities proposed within the vicinity of areas hosting bat roosting sites are assessed and any preventive/ mitigation measures to reduce bat disturbance are adopted accordingly	Reduce/ eliminate pollution (incl. noise, light, heat, soil pollution) from industrial, commercial, residential and recreational areas and activities (MF07)	Works or activities in line with ERA's proposed conditions	Ongoing	ERA
MT15_ CM_16c	New developments proposed within and in the vicinity of the site are assessed with respect to potential light pollution, and any preventive/ mitigation measures to reduce bat disturbance are adopted accordingly		Light levels in line with ERA's proposed conditions	Ongoing	ERA

ZAMENIS SITULA

Limited data is available on the distribution and population size of *Zamenis situla* within this site. Thus, an operational objective to address this current knowledge gap is being put forward. This would then enable the elaboration of SSCOs for this species.

Operational Objective	MT15_OO_04_Undertake a study to improve knowledge on the distribution and population size of <i>Zamenis situla</i> within the site
Lead/supporting parties	ERA
Timeframe	Short-term

BIRDS

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of these species within this site by 2030:

Birds				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT15_SSCO_17a	Maintain the total extent of habitats present within the wetland area supporting regularly breeding birds through the corresponding target	Extent of habitats for the species	The total area of habitats present within the wetland area is maintained for regularly breeding bird species	Area covered by the habitats (in hectares)
MT15_SSCO_17b	Improve the condition of the habitats present within the wetland area supporting regularly breeding birds through the corresponding target	Habitats' condition	The condition of the habitats within the wetland area is suitable for regularly breeding bird species	Habitats' condition

Birds				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT15_SSCO_17c	Improve future prospects for regularly breeding birds through the corresponding targets	Pressures and threats: Predation	Predation by rodents is reduced	Rodent activity
MT15_SSCO_17d			Predation by feral cats is reduced	Feral cat activity
MT15_SSCO_17e		Pressures and threats: Human disturbance (Works or activities)	Works or activities are carried out in full respect of the conservation requirements of the Natura 2000 site and in line with ERA's assessment/ permit conditions, as relevant	Level of compliance with ERA's assessment/ permit conditions

Birds					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT15_CM_17a	Continuation of rat control efforts to ensure that the rodent population is controlled within the wetland area	Management, control or eradication of other invasive alien species (MIO3)	% decrease in rodent activity Number of stations in place	Ongoing	ERA, AM / NGO
MT15_CM_17b	Neutering/ relocation of feral cats present within the wetland area		% decrease in feral cat population	Ongoing	ERA, AM

Birds					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT15_CM_17c	New developments proposed within and in the vicinity of the site are assessed with respect to potential light pollution, and any preventive/ mitigation measures to reduce disturbance to birds are adopted accordingly	Reduce/ eliminate pollution (incl. noise, light, heat, soil pollution) from industrial, commercial, residential and recreational areas and activities (MF07)	Light levels in line with ERA's proposed conditions	Ongoing	ERA
MT15_CM_17d	Works and activities proposed within and in the vicinity of the site are assessed, and any preventive/ mitigation measures to reduce disturbance to birds are adopted accordingly		Works or activities in line with ERA's proposed conditions	Ongoing	ERA
MT15_CM_17e	Establishing new artificial nesting sites and retention of existing ones	Restoration of habitat of species from the directives (MS03)	Existing artificial nesting sites retained Number of artificial nesting sites set up Number of nesting sites occupied	Short-term/ Ongoing	ERA, AM
MT15_CM_17f	Implementation of the conservation measures listed for the habitat types present within the wetland area to improve the condition of the habitats supporting regularly breeding birds		Implementation of measures listed for the habitat types present within the site	Various	ERA, AM



FILFLA U L-GŻEJJER TA' MADWARHA

MT0000016 (SAC/SPA)

Designation Area: **6.58 ha**

ANNEX I HABITATS

- Calcareous rocky slopes with chasmophytic vegetation (**Habitat 8210**)

