COUNTY WASTE MANAGEMENT CENTRE MARIŠĆINA

PUBLIC CONSULTATION AND DISCLOSURE PLAN

FEBRUARY 2010

PREPARED BY EKOPLUS LTD, RIJEKA

Content

1 INTRODUCTION

This document contains the Public Consultation and Disclosure Plan (PCDP) for the project County Waste Management Centre (CWMC) Marišćina. It provides for the identification of stakeholders, *i.e.* people who have an interest or a role in the project development or could be affected by the project, and sets out the planned programme for disclosure of project information and consultation with stakeholders, and methods for handling stakeholders' concerns and grievances.

Project basic facts:

Project Name	County Waste Management Centre Marišćina	
Sector	Waste management sector	
Area Impacted by the Project	Country:	Republic of Croatia
	County:	Primorsko Goranska County Population: 305.505 (2001)

This PCDP is prepared in the context of the preformed environmental impact assessment (EIA) process for the Project and as well as guiding document for further activities related with project information disclosure. This PCDP document was prepared by Ekoplus Ltd. It will be updated during the course of project preparation and implementation. It will be available on the Ekoplus Ltd website (www.ekoplus.hr) and be locally accessible to the public as part of the project disclosure policy as described below. The primary goals of the PCDP process are to ensure transparency and involvement of stakeholders in assessing and managing the potential environmental, socioeconomic, and health impacts of the CWMC Marišćina project; help manage risks, concerns and expectations through ongoing dialogue with stakeholders; and improve decision-making, and build understanding by actively involving key project stakeholders in two-way communication. Through this process, the project will better understand the concerns and expectations of stakeholders, and the opportunities to increase project value to the local community.

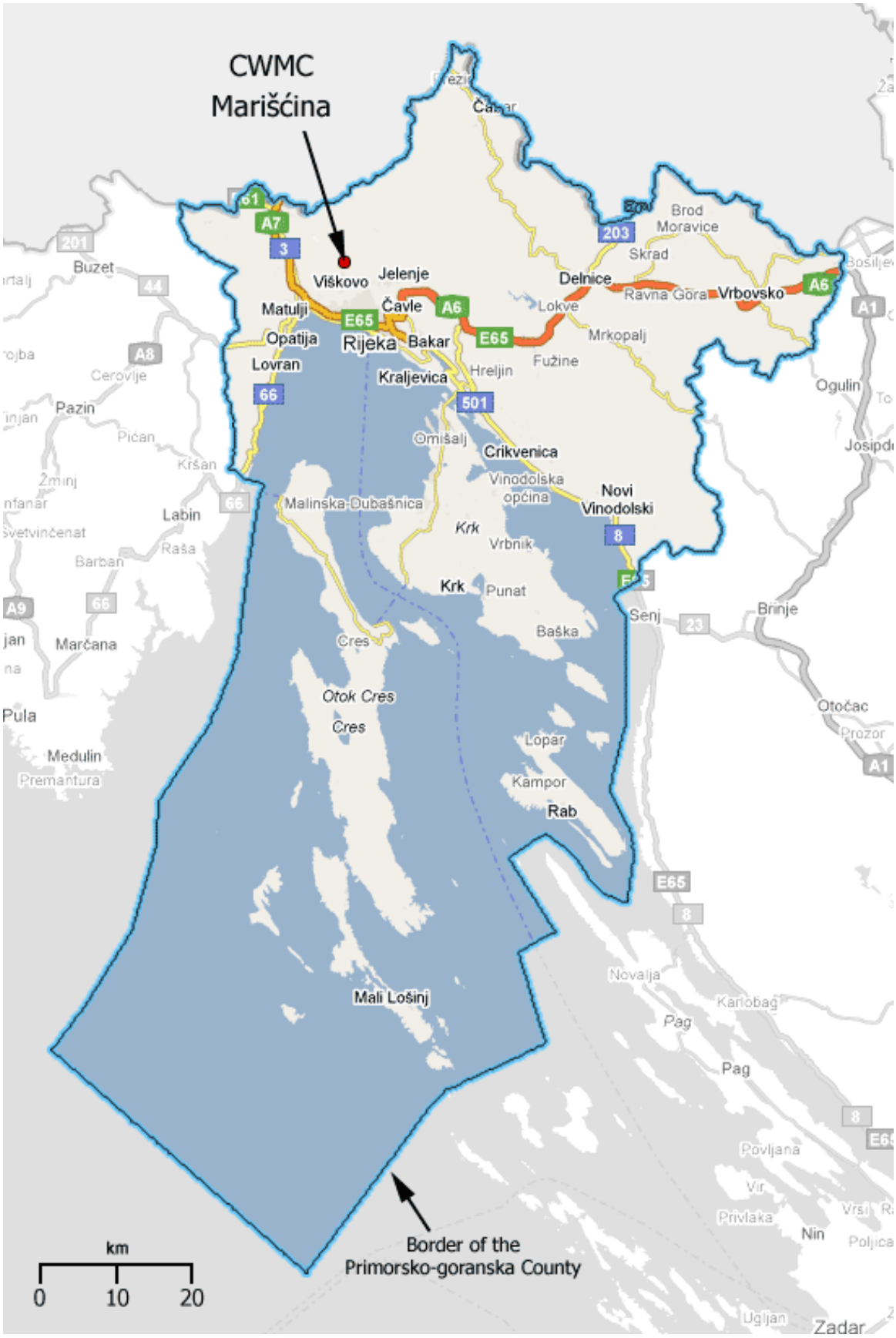
2 PROJECT CWMC MARIŠĆINA OVERVIEW

Municipal waste management in Croatia is undergoing a radical transformation from decentralised disposal of non-treated waste on numerous local sub-standard landfills within counties to centralized waste management at Waste Management Centres (WMC) serving needs of one county, or, in some cases, of several counties. The WMC concept has been adopted by the Croatian Government in its National Waste Management Plan.

At the moment in Primorsko Goranska County (PGC) municipal waste collection and disposal activities are performed by 9 municipal companies on 10 official landfills. Under such circumstances PGC has also defined strategy for establishing of integrated waste system (Figure 3) and establishment of the CWMC Marišćina is main objective of the strategy.

PGC selected the location "Marišćina" in the Municipality of Viškovo (Figure 1 and 2) as the most appropriate site for the future CWMC. The Final Environmental Impact Assessment Study was conducted in 2001. Based on the EIA, Marišćina, as the best location for the future CWMC was adopted in County Physical Plan and County Waste Management Plan. Public Utility Company Ekoplus Ltd has been established in year 2001 by the County for waste management at the County level. From that time numerous of technical documentation has been preparedand land acquisition at the site Marišćina is performed by Ekoplus Ltd.

