



Békéscsaba – Szeged Section of Main Road #47

**ENVIRONMENTAL PROTECTION SUMMARY
ON ENVIRONMENTAL IMPACT AND PROCEDURES**

Prepared on the order of National Infrastructure Development Co. Ltd
by

„UTIBER-COWI-FŐMTERV” Consortium

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1. DESCRIPTION OF THE ENVIRONMENTAL PROCEDURE

An environmental chapter was drafted in May 2012 as part of the feasibility study of the reconstruction of Main Road #47 which was followed by the preliminary environmental analysis at the end of June 2012 related to the **Hódmezővásárhely North bypass**. On 24 October 2012 the regional authority, The Lower Tisza District Environment, Nature Conservation and Water Management Authority issued its EVD decision relating to the **project element No. K047.14** under the registration number *90.164-1-22/2012*. Based on the completed documentation the Authority declared that the planned Bypass route does not have significant environmental impact, therefore **development of environmental impact analysis is not necessary** for starting the activity.

The Lower Tisza District Environment, Nature Conservation and Water Management Authority the competent authority conducted a preliminary environment assessment in respect of **the three sections subject to preparation (K047.01., K047.02., K047.03)** in the frame of official procedure of the authority. The Authority has issued its resolution under *94.177-1-44-2013*. The Authority established that reinforcement of the pavement would not incur significant environmental effect, accordingly, **environmental impact assessment is not required** for starting the activity.

An environmental performance evaluation was conducted to provide for the assessment of the complex and mutual environmental impacts of investments implemented at different times (reinforcement the pavement to 11.5 axle load completed earlier, and bypass routes). Accordingly, the duly drafted documents examine both the segments which have already been constructed and the preliminary procedures subject to assessment.

Related segments where construction has been completed.

The project element of K047.07 (*167+263-173+780 km segments*) phases III-IV of the Orosháza bypass section has already been built between the segments *K047.01 and K047.02*. Based on permission design prepared by Uvaterv, issued in 2003, the Public Road and Railway Supervision Department of the Békés County Transport Authority issued a construction permit on 10 November 2003 under reg. No. BE/UV/NS/A/324/36/2003 related to the construction of phases III-IV of the Orosháza bypass section. The approval No. 7027-6/2003 of the environmental authority to the 2X2-lane section was issued by the Lower Tisza Regional Environmental, Nature Conservation and Water Authority. **K047.04** (*202+450-207+000 km segment*)- development of four lanes in Phase III .between Hódmezővásárhely-Algyő and the completed section of Phase II. of **K047.08**. (*207+000-210+600 km segment*) *between Hódmezővásárhely-Algyő* are connected to the project elements *K047.14 and K047.03*. The South Great Plain Regional Directorate of the National Communication Authority issued a construction permit under No. CS/UV/A/263/12/2003 related to the construction of the Hódmezővásárhely-Algyő section and development of four lanes on the already completed section. On 31 December 2007 the State Road Management Non-profit Organization of Csongrád county extended the validity of the earlier permits related to this section of Main Road #47 (resolutions No. 341-65/2001 and 341-66/2001) and that of the resolution No. *CS/UV/A/263/12/2003* and construction permit amending the earlier permits under No. *CS/UV/A/226/1/2003*.

The Lower Tisza Regional Environmental, Nature Conservation and Water Authority issued the approval of the of the competent authority under No. *12820-1-2/2005* related to the

construction of road section Hódmezővásárhely-Algyő (207+000-210+600 km segment).
Phase II.

The following table sets forth the procedures of the environmental authority related to particular road sections of the study:

from km segment	to km segment	Development	Procedure	Authority	License/decision
0+000	13+361,93	Hódmezővásárhely bypass	Environmental resolution based on screening	Lower Tisza Region KTVF	90.164-1-22/2012, issued on 05/10/2013
132+965,34	167+263	K.047.01 project Section between Békéscsaba bypass – Orosháza bypass	Environmental resolution based on screening	Lower Tisza Region KTVF	94.177-1-44/2013, issued on 11/06/2013
173+780	195+420	K.047.02 project Section between Orosháza bypass –Orosháza bypass			
210+600	217+648,93	K.047.03 project Algyő - Szeged section			
132+965,34	217+648,93	K.047.01-04., K.047.07-08., K.047.12. and K.047.14. project elements Road sections between Békéscsaba – Szeged	Environmental permit for operation based on Environmental Performance Evaluation	Lower Tisza Inspectorate of Environmental Protection, Nature and Water Conservation	95359-1-13/2013, issued on 26/08/2013

Abbreviations: KTVF: Nature Conservation and Water Authority

1. Hódmezővásárhely bypass route (0+000 - 13+361,93)

Procedure: Preliminary assessment procedure

Ordered by: National Infrastructure Development Co. Ltd.

