

Item no.	3773 Same as: 3774, 3775, 3776, 3777, 3778, 3779, 3780, 3781, 3782, 3783, 3784, 3785, 3786, 3787, 3788, 3789, 3790, 3791, 3792, 3793, 3794, 3795, 3796, 3797, 3798, 3799, 3800, 3801, 3802
No. to identify the observations received from the public	Same as: No. 111228/25.08.2006, No. 111227/25.08.2006, No. 111226/25.08.2006, No. 111225/25.08.2006, No. 111224/25.08.2006, No. 111223/25.08.2006, No. 111222/25.08.2006, No. 111221/25.08.2006, No. 111220/25.08.2006, No. 111219/25.08.2006, No. 111218/25.08.2006, No. 111217/25.08.2006, No. 111216/25.08.2006, No. 111215/25.08.2006, No. 111214/25.08.2006, No. 111213/25.08.2006, No. 111212/25.08.2006, No. 111211/25.08.2006, No. 111210/25.08.2006, No. 111209/25.08.2006, No. 111208/25.08.2006, No. 111207/25.08.2006, No. 111206/25.08.2006, No. 111205/25.08.2006, No. 111204/25.08.2006, No. 111203/25.08.2006, No. 111202/25.08.2006, No. 111201/25.08.2006, No. 111200/25.08.2006 No. 111229/25.08.2006
Proposal	<p>The questioner does not agree to the promotion of the Roşia Montană Project, making the following comments:</p> <ul style="list-style-type: none"> - The EIA does not present all possible risks related to this project;; -Total costs for closing the mine are unrealistic; -There isn't until now an approved Zonal Urbanism Plan for the Protected Areas -The phase of public consultation and quality evaluation of the impact assessment study report begun without a valid urbanism certificate; -Information about the foundation which RMGC will establish and subsidize is not given. This foundation follows to assume the obligations which the mining operation can not assume; -The present urbanism plans of the Roşia Montană commune do not correspond with the mining project proposal described in EIA; -There is no liner proposed for the tailings pond; -The proposed waste deposits will be not constructed according to the legislation in force; <p>Also, the questioner sends within the letter two points of view of some independent specialists</p> <ul style="list-style-type: none"> -No financial guarantees have been stipulated; -There is not a Safety Report submitted for the public consultation and evaluation by the competent authorities; -The EIA report does not assess the "zero alternative"; -The Project poses a threat for protected flora and fauna; -The EIA report does not refer to the impact on the listed heritage buildings of noise and vibrations caused by the mining operations; -The public/ONGs wish to consult the contracts and agreements between Company and Romanian State; -The Urbanism Plan has been modified without public consultation; -From archeological point of view, the area proposed to be occupied by project was not legally investigated; -Contests the protection of the architectural and spiritual monuments with the responsibility of the state institutions for the protection operation. <p>SEE THE CONTENT OF THE TYPE 1 CONTESTATION</p>
Solution	<p>It is the nature of risk that it can be mitigated and diminished; it cannot be made to disappear. In order to put this into context, the common action of walking on the street or developing everyday activities have an accident potential. This accident potential is twice higher than within the framework of industrial activities that use hazardous substances.</p> <p>A major chapter of the EIA report was dedicated to the identification of risks for the project. In addition, this chapter provides a discussion of the mitigation measures for each risk and how they were incorporated into the project designs. It is recognized that risk identification is difficult due to the number and diversity of events that can be envisioned. The EIA report cannot assume to cover all of the potential risks associated with the project. However, it has attempted to identify and address the most relevant risks. The extent of risk assessment and the intensity of the prevention and mitigation measures should be proportional to the risk involved and therefore only the risks that have been considered important have been assessed in detail. Each is described below.</p> <p>In the larger sense, the entire EIA report is focused on the assessment of impacts and their associated mitigation. Specifically, Chapter 4 of the EIA presents that impact assessment of the project. The following discussion presents a summary of the impact discussed in the EIA.</p>

As far as natural and technological risks assessments are concerned, Chapter 7, "Risk Cases", from the Report on Environmental Impact Assessment, emphasizes the fact that safety and prevention measures, the implementation of the environmental management and risk systems are mitigating the consequences to acceptable levels as compared to the most restrictive norms, standards, the best practices or national and international recommendations in the field. The risk level has been established as moderate and so, socially acceptable. The extension of the risk assessment and the intensity of the prevention and mitigation measures of the consequences should be proportionate to the risk involved. Selection of a specific mitigation technique is depends on the analyzed accident scenario.

More detailed assessments are conducted for accident scenarios that, based on the qualitative assessment are found to be potentially major, of probability more than 10^{-6} (reduced recovery periods of 1/1,000,000) meaning that they could have major consequences therefore, elevated associated risk, a higher risk level than 9 to 12 (on a scale of 1-25). To put this in context, simply living in southern Florida rates a 25 on the risk scale.

A global assessment of the risks associated with the Roşia Montană Project is obtained by the quick environmental and health risk assessment methodology initially developed by the Italian Ministry of the Environment and the World Health Organization. Natural hazard and risk identification and analysis presents key data and information in assessing potential technological accidents. Thus:

- In designing the Tailings Management Facility, the design parameters were chosen to fully cover the characteristic seismic risk of the area. These seismic design parameters adopted for the TMF and other facilities on the proposed site result in a safety factor much greater than the minimum accepted under the Romanian and European design standards for such facilities;
- in the sector physically impacted by the Project, the risk of floods will remain very low due to the small catchments (controlled by the Roşia and Corna Streams) the area affected by the operation, and the creation of containment, diversion and drainage hydro-technical structures for storm waters on the site, and in the Abrud catchment in general;
- risks caused by meteorological events have been reviewed and used in assessing the hazards of the affected technological processes.

From the analysis of morphometrical parameters and their correlation with other sets of information on the natural slopes on and near the site shows that the (qualitatively estimated) landslide occurrence risk is low to moderate and its consequences will not cause major impacts on the structural components of the Project.

There is no significant risk associated with resource depletion. Mining activities are planned judiciously, so as to extract only the profitable gold and silver resources and only the necessary construction rock for the Project. The management of the mining concession site will minimize reserve "sterilization" (limitation of future access to the reserves).

In assessing technological hazards and risks, the quantity of hazardous substances on the site was calculated as a total and by category, as provided by the *Notification Procedure* approved by Ministry of Agriculture, Forestry, Water and Environment (MAFWE) Order 1084/2003. Based on an evaluation of hazardous substances in stock on the Project site in relation to the relevant quantities provided by the Government Decision 95/2003 which transposes the Seveso Directive, the Project ranges between the upper and the lower limits, and therefore S.C. Roşia Montană Gold Corporation S.A. is required to prepare a Report on Environmental Impact Assessment Study to be sent to the local environmental authority and the local civilian protection authority a *Safety Report* on its operations to prevent major accident risks.

In assessing the consequences of major accidents involving dangerous substances, physical-mathematical models accepted internationally and especially at EU level, and the current version of the SLAB (Canada) software have been used, the latter for the atmospheric dispersion of denser than air gases, that may handle a multitude of situations and scenarios. Similarly, the EFFECTSGis 5.5 (Netherlands) software, developed for the analysis of the effects of industrial accidents and of consequences. Several scenarios were considered in response to the internal legislative requirements, especially related to the implementation of the Internal Emergency Plans (GD 647/2005). The conclusions of the risk assessment for major accidents were:

- The total destruction of plant facilities may only be caused by terrorist attack with classic or

nuclear weapons. Simultaneous damage to the HCl tank (including containment) and to the NaCN solution tank, the tanks containing enriched solution, to one or more leaching tanks, having as a result HCN dispersion into the air. At the same time, under certain situations and weather conditions unfavorable for dispersion, people within 40 m of the emission source, surprised by the toxic cloud for more than 1 minute without respiratory protection equipment, will most certainly die. It may also be considered that, on a radius of about 310 m, persons exposed for more than 10 minutes may suffer serious intoxications that may also lead to death. Toxic effects may occur in persons up to about 2 km downwind of the process plant;

- Operating errors and/or failures in the measurement and control devices, resulting in a lower pH in the leaching tank, thickener and/or DETOX slurry and accidental emissions of hydrocyanic acid. The area affected by concentrations of 290 ppm over a 10 min exposure time is within a circle of 36 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 157.5 m radius. The center of these circles is the middle of the CIL tanks platform;

- Accidental HCN emission from the decanter. The accident may be caused by a drop of pH in the CIL tanks combined with an overdose of flocculent solution and faulty pH monitoring systems. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 65 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 104 m radius. The center of these circles is mid-distance between the two DETOX facilities;