Figure 1. Position of the CWMC Marišćina within the Primorsko-goranska County



The proposed location of CWMC Marišćina is situated on the northern part of Municipality of Viškovo, approximately 10 km from the city of Rijeka. The height of the location is between 463 and 515 meters altitude, near the public road Ž 5017 Marčelji - Klana section and Ž 5023 Marčelji - Studena section. Between the road and border of location there is a 50m wide protective area.

The entire area which will be covered by the CWMC „Marišćina“is 42,5 hectares.

The area of proposed location of CWMC is not inhabited. The nearest residential settlements are Studena – 750 m towards north, Klana 2200 m towards north-west, Marčelji 800 m towards south and Brnčići 2100 m towards southwest. The area belongs to Mediterranean and mountain section and thus this is a forestry area especially with “medunac” oak and black hornbeam.

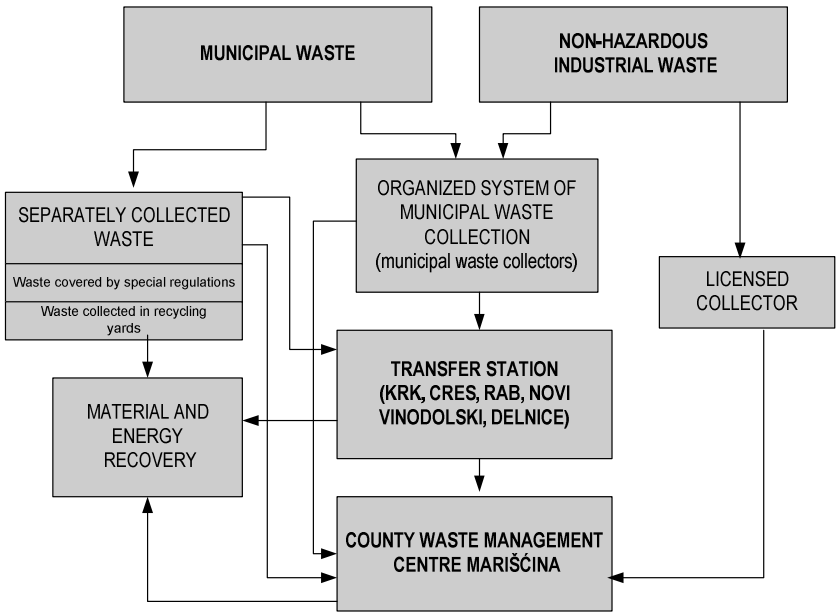
Figure 2. Position of the CWMC Marišćina within the Viškovo Municipality

CWMC Marišćina will accept municipal waste, non-hazardous industrial waste and recyclable waste material. Special regulations for specific waste categories (packaging waste, waste tyres, electrical and electronic waste, etc.) have been in force and a part of municipal waste will be collected through a separate collection system and may be conveyed directly or over a recycling yards at transfer stations (TS) or at CWMC to material or energy recovery. The remainder of the

mixed municipal waste will be collected in an organized way by companies licensed for municipal waste collection (current waste collection companies) that will transport collected waste to TS or directly to the CWMC. Non-hazardous industrial waste after the treatment (if needed) will be collected separately from municipal waste by an organized system of licensed collectors and transported separately to the CWMC. Separately collected delivered recyclable waste material will be received at the recycling yard in the CWMC.

New county waste management system is designed as follows:

Figure 3. Block diagram of municipal and non-hazardous industrial waste management system in PGC



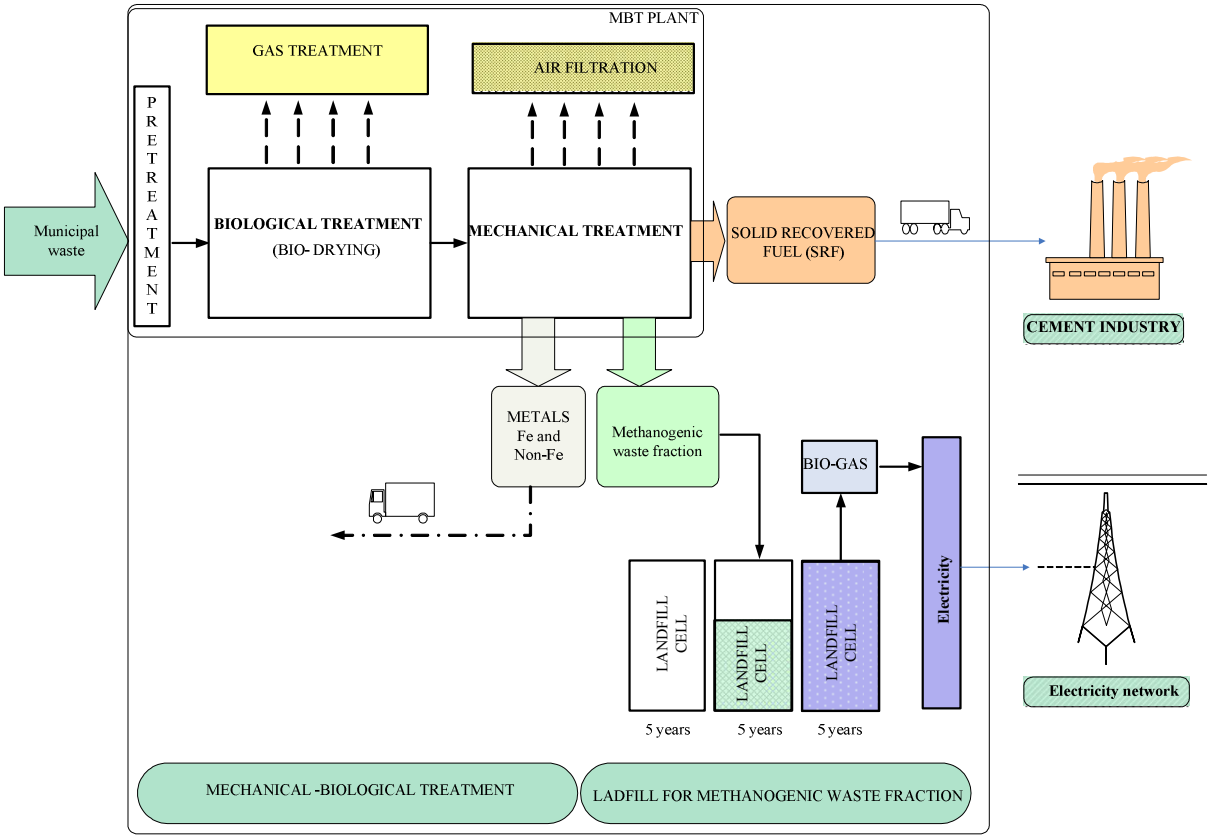
(Source: NWMP)

Municipal waste will be treated in the mechanical-biological treatment plant (MBT) before disposal. Outputs of the MBT Plant will be: reusable waste fraction – metals; solid recovered fuel (SRF) and biodegradable fraction of municipal waste. SRF will be shipped for further treatment. Biodegradable faction of waste will be disposed on the appropriate landfill cell, "controlled bio-reactive landfill" cell (CBL), where the biogas production will take place under controlled conditions with the aim of electricity production. Non-hazardous industrial waste will be disposed on the appropriate landfill cell. Recyclable waste materials will be shipped for treatment outside the centre.