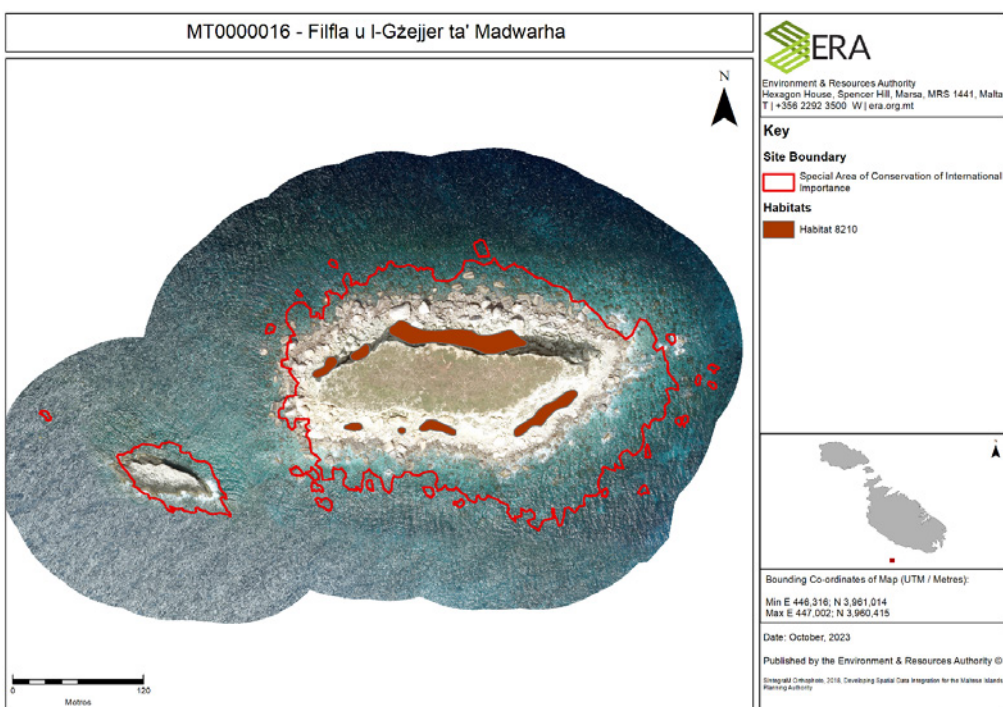
ANNEX II SPECIES

- *Lampedusa imitatrix gattoi*

ANNEX I BIRD SPECIES

- *Calonectris diomedea*
- *Hydrobates pelagicus*

Figure 19: Habitat map of 'Filfla u l-Gzejjer ta' Madwarha'



HABITAT ASSESSMENT

Table 18: Habitat types of Annex I of Council Directive 92/43/EEC present on site

Habitat Code	Habitat Name	Cover	Data Quality	Site assessment				Pressures relevant to the Natura 2000 site
				Representativity	Relative Surface	Conservation	Global	
8210	Calcareous rocky slopes with chasmophytic vegetation	0.3 ha	G	B	C	A	B	PM07 - Natural processes without direct or indirect influence from human activities or climate change

SPECIES ASSESSMENT

Table 19: Species listed in article 4 Directive 2009/147/EC and Annex II of Directive 92/43/EEC present on site

Species Code	Species Name	Population size	Data Quality	Site assessment				Pressures relevant to the Natura 2000 site
				Population	Conservation	Isolation	Global	
4060	<i>Lampedusa imitatatrix gattoi</i>	/	DD	C	B	A	C	PM07 - Natural processes without direct or indirect influence from human activities or climate change
A010	<i>Calonectris diomedea</i>	150 - 200 breeding pairs	G	B	B	C	B	
A014	<i>Hydrobates pelagicus</i>	11,000 - 12,000 breeding pairs	G	A	B	C	B	

8210 - CALCAREOUS ROCKY SLOPES WITH CHASMOPHYTIC VEGETATION

The following site-specific conservation objectives shall seek to maintain the conservation status of this habitat type within this site by 2030:

8210 - Calcareous rocky slopes with chasmophytic vegetation				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT16_SSCO_01a	Maintain the extent of Habitat 8210 in the site through the corresponding target	Area covered by the habitat type	Area stable at 0.3 ha or increasing through natural regeneration	Habitat area (in hectares)
MT16_SSCO_01b	Maintain the structure and function of Habitat 8210 through the corresponding target	Species composition: Typical species	The presence of typical species associated with Habitat 8210 within the site is maintained	Species composition
MT16_SSCO_01c	Maintain the future prospects of Habitat 8210 through the corresponding target	Pressures and threats: Human Disturbance (Access)	Access to the site restricted solely to permitted scientific research and monitoring activities	Access (permitted/ not permitted)

8210 - Calcareous rocky slopes with chasmophytic vegetation					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT16_CM_01a	Restriction of access to the islets except for authorised visits related to essential scientific research and monitoring of the islet's habitats and species	Reduce impact of outdoor sports, leisure and recreational activities (MF03)	Restriction of access	Ongoing	ERA

LAMPEDUSA IMITATRIX GATTOI

The population of *Lampedusa imitatrix gattoi* on Filfla was quite numerous in the past, but has been reported as declining. An operational objective is being put forward to improve knowledge on the current distribution and population size of *Lampedusa imitatrix gattoi* within the site. This would then enable the elaboration of SSCOs for this species.

Operational Objective	MT16_OO_01_Undertake a study to improve knowledge on the distribution and population size of <i>Lampedusa imitatrix gattoi</i> within the site
Lead/supporting parties	ERA
Timeframe	Short-term

CALONECTRIS DIOMEDEA AND HYDROBATES PELAGICUS

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of these species within this site by 2030:

<i>Calonectris diomedea</i> and <i>Hydrobates pelagicus</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT16_SSCO_02a	Maintain the breeding distribution and population size of <i>Calonectris diomedea</i> through the corresponding targets	Breeding Distribution	Breeding distribution remains stable at approximately 1500 m along the coastline, with no loss of breeding sites	Extent of coastline occupied by breeding colonies
MT16_SSCO_02b		Breeding Population	Breeding population remains stable at 150 - 200 breeding pairs or shows positive trends	Estimates of breeding Pairs
MT16_SSCO_02c	Maintain the breeding distribution and population size of <i>Hydrobates pelagicus</i> through the corresponding targets	Breeding Distribution	Breeding distribution remains stable at approximately 1500 m along the coastline, with no loss of breeding sites	Extent of coastline occupied by breeding colonies
MT16_SSCO_02d		Breeding Population	Breeding population remains stable at 11,000 - 12,000 breeding pairs or showing positive trends	Estimates of breeding Pairs

<i>Calonectris diomedea</i> and <i>Hydrobates pelagicus</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT16_SSCO_02e	Maintain the extent of habitat supporting <i>Calonectris diomedea</i> and <i>Hydrobates pelagicus</i> through the corresponding target	Extent of habitat for the species	Area covered by the habitat for the species is stable	Area covered by the species' habitat
MT16_SSCO_02f	Maintain the condition of habitat supporting <i>Calonectris diomedea</i> and <i>Hydrobates pelagicus</i> through the corresponding target	Habitat condition	The condition of the habitat is suitable to maintain the breeding distribution and population size of the species	Habitat condition
MT16_SSCO_02g	Improve future prospects for <i>Hydrobates pelagicus</i> and <i>Calonectris diomedea</i> through the corresponding targets	Pressures and threats: Predation	Site is kept rodent- free	Rodent activity
MT16_SSCO_02h		Pressures and threats: Light Pollution	Disturbance to birds arising from light pollution is mitigated	Light intensity (Lux)

<i>Calonectris diomedea</i> and <i>Hydrobates pelagicus</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT16_CM_02a	Implementation of strict biosecurity measures to ensure that the islets are kept free from rodents	Management, control or eradication of other invasive alien species (MI03)	Rodent activity	Ongoing	ERA, AM
MT16_CM_02b	Identification of permanent sources of light pollution from coastal zone developments from the mainland and implementation of preventive/ mitigation measures to reduce risk of light-induced strandings	Reduce/ eliminate pollution (incl. noise, light, heat, soil pollution) from industrial, commercial, residential and recreational areas and activities (MF07)	Light intensity (Lux)	Medium-term	ERA

Hydrobates pelagicus is threatened through predation by the Yellow-legged Gulls (*Larus michahellis*). The interactions between the population of *Larus michahellis* and *Hydrobates pelagicus* on Filfla need to be subject to additional studies. Thus, an operational objective is being put forward. This would then enable the elaboration of further SSCOs for this species.

