

ANNEX 3.9:

DECISION ON WATER MANAGEMENT CONDITIONS FOR WWTP LESKOVAC, MINISTRY OF AGRICULTURE, FORESTRY AND WATER RESOURCES, SEPTEMBER 14, 2005



Republic of Serbia
MINISTRY OF AGRICULTURE, FORESTRY AND WATER MANAGEMENT
Directorate for Water
No. 325-05-900/2005-07
14 September 2005
Belgrade, Nemanjina 22-26
Telephone and fax: 011/3115370

The Ministry of Agriculture, Forestry and Water Management, Directorate for Water, upon reviewing a request of the Municipal Directorate for Urbanism, Civil and Urban Planning, of the Leskovac Municipality No. 1353-371/04-02, dated 25 July 2005, and pursuant to Articles 14 and 15 of the Law on Water (Official Gazette RS, No. 46/91) and Article 192 of the Law on Arbitration Proceedings (Official Gazette FRY, No. 33/97) reaches the following

DECISION ON WATER-MANAGEMENT CONDITIONS

The Municipality of Leskovac, in the procedure of preparation and elaboration of technical documentation for the construction of the main collector and the Central Wastewater Treatment Plant for the town of Leskovac, has been issued the following water conditions:

1. All plants, facilities and installations shall be designed pursuant to Articles 1 and 2 of the Law on Water, and Article 19 of the Law on Construction of Buildings/Facilities (Official Gazette SRS, No. 44/95).
2. Designed solution shall respect the planning documents referring to spatial planning, both in regard to the land purpose and ground leveling, in particular in view of the Wastewater Treatment Plant site.
3. Project documentation shall analyse technical solutions for the construction of the planned facilities, in such a way as not to compromise the functioning and maintenance of the existing water structures, hydro-technical infrastructure and water regime of the existing water course.
4. Identification of wastewaters from industry and households shall be carried out, by quantity and quality criteria, for the agreed project period. Dimensioning of the facilities shall be carried out in accordance with hydraulic calculations and analyses, whereby all waste waters produced shall be taken into consideration.
5. Collecting of all discharges from industrial plants and households into a single sewerage network shall be foreseen, and all wastewaters shall be directed to the Central Waste Water Treatment Plant.
6. Provide for a safety solution in regard to the main collector, in the sanitary protection area of the water supply source related to the above settlements.
7. Industrial wastewaters may be discharged into the sewerage network only upon adequate pre-treatment, which shall ensure that the quality of treated waste waters fully satisfies the prescribed sanitary-technical conditions for sanitary wastewaters discharge into the public sewerage.

In case all conditions have not been set forth so far by the Municipality, it shall be done urgently, pursuant to Article 56 of the Law on Water.

13 December 2007



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8. With respect to the plant, adequate technical-technological solutions shall be envisaged, in order to ensure that the treated wastewater quality will not endanger at any time the prescribed water quality of the recipient.
9. Recipient of the treated water is the river Veternica, while the final recipient is the river Juzna Morava. Pursuant to the Decree on water courses categorisation and the Decree on water classification (Official Gazette SRS, No. 5/68), the river Juzna Morava is classified as class II water course.
Maximum allowed concentrations of harmful and hazardous substances in the class II water are defined by the Regulation on hazardous substances in waters (Official Gazette SRS, No. 31/82).
10. Characteristic discharges of the river Juzna Morava on the given section are as follows:
 - Calculated high discharges
 - Average recurrence interval of 100 years high discharge $Q_{1\%} = 1390 \text{ m}^3/\text{s}$
 - Average recurrence interval of 50 years high discharge $Q_{2\%} = 1210 \text{ m}^3/\text{s}$
 - Medium discharge $Q_{\text{med}} = 33.3 \text{ m}^3/\text{s}$
 - Low discharge $Q_{95\%} = 1.00 \text{ m}^3/\text{s}$

Characteristic discharges of the river Veternica on the given section are as follows:

- Calculated high discharges
 - Average recurrence interval of 100 years high discharge $Q_{1\%} = 210 \text{ m}^3/\text{s}$
 - Average recurrence interval of 50 years high discharge $Q_{2\%} = 167 \text{ m}^3/\text{s}$
11. Impact of the treated waste water discharge in the water course shall be calculated for the typical discharge, average low monthly discharge of 95% probability.
 12. Project shall envisage the measurement of the treated wastewater discharges, as well as the final control of the effluent, prior to the discharge into the recipient.
 13. Outlet of the treated wastewater shall be defined in such a way as to avoid the erosion of the river bed and the river banks, at all water flow regimes in the river, as well as for flooding.
 14. Plan shall foresee the manner and location for digging and construction of the right river bank embankment on the river Veternica, in order to carry out the works envisaged. Due to the fact that the above is a protective embankment, comprised within the flood protection system (Operational Plan "Official Gazette RS, No. 17/05), it is necessary to obtain the authorisation from the Head of flood protection unit for the given protection section (M.10.1.)
Foresee the technology of works on the opening and closure of the protective embankment, as well as the quality inspection of the works carried out. Foresee the closure of the embankment in conjunction with the existing embankment, as well as coherence and compactness ensuring the stability and water-impermeability of the embankment.
Foresee the landfill site for disposal of the excavated material and other construction material used during the construction works, which should be located outside the wetted perimeter, and on sites which do not compromise the existing water regime.
 15. Take into consideration and, if appropriate, foresee the plant protection against high waters, i.e. flood protection.

16. Upon completion of the technical documentation elaboration, and upon its review, water approval shall be obtained from this Ministry, pursuant to Articles 16 and 17 of the Law on Water, and Articles 1 and 2 of the Regulation on the technical documentation content, which is submitted in the procedure of obtaining the water approval and water permit (Official Gazette SRS, No. 3/78).

EXPOSITION

Municipal Directorate for Urbanism, Civil and Urban Planning, of the Leskovac Municipality, in the procedure of preparation and elaboration of technical documentation for the construction of the main collector and the Waste Water Treatment Plant for the Leskovac Municipality, presented a request for water management conditions issuance, which was submitted and filed at the Administrative Office of the present Ministry on 27 July 2005, No. 325-05-900/2005-07.

The request and its amendment, submitted on 08 September 2005, were accompanied by the following documents:

- Urbanistic conditions for the construction of the main collector up to the Waste Water Treatment Plant, PC Municipal Directorate for Urbanism, Civil and Urban Planning, of the Leskovac Municipality – Department for Spatial Planning, dated April 2005;
- Urbanistic conditions for the construction of the Wastewater Treatment Plant for the Leskovac Municipality, PC Municipal Directorate for Urbanism, Civil and Urban Planning, of the Leskovac Municipality – Department for Spatial Planning, dated January 2005;
- Response by the PUC Vodovod, Leskovac, No. 3414, dated 10 August 2005.
- Opinion by the Republic Hydro-meteorological Service of Serbia, No. 92-I-1-209/2005, dated 31 August 2005;
- Opinion by the PPMC “Srbijavode”, WMC Morava – Nis, No. 1668/2 and 1727/2, dated 21 July 2005.

Based on the above mentioned documents, the following facts may be presented:

Wastewater of the Leskovac Municipality (sanitary, industrial and storm water) have been discharged up to date, without any treatment, through the main outlet – collector, on the right bank of the river Veternica, into the river Veternica, which is a left tributary of the river South Morava. On the other hand, the town of Leskovac is supplied by drinking water from artesian wells located on the river banks of the river Veternica.

In order to solve the problem of wastewater evacuation of the above settlements, as well as to protect the surface and ground water against pollution, the Leskovac Municipality shall carry out the planning and construction of the main gravity sewer up to the Central Wastewater Treatment Plant. It is foreseen that the future plant shall be located downstream of the town and of the settlement of Bogojevce, near the confluence of the river Veternica to the river Juzna Morava.

Due to the fact that the area is within the flood protection zone, for both water courses, the conditions No. 14 and 15 have been set forth, as in the disposition of the present Decision.

Due to the fact that the future main gravity sewer shall pass through a strict area of sanitary protection of water supply sources, a requirement under b) has been set forth in particular, as in the disposition of the present Decision.

Upon review of the present request, and taking into consideration opinions comprised in the enclosed documentation, the competent department of the present Ministry has proposed the issuance of water conditions, as mentioned in the disposition of the present Decision.

The Decision has been registered in the Water Book of the present Ministry, for the Water district of the river Morava, No. 1957.

The present Decision is final in the administrative procedure, whereby no appeal may be lodged, except for initiating proceedings before the Supreme Court of Serbia, within 30 days after the date of receipt of the present Decision.

Deliver to:

- Investor
- PWMC "Srbijavode"
- Leskovac Municipality
- Water Book
- Archive

DIRECTOR

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