2.1 Technical description of CWMC Marišćina

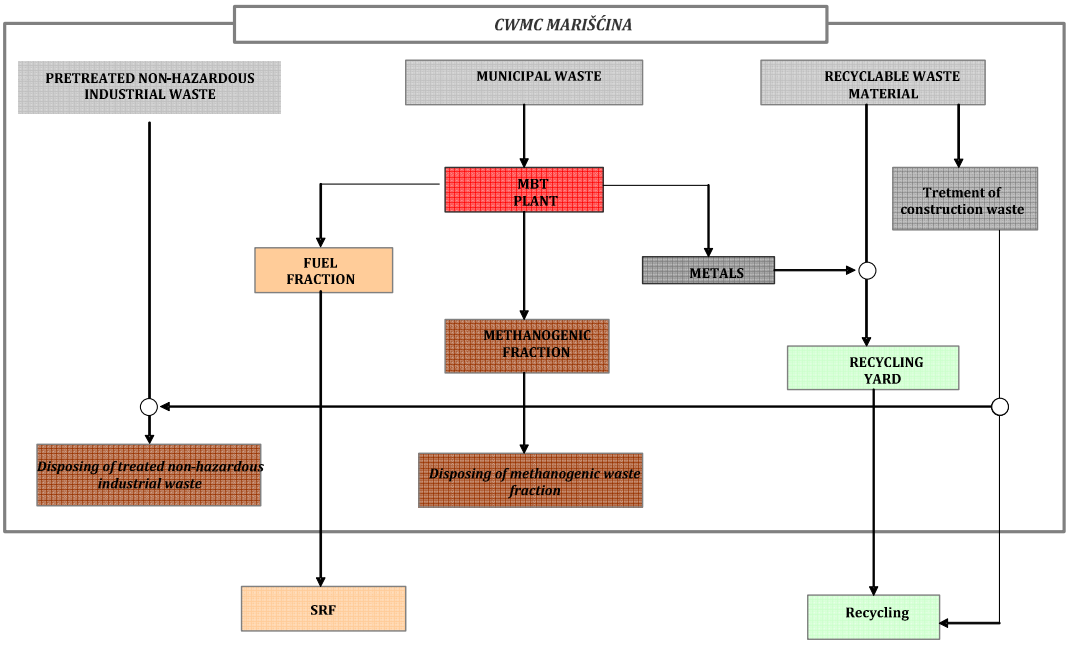
The CWMC Marišćina consists of several technical-technological units and facilities, but can generally be divided into the entrance area, disposal area and working area. It covers total area of 42,5 ha of which 5,5 ha is the working area, 21 ha the disposal area, 1,5 ha the protection green area, 2,4 ha internal and external roads and about 2,1 ha the fire protection area. The total capacity of the landfill area satisfies the needs of the PGC for waste landfilling up to year 2040.

Figure 4. Overview of the CWMC Marišćina



CWMC Marišćina will accept pre-treated nonhazardous industrial waste and accept and treat municipal waste. Accordingly to that waste flows (Figure 5) CWMC has been designed.

Figure 5. Waste flow at the CWMC Marišćina



Municipal waste flow

After the acceptance, inspection, weighting and registration delivered municipal waste will be transported to the Mechanical Biological Treatment Plant. Where will be treated in the following stages:

- **Receiving of incoming Municipal Waste**

  The incoming municipal waste will be unloaded, through the rapid opening doors, opened only for the unloading, into an underground pit inside the building. All waste handling will be operated by programmable bridge cranes, completely automated, and checked from the control room.

- **Mechanical pre-treatment -waste screening and bag splitting**

  From the incoming pit the bridge crane will automatically feed the wastes into the drum screener, where waste bags are opened with special blades and then waste will be screened to the two size fraction. Then both fractions will be transported to the appropriate acceptance pits, for the further treatment.

- **Bio-drying of waste**

  After mechanical pretreatment of municipal waste, smaller fraction will be transported to the area for bio-drying. The waste will be piled in this are in high 5 to 6m, depending on waste composition. The organic fraction of the municipal waste, for the presence of

water, carbon and nitrogen, is instable, able to ferment both aerobically and anaerobically. In the process, all the fermentable organic part (putrescible fraction) undergoes aerobic fermentation while releasing heat. This heat will be used both in order to additionally dry the dry fraction and to thermally hygienise the recovered parts, while guaranteeing a higher health and safety level during the treatment itself and in subsequent handling. The system developed does not aim only at managing the aerobic process in order to obtain humidified organic substance, but also to best exploit the exothermiy of the process to dry the totality of the waste in the least time possible. Due to the high temperatures reached in the mass (50-60°C), this aerobic process is a valid system for stabilizing, deodorizing and hygienising the material. This is a 12 -15 days static process.

The perforated floor and ductwork system allows process air to be drawn through the waste and transferred to the bio-filters mounted behind MBT Plant building. At the end of the process, starting with material with a water content around 30-40% (typical water content of un-segregated municipal waste or residue from waste sorting), the material obtained contains less than 20% of water. During the process total waste weigh decrees for 25 to 30%. The sucked air from area of bio-drying is treated in the bio-filter. After treatment air is clean, without bad odour, so it is save to release that air in the atmosphere. Once the bio-drying is completed waste is automatically loaded by the bridge crane to the drumscreen for additional mechanical treatment.

- **Mechanical Refining (SRF production)**

The mechanical treatment line is consisted from conveyers, screens and separators, with main task – producing of solid recovered fuel (SRF) with appropriate composition for industrial furnace (Cement Plants).

Mechanical refining line is consisted from:

Drumscreen - (here material fraction <20mm (mostly biological and inert fraction) is separated like **methanogenic waste fraction and is transferred to the bio-reactive landfill cell**)

Air-separator – the purpose of air separator is separation of material with low api gravity, mostly plastics, paper, cardboard and similar (as that material has high-calorific value it can be used as **solid recovery fuel (SRF**), from inert "heavy" fraction – methanogenic fraction (mostly biological and inert fraction with bigger dimension)

Shredder – SRF fraction is shredded here to the final fraction dimensions from 20 to the 100 mm, depending of usage

Magnetic separator allows the separations of all ferrous materials that can be sent to recovery; further **Eddy-current separator** enables the separation of aluminum, cooper and non-ferrous metals

- **Solid recovery fuel (SRF)**

  SRF given by this process has guaranteed minimal calorific value around 16 – 18 MJ/kg. It will be transported outside the CWMC for the further treatment.