- Accidental HCN emission from the DETOX facility. The accident may be caused by a drop of pH in the reactors generated by an overdose of metabisulfite solution and/or copper sulphate combined with faulty pH monitoring systems. The area affected by high 1900 ppm concentrations for a 1 min exposure time is located within a 10 m radius circle. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 27 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 33 m radius. The center of these circles is mid-distance between the two DETOX facilities;

- Explosion of the LPG storage tank. The LPG storage tank has a 50 ton capacity and is located outdoors, near the heating plant. The simulation was conducted for the worst case scenario, considering an explosion of the full tank. Threshold I with heat 12.5 kW/m² is within a 10.5 m radius circle and Threshold II, of heat radiation 5 kW/m² is within a circle of 15 m radius;

- Damage and/or fire at the fuel tanks. Simulations were conducted for the worst case scenarios, considering ignition and combustion of all the diesel (fire in the tank, or in the containment vat, when full of diesel);

- Corna Dam break and breach development. Two credible accident scenarios were considered in simulating tailings flow out of the Tailings Management Facility, and six credible scenarios for the flow of decant water and tailings pore water, with significant effects on the terrestrial and aquatic ecosystems, in different weather conditions;

- Tailings flow may occur along Corna Valley, on a 800 m (starter dam break) or over 1600 m reach should the Corna dam break in its final stage;

- In regard to water quality impacts, cyanide concentrations in the water in the shape of a pollution plume may reach Arad, near the Romanian-Hungarian border on the Mureş River, in concentrations ranging between 0.03 and 0.5 mg/L. Due to inherent mathematical limitations in the models, these values and the accident effects are considered overestimated. Therefore, the results describe the "worst case scenario" based on extreme dam break assumptions for the Corna Dam.

A new and much more precise and realistic simulation has been subsequently established based on the INCA Mine model, that considers the dispersion, volatilization and breakdown of cyanides during the downstream movement of the pollutant flow (Whiteland et al., 2006).

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 (www.eurolimpacs.ucl.ac.uk). The model has been used to assess the impacts from future mining, and collection and treatment operations for pollution from past mining at Roşia 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 physical-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, an information sheet presenting the INCA modeling work is presented under the title of the Mureş River Modeling Program and the full modeling report is presented in Annex 5.1:

- Development of HCN on the tailings pond surface. Simulated emissions of HCN from the Tailings Management Facility pond surface and of their dispersion into the ambient air show that the level of 400 μ g/m³ hourly average and 179 μ g/m³ 8hr average will not be exceeded. These HCN concentrations are only slightly over the odor threshold (0.17ppm) and much below potentially dangerous concentrations;

- Cetate Dam break and breach development. Flood modeling was in case of a break in Cetate dam was based on the design parameters obtained from the hydrometeorological study "Assessment of rainfall intensity, frequency and runoff for the Roşia Montană Project - Radu Drobot". The breach characteristics were predicted using the BREACH model, and the maximum height of the flood wave in various flow sections was modeled using the FLDWAV software. The assumptions included a total 800000 m³ discharge for one hour, when the peak of the flood hydrograph is about 4.9 m above base flow immediately below the dam and in the narrow Abrud valley 5.9-7,5 km downstream of the dam, while in the last section considered (10,5 km) water depth is about 2.3 m above base flow and the maximum flow rate 877 m³/s. Further, the broader Aries valley allows the flood wave to propagate on a significantly wider bed, which results in a highly attenuated hydrograph. These results describe the "worst case scenario" based on extreme dam break assumptions:

- Accidents during cyanide transportation. Due to the large quantities of cyanide transported (about 30t /day) the risks associated to this activity were assessed in detail using the ZHA- Zurich Hazard Analysis method. As a consequence, the optimum transport route was selected from the manufacturer to the Process Plant, e.g.;

- Cyanide transport (in solid state) will exclusively involve special SLS (Solid to Liquid System) containers, 16 tons each. The ISO compliant container will be protected by a framework with legs, which allows separation from the transport trailer for temporary storage. The wall is 5.17 mm thick, which, together with the protective framework, provides additional protection to the load in case of accident. This system is considered BAT and is currently one of the safest cyanide transportation options.

It is being mentioned the fact that the study develops the occurrence possibility of these scenarios (pages 166-171, Conclusions).

As regards the cyanides management, there is a baseline study named "Roşia Montană Golden Project, Cyanides Management Plan" prepared in compliance with the "International Management Code for the Manufacture, Transport and Use of Cyanide in the Production of Gold (International Cyanide management Institute) May 2002". S.C. Roşia Montană Gold Corporation is signatory to this code.

Bibliographical references for Chapter 7 "Risk Cases" are listed at page173-176.

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RMGC's closure estimates, which were developed by a team of independent experts with international experience and will be reviewed by third party experts, are based on the assumption that the project can be completed according to the plan, without interruptions, bankruptcy or the like They are engineering calculations and estimates based on the current commitments of the closure plan and are summarized in the EIA's Mine Closure and Rehabilitation Management Plan (Plan J in the EIA). Annex 1 of Plan J will be

updated using a more detailed approach looking at every individual year and calculating the amount of surety, which must be set aside year by year to rehabilitate the mine before RMGC is released from all its legal obligations. Most importantly, the current estimates assume the application of international best practice, best available technology (BAT) and compliance with all Romanian and European Union laws and regulations.

Closure and rehabilitation at Roşia Montană involves the following measures:

- Covering and vegetating the waste dumps as far as they are not backfilled into the open pits;
- Backfilling the open pits, except Cetate pit, which will be flooded to form a lake;
- Covering and vegetating the tailings pond and its dam areas;
- Dismantling of disused production facilities and revegetation of the cleaned-up areas;
- Water treatment by semi-passive systems (with conventional treatment systems as backup) until all effluents have reached the discharge standards and need no further treatment;
- Maintenance of the vegetation, erosion control, and monitoring of the entire site until it has been demonstrated by RMGC that all remediation targets have been sustainably reached.

While the aspects of closure and rehabilitation are many, we are confident in our cost estimates because the largest expense—that incurred by the earthmoving operation required to reshape the landscape—can be estimated with confidence. Using the project design, we can measure the size of the areas that must be reshaped and resurfaced. Similarly, there is a body of scientific studies and experiments that enable scientists to determine the depth of soil cover for successful re-vegetation. By multiplying the size of the areas by the necessary depth of the topsoil by the unit rate (also derived from studying similar earthmoving operations at similar sites), we can estimate the potential costs of this major facet of the rehabilitation operation. The earthmoving operation, which will total approximately US \$65 million, makes up 87% of closure and rehabilitation costs.

Also, the necessity of additional technological measures to stabilize and reshape the tailings surface will be discussed in the update of the Economical Financial Guarantee (EFG) estimate, which leads to an increase the provisions for tailings rehabilitation, especially if the TMF is closed prematurely and no optimized tailings disposal regime is applied. The exact figures depend on the details of the TMF closure strategy which can be finally determined only during production.

We believe that—far from being too low—our cost estimates are evidence of our high level of commitment to closure and rehabilitation. Just as a comparison, the world's largest gold producer has set aside US \$683 million (as of December 31, 2006) for the rehabilitation of 27 operations, which equates to US \$25 million on average per mine. The RMGC closure cost estimates, recently revised upward from the US \$73 million reported in the EIA based on additional information, currently total US \$76 million.

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According to Law 5/2000, regarding the approval of the Territory Arrangement Plan – 3rd Section – protected areas (“Law 5/2000”) (article 5, paragraphs 2-3), local public authorities, with the support of the competent central public authorities, had the obligation to establish the boundaries of the protection areas for the cultural heritage elements stipulated in Annex III to the above-mentioned law. This measure should have been taken within 12 months from the effective date of Law 5/2000, based on specialized studies. For this purpose, the local public authorities had to prepare the town planning documentation and its related regulations, developed and approved according to the law. This documentation must comprise the necessary protection and conservation measures for the national cultural heritage elements located in this area.

Concurrently, Law 350/2001 on the territory arrangement and urbanism stipulates the right of legal or natural persons interested in arranging the territory, to initiate the development of urbanism plans.

In accordance with these legal provisions, in 2001, RMGC initiated the preparation of these specific town-planning documentations - the General Urbanism Plan and the Zonal Urbanism Plan. These plans have been developed by Romanian certified companies and followed the legal approval procedure. The permit for the establishment of the Roşia Montană Historical Centre Protected Area was issued by the Ministry of Culture and Religious Affairs in 2002 (permits no. 61/14.02.2002 and no. 178/20.06.2002) as part of the procedure for the approval of the town planning documentation. Based on these permits, the Ministry

of Culture and Religious Affairs requested the company to develop a Zonal Urbanism Plan for the Historical Centre of Roşia Montană. Out of the 41 historical buildings in Roşia Montană, thirty-five (35) are located inside the protected area of the Roşia Montană Historical Centre.

