Domain	WATER
MMDD's item no. for the questic which includes the observation identified by the RMGC internal code	n 265
MMDD's identification no. for th question which includes the observation identified by the RM internal code	Chui Nanoca 07.08.2006
RMGC internal unique code	MMGA_0549
Proposal presents a (Commun The state There is i part of th	ioner reads 2 paragraphs from the EIA regarding the pollution in the area. The questioner in excerpt from the Community Sustainable Development Management Plan, Chapter 5, page 43 ity Definition). The questioner makes the following observations and comments: ment made in the EIA is partially true, but it doesn't reflect the reality from Rosia Montana. indeed a level of water pollution, but only in the industrial area, which represents only a small e Rosia Montana commune (approximately 95 ha) compared to the 4200 ha of the commune.
activities. ROŞIAMI state-run activities. from ope <i>Existing W</i> waste roc from EIA thousand	ty of water in the area affected by the Project is significantly affected by historic mining These negative impact forms on the environment refer to the ones generated by the present N operation, which is located especially in the Seliştea şi Roşia valleys and it is managed by a branch of Minvest. The Valea Corna streams were also affected by present and historic mining The impacts have resulted from waste rock accumulations, mine adit discharges, and runoff a pit mining. The larger and more prominent of these features are shown on Exhibit [4.1.4], <i>Yaste Rock Stockpiles</i> from Report on the Environmental Impact Assessment (EIA). Both the larger k accumulations associated with the more recent mining operations shown on Exhibit [4.1.4] , and numerous smaller accumulations left over from the mining dating back more than a years, contribute to the pollutant loading in the streams, which at the moment, due to the lack and treatment processes end up into the regional and national watershed.
Solution treatment	Project influence on the water environment is a positive one, in that the extensive water measures incorporated in the design of the Project, which include interception and treatment of aminated waters that are already present, will result in an improvement to water quality am in the Roşia, Corna, Abrud and Arieş valleys.
	rom the Project, rather than the currently uncontrolled contaminated surface drainages, will in compliance with the NTPA 001/2005 discharge standards.
In the abs	ence of the Project (the zero alternative), the current situation will continue.
Furtherm	ore, the physical water management of the Project will also improve ecological conditions by:
• ]	Reducing levels of suspended solids in the river systems;
	Maintaining minimum biological flows in the Roșia and Corna valleys, especially important luring periods of drought.
Residual i	mpacts (including positive impacts) are described further in Section [7] from EIA.

Domain		WATER
MMDD's item no. for the question which includes the observation identified by the RMGC internal code		379
question which	ication no. for the includes the ntified by the RMGC	Bucuresti, 21.08.2006
RMGC internal u	inique code	MMGA_0783
Proposal	probability of generated and	robability of no ARD water being generated in the tailings management facility? What is the ARD water to have no impact upon the environment? For how long would ARD water be I how long would ARD water treatment plants need to operate?
Solution	In adequate m the tailings m the potential present. During generated as a sulfurs to oxy alkaline, which after the depo- protective ear S.C Roșia Mon on the enviror rock segregati RMGC has co they comply w and discharge When the duri treatment is m rock surfaces The necessar maintenance Plan. However which the sou in combinatic these options	anagement conditions, the probability for Acid Rock Drainage (ARD) to be generated into anagement facility is low. The tailings in the Tailings Management Facility (TMF) will have to generate ARD. However, for ARD to be generated, sulfurs, oxygen and water must be an generate ARD. However, for ARD to be generated, sulfurs, oxygen and water must be a result of fast accumulation of saturated tailings in the TMF, which will limit exposure of ygen. Moreover, the treated water that will be contained by the tailings will be slightly h will reduce even more the ARD generation. The real risk for ARD generation only occurs ositing of tailings. This risk will be mitigated by adequate closure of the TMF, by means of a th layer that will limit the oxygen and water infiltrations into the tailings. ntană Gold Corporation S.A (RMGC) is striving to make sure that ARD will have no impact onment. The taken measures also include additional control features of sources (i.e. waste on), retention and treatment, as applicable. mmitted to perform the discharge of waters generated by the project (including ARD) only if with the discharge limits imposed by the technical Standards regarding collection, treatment of domestic wastewater, NTPA 001/2005. ration and level of ARD generation will be discussed (and thus, the period of time that the equired for), one must keep in mind the fact that the mining project will remove most of the that currently generate ARD. y duration for treatment and management of water, together with other long-term measures, is estimated in Section [4.7] of the Mine Rehabilitation and Closure Management r, it is difficult to asses the certain required treatment period. Several technologies, among rces control, in-pit treatment and semi-passive treatment systems can be used separately or on in order to eliminate the necessity of long-term usage of the treatment plant. However, will have to be assessed and proved. conclusions can be reached following the TMF closure model results:
	At the end of on water bala of 63 million can be dischar are no additio	operations and during the first years of closure, a seepage rate of 77m <sup>3</sup> /h is expected based nce models. If this rate remains constant, the time needed to flush the tailings pore volume m <sup>3</sup> once is of the order of 90 years. In order to bring the seepage quality to a level so that it rged without treatment, at least 3-4 pore volumes will have to be exchanged, provided there nal dissolution or mobilization processes within the tailings body. It follows from this model ge would require continued treatment far into the foreseeable future.
	of seepage wa time needed described in S annual precip released by th	It of rehabilitation, with an infiltration-minimizing cover placed on the tailings, the amount ater collected at the Secondary Containment Dam sump decreases, while the characteristic to flush the tailings body increases correspondingly. It is anticipated that with the cover Section [4.5], the infiltration will decrease to a range of 10-25% (or 80-200 mm/a) of the itation, with an according drop of the seepage rate. Thus, the annual load of contaminants e TMF dam is smaller, but the time frame over which treatment will be needed to achieve all 105 limits increases inversely proportional to the infiltration rate.

