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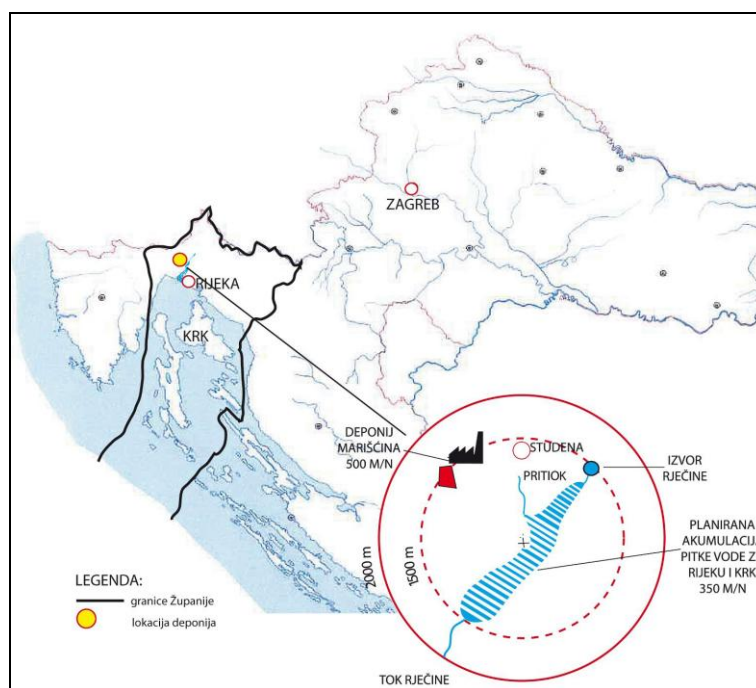
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MARIŠĆINA – CENTER FOR THE GARBAGE, NOT WASTE MANAGEMENT

Basic facts:

Marišćina:

- Location on which institution of Primorsko-goranska County and Ekoplus Ltd has decided to build County waste management center - for now only landfill
- It is located in the area of municipality Viškovo - population of 14.495 residents.
- Close to municipality Klana - population of 1.931 residents
- Distance from the nearest populated places - Marčelji in municipality Viškovo (2.127 residents) - 800 m and Studena in municipality Klana (409 residents) - 750m
- At an altitude of 500 m
- Distance from the city of Rijeka (centre of the County Primorsko - goranska) - 10 km
- Distance from the River Rječina source - 2,5 km, 150 m above - on karst and earthquake prone terrain (the only source of drinking water above sea level for the area around the city of Rijeka - 128.735 residents)
- It is water-protected area of level IV



map of the Marišćina location and its relation to the River Rječina source

Ekoplus Ltd:

Ekoplus, trading company for waste management, established in 2001 by Primorsko-goranska County, the city of Rijeka and utility company Čistoća Ltd with main task of designing, preparing, constructing and managing new integrated waste management system in Primorsko-goranska County. Capital increase in kind (part ownership of the land on Marišćina), municipality Viškovo entered the ownership structure in the year of 2006, municipality in whose area County waste management center Marišćina will be build.

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Problems:

There are several important problems.

First of all, every citizen of Republic of Croatia has constitutionally guaranteed right to a healthy environment. Unfortunately, residents of municipalities Viškovo, Klana and broader surrounding area have lost that right. Plan for County waste management center is not even near to its realisation, because of the reason that Primorsko-goranska County, the city of Rijeka, utility company Čistoća Ltd and municipality Viškovo don't have financial means to realize the investments they've been planning. Therefore, as a result, on the area where County waste management center should have been built, baled and unsorted garbage is deposited. Namely, Viševac landfill, which was in use from year 1964 to 01.01.2012. has been closed due to overcapacity. Then utility company Čistoća Ltd decided that municipal waste will be temporary baled on Viševac, and baled garbage will be transported to Marišćina. Problem of the project delay they solved by inserting so called "phase zero" in the project, which was never defined in project - temporary disposal of baled garbage on temporary plateau and construction of a cassette in which garbage which is temporary baled on plateau will be disposed till MBT (Mechanical Biological Treatment) facility is completed.

Problem appeared after May 10th 2012. when baled garbage started to be disposed on temporary plateau of the future County waste management center. Already on June 1st 2012. residents of Marčelji began to feel unpleasant stench. As the unpleasant stench started to be more intense, on reaction of local committee Marčelji, on July 13th 2012. Inspectorate of Ministry of Environmental Protection and Nature orders utility company Čistoća Ltd to neutralise unpleasant stench.