As for the heritage elements located in the future industrial development area (6 historical buildings), these are discussed in the Industrial Zonal Urbanism Plan prepared by SC Proiect Alba SA. The regulations included in this document will contain measures for the protection of these monuments.

In conclusion, the town planning studies and the specialized studies conducted for the purpose of establishing the boundaries of the protection areas within the future mining operations perimeter are currently pending approval, in accordance with the legal provisions, by the competent institutions and committees. Please note that none of the historical houses located in the perimeter of the proposed project will be affected; on the contrary, all the 41 historic buildings will be included in a complex restoration and rehabilitation program (see the Management Plan). This program is mandatory, regardless of the implementation of the mining project, if we want to prevent these buildings from collapsing because of their advanced degradation.

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Your assertion regarding the failure to obtain an applicable urbanism certificate at the start up of the public debates and of the evaluation of the quality of the report to the environmental impact assessment, is not correct.

Thus, by the time when the public debate stage started up there was an applicable urbanism certificate and namely the urbanism certificate no. 78/26.04.2006 issued by Alba County Council. This certificate was obtained prior to the evaluation stage of the quality of the report to the environmental impact assessment which started up once the EIA was submitted to the Ministry of Environment and Water Management on the 15th May 2006.

For better understanding the applicable legal provisions and the facts developed within the mining project of Roşia Montană zone we would like to make several comments:

- The procedure for issuing the environmental permit for Roşia Montană project started up on the 14th December 2004 by submitting the technical memorandum and the urbanism certificate no.68/26.August 2004 (certificate applicable by that time). S.C. Roşia Montană Gold Corporation S.A. (RMGC) applied for and obtained a new urbanism certificate no.78/26.04.2006 issued by Alba County Council for the entire Roşia Montană Project applicable on the date of the EIA Report submission (15th May 2006) and prior to the public debate start up (June 2006);
- The Section 1 of the urbanism certificate no.78 of 26th 04.2006 entitled Work construction, position 10 – “Processing plant and associated constructions “ – including the tailing management facility which existence is compulsory for the processing plant running. The Tailing management facility is also specified on the layout plans which are integral part of the urbanism certificate and they were sealed by Alba County Council so that they cannot be modified;
- The Urbanism Certificate is an informative document and its goal is only to inform the applicant about the legal, economic and technical regime of the existing lands and buildings and to establish the urbanism requirements and the approvals necessary to obtain the construction permit (including the environmental permit) as per art.6 of Law 50/1991 referring to the completion of construction works, republished and art 27 paragraph 2 of the Norms for the application of Law 50/1991 – Official Journal 825 bis/13.09.2005).

As it is an informative document, it does not limit the number of certificates an applicant may obtain for the same land plot (art. 30 of Law no. 350/2001 regarding the territorial planning and urbanism).

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Introduced as part of the Environmental Impact Assessment Report Study (EIA), the Roşia Montană Foundation is shifting in focus. The Community Sustainable Development Plan activities initially conceived as coming under the Foundation umbrella (business oriented activities: business incubator, business advisory center, micro-finance facility, as well as social oriented activities: education and training center) have been advanced independently, via partnerships and with community participation in

decision-making – a preferable way to advance social and economic development programs.

Going forward, the Foundation will take shape around preservation, patrimony and cultural heritage issues, with its final form determined in consultation with the community.

In terms of the philosophy that guides the company's Sustainable Development efforts, the Roșia Montană Gold Corporation (RMGC) sees itself not as principal provider, but as a partner. Community involvement is considered the starting point; over time, as the community builds the capacity to maintain programs in its own right, the company will turn over control of currently-established programs to the community and its institutions.

For more information, please see Roșia Montană Sustainable Development and the Roșia Montană Project – annex 4.

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We underline the fact that your statement is false. The General Urbanism Plan for the Roșia Montană commune, endorsed in 2002 allows the development of Roșia Montană project, as it has been presented during the public consultations.

Concurrently, pursuant to the provisions of art. 41, paragraph 2, from the Mining Law no.85/2003, the authorities from the local administration have the liability to adjust and/or update the territory arrangement plans and the general urbanism plans, in order to allow the development of all operations necessary for the development of mining activities.

RMGC has also initiated the preparation of two zonal urbanism plans: Zonal Urbanism Plan Modification – Roșia Montană Industrial Area and Zonal Urbanism Plan – Roșia Montană Historical Area. The first urbanism plan is required by the urbanism certificate no.78/26.04.2006, which updates the Zonal Urbanism Plan for the Industrial Area approved in 2002. As far as the historical area is concerned, its Zonal Urbanism Plan is required by the General Urbanism Plan approved also in 2002. Both urbanism plans are pending approval and have been subject to public consultations.

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An engineered liner is included in the design of the Tailings Management Facility (TMF) basin. Specifically, the Roșia 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; and
- 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 Roșia 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 (1×10^{-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 (1×10^{-6} cm/sec) cut off wall within the foundation of the starter dam to control seepage;
- A low permeability (1×10^{-6} 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.

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- the secondary seepage collection pond;
- the secondary containment dam; and
- 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 (1×10^{-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.

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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.

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.

*

Information regarding our Environmental Financial Guarantee (“EFG”) is fully discussed in the section of the Environmental Impact Assessment titled “Environmental and Social Management and System Plans” (Annex 1 of the subchapter titled “Mine Rehabilitation and Closure Management Plan”). The EFG is updated annually and will always reflect the costs associated with reclamation. These funds will be held in protected accounts at the Romanian state disposal.

Roşia Montană Gold Corporation (“RMGC”) has invested significant time, energy, and resources assessing the viability of a mining project in the valley of Roşia Montană. This assessment has led RMGC to conclude that Roşia Montană presents an attractive long-term development opportunity – an opinion confirmed by a variety of lending institutions, who have completed detailed reviews of the project’s design and profitability. We have every confidence that we will see the project through to the end of its projected 16-year lifespan, regardless of any fluctuations in the market price of gold.

In Romania, the creation of an EFG is required to ensure adequate funds are available from the mine operator for environmental cleanup. The EFG is governed by the Mining Law (no. 85/2003) and the National Agency for Mineral Resources instructions and Mining Law Enforcement Norms (no. 1208/2003).

Two directives issued by the European Union also impact the EFG: the Mine Waste Directive (“MWD”) and the Environmental Liability Directive (“ELD”).

The Mine Waste Directive aims to ensure that coverage is available for 1) all the obligations connected to the permit granted for the disposal of waste material resulting from mining activities and 2) all of the costs related to the rehabilitation of the land affected by a waste facility. The Environmental Liability Directive regulates the remedies, and measures to be taken by the environmental authorities, in the event of environmental damage created by mining operations, with the goal of ensuring adequate financial resources are available from the operators for environmental cleanup efforts. While these directives have yet to be transposed by the Romanian Government, the deadlines for implementing their enforcement mechanisms are 30 April 2007 (ELD) and 1 May 2008 (MWD) – thus before operations are scheduled to begin at Roşia Montană.

RMGC has already begun the process of complying with these directives, and once their implementation instruments are enacted by the Romanian Government, we will be in full compliance.

Each EFG will follow detailed guidelines generated by the World Bank and the International Council on Mining and Metals.

The current projected closure cost for Roşia Montană is US \$76 million, which is based on the mine operating for its full 16-year lifespan. The annual updates will be completed by independent experts, carried out in consultation with the NAMR, as the Governmental authority competent in mining activities field. These updates will ensure that in the unlikely event of early closure of the project, at any point in time, each EFG will always reflect the costs associated with reclamation. (These annual updates will result in an estimate that exceeds our current US \$76 million costs of closure, because some reclamation activity is incorporated into the routine operations of the mine.)

A number of different financial instruments are available to ensure that RMGC is capable of covering all of the expected closure costs. These instruments, which will be held in protected accounts at the Romanian state disposal, include:

- Cash deposit;
- Trust funds;
- Letter of credit;
- Surety bonds;
- Insurance policy.

Under the terms of this guarantee, the Romanian government will have no financial liability in connection with the rehabilitation of the Roşia Montană project.

*

The Security Report has been made available for public access by being posted at the following Internet address http://www.mmediu.ro/dep_mediu/rosia_montana_securitate.htm as well as through the printed version which could have been found at several information locations established for public hearings.