Operational Objective	MT16_OO_02_Systematically assess the impact of <i>Larus michahellis</i> on <i>Hydrobates pelagicus</i> and identify the need for any appropriate management measures to control the population of this species
Lead/supporting parties	ERA
Timeframe	Medium-term



IL-GŻEJJER TA' SAN PAWL (SELMUNETT)

MT0000022

Designation Area: 10.75 ha

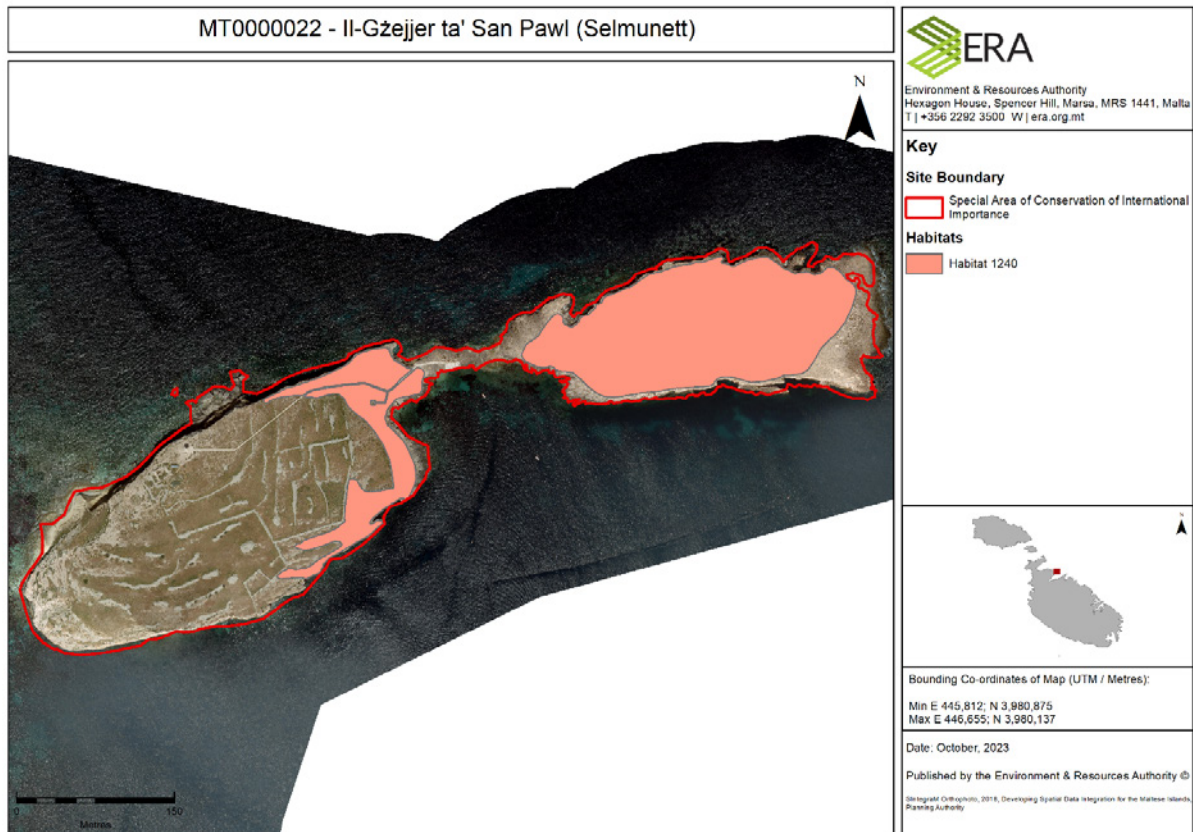
ANNEX I HABITATS

- Vegetated sea cliffs of the Mediterranean coasts with endemic *Limonium* spp. (**Habitat 1240**)

