

APPROPRIATE ASSESSMENT
COUNTY ROAD DJ 108 J REMEȚI - STANA DE VALE, FROM KM
16 + 295 TO KM 33 + 510 "BIHOR COUNTY", PART OF
NORTHERN TRANSYLVANIA REGIONAL ROUTE

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Abstract

The DJ108J road follows the Hell Valley, a course that hardly carries its way between the slopes of the limestone formations of Padurea Craiului and the crystalline shale of the Vlădeasa Massif, being the geographical limit between the two mountain units. County Road DJ108J Remeți - Stâna de Vale, crosses the Natura 2000 ROSCI0262 Valea Iadei Site, is bordering the Natura 2000 ROSPA0115 Crișului Repede - Valea Iadului and it borders and intersects with the Nature Reserve 2181 Valea Iadului. The project respects the objectives of the National Climate Change Strategy, which is based on European specific objectives. According to Order no. 50/1998, the county road DJ 108J is in the technical class V, the running speed is 30 km / h. From the point of view of the geometrical elements in the plan, the county road was arranged by a series of alignments and curves, especially alignments, respectively where the angles are greater than 177 degrees, considered fragments.

Key words: assessment, road, habitate, species, Natura 2000, effect

INTRODUCTION

The proposed project will overlap the administrative territory of Budureasa and Curetele communes.

The DJ108J road follows the Hell Valley, a course that hardly carries its way between the slopes of the limestone formations of Padurea Craiului and the crystalline shale of the Vlădeasa Massif, being the geographical limit between the two mountain units.

The County Road DJ108J Remeți-Stâna de Vale crosses the Natura 2000 ROSCI0262 Valea-Iadei Site from km 18 + 160 km to km 30 + 650 on a length of 12,490 km and on the sectors from km 17 + 600 to km 18+ 160, respectively from km 30 + 650 to km 32 + 000 for a total length of 1,910 km, is located adjacent to it.

The county road DJ108J Remeți - Stâna de Vale, adjoins the Natura 2000 ROSPA0115 Crișului Repede - Valea Iadului, from km 17 + 250 to km 17 + 600, on a length of 0.350 km.

The DJ108J road overlaps with the ROSCI0262 Ia Valley on an area of 11.19 ha (111939 m²).

The county road DJ108J Remeți - Stâna de Vale, on the road section between km 20 + 800 and km 28 + 318, on a length of 7,518 km, bridges and intersects the Nature Reserve 2181 Valea Iadului.

The proposed site overlaps (intertwines) / intersects the Nature Reserve 2181 Valea Iadului with the overlapping percentage of 43.76%.

MATERIAL AND METHOD

The appropriate assessment was carried out in accordance with the provisions of the MMP Order no. 135/2010. The appropriate assessment study was conducted in accordance with the methodology indicated in the MIP Order no. 19/2010 for the approval of the methodological guide on the appropriate assessment of the potential effects of plans or projects on protected natural areas of Community interest.

The vegetation study in the analyzed area was performed according to the European methods of phytosociology, taking place in different stages:

- the preparatory stage-at this stage were analyzed the purpose and the tasks proposed for the study, the specialized scientific literature regarding the research methods and studies carried out previously in the area, the physico-geographic conditions of the region (relief, soils, geomorphological structure, network hydrographic, climate) and the optimal periods for field identification were established;
- stage of field research-at this stage were carried out works that consist of making geobotanic descriptions, shooting, fixing on the schematic map of the researched sites, in the field, in order to further determine the species and habitats of community interest where applicable (Determination of species was made using the keys of determination from specialized publications [Ciocarlan, 2000]). The phytocoenosis vegetation has been studied from the periphery of the inland area, using the research method on the itinerary. The surface to be crossed has been set so as to include all existing phytocenotic types;
- the closing stage- included data processing in order to determine the species and plant associations, the presence / absence of plant species and habitats of conservative interest.

RESULTS AND DISCUSSION

Following field investigations of the absolute evaluation of the plant species and habitats listed in Annex II and Annex I of Council Directive 92/43 / EEC, on the monitored site, on a buffer distance of 50 m from the axis of the road axis items of habitats of Community interest included in table number b.2.1 of which 91E0 is a priority.

Table no.1 contains elements of identified habits of community interest.

Table 1

Elements of identified habits of community interest

Name	Cod	Length occupied along DJ108J
Highland hygrophilous grassland communities from the plains to the mountain and alpine	6430	By the way, between km 19+600 up to 19+724
Mountain meadows	6520	Areas adjacent to the road between km 18+605 up to 18+970 20+157 up to 20+600
Silicate grooves from the upstairs to the nival floor (<i>Androsacetalia alpinae</i> and <i>Galeopsietalia ladani</i>)	8110	22+500 up to 22+550
Alluvial forests with <i>Alnus glutinosa</i> and <i>Fraxinus excelsior</i> , <i>Alno-Padion</i> , <i>Alnion incanae</i> , <i>Salicion albae</i>	91E0*	Areas adjacent to the road between km 18+505 up to 18+605 18+800 up to 18+970 20+155 up to 20+300 20+500 up to 20+600 Before 20+950 21+318 up to 21+550 22+226 up to 22+413 23+150 up to 23+414 23+970 up to 24+050 24+850 up to 24+900

		25+100 up to 25+500 26+809 up to 26+911 28+550 up to 29+000 29+900 până la 30+650
Dacian beech forests (<i>Symphyto-Fagion</i>)	91V0	Limitrof of the House Starting from 20 + 950 to 30 + 650 except for the areas identified with other habitat types

Table 2 lists the species that were the subject of site designation identified in the field. We mention that the field research was between July 2016 and May 2017.