Prepared by: UTIBER Közúti Beruházó Kft.

Date: 2012. 29 June

Licensing authority: Lower Tisza Regional Environmental, Nature Conservation and Water Authority

License number: 90.164-1-22/2012.

Date of issuance of the license: 2012. 24 October

Reason:

Based on the preliminary assessment document submitted on 29 July the environmental decision established that no significant environmental impact can be expected in connection with the reinforcement of the pavement and construction of the cycle lane, therefore no environmental impact analysis is necessary for conducting the environmental impact analysis. Lower Tisza District Environment, Nature Conservation and Water Management Authority - declaration No. .164-1-22/2012 of the authority)

Publicity information:

The related authority displayed the preliminary assessment documentation in its premises within 8 days upon submission thereof in accordance with Article 5 (2) of the Government Decree 314/2005, allowing by that the inspection, commenting and submission of appeal against it.

Public hearing: none

2. **K.047.01 Békéscsaba bypass section – up to Orosháza bypass section Phase III (132+965,34 - 167+263)**
K047.02 Orosháza bypass section - Hódmezővásárhely bypass section (173+780 - 195+420)
K047.03 Algyő – Szeged (210+600 -217+648,93)

Project element	Location	Km. segment	Length
K.047.01	Békéscsaba bypass-Orosháza bypass up to phase III.	132+965,34 - 167+263	34,822 km
K047.02	Orosháza bypass - Hódmezővásárhely bypass	173+780 - 195+420	19,686 km
K047.03.	Algyő – Szeged	210+600 -217+648,93	7,044 km

Procedure: Preliminary assessment procedure

Ordered by: National Infrastructure Development Co. Ltd.

Prepared by: UTIBER-COWI-FŐMTERV Consortium.

Date: 2012. 25 March

Licensing authority: Lower Tisza Regional Environmental, Nature Conservation and Water Authority

License number: 94.177-1-44/2013

Date of issuance of the license: June 2013.

Reason:

Based on the preliminary assessment document submitted on 25 March 2013 the environmental resolution established that no significant environmental impact can be expected in connection with the reinforcement of the pavement and construction of the cycle lane on the section between Békéscsaba-Szeged, therefore no environmental impact analysis is necessary for conducting the environmental impact analysis. Lower Tisza District Environment, Nature Conservation and Water Management Authority - declaration No. 94.177-1-44/2013 of the authority)

In the frame of the procedure of the authority all the related supplementary facilities associated with the investment (including e.g. substitution of the public utilities) were surveyed, which come to the scope of the preliminary assessment according to the related national regulations.

The environmental authority participated in the licensing procedure associated with the road construction as competent authority.

Publicity information:

The related authority displayed the preliminary assessment documentation in its premises, delivered it by putting up the notice, and sent this resolution to the notaries of the localities in the affected areas (Hódmezővásárhely, Szeged, Orosháza, Békéscsaba, Újkígyós, Csorvás, Algyő and Székkutas) within 8 days upon submission thereof in accordance with Article 5 (2) of the Government Decree 314/2005, allowing by that the inspection, commenting and submitting an appeal against it.

Public hearing:

In order to remedy the deficiencies in the earlier preparations, the Beneficiary requested to conduct an environmental performance assessment whereby the environmental impacts and the measures aiming at reducing the impacts have been checked, based on an analysis of cumulative impacts, for the entire main road #47 between Békéscsaba - Szeged.

The environmental performance assessment (Act LIII of 1995 on the general rules of environment protection, Chapter VIII, Articles 77, 78, 79, 80):

The interested party may, in order to assess its own environmental performance (audit its activity) and to get to know the impact of its activity on the environment, (cause to) conduct an assessment, and upon its request the environmental authority will approve it.