On July 16th 2012. municipality Viškovo, on local committee Marčelji's request, sets on Marčelji area certified station for air quality measurement. Measurement lasted for 7 days and it detected that concentrations of airborne particles PM10 and benzene were higher than prescribed. On July 24th 2012 utility company Čistoća Ltd sets so called Deodorization technology - "anti-stench curtain", which gave no results whatsoever, except that it spends on daily basis between 4.000 and 5.000 kunas on attempt of deodorization.

Fact which remains is that residents of municipalities Viškovo, Klana and broader surrounding area between 6 and 8 o'clock in the morning and 19 and 22 o'clock in the evening (unfortunately, sometimes even in between these hours) close their homes, because it is unbearable outside from unpleasant stench. Also, problems with irritation of respiratory tract and ocular mucous membrane became very common, especially after deodorization. Countless of times State Inspection of Ministry of Environmental Protection and Nature, on residents' insistence went out into the field, but sadly they haven't done anything yet on that matter.

By decision of local government on September 10th 2012., majority of municipal council of municipality Viškovo voted prohibition of further garbage transport on landfills in municipality Viškovo and it also requested that baled garbage must be disposed outside municipality Viškovo, but utility company Čistoća Ltd was granted, with new temporary licence, to open disposed baled garbage from plateau Marišćina and place them (temporary) in cassettes with new garbage collected on daily basis. From that moment, garbage is no longer baled, and trucks unload new garbage on a pile, undisturbed.



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Basically, primitiv landfill where unsorted garbage is being buried into the ground, with exception that beneath tones and tones buried garbage there is protective foil (trodden by trucks and machines for handling garbage) and clay layer without any control system under that layer. So, nobody knows whether or not there is leakage... Control is executed on secondary source of drinking water, about 15 km air distance away from Marišćina - Pod Jelšun and Cerovica which are at 100m above Adriatic Sea level. A month ago, unpleasant stench started to spread not only on the North of municipality Viškovo, but also in Studena and Klana. Nothing specifically has been done yet, and residents have been advised by the authorities to be patient for a few years needed for the problem to be solved. Furthermore, residents have been reassured that the stench wasn't that bad.

Second, considering that Environmental Impact Assessment Study for County waste management center was conducted more than ten year ago, and project has experienced several alterations, modifications and additions for which components new Study haven't been made, we consider that this Study as such cannot be authoritative because the basic parameters have failed, like wind rose, because none of the responsible cannot explain appearance of unpleasant stench so far away from Marišćina. The area is earthquake prone, and karst terrain hides precious drinking water - source of the river Rječina and future drinking water accumulation. Namely, almost 90% drinking water for area of Rijeka is obtained from spring Zvir and source of the river Rječina (the only one above sea level). All seven water sources from which water for public water supply is taken are underground and karst, have natural quality and suitable for drinking, but in the same time because of characteristics of karst terrain, very sensitive with high risk of changes in the quality. Because of that the responsible should systematically care about protection of source of drinking water and not build 'wild' landfill above it. It should be pointed out that the controlling of possible strains which has been exerted is dislocated.

Third, absolute indifference and ignorance of the authorities, local government, the city of Rijeka, County, and responsible Ministries which ignore the existence of serious environmental and human problem.



view on Marišćina

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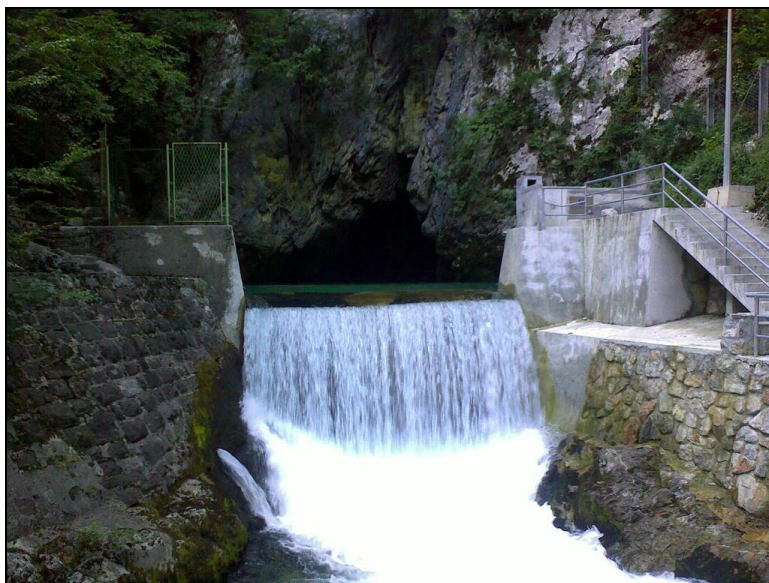
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baled unsorted garbage