Domain	WATER
MMDD's item no. for the question which includes the observation identified by the RMGC internal code	392
MMDD's identification no. for the question which includes the observation identified by the RMGC internal code	Bucuresti, 21.08.2006
RMGC internal unique code	MMGA_0828
	rious ecological accident, how many rivers will be polluted? How many species of birds and ected? The questioner wants to know exact figures and amounts.
extensively with including a just concluded that transboundary documents incl The EIA Repo potential for s affect the Mur conditions, the The issue of a p important issu result, further on impacts on water quality u The model use aquatic system has been used pollution from Solution The modeling copper, chrom has been appli river system do dilution, mixin and gives estim and in the Tisa Because of dilu adopted for the reduces cyanic unprogrammed system would failure scenario water before it The INCA mo collection and	that there is concern about downstream river basins potential impacts and have worked the independent experts and scientists to fully assess all possibilities. These assessments, st-completed study of catastrophic failure scenarios by The University of Reading, have to the Roşia Montanā Project has no significant impact in downstream river basins or impact. A full copy of the University of Reading study can be found in the reference luded as an annex to this report. Art (Chapter 10 Transboundary Impacts) assesses the proposed project with regard to ignificant river basin and transboundary impacts downstream which could, for example, eq and Tisa river basins in Hungary. The Chapter concludes that under normal operating ree would be no significant impact for downstream river basins/transboundary conditions. possible accidental large-scale release of tailings to the river system was recognized to be an e during the public meetings when stakeholders conveyed their concern in this regard. As a work has been undertaken to provide additional detail to that provided in the EIA Report water quality downstream of the project and into Hungary. This work includes modeling of inder a range of possible operational and accident scenarios and for various flow conditions. ed is the INCA model developed over the past 10 years to simulate both terrestrial and is within the EUROLIMPACS EU research program (www.eurolimpacs.ucl.ac.uk). The model to assess the impacts from future mining, and collection and tissolved oxygen. The model ed to the upper catchments at Roşia Montană as well as the complete Abrud-Aries-Mureş own to the Hungarian Border and on into the Tisa River. The model takes into account the g and phisico-chemical processes affecting metals, ammonia and cyanide in the river system nates of concentrations at key locations along the river, including at the Hungarian Boarder .after the Mureş joins it. ation and dispersion in the river system, and of the initial EU BAT-compliant technology he project (for example, the use o

For more information, please see included in the Annex 5.1 the Fact Sheet presenting the INCA

## modeling work, entitled "Mureş River Modeling Program" together with the full modeling.

The impact on the flora and fauna referring to will occur at local level only but not leading to the disappearance of any of the species. The mining project has been conceived from beginning to accomplish the conditions and norms imposed by national and European legislation in the field of environment protection. Therefore, even if there are species listed in the Habitat Directive, within the perimeter to be impacted, these do not meet the criteria in order to classify this area as one of high conservation importance. This fact has resulted also from the refusal of the SCI proposal (sites of communitarian importance) submitted for this area.

The impact of the proposed project on environment is significant, the more so as it follows to overlapp the preexisting one. But, the investments foreseen for the ecological reconstruction / rehabilitation of the Roşia Montană area in order to solve the complex actual environments issues are possible only after the implementation of some economic projects able to generate and guarantee the commitment to direct and responsible actions and principles substantiating the sustainable development concepts. Only a sound economic system may approach clean processes and technologies, in total respect towards the environment, capable to solve including previous effects of anthropic activities.

The baseline documents of the project present an objective reasoning of its implementation given the extremely complex environmental commitments in the Roșia Montană area.

Domain		WATER
which include	no. for the question es the observation the RMGC internal	462
question which	tification no. for the ch includes the dentified by the RMGC	Arad, 25.08.2006
RMGC interna	l unique code	MMGA_0987
Proposal	been said in tl	e investor propose? Pollution, but within European limits, unless an accident occurs. It has he presentation that such an accident can only happen once in 10000 years. What does that happen in the first year? In the last year? The pollution that will result will affect the Mures
	benefits in the model regardi on the basis	<i>ne investor offer?</i> " The investor proposes an economic development project, with proved e social field. Taking as starting point a traditional activity in the area, the project proposes a ng further development of this activity, through the responsible mining of natural resources of best available techniques and complying rigorously with legal requirements in force environmental protection.
	(concentration established or people health harmonized w has, also, mon	tatement regarding the pollution " <i>within European limits</i> ", we mention that the values ns) admitted for pollutants in the surrounding environment (air, water or soil) are in the basis of scientific knowledge in order to avoid, prevent or reduce the harmful effects on in or environment and represent the requirements stipulated by Romanian legislation with communautaire acquis of environment. As Member State of European Union, Romania hitoring and reporting obligations on the compliance with the transposed legislation, and this s an additional guarantee regarding the observance of legal provisions.
Solution	tailings manag Hydrotechnica NTLH - 021 , Vol.2, Section and waste roc <i>techniques for</i> dam" at page occurrence pr	e maximum probable precipitations / calculation assurances used for the design of the gement facility, we mention its classification in the class I of importance as per STAS 4273 / al Constructions – Classifying into importance classes and, respectively, in category B as per / Technical Norms for Hydrotechnical Works - according to the report on the EIA study, 2.4.1.2, p.16. The document regarding the best available techniques for the tailings slurry is management from mining activities (BREF MTWR) stipulates in Chapter 5: <i>Best available tailings slurry and waste rock management from mining activities</i> , at Paragraph "design of the e 430, that BAT is: "utilization of a probable maximum precipitation (PMP) with the robability of 1 at 5,000 – 10,000 years for the dimensioning of the emergency discharge s PMP was chosen in order to dimension the tailings management facility for the storage of ve PMPs.
	including Mu (extremely un a result of the 1:10 years. In flood waters (	water recycling under normal operation condition, the impact on surface water streams, reș river, is not possible only in extreme operation conditions, for example in the case likely to occur) of a controlled overflowing of the water from tailings management facility as a occurrence in 24 hours of 2 PMPs and of a precipitation with an occurrence probability of this moment the water volume from pond would reach the design level of the spillway for (with protection purpose of the dam crest against erosion in such extreme conditions). The r this succession of events to occur during the project lifetime is higher than 1:10 million v).
	potential for affect the Mu	ort (Chapter 10 Transboundary Impacts) assesses the proposed project with regard to significant river basin and transboundary impacts downstream which could, for example, areş and Tisa river basins in Hungary. The Chapter concludes that under normal operating ere would be no significant impact for downstream river basins/transboundary conditions.
	The jaque of a	negatible accidental large scale valueses of tailings to the viver system was recognized to be an

The issue of a possible accidental large-scale release of tailings to the river system was recognized to be an important issue during the public meetings when stakeholders conveyed their concern in this regard. As a result, further work has been undertaken to provide additional detail to that provided in the EIA Report

on impacts on water quality downstream of the project and into Hungary. This work includes modeling of water quality under a range of possible operational and accident scenarios and for various flow conditions.

The model used is the INCA model developed over the past 10 years to simulate both terrestrial and aquatic systems within the EUROLIMPACS EU research program (<u>www.eurolimpacs.ucl.ac.uk</u>). The model has been used to assess the impacts from future mining, and collection and treatment operations for pollution from past mining at Roșia Montană.

The modeling created for Roşia Montană simulates eight metals (cadmium, lead, zinc, mercury, arsenic, copper, chromium, manganese) as well as Cyanide, Nitrate, Ammonia and dissolved oxygen. The model has been applied to the upper catchments at Roşia Montană as well as the complete Abrud-Arieş-Mureş river system down to the Hungarian Border and on into the Tisa River. The model takes into account the dilution, mixing and phsico-chemical processes affecting metals, ammonia and cyanide in the river system and gives estimates of concentrations at key locations along the river, including at the Hungarian Boarder and in the Tisa after the Mureş joins it.