Based on the result of the performance assessment, the environmental authority may:

- a) approve performance of the activity,
 - b) simultaneously with the granting of the approval require the interested party to take the necessary environment protection measures, including the obligations to provide a security as defined in a government decree and to take out environmental insurance;
 - c) restrict, suspend or prohibit the conduct of the activity, or request the body having relevant powers to do so.
- (2) If a decision on restriction or suspension is taken, the environmental authority will determine the environmental conditions of conducting the activity.
- (3) When approving the assessment, the environmental authority issues a simplified decision, an operating licence, or acts through appropriate application of the provisions of paragraphs (b) and (c).

In order to involve the public, the environmental authority shall hold a public consultation.

TÉR covers analysis of the following environmental elements and hazard factors:

1. Soil, subsurface water
2. Surface water
3. Air purity protection
4. Fauna and flora
5. Landscape protection
6. Built environment
7. Noise & vibration protection

8. Waste management

Information supply to the public:

The inspectorate will publish this decision in its office, on its website and in its central system (www.magyarország.hu), without regard to its entry into force.

The inspectorate will deliver the decisions adopted by it according to Article 5 (2) of the Government Decree through notices, thus this decision will be sent to the City Managers of Hódmezővásárhely, Szeged, Orosháza, Békéscsaba, Újkígyós Joint Municipality Office (Branch Office in Telekgerendás), Csorvás, Algyő and Székkutas who will ensure its publication and within 5 days of publication notify the inspectorate of the date and place of publication and the possibility of inspection. The date of communicating this decision is the 5th day following the publication of the notice.

Compliance with the EU directives

Pursuant to Annex 1 of the Directive 2010/92/EU of the European Parliament and the Council development of an environmental impact analysis is not required.

7. b. Construction of motorways and expressways

7.c construction of new roads of four or more lanes, or relocation or extension of the existing, one- or two-lane roads, to four- or more lanes, in case the overall length of the new or reconstructed and/or extended road section is 10 km or more.

The pavement will be reinforced on the existing track of Main Road # 47 sections affected by the development and the section will not be widened with new traffic lanes therefore it shall be considered as one which comes to the effect of Annex II.

In case of the developments coming to Annex II and based on Article 4 (2) the member states will make a decision about assessing the rate of environmental impacts

- a. on case-by-case basis; or
- b. on the basis of the thresholds or set of criteria established by the Member States.

The thresholds and the set of criteria are determined in Hungary by the Government Decree 314/2005 (XII. 25) 25.) on “*Environmental impact assessment and on the procedure of licensing standard environmental usage*”.

Pursuant to Section 87/b of Annex III to the Decree the development is subject to mandatory preliminary assessment.

Accordingly, a procedure was conducted on the basis of preliminary assessment documents related to this development section, where an EVD resolution was adopted. According to the decision of the licensing authority the environmental impacts do not make an environmental impact analysis necessary.

Accordingly, the environmental impact assessment of the project is in compliance with the Directive 2011/92/EU.

2. PRESENTATION OF THE PROCEDURE OF OBTAINING CONSTRUCTION PERMITS

The process of issuing a construction permit related to Békéscsaba-Szeged section of the Main Road No. 47. The process of obtaining construction permits is related to the particular project elements and the statement of the competent authorities are set forth in the following.

from km segment	to km segment	Development	Procedure	Authority	License/decision No.
132+965,34	167+263	K.047.01 project Road section between Békéscsaba bypass – Orosháza bypass	Road construction permit and cycle track construction permit	Transport Authority of Békés County Government Office	BE/UO/73/36/2013., issued on 08/07/2013
173+780	195+420	K.047.02 project Road section between Orosháza bypass- Orosháza bypass	Road construction permit	Transport Authority of Békés County Government Office	CS/ÚT/121/4/2013., issued on 17/07/2013
			Cycle track construction permit		CS/ÚT/122/4/2013., issued on 17/07/2013
210+600	217+648,93	K.047.01 project Road section between Békéscsaba bypass – Orosháza bypass	Road construction permit	Transport Authority of Békés County Government Office	DA/KA/104/19/2013. issued on 05/07/2013
			Cycle track construction permit		DA/KA/1173/25/2009, issued on 06/12/2009