*

The Report on the Environmental impact assessment study (EIA) considered all alternative developments, including the option of not proceeding with any project – an option that would generate no investment, allowing the existing pollution problems and socio-economic decline to continue (Chapter 5 – *Assessment of Alternatives*).

The report also considered alternative developments – including agriculture, grazing, meat processing, tourism, forestry and forest products, cottage industries, and flora/fauna gathering for pharmaceutical purposes – and concluded that these activities could not provide the economic, cultural and environmental benefits brought by the Roşia Montană Project (RMP).

Chapter 5 also examines alternative locations for key facilities as well as alternative technologies for mining, processing and waste management, in line with best practice and as compared against published EU best available techniques (BAT) documentation.

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The impact on protected flora and fauna will exist only locally, but this impact will not lead to the loss of any specie. The Project has been designed even from the beginning to fully comply with the requirements and norms imposed by Romanian and European environmental legislation.

The company believes the fact that the project impact on environment remains significant, especially because covers previous impacts. But, the investments required to ecologically restore/rehabilitate Roşia Montană area in order to address current complex environmental issues, are only achievable following the implementation of some economic projects that will generate and warrant implementation of some direct and responsible actions as a component of base principles of sustainable development concepts. Clean processes and technologies may be developed only in the presence of a solid economic environment fully compliant with the environment that will also resolve previous impacts of anthropic activities.

The base documents of the Project are in fact an unbiased reason of its implementation, considering the highly complex environmental commitment within Roşia Montană area.

Some of the Roşia Montană species that are under a certain protection status stand for an insignificant percentage of the scale of populations estimated at national level. The characterization of species from their habitat point of view exists in the species tables presented in the Biodiversity Chapter of the EIA Report and its annexes, although this is not a requirement imposed by the Habitats Directive. Due to their large volume of information, the annexes of chapter 4.6 Biodiversity can be found in the electronic version of the EIA disclosed by the company both in Romanian and English through approx. 6,000 DVD/CD copies, being accessible on the company website, and on the websites of Ministry of Environment and Water Management, local and regional environmental protection agencies of Alba, Sibiu, Cluj, etc.

From practical point of view, the low value of conservation of the impact area is also indirectly emphasized by the fact that there is no proposal to designate the area a SPA (aviafaunistic special protected area) and

by the denial as unfounded of the proposal to designate the area as a pSCI area (sites of community importance).

Taking all these into account, we believe that the proposed Project is compliant with the provisions of EU Directive no. 92/43 Habitats[1], and EU Directive no. 79/409 Birds[2] respectively, especially because within Biodiversity Management Plan, Plan H, several active and responsible measures are provided to reconstruct/rehabilitate several natural habitats, pursuant to the provisions of the same documents [3].

References:

[1] art.3, 2nd paragraph, Each Member State shall contribute to the creation of Natura 2000 (network) in proportion to the representation within its territory of the natural habitat types and the habitats of species referred to in paragraph 1. To that effect each Member State shall designate, in accordance with Article 4, sites as special areas of conservation taking account of the objectives set out in paragraph 1.

art.4, 1st paragraph. On the basis of the criteria set out in Annex III (Stage 1) and relevant scientific information, each Member State shall propose a list of sites indicating which natural habitat types in Annex I and which species in Annex II that are native to its territory the sites host. For animal species ranging over wide areas these sites shall correspond to the places within the natural range of such species which present the physical or biological factors essential to their life and reproduction. For aquatic species which range over wide areas, such sites will be proposed only where there is a clearly identifiable area representing the physical and biological factors essential to their life and reproduction. Where appropriate, Member States shall propose adaptation of the list in the light of the results of the surveillance referred to in Article 11. [...]

2nd paragraph.[...] Member States whose sites hosting one or more priority natural habitat types and priority species represent more than 5 % of their national territory may, in agreement with the Commission, request that the criteria listed in Annex III (Stage 2) be applied more flexibly in selecting all the sites of Community importance in their territory.[...]

Art. 6, 4th paragraph. If, in spite of a negative assessment of the implications for the site and in the absence of alternative solutions, a plan or project must nevertheless be carried out for imperative reasons of overriding public interest, including those of a social or economic nature, the Member State shall take all compensatory measures necessary to ensure that the overall coherence of Natura 2000 is protected. It shall inform the Commission of the compensatory measures adopted.

Art. 16. Provided that there is no satisfactory alternative and the derogation is not detrimental to the maintenance of the populations of the species concerned at a favourable conservation status in their natural range, Member States may derogate from the provisions of Articles 12, 13, 14 and 15 (a) and (b):[...]

- in the interests of public health and public safety, or for other imperative reasons of overriding public interest, including those of a social or economic nature and beneficial consequences of primary importance for the environment;

[2] Art.4, 1st paragraph. The species mentioned in annex 1 shall be the subject of special conservation measures concerning their habitat in order to ensure their survival and reproduction in their area of distribution. [...]

Trends and variations in population levels shall be taken into account as a background for evaluations. Member states shall classify in particular the most suitable territories in number and size as special protection areas for the conservation of these species, taking into account their protection requirements in the geographical sea and land area where this directive applies.

[3] Directive 92/43 Habitats, art. 2, 2nd paragraph; Directive 79/409 Birds, art. 3, 2nd paragraph, letter c.

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This statement is ungrounded, because the environmental impact assessment (EIA) process has included preliminary cumulative estimates for stationary motorized equipment and linear (vehicular) sources were

prepared in order to provide an initial understanding of the potential cumulative noise and vibration impacts from background and Roşia Montană Project sources, and to guide future monitoring and measurement activities as well as the selection of appropriate Best Management Practices/Best Available Techniques for further mitigation of the potential noise and vibration impacts from Project activities. These preliminary estimates apply to major construction activities, as well as the operation and decommissioning/closure of the mine and process plant. They are documented as data tables and isopleth maps for major noise-generating activities in selected, representative Project years; see **Tables 4.3.8 through 4.3.16** and **Exhibits 4.3.1 through 4.3.9**. All these details related to the applied assessment methodology, the input data of the dispersion model, the modeling results and the measures established for the prevention/mitigation/elimination of the potential impact for all project stages (construction, operation, closure) are included in Chapter 4, Section 4.3 Noise and Vibrations of the EIA Report.

Project Years 0, 9, 10, 12, 14, and 19 were selected for modeling because they are considered to be representative of the most significant levels of noise-generating activity. They are also the same years used for air impact modeling purposes in Section 4.2, as air and noise impacts share many of the same sources or are otherwise closely correlated. In order to more accurately reflect potential receptor impacts, all of these exhibits integrate the background traffic estimates discussed in Section 4.3.6.1.

The Project site plan and process plant area and facility drawings were used to establish the position of the noise sources and other relevant physical characteristics of the site. Receptor locations were established using background reports and project engineering and environmental documentation provided by RMGC. With this information, the source locations and receptor locations were translated into input (x, y, and z) co-ordinates for the noise-modeling program.

Tables 4.3.8 through 4.3.16 and **Exhibits 4.3.1 through 4.3.9** present the average maximum noise values likely to be experienced by the receptor community over all Project phases after incorporation of a variety of initial mitigation measures designed specifically to reduce the impacts associated with mobile and stationary machinery sources. The influence of non-mining related background (primarily traffic) noise is also included.

To evaluate the sound levels associated with haul trucks and other mobile sources crossing the site carrying excavated ore, waste rock, and soil, a noise analysis program based on the (U.S.) Federal Highway Administration's (FHWA) standard RD-77-108 [1] model was used to calculate reference noise emissions values for heavy trucks along the project roadways. The FHWA model predicts hourly L_{eq} values for free-flowing traffic conditions and is generally considered to be accurate within 1.5 decibels (dB).

The model is based on the standardized noise emission factors for different types and weights of vehicles (e.g., automobiles, medium trucks, and heavy trucks), with consideration given to vehicle volume, speed, roadway configuration, distance to the receiver, and the acoustical characteristics of the site. The emission levels of all three vehicle types increase as a function of the logarithm of their speed.

To evaluate the sound sources from the proposed mine processing facility and the semi-stationary material handling equipment (at the ore extraction, waste rock and soil stockpiling areas), a proprietary computerized noise prediction program was used by AAC to simulate and model the future equipment noise emissions throughout the area. The modeling program uses industry-accepted propagation algorithms based on the following American National Standards Institute (ANSI) and International Organization for Standardization (ISO) standards:

- *ANSI S1.26-1995 (R2004), Method for the Calculation of the Absorption of Sound by the Atmosphere;*
- *ISO 9613-1:1993, Acoustics -- Attenuation of sound during propagation outdoors-- Part 1: Calculation of the absorption of sound by the atmosphere;*
- *ISO 9613-2:1996, Acoustics -- Attenuation of sound during propagation outdoors -- Part 2: General method of calculation;*
- *ISO 3891:1978, Acoustics -- Procedure for describing aircraft noise heard on the ground.*

The calculations account for classical sound wave divergence (i.e., spherical spreading loss with adjustments for source directivity from point sources) plus attenuation factors due to air absorption, minimal ground effects, and barriers/shielding.