River Rječina source

Facts:

- Distance between Marišćina and source of the River Rječina is 2,5 km
- Environmental Impact Assessment Study for this project which was made 11 years ago has been empirically proven incorrect.
- On May 10th 2012 the transport of baled garbage has started from landfill Viševac to Marišćina, although certificate of occupancy on which baled garbage can temporary be disposed on Marišćina is issued on May 25th 2012 – illegally.
- The most primitive way of garbage management was predicted by building "phase zero" of Marišćina, identical to the one on the closed landfill Viševac
- Stationary air quality measurement station which should be under control of Department of Public Health of Republic of Croatia is defective, and County Department of Public Health didn't want to take it under its control. That means that



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there was no basic monitoring of gases impact on the environment, although that kind of monitoring was specifically stated in all permits.

- The basic prerequisite for putting Marišćina into operation as the finalized project is to build a new road to Marišćina - section of a road hasn't even started to be constructed yet, and the trucks are constantly passing through the place of Marčelji. It should be mentioned that only a few months ago there were prohibitory signs on the road for the trucks heavier than 5t.
- Independent air quality measurement ordered by municipality Viškovo in period from July 7th 2012 to July 25th 2012 detected higher concentrations of airborne particles PM10, cancerogenic benzene (C6H6) and precursors of ozone and cancerogenic molecules NO, NH3, p-xylene.
- Baled garbage on location Marišćina were disposed on earth plateau without any protection to the ground. Because Marišćina is water-protected area of level IV, contamination of underground water, and by that possible contamination of source of the river Rječina is inevitable.
- According to the plans for "phase 0-1" of the County waste management center project it was established that MBT facility will be build which purpose would be sorting and processing waste. Baling garbage which has been through process of grinding and separation must be done on location Viševac, and every damaged peace of baled garbage must be returned to the location Viševac for reprocessing. The Ministry of Environmental Protection and Nature inspection findings undoubtedly established that described actions are not taken, and planed MPT facility wasn't build. Because of all that illegal disposing of unseparated and unprocessed garbage result is spreading of unpleasant stench which has been treated for days with chemicals, with high and unjustified expenses, because there is no effect.
- Given that the total investment is worth 101.62 million euros, of which the EU will finance 22.3 million euros, the question is who will provide the remaining part of 79.32 million euros for the establishment of a new integrated waste management system in Primorsko-goranska County. The new system includes the construction of County waste management center Marišćina and five transfer stations in current landfills Krk, Rab, Cres, Delnice and Novi Vinodolski and rehabilitation of existing landfills, including Viševac. In this new proposal clearly states that the city of Rijeka, Primorsko-goranska County and Ekoplus have to finance the construction of MBT facility with 118 million kunas.
- The city of Rijeka has a budget deficit of 40 million kunas
- The MBT facility planned on Marišćina was dimensioned for admission and processing aproximately 100.000 t of garbage per year. Since the County produces aproximately 200 t of garbage per day - $365 \cdot 200 = 73.000t$ it's obvious that the project itself has been pretty oversized. Regarding we've been constantly reassured by the authorities that they've been investing great effort to enhace primary selection of garbage, we suppose thar during the following years the amount of unselected garbage should be less than 73.000 t per year.
- To deodorize DeoDepo agent has been used, which according to the utility company Čistoća Ltd is not harmful to residents near landfills - excerpts from technical manuals with the declaration: „*Special instructions for the product: Means is chemical composition and is not harmful to humans and the environment. Must be worn when handling product, goggles, mask and gloves. To ensure successful treatment, follow the instructions given and the agreed amount, and maintain regular treatment because*



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only that way you can get quality of results as the effect of this means. Warning: Keep out of the reach of children. Must be worn when handling product, goggles, mask and gloves. Store tool in tightly closed containers. Keep away from sources of ignition - no smoking. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice immediately and show this content."