Because of dilution and dispersion in the river system, and of the initial EU BAT-compliant technology adopted for the project (for example, the use of a cyanide destruct process for tailings effluent that reduces cyanide concentration in effluent stored in the TMF to below 6 mg/l), even a large scale unprogrammed release of tailings materials (for example, following failure of the dam) into the river system would not result in transboundary pollution. The model has shown that under worse case dam failure scenario all legal limits for cyanide and heavy metals concentrations would be met in the river water before it crosses into Hungary.

The INCA model has also been used to evaluate the beneficial impacts of the existing mine water collection and treatment and it has shown that substantial improvements in water quality are achieved along the river system under normal operational conditions.

For more information, please see included in the Annex 5.1 the Fact Sheet presenting the INCA modeling work, entitled "*Mureş River Modeling Program*" together with the full modeling.

Domain		WATER
which include	no. for the question s the observation he RMGC internal	465
question whic	ification no. for the h includes the lentified by the RMGC	Arad, 25.08.2006
RMGC interna	l unique code	MMGA_0990
Proposal	presented but from the prop past, and the safe, and we a	er makes the following comments and observations:The Project has been very nicely mobody can guarantee that the Mures River won't get polluted by the heavy metals resulting posed mining operations. Romania has had problems with the neighbouring countries in the local people do not want this to happen anymore. Until 1996, Chernobyl was also said to be ill know what happened there. esign also reduces the risk of large scale accidents to a very low level and this is explained in
	destruct proce below 10 mg, failure of the significantly a with the appli at Baia Mare, exceed the kn receptors dow Roşia Montan The EIA Rep potential for	isk Cases). Because of the mitigation measures adopted (for example, the use of a cyanide ess for tailings effluent that reduces cyanide concentration in effluent stored in the TMF /l), even a large scale unprogrammed release of tailings materials (for example, following e dam) into the river system would not result in transboundary pollution that could affect sensitive receptors in Hungary. It is also worth noting that because it is designed in line icable EU Directive, the proposed Roşia Montană TMF design avoids the problems that arose , and it is a significantly safer design so that failure is conceivable under conditions that nown long-term extremes of weather and seismic activity. Under such conditions, sensitive rustream of the project will likely be heavily impacted by events that will be unrelated to the da gold project, e.g. extreme flood conditions or earthquake-induced land instability.
Solution	The issue of a important issue result, further on impacts or water quality	here would be no significant impact for downstream river basins/transboundary conditions. It possible accidental large-scale release of tailings to the river system was recognized to be an ue during the public meetings when stakeholders conveyed their concern in this regard. As a r work has been undertaken to provide additional detail to that provided in the EIA Report n water quality downstream of the project and into Hungary. This work includes modeling of under a range of possible operational and accident scenarios and for various flow conditions. sed is the INCA model developed over the past 10 years to simulate both terrestrial and
	aquatic system has been used	ns within the EUROLIMPACS EU research program ( <u>www.eurolimpacs.ucl.ac.uk</u> ). The model d to assess the impacts from future mining, and collection and treatment operations for n past mining at Roșia Montană.
	copper, chron has been appl river system c dilution, mixin and gives estin	g created for Roșia Montană simulates eight metals (cadmium, lead, zinc, mercury, arsenic nium, manganese) as well as Cyanide, Nitrate, Ammonia and dissolved oxygen. The mode lied to the upper catchments at Roșia Montană as well as the complete Abrud-Arieş-Mureş down to the Hungarian Border and on into the Tisa River. The model takes into account the ng and phsico-chemical processes affecting metals, ammonia and cyanide in the river system mates of concentrations at key locations along the river, including at the Hungarian Boarder a after the Mureş joins it.
	adopted for t reduces cyani unprogramme system would	lution and dispersion in the river system, and of the initial EU BAT-compliant technology the project (for example, the use of a cyanide destruct process for tailings effluent that ide concentration in effluent stored in the TMF to below 6 mg/l), even a large scale ed release of tailings materials (for example, following failure of the dam) into the river I not result in transboundary pollution. The model has shown that under worse case dam io all legal limits for cyanide and heavy metals concentrations would be met in the river

water before it crosses into Hungary.

The INCA model has also been used to evaluate the beneficial impacts of the existing mine water collection and treatment and it has shown that substantial improvements in water quality are achieved along the river system under normal operational conditions.

For more information, please see included in the Annex 5.1 the Fact Sheet presenting the INCA modeling work, entitled "*Mureş River Modeling Program*" together with the full modeling.

Domain		WATER
which include	no. for the question as the observation the RMGC internal	466
question whic	tification no. for the ch includes the dentified by the RMGC	Arad, 25.08.2006
RMGC interna	l unique code	MMGA_0995
Proposal		doubts that the heavy metal levels registered in the Rosia Montana, as shown in the EIA rrect, and points out the fact that not even Ruschita registers such values.
	legislation, th Available Tec the result of contains, bes developed du	In the development design stage, RMGC has committed to comply with the Romanian the EU Standards and International Guidelines and Recommendations; this is why Best hniques (BAT) and Best Management Practice (BMP) were considered by the design criteria; if these commitments is represented by the environmental permit documentation that hide the Report on the Environmental Impact Assessment (EIA) and the Baseline Reports aring 1999-2006, the Management Plans prepared during the assessment of environmental hass, which is probably news in Romania as far as the environmental regulation process is
Solution	analysis on th impacted by the Ministry structured in • Base • Repo each	at is not founded because – the baselines were described in [11] Reports that contain detailed the quality of environmental factors, heritage and health of population at site and in the area the Project. These reports are included in Volumes 1-6 of the documentation submitted to of the Environment and Water Management on the 18 <sup>th</sup> of May, 2006; the document was three major sections: eline Reports volumes [1- 6]; ort on Environmental Impact Assessment Study (EIA) volumes [7-20] that contains within a chapter/section, a synthesis of baselines that constituted the starting point of the impact ssment process in order to estimate and quantify potential impact;
	• Mar prop	agement Plans from A to M, included in volumes [21- 33] that present the measures posed in order to prevent/mitigate/eliminate potential impact as a result of the lementation of the RM Project.
	1213/2006 a and suppleme	gal provisions in force (Government Decision 918/2002 repealed by Government Decision nd Ministerial Order 860 /2002 and Ministerial Order 863/2002, as subsequently amended ented), transposing the Directive on Environmental Impact Assessment 85/337/EEC, RMGC o submit only the EIA.