- **Reinforcement of the pavement on Main Road # 47 to 115 kN axle load at the road segments (132+965,34-167+263 km) at the section between Békéscsaba bypass – Orosháza bypass Phase III , and construction of parallel cycle track (K.047.01.-Project element)**

Licensing authority: South Great Plain Regional Directorate of the National Communications Authority

License number: DA/KA/1011/1/2009 (construction permit on road)

Date of issuance of the license: . 11 February 2009

Licensing authority: South Great Plain Regional Directorate of the National Communications Authority

License number: DA/KA/1011/2/2009 (construction permit on cycle track)

Date of issuance of the license: 11 February 2009

Licensing authority: Transport Authority of Békés Conty Governmental Office

License number: BE/UO/73/36/2013 (validity extention of construction permit on road and cycle track)

Date of issuance of the license: 11 February 2009

When issuing the construction permit the licensing authority - the Southern Plain Directorate of the National Transport Authority –solicited the opinion and statements of the competent

technical authorities regarding the subject section, which must be observed during the implementation.

The construction plans related to the project element were prepared in October 2010 where the following competent authorities issued their position statement relating to the environmental work phase.

Competent authorities involved in the procedure:

- National Public Health and Medical Officer Service, Orosháza, Szarvas Small region Institute, Orosháza (2346-3/2008)
- National Public Health and Medical Officer Service, Békéscsaba, Békés, Szeghalom Small regions Institute, Békéscsaba-5015-2/2008
- Békéscsaba Regional Office (10.208/2008.)
- Orosházi Regional Land Registry Office Land Survey and Land Utilization Department-(10.144/2/2008)
- Békés County Agricultural Administration Agency, Forestry Directorate, Kecskemét-(12.3/18-8277-3/2008)
- Békés County Agricultural Administration Agency, Plant and Soil Protection Directorate,- Békéscsaba1 (3.2/1919/8-TA/2008)
- Lower Tisza District Environment, Nature Conservation and Water Management Authority - Szeged (55167-2/2008.)
- Local Office of the Tisza Region Environment and Water Management Inspectorate, Gyula (13804-002/2008)
- Szolnok District Mines Authority (SZBK/3388/2/2008)
- Southern Plain Office of the Cultural Heritage Protection Office, Szeged (490/3912/006/2008)

The competent authorities defined their restrictions in their statements of approval required to the construction permit, related to the road section (or gave their consent without restriction) which must be taken into full consideration by the experts drafting the construction plan and the staff making the construction work.

The competent authorities has been asked for their approval in the procedure of validity extension of obtaining of construction permits. They issued their declarations to amended construction permits.

Publicity information :

The competent authority published the notice of the competent environmental authority in compliance with Section 13 (VI.26) of the Government Decree 3012/2012 within 15 days of submission thereof for the purpose of informing the publicity, based on which comments can be made and appeals can be launched in connection with the procedure.

Provisions of the licenses related to Natura 2000 areas: Based on the impact analysis documentation related to Natura 2000 area the resolution closing the preliminary assessment procedure will prevail in respect of the segment. The construction permit prescribed that it is forbidden to deploy borrow pits or dumping grounds in the Mágocs brook SCI Natura 2000 area (between the road segments 161+845 and 162+100 km). (Lower Tisza District

Environment, Nature Conservation and Water Management Authority) (55167-2/2008, section 14)

Monitoring:

Before the start of construction works standard transport noise metering must be conducted to survey the baseline at the following points:

Békéscsaba public administration area:

- land registry No. 0901/5: before the protected façade of the farm building located at the road segment 133+600 km
- land registry No. 0897/4 before the protected façade of the farm building located at the road segment 133+560 km

Telekgerendás

- land registry No. 881 before the protected façade of the farm building located at the road segment 141+900 km
- land registry No. 0136/18: before the protected façade of the farm building located at the road segment 146+400 km

Csorvás

- In the inner area of Csorvás, land registry No. 639: before the façade of the building located at the road segment 151-950 km.
- land registry No. 015/4: before the façade of the building located at the road segment 156+800 km.

Orosháza

- land registry No. 042/2: before the protected façade of the building located at the road segment 159+760 km

2013. In May 2013 the design audit documentation of three sections – each with detailed technical design - (the following project elements: K047.01, K047.02, K047.03) was prepared.