- **Bio-reactive landfill cell** – disposal and further treatment of methanogenic fraction.

  The bioreactive landfill technology is based on the acceleration of the anaerobic degradation of the methanogenic (biodegradable) fraction of the waste leading to its mineralisation. This technology is developed due to specific characteristic of metanogenic fraction of municipal waste – it has high potential for methane production but only with addition of certain amount of water. This fraction does not contain easily degradable fraction of waste (due to process of bio-drying) and it is dry and partly stabilized, which means that during the process of disposing landfill gasses and lechate production are minimal, bad smells and animals on landfill are eliminated. After the cell will be closed process of biodegradation and methane production will be started with controlled liquid addition in closed landfill body by the system of horizontal pipes build in waste body during the disposal. Liquid which is foreseen to be added is purified lechate at the WWTP. Whole process of methane production and collection will be controlled and monitored. As this technology ensures high rate of methane production as well uniform rate of production trough the time, production of electrical energy from landfill gasses is foreseen at the CWMC.

  Bio- reactive landfill will be divided in landfill cell with each capacity for 5 years of disposal.

  Bottom sealing landfill cell layer is consisted from following layers:

  - Leveling layer 50 cm
  - Geosynthetic clay liner
  - HDPE geomembrane 2,5 mm
  - Protective geotextile 1.200 g/cm2
  - Drainage layer 50 cm
  - Geogrid

  Leachate collection in each landfill cell is made utilizing perforated polyethylene pipes that are laid within the drainage layer. Transfer of the leachate from the landfill cells to

the buffer pond is done by polyethylene pipes. Leachate from the buffer pond is pumped to the Waste Water Treatment Plant for processing.

Each landfill cell will be covered with top sealing layer designed as follows:

- Leveling gas drainage layer (30 cm)
- Geosynthetic clay liner
- Geodrain
- Top soil cover (100 cm)
- Grass

Non-hazardous industrial waste flow

After the acceptance, inspection, weighting and registration delivered non – hazardous industrial waste will be transported to the landfill cell for non –hazardous industrial waste. There will be no additional treatment of that type of waste at the CWMC due to the fact that only pre-treated nonhazardous industrial waste is acceptable at the CWMC (it has to fulfil criteria for acceptance of waste at landfills for non-hazardous waste given by Ordinance on the methods and conditions for the landfill of waste, categories and operational requirements for waste landfills (OG 117/07).

This landfill cell will have same bottom sealing layer, lechate collection system and top sealing layer as bio –reactive landfill cell (described in Chapter 2.1.2).

Common infrastructure of the CWMC

For normal function of CWMC it will include following as well:

- **Gas Collection Systems**

  Two types of degassing are foreseen for the CWMC Marišćina: gas collection system for the bio-reactive landfill cell – active degassing and gas collection system for the non-hazardous landfill cell – passive degassing

  Gas extraction shafts are built into the new dumping area so that each shaft is capable of extracting gas from an area of about 50 m in diameter.

  Gas which will be extracted from the open bio-reactive cell will be burned off at gas flare (active degassing). After full closure of the bio-reactive cells gas will be utilized for the production of the electrical energy.

  Passive degassing it is foreseen for the non-hazardous waste.

- **Waste water treatment plant (WWTP)**

Waste water treatment plant will treat following waste waters: landfill leachate, landfill gas condensate, waste water from washing of working areas, waste water from the bio-filter, waste water from washing internal and roofed areas, sanitary waste water, wheel- and truck-washing waste water, waste water from MBT plant and waste water from the transport centre. The WWTP will produce an effluent that will be discharged to the natural recipient thru infiltration wells. Boundary values and permitted concentrations of hazardous and other substances in effluent to be discharged into the natural recipient are specified in Ordinance on Boundary Values of Dangerous and Other Substances in Waste Waters (OG 94/08).

- **Other CWMC structures**

  For normal operating of CWMC following structures are foreseen to be constructed: perimeter fence, internal CWMC roads and parking, guarding hose at the entrance of CWMC, weighbridge, facility for wheel wash, administrative building, maintenance building and recycling yard etc.

- **Monitoring**

  Construction of the inspection wells around the landfill is necessary for monitoring of the ground water. Other monitoring requirements are prescribed in Environmental Impact Assessment: Decision of the Ministry of the Environmental Protection and Physical Planning, class: UP/I-351-02/00-06/31, reg. number: 531-05/03 of March 31, 2003.

2.2 Transfer stations

Transfer stations are also one of the essential parts of the system that has to be established. For the PGC is foreseen construction of 5 TSs (Delnice, Novi Vinodolski, Krk, Cres and Rab). The purpose of TSs is to receive waste from the surrounding settlements; the waste will be transloaded into the vehicles for long distance transport. Trucks with full semi-trailers will be forwarded to the CWMC.

Figure 6. Location of transfer stations

2.3 Project goals

The introduction of integral waste management system in PGC will provide - reduction of adverse impacts of waste on the environment:

- Reduction of the emission to soil and waters (preservation, protection and improvement of the quality of the environment in urban areas in 35 municipalities of the Primorsko – Goranska County);
- Reduction of greenhouse gas emissions from landfills;
- Prevention of negative climate changes;

- Minimization of adverse impacts on human health;

With reduction of number of landfills and reduction of landfilled waste amounts, the goals defined in National Waste Management Plan will be achieved:

- setting up of a waste management system in the region according to the regional/county concept,
- reduction of adverse impacts of waste on the environment by construction of landfill cells and related facilities as well as landfill management according to national and EU legislation,
- pre-treatment of waste before final disposal,
- reduction of the share of biodegradable waste in municipal waste for 55% with the implementation of the MBT technology,
- extraction of solid recovered fuel (SRF) will be achieved by construction of MBT Plant in amount of 35% of waste delivered to the CWMC "Marišćina",
- re-use of waste,
- reduction of quantities of waste deposited on landfills,
- raising of public awareness about the importance of recycling and re-use of waste,
- reduction of share of biodegradable waste in municipal waste by increasing the percentage of separate collection of biodegradable waste fraction up to 15% in 2035 and secondary waste treatment at the bio-reactive landfill cell,
- self-sustainable financing of the municipal waste management system.