Domain		WATER
which include	no. for the question es the observation the RMGC internal	1356, 1357
question whic	tification no. for the ch includes the dentified by the RMGC	No. 110300/24.08.2006, No. 110302/24.08.2006
RMGC interna	l unique code	MMGA_1182
Proposal	RMGC does n	not comply with the EU Water Directive.
	protective of facility") has l as Romanian (2006/21/EC	ed liner is included in the design of the Tailings Management Facility (TMF) basin to be groundwater. Specifically, the Roşia Montană Tailings Management Facility (TMF or "the been designed to be compliant with the EU Groundwater Directive (80/68/EEC), transposed GD 351/2005. The TMF is also designed for compliance with the EU Mine Waste Directive ) as required by the Terms of Reference established by the MEWM in May, 2005. The agraphs provide a discussion of how the facility is compliant with the directives.
	The TMF is co	omposed of a series of individual components including:
		tailings impoundment;
		tailings dam; secondary seepage collection pond;
		secondary containment dam;
		groundwater monitoring wells/extraction wells located downstream of the Secondary ntainment dam.
	All of these designed.	components are integral parts of the facility and necessary for the facility to perform as
Solution	Montană pro permeability dam) and the	s indicated above require that the TMF design be protective of groundwater. For the Roşia oject (RMP), this requirement is addressed by consideration of the favorable geology (low shales underlying the TMF impoundment, the TMF dam, and the Secondary Containment e proposed installation of a low-permeability ( $1x10^{-6}$ cm/sec) recompacted soil liner beneath in. Please see Chapter 2 of EIA Plan F, "The Tailings Facility Management Plan" for more
	defined by EU	d low permeability soil liner will be fully compliant with Best Available Techniques (BAT) as U Directive 96/61 (IPPC) and EU Mine Waste Directive. Additional design features that are ne design to be protective of groundwater include:
	• A lo	w permeability $(1 \times 10^{-6} \text{ cm/sec})$ cut off wall within the foundation of the starter dam to crol seepage;
	• A se	w permeability (1x10 <sup>-6</sup> cm/sec) core in the starter dam to control seepage; epage collection dam and pond below the toe of the tailings dam to collect and contain any page that does extend beyond the dam centerline;
		eries of monitoring wells, below the toe of the secondary containment dam, to monitor bage and ensure compliance, before the waste facility limit.
	to be protecti is detected ir pumping well	the design components noted above specific operational requirements will be implemented two of human health and the environment. In the extremely unlikely case that impacted water in the monitoring wells below the secondary containment dam, they will be converted to and will be used to extract the impacted water and pump it into the reclaim pond where it reporated into the RMP processing plant water supply system, until the compliance is

With respect to your comments made as regards a presumptive infringement of the provisions of Government Decision No.351/2005 ("GD 351/2005"), there are several aspects to be taken into consideration. Thus:

1. Firstly, please note that, according to the provisions of art. 6 of GD 351/2005, any activity that might determine the discharge of dangerous substances into the environment is subject to the prior approval of the water management authorities and shall comply with the provisions of the water permit issued in accordance with the relevant legislation.

The GD 351/2005 provides that the water permit shall be issued only after all technical-construction measures are implemented as prevent the indirect discharge of dangerous substances into the underground waters. The maximum discharge limits are expressly provided under GD 351/2005 and compliance with such is a condition for granting and maintaining the water permit.

In accordance with the provisions of GD 351/2005, the actual discharge limits should be authorized by the relevant authority, such process being understood by the lawmaker in consideration of the complexity and variety of industrial activities, as well as the latest technological achievements.

Therefore, please note that the EIA stage is not intended to be finalized into an overall comprehensive permit, but it represents only a part of a more complex permitting process. Please note that, according with art. 3 of GD 918/2002, the data's level of detail provided in the EIA is the one available in the feasibility stage of the project, obviously making impossible for both the titleholder and authority to exhaust all required technical data and permits granted.

The adequate protection of the ground water shall be ensured by the terms and conditions of the water permit. The issuance of the water permit shall be performed following an individual assessment of the project, considering its particular aspects and the relevant legal requirements applicable for mining activities. Until the water permit is obtained, any allegation regarding the infringement of GD 351/2005 is obviously premature mainly because the water permit shall regulate, in accordance with the relevant legal provisions, the conditions to be observed by the developer as regards the protection of the ground water.

2. Secondly, kindly note that the complexity and specificity of mining projects generated the need of a particular legal framework. Therefore, for such projects, the reading of the legal provisions of a certain enactment should be corroborated with the relevant provisions of the other regulations applicable.

In this respect, please not that the understanding of GD 351/2005 must be corroborated with the provisions of the entire relevant legislation enforceable as regards Roşia Montană Project, with a particular accent to Directive 2006/21/EC on the management of waste from the extractive industries ("Directive 21").

The very scope of Directive 21 is to provide a specific legal framework for the extractive wastes and waste facilities related to mining projects, considering the complexity of such projects and the particular aspects of mining activities that can not always be subject to the common regulations on waste management and landfill.

From this perspective, Directive 21 provides that, an operator of a waste facility, as such is defined thereunder (please note that the TMF proposed by RMGC is considered a "waste facility" under Directive 21), must inter alia, ensure that:

a) "the waste facility is [.....]designed so as to meet the necessary conditions for, in the short and long-term perspectives, preventing pollution of the soil, air, groundwater or surface water, taking into account especially Directives 76/464/EEC (1), 80/68/EEC (2) and 2000/60/EC, and ensuring efficient collection of contaminated water and leachate as and when required under the permit, and reducing erosion caused by water or wind as far as it is technically possible and economically viable;"

b) "the waste facility is suitably constructed, managed and maintained to ensure its physical stability and to prevent pollution or contamination of soil, air, surface water or groundwater in the short and long-term perspectives as well as to minimize as far as possible damage to landscape."

In addition, it should be mentioned that RMGC was required by MWEM under the Terms of Reference, to perform the EIA considering the provisions of Directive 21 and the BAT Management of Mining Waste. The Directive 21 was intended by the EU DG of Environment to be the legislative regime applicable to

sound management of mining waste throughout Europe and therefore compliance with its provisions is mandatory.

Domain	WATER
MMDD's item no. for the question which includes the observation identified by the RMGC internal code	2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2984
MMDD's identification no. for the question which includes the observation identified by the RMGC internal code	No. 112093/25.08.2006, No. 112092/25.08.2006, No. 112091/25.08.2006, No. 112090/25.08.2006, No. 112089/25.08.2006, No. 112088/25.08.2006, No. 112087/25.08.2006, No. 112086/25.08.2006, No. 112085/25.08.2006, No. 112084/25.08.2006, No. 112083/25.08.2006, No. 112082/25.08.2006, No. 112081/25.08.2006, No. 112080/25.08.2006, No. 112082/25.08.2006, No. 112081/25.08.2006, No. 112080/25.08.2006, No. 112079/25.08.2006, No. 112077/25.08.2006, No. 112079/25.08.2006, No. 112077/25.08.2006, No. 112076/25.08.2006, No. 111551/25.08.2006, No. 111552/25.08.2006, No. 111553/25.08.2006, No. 111554/25.08.2006, No. 111555/25.08.2006, No. 111556/25.08.2006, No. 111557/25.08.2006, No. 111559/25.08.2006, No. 111559/25.08.2006, No. 111559/25.08.2006, No. 111579/25.08.2006, No. 111777/25.08.2006, No. 111777/25.08.2006
RMGC internal unique code	MMGA_1280
Proposal The environm	ent impact produced by the diversion channels is not taken into account
The primary	receiving streams for unimpacted water will be the Rosia Stream and Corpa Stream. The

The primary receiving streams for unimpacted water will be the Roşia Stream and Corna Stream. The North and South Storm Water Diversions at the TMF will both discharge into Corna Valley immediately downstream of the Secondary Containment System. The Northern Roşia Valley Diversion Channel extending from the northern flank of the valley will discharge into Roşia Stream immediately downstream of the Cetate Water Catchment Dam and Pond.