ANNEX II SPECIES

- *Linaria pseudolaxiflora*

Figure 20: Habitat map of 'Il-Gzejjer ta' San Pawl (Selmunett)'



HABITAT ASSESSMENT

Table 20: Habitat types of Annex I of Council Directive 92/43/EEC present on site

Habitat Code	Habitat Name	Cover	Data Quality	Site assessment				Pressures relevant to the Natura 2000 site
				Representativity	Relative Surface	Conservation	Global	
1240	Vegetated sea cliffs of the Mediterranean coasts with endemic <i>Limonium</i> spp.	3.6 ha	G	B	B	A	B	PF05 - Sports, tourism and leisure activities PI02 - Other invasive alien species (other than species of Union concern)

SPECIES ASSESSMENT

Table 21: Species listed in Annex II of Directive 92/43/EEC present on site

Species Code	Species Name	Population size	Data Quality	Site assessment				Pressures relevant to the Natura 2000 site
				Population	Conservation	Isolation	Global	
4114	<i>Linaria pseudolaxiflora</i>	/	DD	C	C	A	C	PF05 - Sports, tourism and leisure activities PI02 - Other invasive alien species (other than species of union concern)

1240 - VEGETATED SEA CLIFFS OF THE MEDITERRANEAN COASTS WITH ENDEMIC *LIMONIUM* SPP.

The following site-specific conservation objectives and measures shall seek to maintain the conservation status of this habitat type within this site by 2030:

1240 - Vegetated sea cliffs of the Mediterranean coasts with endemic <i>Limonium</i> spp.				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT22_SSCO_01a	Maintain the extent of Habitat 1240 through the corresponding target	Area covered by the habitat type	Area stable at 3.6 ha or increasing through natural regeneration	Habitat area (in hectares)
MT22_SSCO_01b	Improve the structure and function of Habitat 1240 through the corresponding targets	Species composition: Typical species	The presence of typical species associated with Habitat 1240 within the site is maintained	Species composition
MT22_SSCO_01c		Species composition: Invasive alien plant species	Invasive alien species within areas supporting Habitat 1240 is non- significant	Area occupied by invasive alien species
MT22_SSCO_01d	Improve future prospects of Habitat 1240 through the corresponding target	Pressures and threats: Human Disturbance (Access)	Access to the site is allowed solely to existing jetty and concrete footpath	Access (Restricted/unrestricted)

1240 - Vegetated sea cliffs of the Mediterranean coasts with endemic <i>Limonium</i> spp.					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT22_CM_01a	Allow visitor access solely to existing jetty and concrete footpath present on the main islet and installation of adequate signage to reduce trampling within areas supporting Habitat 1240	Reduce impact of outdoor sports, leisure and recreational activities (MF03)	Control of access/ Signage installed	Ongoing/ Short-term	ERA, AM

LINARIA PSEUDOLAXIFLORA

Limited data is currently available on the distribution and population size of *Linaria pseudolaxiflora* within this site. Thus, an operational objective to address this current knowledge gap is being put forward. This would then enable the elaboration of SSCOs for this species.

Operational Objective	MT22_OO_01_Undertake a study to improve knowledge on the distribution and population size of <i>Linaria pseudolaxiflora</i> within the site
Lead/supporting parties	ERA
Timeframe	Short-term

This site is impacted by invasive alien species (plant invasive alien species and rodents). Site- specific conservation objectives and measures were thus included to address this issue for the entire site. This would further contribute to restoring the conservation status of Habitat 1240 and *Linaria pseudolaxiflora* reported within the site.

SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT22_SSCO_02a	Removal of invasive alien species from the entire site	Pressures and threats: Invasive alien species (flora and fauna)	Reduction in rodent activity	Rodent activity
MT22_SSCO_02b			Area occupied by invasive alien species is non-significant	Area occupied by invasive alien species

Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT22_CM_02a	Continuation of rat control efforts to ensure that the rodent population is controlled	Management, control or eradication of other invasive alien species (MI03)	% decrease in rodent activity Number of stations in place	Ongoing	ERA, AM
MT22_CM_02b	Removal of invasive alien species, mainly <i>Agave</i> spp. and <i>Opuntia</i> spp., while preventing their introduction		% area of invasive alien species removed	Medium-term	ERA, AM



IL-MAGĦLUQ TAL-BAĦAR TA' MARSASKALA

MT0000023

Designation Area: 4.42 ha

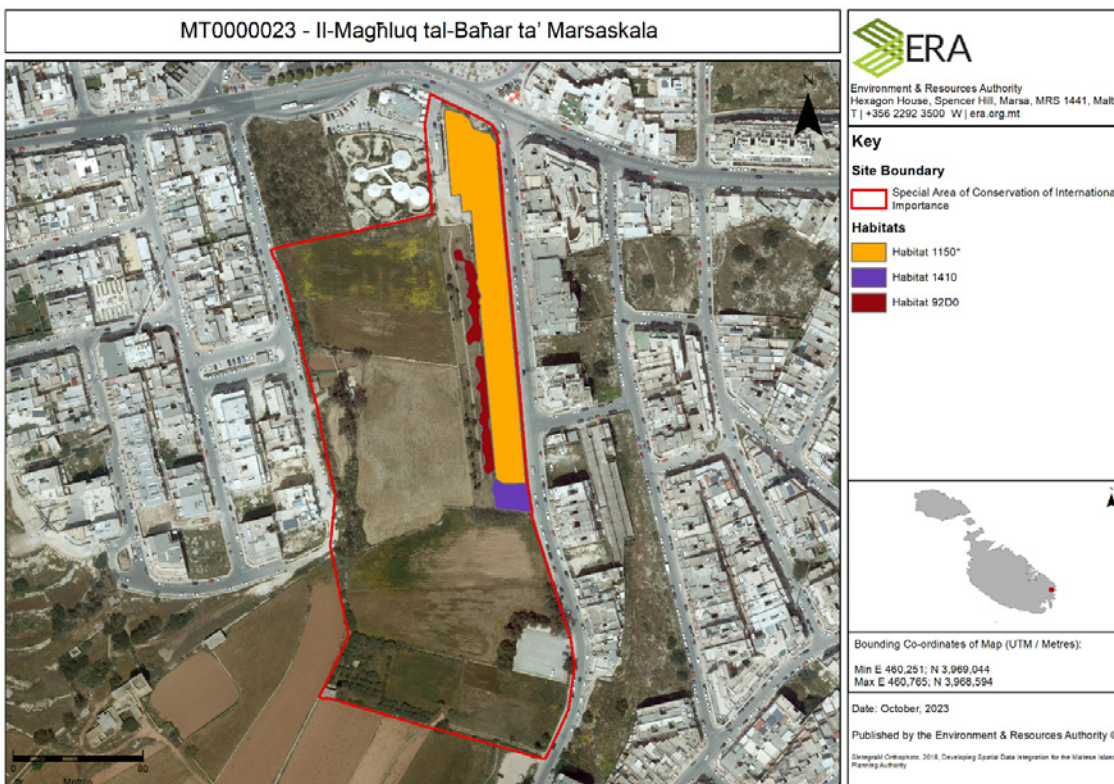
ANNEX I HABITATS

- Coastal lagoons (**Habitat 1150***)
- Mediterranean salt meadows (*Juncetalia maritimi*) (**Habitat 1410**)
- Southern riparian galleries and thickets (*Nerio-Tamaricetea* and *Securinegion tinctoriae*) (**Habitat 92D0**)

ANNEX II SPECIES

- *Aphanius fasciatus*

Figure 21: Habitat map of 'Il-Magħluq tal-Baħar ta' Marsaskala'