- **Reinforcement of the pavement on main road # 47 to 115 kN axle load at the road segments (173+780-195+420 km) Section between the Orosháza bypass – planned Hódmezővásárhely bypass, and construction of parallel cycle track(K.047.02.)**

Licensing authority South Great Plain Regional Directorate of the National Communications Authority

License number: DA/KA/814/38/2009 (construction permit)

Date of issuance of the license: **5 July 2009**

Licensing authority South Great Plain Regional Directorate of the National Communications Authority

License number: DA/KA/814/39/2009 (construction permit on cycle track)

Date of issuance of the license: **5 July 2009**

Licensing authority Lower Tisza Regional Environmental, Nature Conservation and Water Authority

License number: 60.997-1-18/2009 (water construction permit)

Date of issuance of the license: **5 July 2009**

Licensing authority : Transport Authority of Governmental Office of Csongrád County

License number: CS/ÚT/121/4/2013 (validity extension of road construction permit)

Date of issuance of the license: **5 July 2009**

Licensing authority: Transport Authority of Governmental Office of Csongrád County

License number: CS/ÚT/122/4/2013 (validity extension of cycle track construction permit)

Date of issuance of the license: **5 July 2009**

When issuing the construction permit the licensing authority- the Public Road and Railway Supervision Department of the Békés County Transport Authority- solicited the opinion and statements of the competent technical authorities regarding the subject section, which must be observed during the implementation.

The following technical authorities issued their declaration and statement of position related to the construction permit of the project element: (the competent authorities indicated in *Italics* issued an unconditional consent).

- Békés County Land Registry Office, Békéscsaba – 10.031-1/2003.
- *The Mayor's Office, Orosháza– 2097-2/2003.*
- *The Mayor's Office, Székkutas – 1312/2003.*
- Csongrád County Land Registry Office, Szeged – 10.104-2/2003.
- Békés County Plant Protection and Soil Protection Service – 18/5-TA/2003.
- *Békés County Disaster Management Directorate - M-1871-1/2003.*
- *Csongrád County Disaster Management Directorate – 2242/2003.*
- State Forestry Service, Kecskemét Directorate, Forest Supervision department, Gyula– 18-5371-2/2003
- *Regional Office of the Hungarian Geological Authority - Szeged – 385-2/2003*
- Lower Tisza District Environment Authority , Szeged – 7027-6/2003
- Lower Tisza District Water management Directorate, Szeged – ATI-H-00976-016/2003.
- Szolnok Mining Authority, - 6826/2003.
- *Ministry of Defense, Operations and Training Group Headquarters, Budapest (2607/2/2003)*
- Körös-Maros National Park Directorate, Szarvas – 6096-2/2003.
- *Regional Technical Security Supervision, Szeged - 1565/2003*
- Békés County Police Headquarters, Traffic Department, - Békéscsaba – 806/2003
- *Békés County Police Headquarters, Traffic Department, - Szeged – 6218/2003*
- *Professional Fire Guard Headquarters of the Local Government, Orosháza - 699/1/2003*
- *National Public Health and Medical Officer Service, Orosháza (940-2/2003)*
- *National Public Health and Medical Officer Service, Hódmezővásárhely (204-13/2003)*

The competent authorities defined their restrictions in their statements of approval required to the construction permit, related to the road section (or gave their consent without restriction) which must be taken into full consideration by the experts drafting the construction plan and the staff making the construction work.

The competent authorities has been asked for their approval in the procedure of validity extension of obtaining of construction permits. They issued their declarations to amended construction permits.

Publicity information:

The competent authority published the notice of the competent environmental authority in compliance with Section 13 (VI. 26) of the Government Decree 3012/2012 within 15 days after submission thereof with the purpose of informing the publicity, based on which comments can be made and appeals can be launched in connection with the procedure.