The diversion channels will be constructed during the construction phase to minimise the volume of clean surface water entering disturbed areas of the site. These diversion channels will be intended to convey water that is not impacted by historical or proposed mining activities. The diversions will reduce the volume of clean water and storm water mixing with possibly site-impacted waters requiring treatment in the mine area, thus reducing the overall treatment requirements and helping to provide for the biological baseflows in downstream streams. An additional objective of the diversions includes protecting structures, stockpiles and active areas from flood flows.

Impacts to surface water flows will occur due to direct interception and containment of contaminated and uncontaminated surface water flows by structures constructed during the implementation of the Project. These structures include the Cetate Water Catchment Dam and the mine pits, with their associated diversion channels in the Roşia Valley; and the TMF and SCD with their associated diversion channels in the Corna Valley.

Further drainage will be diverted from waste rock dumps in both valleys, from the old mine wastes and low grade ore stockpile and the 714 adit in the Roşia Valley from the operations area. The net result will be the potential to impact the flows in the Roşia and Corna streams and therefore also the Abrud and ultimately the Aries rivers.

Wherever possible, clean water will be diverted around the facilities to the respective catchments downstream of the Project area, without loss of flow – and so any residual impact on surface water flows in the downstream system will be mainly in respect of loss of contaminated water only.

The Project intercepts contaminated water from the Roşia and Corna catchments while diverting as much clean surface water as possible for return to the streams. Nevertheless, some of the treated water from the ARD waste water treatment plant is discharged back to the streams as compensation flow. This amount averages 237.42 m<sup>3</sup>/hr (66 L/s) over the operational life of the mine (Exhibit 4.1.12, stream 35 of the EIA). This is less than the average baseline flows which total 309.3 m<sup>3</sup>/hr (85.9 L/s), although it does not include diverted clean water flows. The apparent reduction in flow in the two streams (71.9 m<sup>3</sup>/hr, 20 L/s) is accounted for almost exactly by the intercepted mine water flows which together total 67.3m<sup>3</sup>/hr (18.7 L/s) – so the 23% (maximum) reduction in flow is offset by the removal of the most contaminated

Solution

## component.

The impact on the River Abrud of the 71.9  $\rm m^3/hr$  (20 l/s) reduction is negligible – about 1.4% of its total average flow.

Moreover, the Project is committed to maintaining minimum flows in the Roşia and Corna streams of 72m<sup>3</sup>/hr (20 L/s) and 25.2 m3/hr (7 L/s) respectively. These are the estimated biological compensation baseflows which will be conducive to ecological sustainability when the streams have recovered sufficiently in quality terms to support aquatic fauna and flora. In the case of the Roşia stream lower flows than this minimum flow have already been recorded (see baseline data between 2000 and 2005).

Domain		WATER
which includes	o. for the question the observation e RMGC internal	3113
question which	fication no. for the includes the entified by the RMGC	No. 112981/25.08.2006
RMGC internal	unique code	MMGA_1378
Proposal		sulted from the technological process manifest grave polluting risks due to their content of etals dissolved from ore
	Montană) the	ssing operation generates metal loaded ARD. In the closed mines, (the mine existing at Roșia e generation of ARD continues and the management of ARD in modern mining industry losure and post-closure stages, too.
	The technolog ARD:	gical process presented in the Roșia Montană project generate two sources of metal loaded
		ARD, important source as far as flows and metallic ions concentrations are concerned; Tailings slurry resulting from the processing of ore using cyanides.
	retention dan	aters, there's a water collection and abstraction system (in the ARD dam Cetate and seepage n Cârnic), monitoring and treatment in a specially designed installation, anticipated to be ing the construction phase of the project.
	metal precipit	ll be performed in compliance with BAT, with a large application by pH adjustment and tation in two steps using lime and carbon dioxide as insoluble compounds (hydroxides, rdroxycarbonate).
	will not get d	fluent will be partially reutilized in the process, after the first precipitation stage, therefore it ispersed into the environment, and the final effluent that will comply with the NTPA 001 als, will be used to maintain environmental baseflows in Roșia and Corna Streams.
Solution	The slurry will	be directed to the TMF.
	The installatic Montană Proj	on is conceived to function during the operation, closure and post-closure stages of the Roșia ect.
	During the las lagoons.	st three years of the operation period, the passive treatment processes will be tested in the
		place the ARD active treatment plants in the post-closure period, should the result be nd the NTPA 001 discharge standards will be complied with.
	-	ess (oxidation with SO2/air) and lime pH 8-10, for treatment of tailings slurry is mainly used ction of cyanides.
		y, given the above conditions, precipitation of heavy metals as hydroxides takes place – asoluble cyanic complexes with Fe – $Me_2Fe(CN)_6$ .
	seepage from per the water	v is discharged into the TMF, and after settling, water is recirculated in the process. The the TMF are collected in the secondary dam sump and is recirculated in the decant pond. As flow described in the Project, on this route, there are no metal-loaded waters discharged into ent, during normal operation stage.
	Under abnorn	nal operation conditions, when the storage capacity designed for the pond is exceeded, (>2

PMP successive) and if the natural dilution taking place in such extreme situation – does not provide the quality conditions requested by NTPA 001, the project provides a treatment plant for low cyanide content waters where precipitation of metals will be performed.

In conclusion, the Roșia Montană project provides realistic technical solutions to avoid metal pollution risks.