3 REGULATIONS AND REQUIREMENTS

In 2007, Croatia ratified the UNECE Convention on Access to Information, Public Participation in Decision-making and Access to Justice in Environmental Matters (Aarhus Convention) which requires Croatia to include public participation in its environmental decision-making, such as environmental impact assessment process. The EIA process was performed during 2001 -2003 according the legislation in force at that point of time.

Meanwhile new legislation has been adopted with requirements for disclosure of information and public consultation during EIA (**Regulation on environmental impact assessment** (OG No.64/08, 67/09)). Bvasic requierments regardion public insite was applyed to the Marišćina Waste Management project.

In the last years numerous legislation acts regarding waste management are new adopted or updated, as well harmonised with EU legislation.

Regulations governing the area of waste management in Croatia at the moment are: Waste Act (OG No. 178/04, 111/06, 60/08, 87/09); Regulation on categories, types and classification of waste with a waste catalogue and list of hazardous waste (OG No. 50/05, 39/09); Ordinance on packaging and packaging waste (OG No. 97/05, 115/05, 81/08, 31/09); Decision on requirements regarding packaging labelling (OG No. 155/05, 24/06, 28/06); Waste Management Strategy of the Republic of Croatia (OG No. 130/05); Ordinance on waste tyre management (OG No. 40/06, 31/09); Ordinance on the register of legal and natural persons dealing with intermediation activity in organising waste recovery and/or disposal, and of legal and natural persons dealing with the activity of non-hazardous waste export (OG No. 51/06); Regulation on the criteria, procedure and manner of determining compensation to real estate owners and local self-government units (OG No. 59/06); Decision on the allowed quantity of waste tyres to be used for energy purposes in 2006 (OG No. 64/06); Regulation on supervision of transboundary movement of waste (OG No. 69/06, 17/07, 39/09); Ordinance on waste oil management (OG No. 124/06, 121/08, 31/09); Ordinance on waste batteries and accumulators management (OG No. 133/06, 31/09); Ordinance on the management of end-of-life vehicles; (OG No. 136/06, 31/09); Ordinance on waste management (OG No. 23/07, 111/07); Decision on the allowed quantity of waste tyres to be used for energy purposes in 2007 (OG No. 36/07); Ordinance on the method and procedures for managing waste containing asbestos (OG No. 42/07); Ordinance on methods and requirements for thermal treatment of waste (OG No. 45/07); Ordinance on medical waste management (OG No. 72/07); Ordinance on the management of waste electrical and electronic appliances and equipment (OG No. 74/07, 133/08, 31/09); Decision on National target of share of returnable packaging in 2008 (OG No. 82/07); Waste Management Plan of the Republic of Croatia for 2007-2015 (OG No. 85/07); Ordinance on the methods and conditions for the landfill of waste, categories and operational requirements for waste landfills (OG No. 117/07); Ordinance on construction waste management (OG No. 38/08); Ordinance on management of wastewater treatment sludge when used in agriculture (OG No. 38/08); Ordinance on management of waste from the titanium dioxide industry (OG No. 70/08); Instruction on handling waste containing azbestos (OG No. 89/08); Ordinance on the management of polychlorinated biphenils and polychlorinated terphenils (OG No. 105/08) and Ordinance on managing waste from research and mining of mineral raw materials (OG No. 128/08).

Ekoplus Ltd has to develop policies on transparency and consultation which will be based on following goals:

1st goal: Positioning Ekoplus as a company which is the first in Croatia to systematically deal with solving the problem of waste management for the area of the whole county, and in a way that is acceptable to all European environmental standards.

In order for this goal to be realized, one needs to significantly influence the awareness of people at the units of local self-government of the County of Primorje – Gorski Kotar, at utility services which collect waste in the County of Primorje – Gorski Kotar, in ministries and state bodies of the Republic of Croatia, in professional public and, most importantly, in the media. While doing so, one needs to inform them well about the projects and possibilities which Ekoplus implements/offers, and introduce the European trends in waste management to them.

One can use newsletters, personal contacts, organization of seminars and the visits of experts, visual communication and, by all means, tools for media relations.

2nd goal: Creating environment in which Ekoplus is recognized as a desirable partner.

In order to create a positive environment which would enable, that is encourage local authorities of the County of Primorje – Gorski Kotar to opt for the cooperation with Ekoplus, one should proactively communicate with the units of local self-government and the inhabitants of the Viskovo Municipality as well as the whole of the County of Primorje – Gorski Kotar, utility services which collect waste in the County of Primorje – Gorski Kotar, environment associations and the media. By systematic informing, presenting Ekoplus and CWMC in a positive context and influencing their positions, one needs to build trust and long-term partnership relations, as well as soften the views of those who strongly oppose to construction of the Center.

Using of the following communication tools is suggested: newsletter, personal contacts, organization of study tours, forming of lobby group in the Council and the Town Government of the Viskovo Municipality, an advertising campaign, sponsorships of cultural and sport associations and environmental initiatives, participation in events within the framework of Matejna, the organization of an art competition, engagement of celebrities, educational campaigns, the Internet and tools for the media relations.

3rd goal: Creating general awareness that there is no alternative to the construction of the County Waste Management Centre if one wants a long - term solution to the problem of waste management in the County of Primorje – Gorski Kotar.

In order to create a general awareness that without the fast construction of CWMC Mariscina the County will face an environmental disaster, all inhabitants of the County of Primorje – Gorski Kotar and the media, along with the units of local self-government and environmental associations, are being pointed out as the most important target public.

Ekoplus can communicate with them by using the following communication tools: organization of seminars and study tours, an advertising campaign, educational campaigns and the tools for the media relations.

PR strategy will be developed under the IPA PR service contract which implementation shall begin during the year 2010. Strategy and foreseen activities will be published at Ekoplus Ltd web page.

4 PREVIOUS PUBLIC CONSULTATION AND DISCLOSURE

The main public consultation and disclosure was performed during the Environmental Impact Assessment (EIA) process when several public insides where hold, as follows:

Primorsko – Goranska County on 20th March 2003 filed a request to the Ministry of environmental protection and physical planning for the performance of environmental impact evaluation of the intended construction of the facility for storing, processing and disposal of communal and non-hazardous technological waste at Marišćina location.

Relevant Study for the evaluation of environmental impact of intended intervention, valorised and evaluated prior to the initialization of the process of issuing of location permit is the Final study of environmental impact of the facility for storing, processing and disposal of municipal and non-hazardous technological waste from Primorsko - Goranska County at Marišćina, Municipality of Viškovo. This Study encompasses all the required data, documentation, explanations and descriptions in both textual and graphic form, as well as proposed evaluation of acceptability of intervention and environmental protection measures. The study was conducted by Ekonerg Holding d.o.o. Zagreb, legal person authorised for the performance of professional jobs of preparation and compilation of environmental impact studies. Subject of the study is the impact of intended intervention at Marišćina location, selected at the session of County Assembly of Primorsko-Goranska County, held on June 3, 1999, on the basis of a preliminary study.