- Law on Health Care Strategy of Republic of Croatia (NN 121/03) says:

Health Care II, Article 3:

"Every person has a right to health care and the ability to achieve the highest possible level of health, in accordance with the provisions of this Act and the Health Insurance Act. Each person is required to take care of their health. Shall not endanger the health of others. "

Measures of health care, Article 16 says:

Measures of health care are:

First, protection from environmental factors harmful to health including all measures for the preservation, promotion, monitoring and improvement of health and hygiene conditions for the life and work of a man ... "

- Evidently, the following laws of Republic of Croatia have been violated:

Environmental Protection Act Article 3 Paragraph 25, Article 151 Paragraph 3

Waste Act Article 4 Paragraph 1 and 2 Article 10 Paragraph 1, Article 41. Paragraphs 1st-8th

Air Protection Act Article 32 Paragraph 1, Article 42 Paragraph 1

As the Croatian Constitution. According to the Waste Act regulation and regulations from Article 6. Ordinance on the methods and conditions for the landfill of waste, categories and operational requirements for waste landfills (NN 117/07, 111/11), which has been valid in Republic of Croatia since 2007, it has been mandated that on landfill is only allowed a dispose of previously processed waste (in order to formally traverse existing legal regulations, permits have been specified that the disposal cassette will be used during three years, and afterwards the garbage should be taken out of it and be processed in MBT facility when completed.

Conclusion:

Here we have ineffective and harmful project. Such an attempt of backward garbage disposal (it's not waste, it's garbage) nowadays is simply unacceptable. It threatens the health of citizens, threatens the source of drinking water, and we all know how climate change is affecting the availability of drinking water in recent years and that this wealth, for generations to come must be protected, and not to gamble with it because of incompetence of individuals and one's interest. Because? this project is definitely not in the interest of the residents of Marčelji, Studena, Klana, Viškova, and neither the city of Rijeka nor the County.

The problem is also enormous and unnecessary investment. What we must do is stop this ecocide and find another solution. It seems to be complicated? It's not. Let's start with the primary selection of waste. In this way, in the very beginning, we can reduce the amount of waste by 70% of usable waste. Good examples of these practices can already be found in Croatia - Island of Krk and the town Čakovec. Not to mention global experiences as Canberra or San Francisco, where this percentage rises to 100%. In this case we do not need County waste management center, we do not need to endure stench, we do not need to jeopardize the future of our children, we do not need such a large investment in these times of crisis... Anyway, it's an outdated way of garbage management, we don't need to pay so much money

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for the secondary selection when there is a possibility to start the selection in our homes, with fewer investment. It just takes a little will and ethics, unfortunately mostly by the politicians.

The photographs below show us exactly the way we make progress toward the most modern way of garbage management on the area of County Primorsko-Goranska



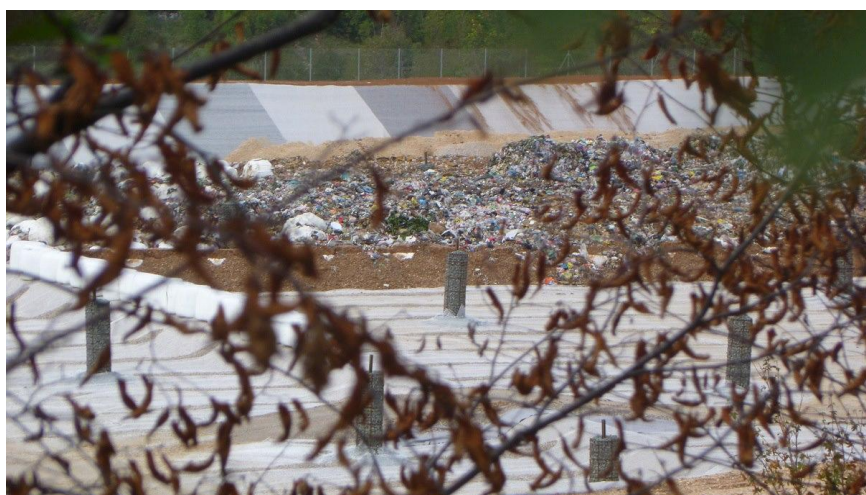
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