This model has been validated by AAC over a number of years via noise measurements at several operating industrial sites that had been previously modeled during the engineering design phases. The comparison of modeled predictions versus actual measurements has consistently shown close agreement; typically in the range of 1 to 3 dB (A).

References:

[1] FHWA Highway Traffic Noise Prediction Model; see Federal Highway Administration Report Number FHWA-RD-77-108, USA, Washington, D.C., 1978.

A detailed presentation of blasting technology can be found in the annex 7.1 - Proposed blasting technology for the operational phase of Roşia Montană Project.

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The partnership between Gabriel Resources and Regia Autonomă a Cuprului Deva (currently, CNCAF Minvest SA) has been established based on Law no. 15/1990 on the reorganization of the state owned companies as autonomous directions and trade companies, published in the Official Gazette, Section I, no. 98/08.08.1990, as subsequently amended and supplemented. Art. 35 of this law provides the possibility of the regies autonomous to enter into partnerships with legal third parties, Romanian or foreign, for the purpose of setting up new trading companies.

Roşia Montană Gold Corporation SA was set up in 1997, according to the legal provisions in force as at that time, the setting up being made by observing all the conditions imposed by Company Law no. 31/1990 and Trade Register Law no. 26/1990, in regard of the setting up of the joint stock companies with mixed capital.

We underline that the Articles of Associations of Roşia Montană Gold Corporation SA, representing the result of the parties agreement in regard of the terms and conditions under which the partnership between the Romanian state and investor takes place represents a public document, being included in the category of documents which, as per Law no. 26/1990 on the Trade Register, are published in the Romanian Official Gazette and for which the Trade Register is obliged to issue, on the expense of the persons submitting a request, certified copies.

As for the agreement concerning the setting up of the mixed company together with Gabriel Resources Ltd., this has been expressed by the Ministry of Industry and Trade, the conditions imposed by the setting up of the mixed company being the following: (i) ensuring of the jobs at the level existing upon the conclusion of the agreement concerning the setting up of the mixed company; (ii) the expenses incurred by the fulfillment of the exploration stage should be fully supported by Gabriel; (iii) the obtaining of the approval from the ANRM by the Copper Autonomous Direction Deva and (iv) the observance of all legal provisions in force concerning the setting up of the mixed companies with foreign partners. These conditions have been fully complied with as at the setting up of the company and during the development of its activity.

We also specify that the establishing of the shareholders' quotas to the benefits and losses of Roşia Montană Gold Corporation SA has been made by considering their contribution quota to the company's share capital. The current percentage of 80% for Gabriel Resources Ltd. and of 19.31% for CNCAF Minvest SA resulted from the initial contribution and the subsequent contributions of the shareholders to the company's share capital, in consideration also of Gabriel Resources Ltd. advancing all expenses and costs related to the development-exploitation and permitting of the Roşia Montană Mining Project.

The provisions of the Articles of Associations of Roşia Montană Gold Corporation SA on the necessary majority and quorum conditions for the decision-making process within the General Shareholders Meeting and the quotas to the benefits and losses of the company are taken from Law no. 31/1990, and no derogation exists in regard of this aspect.

*

This claim is not true; the Urbanism Plan has been prepared with public consultation.

Roşia Montană Gold Corporation SA (RMGC) has requested and obtained from Alba County Council the Urbanism Certificate no. 78 of 26.04.2006, for the entire Roşia Montană mining project, including the tailings management facility. The Urbanism Certificate also stipulated the preparation of a Zonal Urbanism Plan, to reflect all changes made to the Roşia Montană Project, following the public consultations and debates organized in relation to this project, and the consultations with the permitting authorities. This plan, entitled “Modification of the Zonal Urbanism Plan, Roşia Montană Industrial Area”, was prepared and subjected to public debate in June 2006 in accordance with the provisions of Order no.176/N/2000 issued by the Ministry of Public Works and Territory Development for the approval of the technical regulations “Guidelines regarding the methodology applied for the preparation and framework content of the Zonal Urbanism Plan” and, at present, it is pending approval.

Concerning the Roşia Montană General Urbanism Plan approved in 2002, such plan was prepared in parallel with the Zonal Urbanism Plan of 2002, all the provisions of the General Urbanism Plan being also included in the Zonal Urbanism Plan. Also, the approval procedure related to the two urbanism plans was carried out in parallel.

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Preventive archaeological researches within the Roşia Montană mining project area have been undertaken based on specific techniques, specifically trial trenches in all accessible areas that are suitable for human habitation, taking into account the bibliographical information and the observations recorded during the archaeological survey campaigns, the geophysical studies and the analyses of the photogrammetric flights. In addition, surface investigations were undertaken, where appropriate.

The archaeological researches at Roşia Montană covered a large surface and focused on the areas known to have archaeological potential. THEREFORE, ALL AREAS THAT HAVE BEEN ARCHAEOLOGICALLY DISCHARGED HAD BEEN PREVIOUSLY INVESTIGATED. All research programs, beginning with the 2004 campaign, have been undertaken in full compliance with the current legal requirements, i.e. Ministerial Order no. 2392 of 6 September 2004 on the establishment of the Archaeological Standards and Procedures by the Ministry of Culture and Religious Affairs.

The proposed gold mining project at Roşia Montană has raised a series of issues related to the rescue of the historical-archaeological heritage within the area, as well as issues related to its scientific development and also the enhancement of heritage within a museum. Given the complex difficulties encountered in this respect, the Ministry of Culture and Religious Affairs decided to initiate the “Alburnus Maior” National Research Program.

The company’s role was to provide the necessary financial resources for the assessment, research and enhancement of the archaeological remains, in full compliance with the Romanian current legislation. The development of the research and of the archaeological discharge works has been conducted through specific means and methodologies that have been adjusted to the realities of every site researched, in our case, Roşia Montană. They consisted in:

- Archives studies;
- Archaeological surveys; trial trenches;
- aerial reconnaissance/survey and aerial photo interpretation ; high resolution satellite images;
- mining archaeology studies; underground topography and 3D modeling;
- geophysical surveys;
- extensive archaeological investigations in the areas with an identified archaeological potential- this implied carrying out archaeological excavations;
- Interdisciplinary studies- sedimentology, archaeo-zoology, comparative palynology, archaeo-metallurgy, geology, mineralogy;
- Radiocarbon dating and dendrochronology;
- This research and its results were included in an integrated database;
- traditional and digital archaeological topography and development of the GIS project; generate a photo archive- both traditional and digital;
- restoration of artifacts;
- an inventory and a digital catalogue of the artifacts;
- studies conducted by specialists in order to enhance the research results - publication of

monographs/scientific books and journals, exhibitions, websites, etc.

All the preventive archaeological researches undertaken at Roşia Montană since 2000 have been carried out as part of a complex research program; permits for preventive archaeological excavations being issued in compliance with the current legislation. These archaeological investigations have been undertaken by representatives of 21 specialized institutions from Romania and 3 others from abroad, under the scientific coordination of the Romanian National Museum of History. All archaeological researches have been conducted in full compliance with the existing legislation. The investigations undertaken during each archaeological research campaign have been approved by the Ministry of Culture and Religious Affairs based on the Annual Archaeological Research Plan approved by the National Commission of Archaeology.

Under the current legislation (Ministerial Order no. 2392 of 6 September 2004 on the establishment of the Archaeological Standards and Procedures by the Ministry of Culture and Religious Affairs) the archaeologists who have conducted the research may ask that an archaeological discharge certificate be granted. Based on a complex research program, the archaeologists prepare comprehensive documentation with regard to the researched area. Upon consideration of the submitted documentation, the National Commission of Archaeology makes a decision as to whether to recommend or not the granting of the archaeological discharge certificate. In the case of the research conducted in the period 2001-2006, the archaeological discharge certificate was issued directly by the Ministry of Culture and Religious Affairs or by its local agencies.