Commission for environmental impact evaluation appointed by the Ministry of environmental protection and physical planning, evaluated the impact of intended intervention, its evaluation and acceptability.

At the first session of the Commission, held on 1st September 2000, it was established that the Study contained elements relevant for evaluation of but it should be corrected especially when it came to the borders of fourth water-protection zone, since a small part of the future landfill was situated in the zone. Accordingly, engineering-geological investigations were conducted.

At the session of the Commission, held on 24th October 2000, it was established that all the requirements of Commission weren't met. At the session of the Commission held on 17th January 2001, it was found that request of the Commission concerning the amending and correcting of the Study was met and the decision to deliver the Study for public insight was brought.

Public insight was performed from February 1st to 15th 2001. Public debate was held on February 8th 2001 in a hall of the Home of culture in Municipality Viškovo and Municipality Klana.

Numerous objections were made to the professional part of the Study and procedure of performance of environmental impact study during public insight and public debate. The objections were made by: mothers and wives of Viškovo district, Municipal government of Viškovo district, Mažuran society, Club of councillors of SDP of Viškovo district, Club of councillors of PGS and LSH of Viskovo district, professor Josip Crnić, director of "Lijepa Naša"-Viškovo branch, Zoran Katić, Eduard Zoretić and Škalnica local committee.

At the session held on March 26th 2001 following public insight and public debate, compiler of the study and members of the Commission discussed and answered the objections made at public insight and brought Commission conclusion and intervention acceptability, defining measures for environmental protection and program for the monitoring of environment. Answers to the questions from public insight, following the said procedure, were sent in written form to persons who raised them.

Keeping all this in mind, Ministry of environmental protection and physical planning evaluated the foreseen environmental protection measures updated in accordance with adopted objections from public debate and found that there were no omissions in the procedure. They also found that the principle of prevention was met by harmonization and adjustment of intended intervention by taking into account possible negative impact of the intervention on all environmental components. The impact of the intended intervention on the environment and defining environmental protection measures will reduce all negative impacts to the minimum and achieve the best possible preservation of environment quality.

Republic of Croatia, Ministry of environmental protection and physical planning has issued the EIA Decision for construction of CWMC "Marišćina", class UP/I-351-02/00-06/31 on 31th March 2003.

In the matter of the request of Primorsko – Goranska County for a decision on the performance of evaluation of environment impact study concerning the intended construction of a facility for storing, processing and disposal of communal and non-hazardous technological waste from the territory of Primorsko – Goranska County, represented by county head Zlatko Komadina, Ministry of environmental protection and physical planning, Administration for administrative

and legal affairs, in accordance with article 30 of Environmental Protection Act (official journal of the Republic of Croatia. *no.* 82/94 and 128/99) end article 62 of Administrative suit Act (official journal, no. *53/91),* brought the following decision:

- Intended construction of facility for storing, processing and disposal of communal and non-hazardous technological waste from the territory of Primorsko – Goranska County, in Marišćina, Viškovo district, is acceptable, if environmental protection measures and program for monitoring state of the environment will be implemented
- Intended construction is acceptable in environmental terms, providing the environmental protection measures and program for monitoring state of the environment proscribed by this Decision are implemented.

Project was also disclosed to the public during the adoption of Physical Plan of Primorsko goranska County and Physical Plan of Municipality of Viškovo.

As well Ekoplus Ltd has numerous times represented the Project to all the target groups: government bodies, enterprises for waste management at the county level, mayors of municipalities and to the general public through local radio stations and articles in the local newspapers. Representatives of Ekoplus Ltd at least four times appeared in radio shows, round table. The project has been as well described in several publications.

Ekoplus is in such media appearances wants to satisfy all the desires of all PGC population , as well as the representatives of local self government units and public utility companies.

In addition to media appearances Ekoplus has participated in promotional activities with humanitarian and educational work - Ekoplus is in many ways involved in the club, "Society of our children" in which children met with a sustainable approach to the waste management, ecology and to the project CWMC Marišćina.

Ekoplus has its own website www.ekoplus.hr , where it is possible to get to know the details about the project Marišćina and work of Ekoplus. The site contains sections - News, About us, Waste Management in PGC, CWMC Marišćina, FAQs and Contact section. The news section is regularly updated news from all major importance for the construction of the Centre.

5 IDENTIFICATION OF STAKEHOLDERS

The following stakeholders have been identified as being affected by or potentially interested in the project. If your organisation or group is not listed, and you wish to be informed about the project, please contact the Ekoplus Ltd to add your contact information to the list.

- **founders / bodies of the Ekoplus Ltd:**
    - Priomrsko goranska County
    - City of Rijeka
    - Municipality of Viškovo
    - Public Utility Company: K.D. Čistoća d.o.o. Rijeka
- **units of local self-government of the County of Primorje – Gorski Kotar**:

City of Rijeka, Korzo 16, 51000 Rijeka T ++385 51 209 333 F ++385 51 209 520 E protokol@rijeka.hr W www.rijeka.hr	**City of Bakar,** Primorje 39, 51222 Bakar T ++385 51 761 119 F ++385 51 761 137 E gradonacelnik@bakar.hr W www.bakar.hr
City of Cres Creskog statuta 15, 51557 Cres T ++385 51 661 950, 661 954 F ++385 51 571 331 E grad@cres.hr W www.cres.hr	**City of Crikvenica** Kralja Tomislava 85, 51260 Crikvenica T ++385 51 455 400 F ++385 51 242 009 E info@crikvenica.hr W www.crikvenica.hr
City of Čabar Narodnog oslobođenja 2, 51306 Čabar T ++385 51 821 042, 821 008 F ++385 51 821 137 E info@cabar.hr W www.cabar.hr	**City of Delnice** Trg 138. brigade HV 4, 51300 Delnice T ++385 51 812 055 F ++385 51 812 037 E grad-delnice@ri.t-com.hr W www.delnice.hr
City of Kastav Zakona kastafskega 3, 51215 Kastav T ++385 51 691 452 F ++385 51 691 454	**City of Kraljevica** Frankopanska 1A, 51262 Kraljevica T ++385 51 282 450 F ++385 51 281 419