Domain		WATER
MMDD's item no. f which includes the identified by the RI code	observation	3115
MMDD's identificat question which inc observation identif internal code	ludes the	No. 112129/25.08.2006
RMGC internal unio	que code	MMGA_1393
Proposal		erations the pollution degree of the waters from area will increase. In this situation, where development and environment protection?
	were undertak general downst examined the l	aluate the residual impacts of the project on surface water quality, two modeling studies en. The first was an assessment of the ARD wastewater treatment plant discharge on cream watercourse quality, particularly metal concentrations and pH (Model 1). The second ikely concentration of the major substances introduced by the project in the watercourses, , sulphate (Model 2) and cyanide (Model 3).
		the first model were presented in Table 4.1-16, Sub chapter 4.1. of the EIA. Reduction of er to comply with the TN001 for all parameters except calcium and sulphate (and hence s.
	and is recogniz it does have th limitation, but commonly acc Drainage. In c parameters wa concentrations	nent process is the most common method for treating Acid Rock Drainage from mine sites ed as a Best Available Technology. However, while removing toxic metals and elevating pH, e limitation of often not being able to meet calcium, sulphate and TDS standards. This is a the net benefit of this proven and widely used treatment method results in it being the epted as a standard technology for treating effluents from mine sites with Acid Rock order to bring calcium and sulphate to within NTPA 001, further treatment for these s included within the project design. The second model is a check on the likely residual of calcium and sulphate that are expected in the watercourses downstream of the project e modeling results are shown in Exhibits 4.1.25 and 4.1.26 from EIA.
Solution	for area stream standard of 0.1 less than 0.1 m	ters analyzed, cyanide presented the most difficult analysis. Baseline cyanide concentrations ns and rivers are generally not available. In addition, discharges exceeding the TN001 mg/L total cyanide are not expected. Therefore, most water quality points were reported as ng/L and are not shown on Exhibit 4.1.26 from EIA. The exceptions are the TMF decant econdary Containment Dam (SCD) pond and sump.
	Residual Impa	cts
	TN001 in the condition. Due	not exceed TN001 at any stage of the project. Sulphate concentrations are also within Roșia valley, but slightly above MO1146 Class IV, even so, they are less than the baseline to elevated sulphate levels in the Abrud upstream of the Roșia confluence, downstream of the levels continue to be elevated under dry conditions.
		ated levels of sulphate and cyanide occur in the TMF and the SCD, through project exceedances of NTPA 001 or MO1146 Class IV occur downstream of these structures.
	the Cetate dam	residual impact by the project on surface water quality occurs in the instance of overspill of a during a 24 hour storm of greater than 1:100yr magnitude. During such an event the pH waters are likely to be slightly below TN001 (pH 6.5, see Sub-section 4.3.). The limestone

spillway is designed as a partial mitigation against such impact.

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Domain		WATER
MMDD's item no. which includes th identified by the F code	e observation	8/D;5463/B
MMDD's identifica question which in observation ident internal code		No. 114735/15.09.2006
RMGC internal un	ique code	MMGA_1468
Proposal	Non-observan	ce of the EU Directive on underground waters
	protective of g facility") has b as Romanian ( (2006/21/EC)	I liner is included in the design of the Tailings Management Facility (TMF) basin to be groundwater. Specifically, the Roșia Montană Tailings Management Facility (TMF or "the een designed to be compliant with the EU Groundwater Directive (80/68/EEC), transposed GD 351/2005. The TMF is also designed for compliance with the EU Mine Waste Directive as required by the Terms of Reference established by the MEWM in May, 2005. The graphs provide a discussion of how the facility is compliant with the directives.
	The TMF is co	mposed of a series of individual components including:
		ailings impoundment;
		ailings dam;
		secondary seepage collection pond;
	• the	secondary containment dam; groundwater monitoring wells/extraction wells located downstream of the Secondary cainment dam.
	All of these of designed.	components are integral parts of the facility and necessary for the facility to perform as
Solution	Montană proj permeability s dam) and the	indicated above require that the TMF design be protective of groundwater. For the Roşia ect (RMP), this requirement is addressed by consideration of the favorable geology (low hales underlying the TMF impoundment, the TMF dam, and the Secondary Containment proposed installation of a low-permeability ( $1x10^{-6}$ cm/sec) recompacted soil liner beneath n. Please see Chapter 2 of EIA Plan F, "The Tailings Facility Management Plan" for more
	defined by EU	low permeability soil liner will be fully compliant with Best Available Techniques (BAT) as Directive 96/61 (IPPC) and EU Mine Waste Directive. Additional design features that are
	• A lov	e design to be protective of groundwater include: v permeability (1x10 <sup>-6</sup> cm/sec) cut off wall within the foundation of the starter dam to ol seepage;
	<ul><li>A see seepa</li><li>A ser</li></ul>	permeability (1x10 <sup>-6</sup> cm/sec) core in the starter dam to control seepage; page collection dam and pond below the toe of the tailings dam to collect and contain any ge that does extend beyond the dam centerline; ries of monitoring wells, below the toe of the secondary containment dam, to monitor
	seepa	ge and ensure compliance, before the waste facility limit.
	to be protectiv is detected in pumping wells	the design components noted above specific operational requirements will be implemented re of human health and the environment. In the extremely unlikely case that impacted water the monitoring wells below the secondary containment dam, they will be converted to and will be used to extract the impacted water and pump it into the reclaim pond where it porated into the RMP processing plant water supply system, until the compliance is

With respect to your comments made as regards a presumptive infringement of the provisions of Government Decision No.351/2005 ("GD 351/2005"), there are several aspects to be taken into consideration. Thus:

1. Firstly, please note that, according to the provisions of art. 6 of GD 351/2005, any activity that might determine the discharge of dangerous substances into the environment is subject to the prior approval of the water management authorities and shall comply with the provisions of the water permit issued in accordance with the relevant legislation.

The GD 351/2005 provides that the water permit shall be issued only after all technical-construction measures are implemented as prevent the indirect discharge of dangerous substances into the underground waters. The maximum discharge limits are expressly provided under GD 351/2005 and compliance with such is a condition for granting and maintaining the water permit.

In accordance with the provisions of GD 351/2005, the actual discharge limits should be authorized by the relevant authority, such process being understood by the lawmaker in consideration of the complexity and variety of industrial activities, as well as the latest technological achievements.

Therefore, please note that the EIA stage is not intended to be finalized into an overall comprehensive permit, but it represents only a part of a more complex permitting process. Please note that, according with art. 3 of GD 918/2002, the data's level of detail provided in the EIA is the one available in the feasibility stage of the project, obviously making impossible for both the titleholder and authority to exhaust all required technical data and permits granted.

The adequate protection of the ground water shall be ensured by the terms and conditions of the water permit. The issuance of the water permit shall be performed following an individual assessment of the project, considering its particular aspects and the relevant legal requirements applicable for mining activities. Until the water permit is obtained, any allegation regarding the infringement of GD 351/2005 is obviously premature mainly because the water permit shall regulate, in accordance with the relevant legal provisions, the conditions to be observed by the developer as regards the protection of the ground water.

2. Secondly, kindly note that the complexity and specificity of mining projects generated the need of a particular legal framework. Therefore, for such projects, the reading of the legal provisions of a certain enactment should be corroborated with the relevant provisions of the other regulations applicable.

In this respect, please not that the understanding of GD 351/2005 must be corroborated with the provisions of the entire relevant legislation enforceable as regards Roşia Montană Project, with a particular accent to Directive 2006/21/EC on the management of waste from the extractive industries ("Directive 21").

The very scope of Directive 21 is to provide a specific legal framework for the extractive wastes and waste facilities related to mining projects, considering the complexity of such projects and the particular aspects of mining activities that can not always be subject to the common regulations on waste management and landfill.