Preventive archaeological researches at Roşia Montană have allowed the research of five Roman cremation necropolis (Tău Corna, Hop-Găuri, Țarina, Jig - Piciorag and Pârâul Porcului – Tăul Secuilor), two funerary areas (Carpeni, Nanului Valley), sacred areas (Hăbad, Nanului Valley), habitation areas (Hăbad, Carpeni, Tăul Țapului, Hop), the most significant being the Roman structures on the Carpeni Hill and the circular funerary monument at Tău Găuri. In addition, for the first time in Romania, surface investigations have been paralleled by underground investigations of Cetate, Cârnic, Jig and Orlea massifs, with important discoveries in the Piatra Corbului, area, Cătălina-Monuleşti gallery and the Păru Carpeni mining sector.

The research consisted of aerial photo interpretation, archaeological magnetometric studies, electrical resistivity, palynology, sedimentology, geology studies, radiocarbon and dendrochronology dating. For a better management of the research units and of the archaeological findings, data bases were used, including text and photographs-among which 4 satellite images (an archive satellite image type SPOT Panchromatic (10m) from 1997; 2 satellite images LANDSAT 7 MS (30 m), dating from 2000 and 2003; a satellite image with priority programming SPOT 5 SuperMode color (2,5 m resolution-19 July 2004); all data have been included in a comprehensive GIS program, a first in the Romanian archaeological research.

In the case of archaeological monuments that are located close to industrial facilities, plans have been redesigned to ensure that the archaeological remains in question will not be affected. Where appropriate, the archaeological monument was preserved in situ and restored, i.e. the circular funerary monument at Hop-Găuri (see The "Alburnus Maior" monograph series, volume II, Bucharest, 2004). Another example in this respect is the Carpeni Hill, designated an "archaeological " reserve, and the Piatra Corbului area. In 2004, after being thoroughly investigated, these areas have been included on the List of Historic Monuments. Add to this the areas where ancient mining remains will be preserved, such as the Cătălina Monuleşti gallery and the mining sector Păru Carpeni, as well as the protected area Roşia Montană Historic Center, including a number of heritage assets (35 historic monument houses).

We emphasise in this respect that the identified and researched structures have been published in preliminary form in the Archaeological Research Chronicle of Romania, after every archaeological research campaign, as well as in volume 1 of the Alburnus Maior monographic series. We mention here the areas where Roman habitation structures have been identified and researched, as well as the references to be consulted for further information: Hop-Găuri, Carpeni, Tăul Țapului (CCA 2001 (2002), p. 254-257, no. 182; 261-262, nr. 185; 264-265, no. 188; 265-266, no. 189. Alburnus Maior I, 2003, p. 45-80; 81-122; 123-148; CCA 2001 (2002), 257-261; CCA 2003 (2004) ,280-283; Alburnus Maior I, 2003, p. 387-431, 433-446, 447-467).

For further details related to the applicable legal framework, the responsibilities of the Project titleholder, or for a detailed description of the preventive archaeological researches undertaken to date and of the Cultural Heritage Management Plans, please see Annex called "Information on the Cultural heritage of

Roşia and Related Management Aspects”. In addition, the annex includes supplementary information with regard to the result of the researches undertaken as part of the “Alburnus Maior” National Research Program between 2001 and 2006.

In conclusion, the area mentioned by the questioner has been researched in accordance with the Romanian legal requirements, as well as with European standards and practices in the field.

Note that the type of research undertaken at Roşia Montană, known as preventive/rescue archaeological research, as well as other related heritage studies, are done everywhere in the world in close connection with the economic development of certain areas. Both the costs for the research and for the enhancement and maintenance of the preserved areas are provided by investors, in a public-private partnership set up in order to protect the cultural heritage, as per the provisions of the European Convention on the Protection of the Archaeological Heritage (Malta-1992) [1].

References:

[1]The text of the Convention is available at the following address:
<http://conventions.coe.int/Treaty/Commun/QueVoulezVous.asp?NT=143&CM=8&DF=7/6/2006&CL=ENG>

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In 2000, in the context of the proposal of a new mining project in the Roşia Montană area, the Ministry of Culture and Religious Affairs approved a series of studies to be conducted in order to research the archaeological and architectural heritage of the area. And at the end of that year, the Design Centre for National Cultural Heritage (now the National Institute for Historical Monuments) presented the preliminary results of these researches to the National Commission for Historical Monuments and of the National Commission of Archaeology. Based on these results, in 2001, the Ministry of Culture and Religious Affairs initiated the “Alburnus Maior” National Research Program (the Order no. 2504 / 07.03.2001 of the Minister of Culture and Religious Affairs) in compliance with the Law 378/2001 (as subsequently amended by Law 462/2003 and by Law 258/2006 and Law 259/2006). Thus, since 2000, the Ministry of Culture and Religious Affairs – directly or through its subordinate institutions - has fulfilled its duties with regard to the management of the issues related to Roşia Montană’s heritage.

Thus, the preventive archaeological researches have been conducted by the representatives of 21 national institutions and 3 others from abroad under the scientific coordination of the National Museum of History of Romania. They have been carried out based on the annual approval of the National Commission of Archaeology of the Ministry of Culture and Religious Affairs. In accordance with the legislation in force, this research program is carried out with the financial support provided by RMGC (the company that plans to expand and continue to mine the gold-silver deposit in Roşia Montană). Thus, large-scale preventive investigations have been conducted or are underway in the RMP impact area. A proposal will be made based on the results thereof either for the archaeological discharge of some researched perimeters from the project perimeter or the preservation *in situ* of certain representative structures and monuments, in compliance with the legislation in force. In the case of the areas proposed for conservation and the ones for which the archaeological discharge measure was applied, the decision was made based on the surveys conducted by specialists and on the analysis of the National Commission of Archaeology. In the period 2000-2005, the mining project underwent a series of modifications designed to promote the implementation of the decision regarding the conservation of the local heritage. Examples of these include: extending the duration of the field investigations on several years (e.g. Ţarina, Pârâul Porcului, Orlea) and changing the location of some elements of infrastructure in order to allow the conservation of the archaeological remains found in the Carpeni, Tău Găuri and Pietra Corbului areas.

The architectural and town-planning surveys have been conducted, in accordance with the legislation in force, by companies certified by the Ministry of Culture and Religious Affairs, while the town-planning documentations drafted by these companies and the restoration and conservation works undertaken so far have been approved by the National Commission for Historical Monuments. Thus, the town-planning documentations have been approved and implemented in accordance with current legislation, and the company has agreed to these decisions and modified the mine development plans accordingly:

Extensive ethnographic research was conducted in the Roşia Montană-Abrud-Corna area in the period

2001-2004 coordinated by a team of specialists for the Romanian Village Museum „Dimitrie Gusti” (a National Museum directly under the coordination of the Ministry of Culture and Religious Affairs). Moreover, a broad series of oral history interviews was conducted in the period 2001-2002 by the Romanian Radio Broadcasting Company through the „Gheorghe Brătianu” Oral History Centre, Bucharest (SRR - CIO).

In compliance with the requirements of the Ministry of Environment and Waters Management and the Ministry of Culture and Religious Affairs, specific management plans have been drawn up for the management and conservation of the heritage remains from the Roşia Montană area, in the context of the implementation of the mining project. These plans have been included in the documentation prepared for the Report on the Environmental Impact Assessment Study. (see EIA Report, volume 32-33, *Plan M-Cultural Heritage Management Plan*, part I –*Management Plan for the Archaeological Heritage from Roşia Montană Area*; part II-*Management Plan for the Historical Monuments and Protected Zone from Roşia Montană*; part III- *Cultural Heritage Management Plan*).

These management plans comprise detailed presentations of the obligations and responsibilities regarding the protection and conservation of the heritage remains from the Roşia Montană area, which the company has assumed in the context of the implementation of the mining project, according to the decision of the central government. These heritage remains include: archaeological remains above and under the ground, historic buildings, protected areas, intangible heritage assets, cultural landscape items, etc. In this context, it should be noted that besides the works for the protection and preservation of the archaeological heritage, works are being carried out for the rehabilitation and conservation of the protected area Historical Centre Roşia Montană (comprising 35 historic buildings, and projects for the restoration of 11 of these buildings are currently being drafted), Tăul Mare, Tăul Brazi and Tăul Anghel as well as remains of the surface mining works from the Vaidoia area and the creation of a modern museum dedicated to the history of mining in the Apuseni Mountains area. This museum will be established in the coming years and it will include exhibitions of geology, archaeology, industrial and ethnographic heritage as well as an underground section organized around the Cătălina Monuleşti gallery.

Moreover, representatives of the Directorate for Culture, Religious Affairs and National Cultural Heritage of Alba County have visited Roşia Montană many times in order to collect information and to check the situation. The same administrative body was the intermediary for the specific stages of acquisitions of historic buildings made by RMGC. The Ministry of Culture and Religious Affairs expressed its pre-emption right regarding the acquisition of these buildings.