E grad-kastav@ri.t-com.hr W www.kastav.hr	E gradska-uprava@kraljevica.hr W www.kraljevica.hr
City of Krk Trg bana J. Jelačića 2, 51500 Krk T ++385 51 221 415 F ++385 51 221 126 E grad-krk@ri.t-com.hr W www.grad-krk.hr	**City of Mali Lošinj** Riva lošinjskih kapetana 7, 51550 Mali Lošinj T ++385 51 231 056 F ++385 51 232 307 E gradonacelnik@mali-losinj.hr W www.mali-losinj.hr
City of Novi Vinodolski Trg Vinodolskog zakona 1, 51250 Novi Vinodolski T ++385 51 245 045 F ++385 51 244 409 E gradonacelnik@novi-vinodolski.hr W www.novi-vinodolski.hr	**City of Opatija** Maršala Tita 3, 51410 Opatija T ++385 51 701 322 F ++385 51 701 316 E opatija@opatija.hr W www.opatija.hr
City of Rab Trg Municipium Arba 2, 51280 Rab T ++385 51 777 460 F ++385 51 724 777 E info@rab.hr W www.rab.hr	**City of Vrbovsko** Goranska ulica 1, 51326 Vrbovsko T ++385 51 875 115 F ++385 51 875 008 E gradsko.poglavarstvo.vrbovsko@ri.t-com.hr
Municipality of Baška Palada 88 51523, Baška T ++385 51 750 550 F ++385 51 750 560 E opcina-baska@ri.t-com.hr W www.baska.hr	**Municipality of** Brod Moravice Stjepana Radića 1, 51312 Brod Moravice T ++385 51 817 180 F ++385 51 817 002 E opcina.brod.moravice1@ri.t-com.hr W www.brodmoravice.hr
Municipality of Čavle Čavle 206, 51219 Čavle T ++385 51 208 310 F ++385 51 208 311 E opcina-cavle@ri.t-com.hr W www.cavle.hr	**Municipality of Dobrinj** Dobrinj 103, 51514 Dobrinj T ++385 51 848 344 F ++385 51 848 141 E opcina-dobrinj@ri.t-com.hr W www.dobrinj.hr

Municipality of Fužine Dr. Franje Račkog 19, 51322 Fužine T ++385 51 829 500 F ++385 51 829 503 E opcina-fuzine@ri.t-com.hr W www.fuzine.hr	**Municipality of Jelenje** Dražičkih boraca 64, 51218 Jelenje T ++385 51 208 080 F ++385 51 208 090 E opcina.jelenje@ri.t-com.hr W www.jelenje.hr
Municipality of Klana Klana 33, 51217 Klana T ++385 51 808 205 F ++385 51 808 708 E opcinakl@globalnet.hr W www.klana.hr	**Municipality of Kostrena** Sv. Lucija 38, 51221 Kostrena T ++385 51 209 000 F ++385 51 289 400 E opcina-kostrena@ri.t-com.hr W www.kostrena.hr
Municipality of Lokve Šet. Golubinjak 6, 51316 Lokve T ++385 51 831 336 F ++385 51 508 077 E opcina-lokve@ri.t-com.hr W www.lokve.hr	**Municipality of Lopar** Lopar bb, 51281 Lopar T ++385 51 831 336 F ++385 51 508 077 W www.opcina-lopar.hr
Municipality of Lovran Šet. M. Tita 41, 51415 Lovran T ++385 51 291 045 F ++385 51 294 862 E info@opcinalovran.hr W www.opcinalovran.hr	**Municipality of Malinska-Dubašnica** Lina Bolmarčića 22, 51511 Malinska T ++385 51 750 500 F ++385 51 859 322 E info@malinska.hr W www.malinska.hr
Municipality of Matulji Trg M. Tita 11, 51211 Matulji T ++385 51 274 114 F ++385 51 274 114 E info@matulji.hr W www.matulji.hr	**Municipality of Mošćenička Draga** Trg slobode 7, 51417 Mošćenička Draga T ++385 51 737 536 F ++385 51 737 621 E mosc-draga-opcina@ri.t-com.hr
Municipality of Mrkopalj Stari kraj 3, 51315 Mrkopalj T ++385 51 833 131 F ++385 51 833 101 E opcina-mrkopalj@ri.t-com.hr	**Municipality of** Omišalj Prikešte 11, 51513 Omišalj T ++385 51 661 970 F ++385 51 661 980 E opcina@omisalj.hr

W www.mrkopalj.hr	W www.omisalj.hr
Municipality of Punat Novi put 2, 51521 Punat T ++385 51 854 140 F ++385 51 854 840 E opcina-punat@ri.t-com.hr W www.opcina.punat.hr	**Municipality of Ravna Gora** I.G. Kovačića 177, 51314 Ravna Gora T ++385 51 829 450 F ++385 51 829 460 E opcina-ravna-gora@ri.t-com.hr W www.ravnagora.hr
Municipality of Skrad Josipa Blaževića-Blaža 8, 51311 Skrad T ++385 51 810620 F ++385 51 810680 E opcina-skrad@ri.t-com.hr W www.skrad.hr	**Municipality of Vinodolska** Bribir 34, 51253 Bribir T ++385 51 248 006 F ++385 51 248 007 E pravna@vinodol.hr
Municipality of Viškovo Vozišće 3, 51216 Viškovo T ++385 51 503 770, 503 772 F ++385 51 257 521 E nacelnik@opcina-viskovo.hr W www.opcina-viskovo.hr	**Municipality of Vrbnik** T ++385 51 857 310 F ++385 51 857 099 E opcina-vrbnik@ri.t-com.hr W www.opcina-vrbnik.hr

- **Governing bodies of the Municipality of Viškovo**, Administrative department for physical planning, utility systems and environment, Vozišće 3, 51216 Viškovo;
- **Inhabitants of the Municipality of Viškovo** (There are no residents or physical structures within 500 m area surrounding the project site. As well there are no identified vulnerable stakeholders);
- **inhabitants of the Primorsko goranska County and Croatian citizens in general**
- **public utility companies** which deal with collection and disposal of waste in the area of the County of Primorje – Gorski Kotar:
    - Čistoća Rijeka, Dolac 14, 51000 Rijeka
    - Komunalac Opatija, Stubište Lipovica 2, 51410 Opatija
    - Komunalac Delnice, Supilova 173, 51300 Delnice
    - Komunalac Vrbovsko, Željeznička ulica 1a, 51326 Vrbovsko
    - Muhović Čabar
    - GKTD Murvica Ltd Crikvenica, Trg Stjepana Radića 1, 51260 Crikvenica

- GKTD Ivanj Ltd Novi Vinodolski, Trg Ivana Mažuranića 88, 51250 Novi Vinodolski
- Vodovod i čistoća Cres Mali Lošinj Ltd,
- Vrelo Rab, Palit 68, 51280 Palit

– **relevant ministry and state bodies of the Republic of Croatia:**

- Ministry of Environmental Protection, Physical Planning and Construction,Ulica Republike Austrije 20, 10000 Zagreb

  www.mzopu.hr
- Environmental Protection and Energy Efficiency Fund, Ksaver 208, 10000 Zagreb

  www.fzoeu.hr

– **environmental associations**

- Zelena akcija
- Zelena Istra

– **media**

- Radio Rijeka
- Local newspaper: Novi list

6 DISCLOSURE OF INFORMATION

In the scope of project public disclosure following documents will be available during project public disclosure:

The following documents will be provided at the above locations.