Provisions of the licenses related to Natura 2000 areas: Based on the impact analysis documentation related to Natura 2000 area the resolution closing the preliminary assessment procedure will prevail in respect of the segment. The construction permit prescribed that deployment of borrow pits and damping grounds is prohibited in the Natura 2000 areas. So as to provide for the protection of Natura 2000 areas the construction area must be separated from Natura 2000 areas with a temporary protective fence (development of protective zone) at the following sites:

- starflowers located between road segments 173+880,03 -173+991,16 km
- starflowers located between road segments 173+882.15 -175+090.15 km
- provide for protection of the grassland between road segments 177+033.35 – 177+210.32 and 177+215.05 – 177+301.09 km
- provide for protection of meadows and reed cultivations between road sections 193+342.85 – 193+435 km

(Lower Tisza District Environment, Nature Conservation and Water Management Authority)
(63233-2/2009.14, sections 14 -16)

Monitoring: Provisions of the environmental license are applicable for the section. The construction permit did not include any other provision.

- **Main Road #47 reinforcement of the pavement to 115kN axle road, (between the segments 210+600-217+644) at the Algyó-Szeged section (M43 highway junction) and construction of parallel cycle track.**(K.047.03.).

Licensing authority: South Great Plain Regional Directorate of the National Communications Authority

License number: DA/KA/813/29/2009 (construction permit)

Date of issuance of the license: 3 December 2009

Licensing authority South Great Plain Regional Directorate of the National Communications Authority

License number: DA/KA/1173/25/2009 (construction permit on cycle track)

Date of issuance of the license: 7 December 2009

National Infrastructure Development Co. Ltd. assigned in December 2007 the Via Futura Kft.with the development of the permission designs of reinforcement of the pavement to 115 kN axle load on the secondary main road between Debrecen-Szeged between the segments 210+600 – 219+100 km. During the planning period the boundary of the section was narrowed to the segments between 210+600 – 217+643.93 km . The National Transport Authority's South-Plain Office issued in 2009 a road construction permit on the basis of the permission designs of Via future Kft. which related to the existing road track and the extension of the cycle lane. The road construction permit was issued under number DA/KA/813/29/2009 and the cycle track construction permit under number DA/KA/1173/25/2009.

Competent authorities involved in the procedure:

- Regional Land Registry Office, Hódmezővásárhely (10.306/2009.)
- Lower Tisza District Environment, Nature Conservation and Water Management Authority - Szeged (62956-1-1/2009)
- Southern Plain Office of the Cultural Heritage Protection Office, (490/1508/001/2009)
- Bács-Kiskun County Agricultural Administration Agency, Forestry Directorate, - (12.3/18-2347-2/2009)
- Csongrád County Agricultural Administration Agency, Plant and Soil Protection Directorate– N15.2/15723/2-06VT/2009,
- Csongrád County Disaster Management Directorate – (384/2009).
- National Public Health and Medical Officer Service, Szeged, Mórahalom Small region Institute, (2467-2/2009).
- Szolnok District Mines Authority , Szeged office – (SZBK/1216/2/2009)
- Regional Land Registry Office
- South Plain Office of the Cultural Heritage Office.
- Bács-Kiskun County Agricultural Administration Agency, Forestry Directorate

The competent authorities defined their restrictions in their statements of approval required to the construction permit, related to the road section (or gave their consent without restriction) which must be taken into full consideration by the experts drafting the construction plan and the staff making the construction work.

Informing the publicity:

The competent authority 26) 13. published the notice of the competent environmental authority in compliance with Section IV of the Government Decree 3012/2012 within 15 days after submission thereof with the purpose of informing the publicity, based on which comments can be made and appeals can be launched in connection with the procedure.

Provisions of the licenses related to Natura 2000 areas: Based on the impact assessment documentation related to Natura 2000 area the resolution closing the preliminary assessment procedure will prevail in respect of the segment. . The construction permit did not include any other provision. (Lower Tisza District Environment, Nature Conservation and Water Management Authority 52992-1-4/2009.

Monitoring: Provisions of the environmental license are valid for the section. The construction permit did not include any other provision.

3. CONNECTION WITH THE LAND USE PLAN

Local government, directly affected by the project:

Békéscsaba, Telekgerendás, Csorvás, Orosháza, Székkutas, Hódmezővásárhely, Algyő, Szeged

In the development region the local governments of the program area participated continuously in the preparation of the investment and in the process of implementation as directly affected organizations. The notaries of the related localities participated in the environmental and licensing procedures as competent authorities, - as primary level construction authority -, and also as representatives of protected natural areas of local relevance. They announced their comments/questions regarding the plan and communicated the comments/questions they received from the population.