Note that apart from the obligations undertaken by RMGC as regards the protection and conservation of the archaeological remains and historical monuments, there are a whole series of obligations, which rest with the local public authorities from Roşia Montană and from Alba County and with the central public authorities, namely the Romanian Government.

These aspects are further detailed in the Cultural Heritage Management Plans included in the EIA Report (see EIA Report, volume 32, *Management Plan for the Archaeological Heritage from Roşia Montană Area*, pages 21-22, 47, 52-53, 66-67-Romanian version/ 22-24; 47; 55-56; 71-72 English version) and the EIA Report, volume 33- *Management Plan for the Historical Monuments and Protected Zone from Roşia Montană* pages 28-29, 48-50, 52-53, 64-65, page 98 – Annex 1- Romanian version/ 28-29; 47-50; 51-53; 65-66; 103- Annex 1- English version).

Item no.	3803 Same as: 3804, 3805, 3806, 3807, 3808, 3809, 3810, 3811, 3812, 3813, 3814, 3815	
No. to identify the observations received from the public	No. 111199/25.08.2006	Same as: No. 111198/25.08.2006, No. 111197/25.08.2006, No. 1111996/25.08.2006, No. 111195/25.08.2006, No. 111238/25.08.2006, No. 111194/25.08.2006, No. 111165/25.08.2006, No. 111134/25.08.2006, No. 111138/25.08.2006, No. 111139/25.08.2006, No. 111140/25.08.2006, No. 111122/25.08.2006
Proposal	<p>The questioner opposes the mining project at Roşia Montană and makes the following observations and comments:</p> <ul style="list-style-type: none"> -In EIA there are no presented all the possible risks derived from this project; -Total costs for closing the mine are unrealistic; -There isn't until now an approved Zonal Urbanism Plan for the Protected Areas -The phase of public consultation and quality evaluation of the impact assessment study report begun without a valid urbanism certificate; -Information about the foundation which RMGC will establish and subsidize is not given. This foundation follows to assume the obligations which the mining operation can not assume; -The present urbanism plans of the Roşia Montană commune do not correspond with the mining project proposal described in EIA; -There is no liner proposed for the tailings pond; -The proposed waste deposits will be not constructed according to the legislation in force; -No financial guarantees have been stipulated; -There is not a Safety Report submitted for the public consultation and evaluation by the competent authorities; -The EIA report does not assess the "zero alternative"; -The Project poses a threat for protected flora and fauna; -The EIA report does not refer to the impact on the listed heritage buildings of noise and vibrations caused by the mining operations; -The public/ONGs which to consult the contracts and agreements between Company and Romanian State; -The Urbanism Plan has been modified without public consultation; -From archeological point of view, the area proposed to be occupied by project was not legally investigated; -The questioner contests the protection of the architectural and spiritual monuments with the responsibility of the state institutions for the protection operation. <p>SEE THE CONTENT OF THE TYPE 1 CONTESTATION</p>	
Solution	<p>It is the nature of risk that it can be mitigated and diminished; it cannot be made to disappear. In order to put this into context, the common action of walking on the street or developing everyday activities have an accident potential. This accident potential is twice higher than within the framework of industrial activities that use hazardous substances.</p> <p>A major chapter of the EIA report was dedicated to the identification of risks for the project. In addition, this chapter provides a discussion of the mitigation measures for each risk and how they were incorporated into the project designs. It is recognized that risk identification is difficult due to the number and diversity of events that can be envisioned. The EIA report cannot assume to cover all of the potential risks associated with the project. However, it has attempted to identify and address the most relevant risks. The extent of risk assessment and the intensity of the prevention and mitigation measures should be proportional to the risk involved and therefore only the risks that have been considered important have been assessed in detail. Each is described below.</p> <p>In the larger sense, the entire EIA report is focused on the assessment of impacts and their associated mitigation. Specifically, Chapter 4 of the EIA presents that impact assessment of the project. The following discussion presents a summary of the impact discussed in the EIA.</p> <p>As far as natural and technological risks assessments are concerned, Chapter 7, "Risk Cases", from the Report on Environmental Impact Assessment, emphasizes the fact that safety and prevention measures, the implementation of the environmental management and risk systems are mitigating the consequences to acceptable levels as compared to the most restrictive norms, standards, the best practices or national and international recommendations in the field. The risk level has been established as moderate and so,</p>	

socially acceptable. The extension of the risk assessment and the intensity of the prevention and mitigation measures of the consequences should be proportionate to the risk involved. Selection of a specific mitigation technique is depends on the analyzed accident scenario.

More detailed assessments are conducted for accident scenarios that, based on the qualitative assessment are found to be potentially major, of probability more than 10^{-6} (reduced recovery periods of 1/1,000,000) meaning that they could have major consequences therefore, elevated associated risk, a higher risk level than 9 to 12 (on a scale of 1-25). To put this in context, simply living in southern Florida rates a 25 on the risk scale.

A global assessment of the risks associated with the Roşia Montană Project is obtained by the quick environmental and health risk assessment methodology initially developed by the Italian Ministry of the Environment and the World Health Organization. Natural hazard and risk identification and analysis presents key data and information in assessing potential technological accidents. Thus:

- In designing the Tailings Management Facility, the design parameters were chosen to fully cover the characteristic seismic risk of the area. These seismic design parameters adopted for the TMF and other facilities on the proposed site result in a safety factor much greater than the minimum accepted under the Romanian and European design standards for such facilities;

- in the sector physically impacted by the Project, the risk of floods will remain very low due to the small catchments (controlled by the Roşia and Corna Streams) the area affected by the operation, and the creation of containment, diversion and drainage hydro-technical structures for storm waters on the site, and in the Abrud catchment in general;

- risks caused by meteorological events have been reviewed and used in assessing the hazards of the affected technological processes.

From the analysis of morphometrical parameters and their correlation with other sets of information on the natural slopes on and near the site shows that the (qualitatively estimated) landslide occurrence risk is low to moderate and its consequences will not cause major impacts on the structural components of the Project.

There is no significant risk associated with resource depletion. Mining activities are planned judiciously, so as to extract only the profitable gold and silver resources and only the necessary construction rock for the Project. The management of the mining concession site will minimize reserve "sterilization" (limitation of future access to the reserves).

In assessing technological hazards and risks, the quantity of hazardous substances on the site was calculated as a total and by category, as provided by the *Notification Procedure* approved by Ministry of Agriculture, Forestry, Water and Environment (MAFWE) Order 1084/2003. Based on an evaluation of hazardous substances in stock on the Project site in relation to the relevant quantities provided by the Government Decision 95/2003 which transposes the Seveso Directive, the Project ranges between the upper and the lower limits, and therefore S.C. Roşia Montană Gold Corporation S.A. is required to prepare a Report on Environmental Impact Assessment Study to be sent to the local environmental authority and the local civilian protection authority a *Safety Report* on its operations to prevent major accident risks.

In assessing the consequences of major accidents involving dangerous substances, physical-mathematical models accepted internationally and especially at EU level, and the current version of the SLAB (Canada) software have been used, the latter for the atmospheric dispersion of denser than air gases, that may handle a multitude of situations and scenarios. Similarly, the EFFECTSGis 5.5 (Netherlands) software, developed for the analysis of the effects of industrial accidents and of consequences. Several scenarios were considered in response to the internal legislative requirements, especially related to the implementation of the Internal Emergency Plans (GD 647/2005). The conclusions of the risk assessment for major accidents were:

- The total destruction of plant facilities may only be caused by terrorist attack with classic or nuclear weapons. Simultaneous damage to the HCl tank (including containment) and to the NaCN solution tank, the tanks containing enriched solution, to one or more leaching tanks, having as a result HCN dispersion into the air. At the same time, under certain situations and weather conditions unfavorable for dispersion, people within 40 m of the emission source, surprised by the toxic cloud for more than 1 minute without respiratory protection equipment, will most certainly die. It may also be considered that, on a radius of about 310 m, persons exposed for more than 10 minutes may suffer

serious intoxications that may also lead to death. Toxic effects may occur in persons up to about 2 km downwind of the process plant;

- Operating errors and/or failures in the measurement and control devices, resulting in a lower pH in the leaching tank, thickener and/or DETOX slurry and accidental emissions of hydrocyanic acid. The area affected by concentrations of 290 ppm over a 10 min exposure time is within a circle of 36 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 157.5 m radius. The center of these circles is the middle of the CIL tanks platform;