– **ENVIRONMENTAL IMPACT ASSESSMENT -EXECUTIVE SUMMARY**

– **PUBLIC CONSULTATION AND DISCLOSURE PLAN, INCLUDING GRIEVANCE PROCEDURE**

– **PROJECT BACKGROUND DOCUMENTS:**

- Environmental impact study – full version
- Physical Plan of Primorsko Goranska County
- Physical Plan of Municipality of Viškovo

- Waste Management plan of Primorsko goranska County
- Waste Management Plan of Republic of Croatia
- Study of Waste Management in Istria and Kvarner
- Regional operative Programme for Primorsko goranska County

The materials will be available for comments for a period of 120 days, from 3. March 2010 to 1. July 2010, through Ekoplus Ltd website: www.ekoplus.hr

As well all materials will be available for inspection in hard copy at the following locations:

- Ekoplus Ltd Office, Kružna 8/I, Rijeka (from 9o'clock up to 12 o'clock)
- Primorsko goranska County, Department for construction and environmental protection, Riva 10, Rijeka(from 9o'clock up to 12 o'clock)
- EBRD Resident Office in Zagreb Miramarska 23, Zagreb

The materials will be kept available for interested parties until the completion of the project.

Part of Stage I of the Project except construction works is public relation service contract. This contract will include all necessary activities to introduce the whole project to the inhabitants of the Primorsko goranska County, but also the entire population of Croatia. This will ensure acceptance and approval of the purpose of the entire project from all potential stakeholders, education and training about the necessity of the project and its goals in a matter of long term environmental protection, education and training of the Ekoplus Ltd employees and recipients in public relations, long term public relations strategy and a number of visibility events.

Publicity activities which shall be included in PR service contract are as follows but not limited to:

- Preparation of a long-term public communication strategy
- Re-design of internet pages
- Design of promotional brochures and leaflets
- Education of the Ekoplus staff in PR
- Design of large (jumbo) posters
- Design of descriptive promotional articles for publication in newspapers
- Preparation of commercials for radio stations

- Preparation and organisation of press conferences
- Preparation, organisation and delivery of a number of seminars, trainings and workshops (for the representatives of national and local administration, for entire public of Primorsko – Goranska County and for younger population in the County);
- Preparation of television commercials;
- etc.

7 SCHEDULE

Indicated project scheduled:

- Project technical documentation preparation (design, permits, tender documentation): up to June 2010
- Project public disclosure: up to June 2010
- Tender procedure: up to September 2010
- Construction works: start September 2010 – December 2012
- CWMC operating period – from 2013

The ESIA and supporting documents will be put in the public domain at the above locations on 4 March 2010. The deadline for comments on the documents will be 1st July 2010(120 days later).

Disclosure documentation will be regularly updated to reflect the status of the project and possible changes.

8 RESOURCES AND RESPONSIBILITIES

Relevant documentation (Chapter 6) will be available from 4 March 2009 at the following locations:

- Ekoplus Ltd Office, Kružna 8/I, Rijeka (from 9o'clock up to 12 o'clock)
- Primorsko goranska County, Department for construction and environmental protection, Riva 10, Rijeka (from 9o'clock up to 12 o'clock)

The materials are also available through Internet at website: **www.ekoplus.hr.**

Responsible person for project public disclosure on behalf Ekoplus Ltd is:

Ms. Grazia Jelušić

Ekoplus Ltd, Kružna 8, Rijeka

Tel: +385 (0)51 325 200

Fax: +385 (0)51 325 190

e-mail: ekoplus@ekoplus.hr

If there is some doubt about public disclosure all stakeholders can contact Ms Jelušić for further information.

9 REPORTING

All raised issues will be disclosed at the Ekoplus Ltd web page (www.ekoplus.hr) together with appropriate response and notices about any changes on the Project.

On yearly basis Ekoplus Ltd will publish annual report the public on environment, health and safety; it will be published at the Ekoplus Ltd webpage.

As is mentioned before Ekoplus Ltd will, in accordance with project PR strategy, continue with all project disclosure activities during the pre-construction, construction process as well when CWMC starts to operate.

10 GRIEVANCE MECHANISM

The stakeholders and affected groups and individuals can provide their suggestions, comments, complaints, concerns and grievances related to the Project directly to the company at the contact information below. A Grievance form is attached to this document and can be returned to the Ekoplus Ltd by mail, fax or e-mail at any time during the Project implementation. Grievances can be submitted anonymously or it could be requested not to disclose identity to the third parties; however this will limit the company's ability to respond to the complainant with a resolution or to request additional information on the complaint.

Ekoplus Ltd with their expert Consultants will respond to the grievances with included contact information in 20 working days.

Note: Emergency complaints will be elaborated as soon as possible.

The Grievance Form is available on www.ekoplus.hr. A Grievance can be submitted in the following ways:

Ekoplus Ltd	**EBRD**
- by post mail	**- by post mail:**

Ekoplus d.o.o. Rijeka

Kružna 8

51000 Rijeka, Croatia

- **by fax:**

+385 (0)51 325 190

- **by e -mail:**

ekoplus@ekoplus.hr

Head of EBRD Office,

Miramarska 23, 10000 Zagreb, Croatia

Note: Grievances do not incur any costs to complainant.

PUBLIC GRIEVANCE FORM

CWMC MARIŠĆINA

Full name _____

☐ I wish to raise my grievance anonymously

Note: you can remain anonymous if you prefer or request not to disclose your identity to the third parties without your consent

Contact Information

Please mark how you wish to be contacted (mail or e-mail).

Address:_____

E-mail _____

Description of Incident or Grievance:

What happened? Where did it happen? Who did it happen to? What is the result of the problem? Etc.

What would you like to see happen to resolve the problem?

Signature: _____

Date: _____

You can submit your grievance anonymously if you wish. However, the more information you can provide, including your contact details, the more efficiently we will be able to follow-up.

Please return this form to: by post mail: Ekoplus d.o.o. Rijeka, Kružna 8, 51000 Rijeka, Croatia, by fax: +385 (0)51 325 190, by e -mail: ekoplus@ekoplus.hr