As the development is relating to an existing main road the land usage plans are in line with the plans developed to-date in respect of the locality.

4. SURVEY OF THE AFFECTED NATURA 2000 AREAS

Environmental and nature conservation studies were elaborated in several phases for the examined road sections of Main Road # 47. IMSYS Kft elaborated a detailed survey of the nature in 2011/2012 for the feasibility Study and Study Plan related to the Hódmezővásárhely bypass section (K047.14.). Dorocium Kft prepared a detailed nature survey. Preliminary environmental document was also developed for these sections, and Natura 2000 impact assessment document also makes part of it.

On the full section examined 3 Natura 2000 areas are affected, which were analyzed in Natura 2000 impact assessment documentation. These project elements (*K047.01.*, *K047.02.* and *K047.03.*) are existing sections, which have not been affected by construction. The impact assessments were submitted to the Lower Tisza District Environment, Nature Conservation and Water Management Authority as the underlying documents of the preliminary environmental study issued in February 2013.

Affected Natura 2000 sites

1. Mágocs brook SCI

Area name: Mágocs brook

Area code: HUKM 20006

Status of the area: Special Nature Conservation Area, SCI

Mágocs brook Natura 2000 (Special Nature Conservation Area) covers the planning track between the segments 160+550 – 167+263 km, according to the plans, the length of the area is 230 m and its width is 7 m, the overall territory is $1510 \text{ m}^2 = 0.15 \text{ ha}$. The section of Mágocs brook affected by the planned investment is located at the Main Road #47 and the neighboring ditch. Consequently no habitats, plant or animal species which are of community relevance in their present condition – are present in the area. Natura 2000 habitats of natural or close-to-natural condition and larger groups of Natura 2000 designating species are located beyond the impact area.

Mágocs brook can be characterized as a waterflow running in a regulated, artificial bed. Length of the bed – including the embankment - is ca 12-14 m. The permanent open water surface is ca 2-3 m wide. The water is rather polluted in the surveyed section, stagnant, with unpleasant smell (stinking), its surface is covered with stains of metallic iridescent color (practically it is functioning as a sewage channel). It is also contaminated with solid communal waste due to the vicinity of the road. In the heavily contaminated, non-transparent water the presence of the Natura 2000 designating species identified in the Natura 2000 area (e.g. fish, amphibious, and reptiles) is excluded.

There is no seaweed in the water. Water and riverside plants are not present, either, although the plants of the bed were mowed recently, when trees and bushes were cut out as well. Small batches of reeds (*Phragmitetum communis*) are present, which climb on the side of the bed. Salt marsh bulrush (*Bolboschoenus maritimus*) and common great bulrush (*Schoenoplectus tabernaemontani*) are also present in the water-side zone, along with the reed. No other water or water-side plant was identified.

The banks of the channel were cleaned recently, the sides of channel-bed, that were covered with shrub and trees were cleaned, therefore they are mostly covered with general

plant species which indicate disturbance, like *Atriplex patula*, *Echinochloa crus-galli*, *Elymus repens*, *Rumex patientia*, *Urtica dioica*, *Rubus caesius*, *Ballota nigra*, *Verbena officinalis*, *Chenopodium album*, *Carduus acanthoides*, *Verbascum phlomoides*, *Artemisia vulgaris*, *Cynoglossum officinale*, *Euphorbia cyparissias*, *Tripleurospermum inodorum*, *Equisetum ramosissimum*, *Galium aparine*. Robinia (*Robinia pseudocacia*)germinating in large amounts which suggests that the other side was also covered with trees. Hajdúér-Görbedi channel connects to Mágocs brook from the Eastern direction. Its narrow ditch is covered with plants poor in terms of species, i.e. mono-dominant reeds. Its water – like the water of Mágocs brook

A narrow forest lane ran along the pathof Mágocs brook, which has been cut recently (1-2 years ago). In the impact area we did nto identify any plant species of community relevance during the survey, and no domestic protected species were identified, either. The stock of the small mammals and rodents living in the area, or their protection status does not influence the planned development project

The impact does not exert significant effect on the habitats in Natura 2000 areas which make the basis for designation, as the investment (reinforcement of the pavement) will affect only habitats in degraded condition, laying along the roads. In case of implementation of the investment the plant species of community relevance (Natura 2000) will not be damaged.