HABITAT ASSESSMENT

Table 22: Habitat types of Annex I of Council Directive 92/43/EEC present on site

Habitat Code	Habitat Name	Cover	Data Quality	Site assessment				Pressures relevant to the Natura 2000 site
				Representativity	Relative Surface	Conservation	Global	
1150*	Coastal lagoons	0.4 ha	G	C	B	C	C	
1410	Mediterranean salt meadows (<i>Juncetalia maritimi</i>)	0.03 ha	G	B	B	A	B	PI02 - Other invasive alien species (other than species of Union concern) PL06 - Physical alteration of water bodies
92D0	Southern riparian galleries and thickets (<i>Nerio-Tamaricetea</i> and <i>Securinegion tinctoriae</i>)	0.09 ha	G	C	C	C	C	PM07 - Natural processes without direct or indirect influence from human activities or climate change

SPECIES ASSESSMENT

Table 23: Species listed in Annex II of Directive 92/43/EEC present on site

Species Code	Species Name	Population size	Data Quality	Site assessment				Pressures relevant to the Natura 2000 site
				Population	Conservation	Isolation	Global	
1152	<i>Aphanius fasciatus</i>	/	DD	C	C	A	C	PI02 - Other invasive alien species (other than species of Union concern) PL06 - Physical alteration of water bodies PM07 - Natural processes without direct or indirect influence from human activities or climate change acidification

1150* - COASTAL LAGOONS

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this habitat type within this site by 2030:

1150* - Coastal lagoons				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT23_SSCO_01a	Maintain the extent of Habitat 1150* through the corresponding target	Area covered by the habitat type	Area stable at 0.4 ha	Habitat area (in hectares)
MT23_SSCO_01b		Hydrological regime: Water flow	Land-sea interface connectivity maintained	Water flow
MT23_SSCO_01c	Improve the structure and function of Habitat 1150* through the corresponding targets	Species composition: Typical species	Habitat representativity improved	Species composition
MT23_SSCO_01d		Species composition: Invasive alien species (fauna)	Domestic waterfowl population within the lagoon and surrounding areas significantly reduced	Number of individuals

1150* - Coastal lagoons					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT23_CM_01a	Cleaning and maintenance of interconnected channels at the land-sea interface to maintain the hydrological regime of the lagoon	Reduce impact of multi- purpose hydrological changes (MK02)	Number of yearly interventions	Ongoing	ERA, AM / NGO
MT23_CM_01b	Introduction of <i>Ruppia</i> spp. to improve representativity of Habitat 1150*	Manage native species (incl. non-Directive species) (MS04)	Number of specimens planted, success rate	Short-term	ERA, AM / NGO
MT23_CM_01c	Continuation of efforts to control domestic waterfowl population within Habitat 1150*, while preventing their introduction	Management, control or eradication of other invasive alien species (MI03)	% decrease in domestic waterfowl population	Ongoing	ERA, AM / NGO
MT23_CM_01d	Prevention of litter, carried by storm water runoff, from reaching the lagoon through the installation of physical barriers/collection systems	Restoration of habitat of species from the directives (MS03)	Physical barriers/ Collection system in place	Medium-term	ERA, AM / NGO

1410 - MEDITERRANEAN SALT MEADOWS (*Juncetalia maritimi*)

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this habitat type within this site by 2030:

1410 - Mediterranean salt meadows (<i>Juncetalia maritimi</i>)				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT23_SSCO_02a	Increase the extent of Habitat 1410 through the corresponding target	Area covered by the habitat type	30% increase in the area of Habitat 1410	% increase in habitat area (compared to baseline area)
MT23_SSCO_02b	Improve the structure and function of Habitat 1410 through the corresponding target	Species composition: Typical species	Habitat representativity improved	Species composition

1410 - Mediterranean salt meadows (<i>Juncetalia maritimi</i>)					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT23_CM_02a	Planting of <i>Juncetalia maritimi</i> species within areas currently devoid of habitats, to restore and increase the current surface area occupied by this habitat type	Manage native species (incl. non-Directive species) (MS04)	Number of typical species (species list), number of specimens planted, success rate	Short-term	ERA, AM / NGO
MT23_CM_02b	Planting of <i>Juncetalia maritimi</i> species which are currently absent or in low population to improve representativity of Habitat 1410		Number of typical species (species list), number of specimens planted, success rate	Short-term	ERA, AM / NGO