From this perspective, Directive 21 provides that, an operator of a waste facility, as such is defined thereunder (please note that the TMF proposed by RMGC is considered a "waste facility" under Directive 21), must inter alia, ensure that:

a) "the waste facility is [...] designed so as to meet the necessary conditions for, in the short and long-term perspectives, preventing pollution of the soil, air, groundwater or surface water, taking into account especially Directives 76/464/EEC (1), 80/68/EEC (2) and 2000/60/EC, and ensuring efficient collection of contaminated water and leachate as and when required under the permit, and reducing erosion caused by water or wind as far as it is technically possible and economically viable;"

b) "the waste facility is suitably constructed, managed and maintained to ensure its physical stability and to prevent pollution or contamination of soil, air, surface water or groundwater in the short and long-term perspectives as well as to minimize as far as possible damage to landscape."

In addition, it should be mentioned that RMGC was required by MWEM under the Terms of Reference, to perform the EIA considering the provisions of Directive 21 and the BAT Management of Mining Waste.

The Directive 21 was intended by the EU DG of Environment to be the legislative regime applicable to
sound management of mining waste throughout Europe and therefore compliance with its provisions is
mandatory.

Domain	WATER	
MMDD's item no. for the question which includes the observation identified by the RMGC internal code	34	
MMDD's identification no. for the question which includes the observation identified by the RMGC internal code	No. 114516/13.09.2006	
RMGC internal unique code	MMGA_1477	
Government i consideration. 1. Firsth might determin approval of the issued in accorrect The GD 351/2 measures are underground to compliance with In accordance to relevant authon variety of indu Therefore, pleat permit, but it with art. 3 of feasibility stage exhaust all req Solution The adequate permit. The is project, consider activities. Unti- obviously prene- provisions, the 2. Secon- of a particular enactment shows In this respect provisions of t- accent to Dire 21"). The very scope facilities relate	<ul> <li>might determine the discharge of dangerous substances into the environment is subject to the privapproval of the water management authorities and shall comply with the provisions of the water permissued in accordance with the relevant legislation.</li> <li>The GD 351/2005 provides that the water permit shall be issued only after all technical-construction measures are implemented as prevent the indirect discharge of dangerous substances into the underground waters. The maximum discharge limits are expressly provided under GD 351/2005 are compliance with such is a condition for granting and maintaining the water permit.</li> <li>In accordance with the provisions of GD 351/2005, the actual discharge limits should be authorized by the relevant authority, such process being understood by the lawmaker in consideration of the complexity are variety of industrial activities, as well as the latest technological achievements.</li> <li>Therefore, please note that the EIA stage is not intended to be finalized into an overall comprehensive permit, but it represents only a part of a more complex permitting process. Please note that, according with art. 3 of GD 918/2002, the data's level of detail provided in the EIA is the one available in the feasibility stage of the project, obviously making impossible for both the titleholder and authority exhaust all required technical data and permits granted.</li> <li>The adequate protection of the ground water shall be ensured by the terms and conditions of the water permit is obtained, any allegation regarding the infringement of GD 351/2005 obviously premature mainly because the water permit shall regulate, in accordance with the relevant leg provisions, the conditions to be observed by the developer as regards the protection of the ground water.</li> <li>Secondly, kindly note that the complexity and specificity of mining projects generated the nee of a particular legal framework. Therefore, for such projects, the reading of the legal provisions of a certa enactment should</li></ul>	

landfill.

From this perspective, Directive 21 provides that, an operator of a waste facility, as such is defined thereunder (please note that the TMF proposed by RMGC is considered a "waste facility" under Directive 21), must inter alia, ensure that:

a) "the waste facility is [.....]designed so as to meet the necessary conditions for, in the short and long-term perspectives, preventing pollution of the soil, air, groundwater or surface water, taking into account especially Directives 76/464/EEC (1), 80/68/EEC (2) and 2000/60/EC, and ensuring efficient collection of contaminated water and leachate as and when required under the permit, and reducing erosion caused by water or wind as far as it is technically possible and economically viable;"

b) "the waste facility is suitably constructed, managed and maintained to ensure its physical stability and to prevent pollution or contamination of soil, air, surface water or groundwater in the short and long-term perspectives as well as to minimize as far as possible damage to landscape;"

In addition, it should be mentioned that RMGC was required by MWEM under the Terms of Reference, to perform the EIA considering the provisions of Directive 21 and the BAT Management of Mining Waste. The Directive 21 was intended by the EU DG of Environment to be the legislative regime applicable to sound management of mining waste throughout Europe and therefore compliance with its provisions is mandatory.

An engineered liner is included in the design of the Tailings Management Facility (TMF) basin to be protective of groundwater. Specifically, the Roşia Montană Tailings Management Facility (TMF or "the facility") has been designed to be compliant with the EU Groundwater Directive (80/68/EEC), transposed as Romanian GD 351/2005. The TMF is also designed for compliance with the EU Mine Waste Directive (2006/21/EC) as required by the Terms of Reference established by the MEWM in May, 2005. The following paragraphs provide a discussion of how the facility is compliant with the directives.

The TMF is composed of a series of individual components including:

- the tailings impoundment;
- the tailings dam;
- the secondary seepage collection pond;
- the secondary containment dam;
- the groundwater monitoring wells/extraction wells located downstream of the Secondary Containment dam.

All of these components are integral parts of the facility and necessary for the facility to perform as designed.

The directives indicated above require that the TMF design be protective of groundwater. For the Roşia Montană project (RMP), this requirement is addressed by consideration of the favorable geology (low permeability shales underlying the TMF impoundment, the TMF dam, and the Secondary Containment dam) and the proposed installation of a low-permeability ( $1x10^{-6}$  cm/sec) recompacted soil liner beneath the TMF basin. Please see Chapter 2 of EIA Plan F, "The Tailings Facility Management Plan" for more information.

The proposed low permeability soil liner will be fully compliant with Best Available Techniques (BAT) as defined by EU Directive 96/61 (IPPC) and EU Mine Waste Directive. Additional design features that are included in the design to be protective of groundwater include:

- A low permeability (1x10<sup>-6</sup> cm/sec) cut off wall within the foundation of the starter dam to control seepage;
- A low permeability (1x10<sup>-6</sup> cm/sec) core in the starter dam to control seepage;
- A seepage collection dam and pond below the toe of the tailings dam to collect and contain any seepage that does extend beyond the dam centerline;
- A series of monitoring wells, below the toe of the secondary containment dam, to monitor seepage and ensure compliance, before the waste facility limit.

In addition to the design components noted above specific operational requirements will be implemented to be protective of human health and the environment. In the extremely unlikely case that impacted water is detected in the monitoring wells below the secondary containment dam, they will be converted to pumping wells and will be used to extract the impacted water and pump it into the reclaim pond where it will be incorporated into the RMP processing plant water supply system, until the compliance is reestablish.