Provisions of the licenses related to Natura 2000 areas:

The provisions of the resolutions closing the preliminary assessment are applicable for the segment. The construction permit prescribed that it is forbidden to deploy borrow pits or dumping grounds in the Mágocs Brook SCI Natura2000 area (between he road segments 161+845 and 162+100 km). (Lower Tisza District Environment, Nature Conservation and Water Management Authority) (55167-2/2008, section 14)

The surveys confirmed that neither designating habitats nor designating species of the nature conservation areas are present in the crossing section of Natura 2000. Based on the documentation of the impact assessment no harmful or destructive impacts will be experienced in the Nature 2000 area due to the construction and operation of the planned Main Road #47 provided that the regulations on nature conservation are observed, therefore application of compensating measures is not justified.

2. Vásárhelyi and Csanádi Grassland SCI

Area name: Vásárhelyi and Csanádi Grassland

Area code: HUKM 20001

Status of the area: Special area of Nature Conservation, SCI

A four km section of the track runs between Csanádi Grassland SCI and Vásárhelyi and Csanádi Grassland SPA areas. Within the area of 9,851 ha 0.03 ha of the heavily degraded Pannonic salt steppes and salt marshes are expected to be impacted, but it is not a significant part of the Natura 2000 network. These have been confirmed in the statement 94.177-1-44/2013 of the competent authority, who declared that pursuant to the provisions of Annex 14 of the Government Decree 275/2004 (X.8) submitted as part of the environmental documentation no significant effect is expected related to the Nature 2000 areas.

No Nature 2000 designating species were identified in the sections of outstanding nature conservation area of Vásárhelyi and Csanádi Grasslands (HUKM20001) and the special bird conservation area of Vásárhelyi and Csanádi "Pusztá" (HUKM10004) affected by the planned

investment. In case of implementation of the investment the plant species of community relevance (Natura 2000) will not be damaged.

3. Vásárhelyi and Csanádi “puszta” SPA

Area name: Vásárhelyi and Csanádi Grassland

Area code: HUKM 10004

Status of the area: Special Bird protection Area, SPA

Natura 2000 area of Vásárhelyi and Csanádi Puszta touches the right side of the examined road section with the length of 872 m between the road segments 174+157-175+063. Although the length of the affected area is 906 meters **it is scattered due to the existing dirt road connections.**

The two Natura 2000 areas are largely overlapping each other. By calculating with the full length of the bird protection area between the segments 174+157 – 175+063 km) and the nature conservation sections to be taken out (road sections between 177+220 – 177+360) the length of the actual affectedness is **1012 m.**

Taking into consideration the designing feature of the cycle track (width of the pavement; 2.60 m, width of the shoulder: 0.50+0.50 m) according to the plans the rate of usage - calculated with a 1012 m long and 3.5 m wide area – is **3643 m² = 0.36 ha.**

The parallel cycle track construction phase will directly affect the degraded version of the Pannon Salines (FlaxOC) (code: 1530) at the section of nature conservation area of outstanding importance, called Vásárhelyi and Csanádi Grasslands (HUKM2001), which are affected by the planned investment. The track of the planned cycle road runs along the skirts of the sodic grass bordering the ditch along the main road.

Provisions of the licenses related to Natura 2000 areas:

Based on the data collected within the impact assessment and the analysis of such data we can declare that the planned investment will not influence significantly the natural condition of the affected Natura 2000 area. This has been confirmed also by the competent authority in its representation No. 94.177-1-44/201.3

The construction permit prescribed that deployment of borrow pits and damping grounds is prohibited in the Natura 2000 areas. So as to provide for the protection of Natura 2000 areas the construction area must be separated from Natura 2000 areas with a temporary protective fence (development of protective zone) at the following sites:

- starflowers located between 173+880.03 -173+991.16 km road segments
- starflowers located between 175+082.15 – 175+090.13 km road segments
- provide for protection of the grassland between road segments 177+033.35 – 177+210.32 and 177+215.05 – 177+301.09 km
- provide for protection of meadows and reed cultivations between road segments 193+342.85 – 193+435 km