92D0 - SOUTHERN RIPARIAN GALLERIES AND THICKETS (NERIO-TAMARICETEA AND SECURINEGION TINCTORIAE)

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this habitat type within this site by 2030:

92D0 - Southern riparian galleries and thickets (<i>Nerio-Tamaricetea</i> and <i>Securinegion tinctoriae</i>)				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT23_SSCO_03a	Increase the extent of Habitat 92D0 through the corresponding target	Area covered by the habitat type	40 % increase in the area of Habitat 92D0	% increase in habitat area (compared to baseline area)
MT23_SSCO_03b	Improve the structure and function of Habitat 92D0 through the corresponding target	Species composition: Typical species	Habitat representativity improved	Species composition

92D0 - Southern riparian galleries and thickets (<i>Nerio-Tamaricetea</i> and <i>Securinegion tinctoriae</i>)					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT23_CM_03a	Planting of <i>Nerio-Tamaricetea</i> species within areas currently devoid of habitats to restore and increase the current surface area occupied by this habitat type	Manage native species (incl. non-Directive species) (MS04)	Number of typical species (species list), number of specimens planted, success rate	Short-term	ERA, AM / NGO
MT23_CM_03b	Planting of <i>Vitex agnus-castus</i> to improve representativity of Habitat 92D0		Number of specimens planted, success rate	Short-term	ERA, AM / NGO

APHANIUS FASCIATUS

The following site-specific conservation objectives and measures shall seek to restore the conservation status of this species within this site by 2030:

<i>Aphanius fasciatus</i>				
SSCO code	Conservation Objective	Attributes	Target	Unit of measurement
MT23_SSCO_04a	Maintain the extent of Habitat 1150* supporting <i>Aphanius fasciatus</i> through the corresponding target	Extent of habitat for the species	Area of Habitat 1150* is stable at 0.4 ha	Area covered by the species' habitat (in hectares)
MT23_SSCO_04b	Maintain the condition of Habitat 1150* supporting <i>Aphanius fasciatus</i> through the corresponding target	Habitat condition	The condition of Habitat 1150* is suitable to maintain the distribution and population size of the species	Habitat condition
MT23_SSCO_04c	Improve future prospects for <i>Aphanius fasciatus</i> through the corresponding target	Pressures and threats: Predation	Population of marine fish species significantly reduced	Number of individuals

<i>Aphanius fasciatus</i>					
Measure code	Conservation Measure	Category (Art. 17)	Performance indicator	Timeframe	Lead/ Supporting Parties
MT23_CM_04a	Continue with the ex-situ conservation of the <i>Aphanius fasciatus</i> present at Marsaskala, to preserve its distinct genetic stock	Reinforce populations of species from the directives (MS01)	Number of individuals present in ex-situ	Ongoing	ERA, AM / NGO
MT23_CM_04b	Continuation of efforts to control populations of marine fish species within Habitat 1150*, while preventing their introduction	Manage native species (incl. non-Directive species) (MS04)	% decrease in marine fish species population	Ongoing	ERA, AM / NGO
MT23_CM_04c	Implementation of the conservation measures listed under Habitat 1150* to improve the condition of the habitat supporting <i>Aphanius fasciatus</i>	Restoration of habitat of species from the directives (MS03)	Implementation of measures listed for Habitat 1150*	Various	ERA, AM / NGO

The current data available on the population size of *Aphanius fasciatus* within this site is limited. Thus, an operational objective to address this current knowledge gap is being put forward. This would then enable the elaboration of further SSCOs for the species.

Operational Objective	MT23_OO_01_ Undertake a study to improve knowledge on the distribution and population size of <i>Aphanius fasciatus</i> within the site
Lead/supporting parties	ERA
Timeframe	Short-term



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