Table 2

The species that have been the subject of site designation identified in the field

Species	Area where it was identified	Average number of copies per day (12 field visits: 29.07,12.08,26.08,30.09, 14.10,28.10,18.11,02.12, 24.03,14.04,05.05,19.05)- direct observations
<i>Bombina variegata</i>	18+600 up to 18+970	3
	20+160 up to 20+600	2
	24+850 up to 24+950	3
	About a km 27+900	1
	About a km 28+350	2
<i>Triturus vulgaris ampelensis</i>	18+600 up to 18+970	1
	21+300 up to 22+400	1

The route of the road is characterized by the presence of *Syringa josikaea*, a species which was the subject of Reservation 2.181 Valea Iadei.

Carpathian lilac specimens have also been identified on wet wooded rocks above the watercourse in the narrow gorge sector.

We identified 7 specimens of Carpathian Lila in the inhabited areas of Bucea to Lake Coada.

CONCLUSIONS

The assessment of the significance of the impact during the construction and on-road operation on the ROSCI0262 Valea Iadei site on habitats and species is included in Table no.3.

Table 3

Assessment of the significance of the impact

<i>Cod</i>	<i>Name</i>	<i>Present in the perimeter or vicinity of the site</i>	<i>Observations</i>	<i>Impact projected</i>
Habitat Types				
91E0*	Alluvial forests with <i>Alnus glutinosa</i> și <i>Fraxinus excelsior</i> , <i>Alno-Padion</i> , <i>Alnion incanae</i> , <i>Salicion albae</i>	<i>Site Limit</i>	<i>Not necessary</i>	<i>nul</i>
6430	Highland hygrophilous grassland communities from the plains to the mountain and alpine	<i>Site Limit</i>	<i>Not necessary</i>	<i>nul</i>
6520	Mountain meadows	<i>Site Limit</i>	<i>Not necessary</i>	<i>nul</i>
8110	Silicate grooves from the upstairs to the nival floor (<i>Androsacetalia alpinae</i> și <i>Galeopsietalia ladani</i>)	<i>Site Limit</i>	<i>Not necessary</i>	<i>nul</i>
91V0	Păduri dacice de fag (<i>Symphyto-Fagion</i>)	<i>Site Limit</i>	<i>Not necessary</i>	<i>nul</i>
Species of mammals listed in Annex 2 of the Council Directive 92/43/CEE				
1355	<i>Lutra lutra</i> (<i>Vidra</i>)	<i>The species was not observed</i>	<i>The construction of the bridges involves the necessary</i>	<i>There may be a significant negative impact on the construction period that will be</i>

			<i>surfaces for the construction of the infrastructure</i>	<i>temporary. During the operating period, the forecast impact is null.</i>
<i>Species of amphibians and reptiles listed in Annex 2 of the Council Directive 92/43/CEE</i>				
<i>1193</i>	<i>Bombina variegata</i>	<i>The species was observed</i>	<i>For the conservation of this species, special measures may be necessary to protect wetlands where the species is reproduced and developed</i>	<i>During the construction works there will be a significant negative impact especially in the area of bridge and bridge works. The foreseen impact is low during the period of operation</i>
<i>1166</i>	<i>Triturus vulgaris ampelensis</i>	<i>The species was observed</i>	<i>Not necessary</i>	<i>In perioada lucrarilor de constructie poate exista un impact negativ semnificativ in special in zona lucrarilor la podurile. În perioada de funcționare, impactul prognozat este nul.</i>
<i>2186</i>	<i>Syringa josikaea</i>	<i>The species was observed</i>	<i>Not necessary</i>	<i>nul</i>
<i>1138</i>	<i>Barbus meridionalis</i>	<i>The species wasn't observed</i>	<i>The construction of the bridges involves the necessary surfaces for the construction of the infrastructure</i>	<i>There may be a significant negative impact on the construction period that will be temporary. During the operating period, the forecast impact is null.</i>

1163	<i>Cottus gobio</i>	<i>The species was not observed</i>	<i>The construction of the bridges involves the necessary surfaces for the construction of the infrastructure</i>	<i>There may be a significant negative impact on the construction period that will be temporary. During the operating period, the forecast impact is null.</i>
	<i>Rana temporaria</i>	<i>The species was not observed</i>	<i>Not necessary</i>	<i>During the construction works there may be a significant negative impact, especially in the area of bridge works. During the operation, the impact predicted is null.</i>
	<i>Salamandra salamandra</i>	<i>The species was not observed</i>	<i>Not necessary</i>	<i>During the construction works there may be a significant negative impact, especially in the area of bridge works. During the operation, the impact predicted is null.</i>
1093	<i>Austropotamobius torrentium</i>	<i>The species was not observed</i>	<i>Constructia podurilor, implică suprafețe necesare pentru realizarea infrastructurii</i>	<i>There may be a significant negative impact on the construction period that will be temporary. During the operating period, the forecast impact is null.</i>
1361	<i>Lynx lynx (evaluat conform fișei sitului)</i>	<i>The species was not observed</i>	<i>Not necessary</i>	<i>null</i>

We reiterate that the realization of the project in the proposed parameters will not adversely affect the Carpathian Lilac because no

specimen has been identified to be located in the area of the DJ108 J footprint that will be affected.

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