Domain	WATER
MMDD's item no. for the question which includes the observation identified by the RMGC internal code	34
MMDD's identification no. for the question which includes the observation identified by the RMGC internal code	No. 114516/13.09.2006
RMGC internal unique code	MMGA_1479
Proposal There is no a o waters.	description of the measures recommended by BAT for the occurrence prevention of the acid
tones of waster rock obtained the tailings manecessary for transfer mining if there In order to m waste segregat • W Er th us conth sy Solution • Er was via fe er or • Th m More details of the EIA. <i>References:</i> [1] Best Avai	evaluation of the mining project, the extraction pits contain approximately 256.9 million e rock, and the tailings – ore ratio is of 1.2:1. The rock in the crushed rock pits and the waste from the extraction preparation activities will be used, as required, in the construction of anagement facility dam in Valea Corna and other embankments. If the waste rock will not be construction activities, it will be transported to the Cetate and/or Carnic TMFs, and by and, to the depleted pits (mainly Carnic, Orlea and Jig). BAT [1] stipulates the use of transfer e's an excavation where the waste rock can be economically stockpiled. inimize the formation of ARD, S.C Roşia Montana Gold Corporation S.A will implement a cion and waste encapsulation strategy which is described in the following: aste rock dumps will be piled up using a combination of end-dumping and stackdumping, nd-dumping will be used for the dumps basements and for the outer rim of the dump, where the NAG material will be used, while stack-dumping, which leads to higher compaction, will be ede for the inner parts of the dump, where the PAG material will be deposited. The ompaction associated with stack-dumping minimizes exposure to oxygen and water around be body of compacted PAG material. Stackdumping allows the use a relatively thin cover stem without strict requirements to be applied on the waste dumps. nd-dumped PAG material will be deposited in a small section along the outer rim of the aste dumps and covered with a less permeable cover system than the (larger) NAG portion here the water balance and oxygen ingress is less of a concern. Wherever technologically asible, PAG material which is rehandled after the end of the operations phase, in der to minimize the amount of sub-soil and top-soil needed for a more elaborate cover. the material which will be backfilled to the open pits will be sorted in a way which PAG aterial will predominantly be placed at the bottom of the backfill or be covered by at least 10 of NAG material, so that oxygen contact with t

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[1] Best Available Techniques for Management of Tailings and Waste-Rock in Mining Activities. EUROPEAN COMMISSION, DIRECTORATE-GENERAL JRC JOINT RESEARCH CENTRE, Institute for Prospective Technological Studies, Technologies for Sustainable Development, European IPPC Bureau, Final Report, July 2004 (http://eippcb.jrc.es/pages/FActivities.htm).

Domain		WATER	
MMDD's item no. for the question which includes the observation identified by the RMGC internal code		893	
MMDD's identification no. for the question which includes the observation identified by the RMGC internal code		No. 110081/22.08.2006 and No. 75170/23.08.2006	
RMGC internal	unique code	MMGA_1560	
Proposal	- the propose a special seale	d mining project doesn't stipulate that the sulfides will be treated and stored separately onto ed dam.	
	and the sulph acid waters. In and will not b	s in the case of the Roşia Montana project may occur disseminated within the ore deposit, nates in certain concentrations within the sludge resulted from the treatment plant of the n the case of the disseminated sulphides, excepting pyrite, these have extremely low contents be recovered and specially treated.	
	Project, the fo Dur trea sup Dur	the from the treatment plant of the acid waters, depending on the development stages of the oblowing flow sheets are designed: ring the operation stage, the thickened sludge, resulting from the sedimentation basin of the atment plant of the acid waters, will be discharged into the tailings management facility as plementary waste in a ratio of 1:500 as compared with tailings. ring the mine-closure period, this waste stream will be discharged into the Cetate open pit e, because the tailings management facility will not be still available for waste discharge.	
Solution	resulting from the processing • Muc	nent impact caused by the discharging into the tailings management facility of the sludge n the treatment of the acid waters will be negligible comparatively with the impact caused by g tailings due to: .h less quantity of resulted sludge in comparison with the quantity of tailings; .h lower toxic properties of the sludge in comparison with those of tailings.	
	Thus, the references from the Section [2.8.1.8] of the EIA to the period when the sludge resulted from the acid water treatment plant will be deposited into the tailings management facility are justified.		
	If the sludge of acid water treatment is deposited into the Cetate flooded open pit, the sludge may dissolve and liberate heavy metals and neutral major ions (sulphate, calcium) into the water from open pit, if this water becomes acid. But the water from lake will not be evacuated directly into environment. The water from open pit if is reaching the underground works may be collected by Cetate dam and pumped back to the treatment plant, so that no pollution will be discharged into environment.		
		evention measures are provided in order to minimize the risk that the acid waters generated aric portion of the open pit walls to acidulate the waters from open pit. These measures are	

described in Section [2.8.2.9.] of the EIA.

Domain		WATER
MMDD's item no. for the question which includes the observation identified by the RMGC internal code		912
MMDD's identification no. for the question which includes the observation identified by the RMGC internal code		No. 110063/22.08.2006 and No. 75189/23.08.2006
RMGC internal unique code		MMGA_1574
Proposal	-There isn't a	realistic calculation on the Aeolian erosion of the pit's walls and the tailings and waste ore;
Solution	<ul> <li>high Aeolian et the pits, and p climbing plant from old min stockpiles and resulting from The waste roce erosion will resulting from and <i>The Air C</i> measures for the regarding the Measures for the regarding the Measures for the formation of the formati</li></ul>	will be made of massive rocks most of which will be represented by dacite and breccia with rosion resistance, and at the end of the project, part of these walls will be covered by prefiling ator of them will remain as rock areas that can be re-vegetated either spontaneously or using its. Presently, Cetate, Cârnic, Orlea or Jig are all composed of rocks and stockpiles resulting ing activities where no visible signs of Aeolian erosion can be observed. Both waste rock d the low-grade ore stockpile will be composed of massive rock fragments and blocks blasts inside the pits and that also have high erosion resistance. k stockpiles will be re-graded and re-vegetated as the project will proceed so that the Aeolian main within the same limits as the surrounding areas. In Environmental Impact Assessment Study (EIA) (Vol. 12 – Chapter 4.2, Subchapter 4.2.4) <i>Quality Management</i> Plan (Volume 24, Plan D) include, in detail, technical and operational mitigation/elimination of dust emissions generated by the Project activities and give details aspects mentioned by the questioner, please find below some of these measures. the dust emissions control in the pits and the transport roads for ore and waste rock: use of a new blasting technology: sequential blasting, that leads to a lower upraise of the tant plume and a smaller dispersion area; ation of dust-generating activities in very high-wind situations or when automatic PM10 itor placed in Roşia Montanā Protected Area indicates an alert situation; ementing the dust control program for unsealed road surface in dry seasons via water spray is and use of inert dust suppression chemicals, measures that will lead to reduction of dust resion by 90%. mizing the drop heigh in material handling/placement obtained and motorized equipment. matic air quality and meteorological parameters monitoring ementing schedules for periodic routine maintenance of vehicle and motorized equipment. matic air quality. Such measures may consist of water spraying of ore and waste rocks during ng