- Accidental HCN emission from the decanter. The accident may be caused by a drop of pH in the CIL tanks combined with an overdose of flocculent solution and faulty pH monitoring systems. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 65 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 104 m radius. The center of these circles is mid-distance between the two DETOX facilities;

- Accidental HCN emission from the DETOX facility. The accident may be caused by a drop of pH in the reactors generated by an overdose of metabisulfite solution and/or copper sulphate combined with faulty pH monitoring systems. The area affected by high 1900 ppm concentrations for a 1 min exposure time is located within a 10 m radius circle. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 27 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 33 m radius. The center of these circles is mid-distance between the two DETOX facilities;

- Explosion of the LPG storage tank. The LPG storage tank has a 50 ton capacity and is located outdoors, near the heating plant. The simulation was conducted for the worst case scenario, considering an explosion of the full tank. Threshold I with heat 12.5 kW/m² is within a 10.5 m radius circle and Threshold II, of heat radiation 5 kW/m² is within a circle of 15 m radius;

- Damage and/or fire at the fuel tanks. Simulations were conducted for the worst case scenarios, considering ignition and combustion of all the diesel (fire in the tank, or in the containment vat, when full of diesel);

- Corna Dam break and breach development. Two credible accident scenarios were considered in simulating tailings flow out of the Tailings Management Facility, and six credible scenarios for the flow of decant water and tailings pore water, with significant effects on the terrestrial and aquatic ecosystems, in different weather conditions;

- Tailings flow may occur along Corna Valley, on a 800 m (starter dam break) or over 1600 m reach should the Corna dam break in its final stage;

- In regard to water quality impacts, cyanide concentrations in the water in the shape of a pollution plume may reach Arad, near the Romanian-Hungarian border on the Mureş River, in concentrations ranging between 0.03 and 0.5 mg/L. Due to inherent mathematical limitations in the models, these values and the accident effects are considered overestimated. Therefore, the results describe the "worst case scenario" based on extreme dam break assumptions for the Corna Dam.

A new and much more precise and realistic simulation has been subsequently established based on the INCA Mine model, that considers the dispersion, volatilization and breakdown of cyanides during the downstream movement of the pollutant flow (Whiteland et al., 2006).

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 (www.eurolimpacs.ucl.ac.uk). The model has been used to assess the impacts from future mining, and collection and treatment operations for pollution from past mining at Roşia 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 physical-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, an information sheet presenting the INCA modeling work is presented under the title of the Mureş River Modeling Program and the full modeling report is presented in Annex 5.1:

- Development of HCN on the tailings pond surface. Simulated emissions of HCN from the Tailings Management Facility pond surface and of their dispersion into the ambient air show that the level of $400\mu\text{g}/\text{m}^3$ hourly average and $179\mu\text{g}/\text{m}^3$ 8hr average will not be exceeded. These HCN concentrations are only slightly over the odor threshold (0.17ppm) and much below potentially dangerous concentrations;

- Cetate Dam break and breach development. Flood modeling was in case of a break in Cetate dam was based on the design parameters obtained from the hydrometeorological study "Assessment of rainfall intensity, frequency and runoff for the Roşia Montană Project - Radu Drobot". The breach characteristics were predicted using the BREACH model, and the maximum height of the flood wave in various flow sections was modeled using the FLDWAV software. The assumptions included a total 800000 m^3 discharge for one hour, when the peak of the flood hydrograph is about 4.9 m above base flow immediately below the dam and in the narrow Abrud valley 5.9-7,5 km downstream of the dam, while in the last section considered (10,5 km) water depth is about 2.3 m above base flow and the maximum flow rate 877 m^3/s . Further, the broader Aries valley allows the flood wave to propagate on a significantly wider bed, which results in a highly attenuated hydrograph. These results describe the "worst case scenario" based on extreme dam break assumptions:

- Accidents during cyanide transportation. Due to the large quantities of cyanide transported (about 30t /day) the risks associated to this activity were assessed in detail using the ZHA- Zurich Hazard Analysis method. As a consequence, the optimum transport route was selected from the manufacturer to the Process Plant, e.g.;

- Cyanide transport (in solid state) will exclusively involve special SLS (Solid to Liquid System) containers, 16 tons each. The ISO compliant container will be protected by a framework with legs, which allows separation from the transport trailer for temporary storage. The wall is 5.17 mm thick, which, together with the protective framework, provides additional protection to the load in case of accident. This system is considered BAT and is currently one of the safest cyanide transportation options.

It is being mentioned the fact that the study develops the occurrence possibility of these scenarios (pages 166-171, Conclusions).

As regards the cyanides management, there is a baseline study named "Roşia Montană Golden Project, Cyanides Management Plan" prepared in compliance with the "International Management Code for the Manufacture, Transport and Use of Cyanide in the Production of Gold (International Cyanide management Institute) May 2002". S.C. Roşia Montană Gold Corporation is signatory to this code.

Bibliographical references for Chapter 7 "Risk Cases" are listed at page 173-176.

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RMGC's closure estimates, which were developed by a team of independent experts with international experience and will be reviewed by third party experts, are based on the assumption that the project can be completed according to the plan, without interruptions, bankruptcy or the like. They are engineering calculations and estimates based on the current commitments of the closure plan and are summarized in the EIA's Mine Closure and Rehabilitation Management Plan (Plan J in the EIA). Annex 1 of Plan J will be updated using a more detailed approach looking at every individual year and calculating the amount of surety, which must be set aside year by year to rehabilitate the mine before RMGC is released from all its legal obligations. Most importantly, the current estimates assume the application of international best practice, best available technology (BAT) and compliance with all Romanian and European Union laws and regulations.

Closure and rehabilitation at Roşia Montană involves the following measures:

- Covering and vegetating the waste dumps as far as they are not backfilled into the open pits;
- Backfilling the open pits, except Cetate pit, which will be flooded to form a lake;
- Covering and vegetating the tailings pond and its dam areas;
- Dismantling of disused production facilities and revegetation of the cleaned-up areas;
- Water treatment by semi-passive systems (with conventional treatment systems as backup) until all effluents have reached the discharge standards and need no further treatment;
- Maintenance of the vegetation, erosion control, and monitoring of the entire site until it has been demonstrated by RMGC that all remediation targets have been sustainably reached.

While the aspects of closure and rehabilitation are many, we are confident in our cost estimates because the largest expense—that incurred by the earthmoving operation required to reshape the landscape—can be estimated with confidence. Using the project design, we can measure the size of the areas that must be reshaped and resurfaced. Similarly, there is a body of scientific studies and experiments that enable scientists to determine the depth of soil cover for successful re-vegetation. By multiplying the size of the areas by the necessary depth of the topsoil by the unit rate (also derived from studying similar earthmoving operations at similar sites), we can estimate the potential costs of this major facet of the rehabilitation operation. The earthmoving operation, which will total approximately US \$65 million, makes up 87% of closure and rehabilitation costs.

Also, the necessity of additional technological measures to stabilize and reshape the tailings surface will be discussed in the update of the Economical Financial Guarantee (EFG) estimate, which leads to an increase the provisions for tailings rehabilitation, especially if the TMF is closed prematurely and no optimized tailings disposal regime is applied. The exact figures depend on the details of the TMF closure strategy which can be finally determined only during production.

We believe that—far from being too low—our cost estimates are evidence of our high level of commitment to closure and rehabilitation. Just as a comparison, the world’s largest gold producer has set aside US \$683 million (as of December 31, 2006) for the rehabilitation of 27 operations, which equates to US \$25 million on average per mine. The RMGC closure cost estimates, recently revised upward from the US \$73 million reported in the EIA based on additional information, currently total US \$76 million.

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According to Law 5/2000, regarding the approval of the Territory Arrangement Plan – 3rd Section – protected areas (“Law 5/2000”) (article 5, paragraphs 2-3), local public authorities, with the support of the competent central public authorities, had the obligation to establish the boundaries of the protection areas for the cultural heritage elements stipulated in Annex III to the above-mentioned law. This measure should have been taken within 12 months from the effective date of Law 5/2000, based on specialized studies. For this purpose, the local public authorities had to prepare the town planning documentation and its related regulations, developed and approved according to the law. This documentation must comprise the necessary protection and conservation measures for the national cultural heritage elements located in this area.

Concurrently, Law 350/2001 on the territory arrangement and urbanism stipulates the right of legal or natural persons interested in arranging the territory, to initiate the development of urbanism plans.

In accordance with these legal provisions, in 2001, RMGC initiated the preparation of these specific town-planning documentations - the General Urbanism Plan and the Zonal Urbanism Plan. These plans have been developed by Romanian certified companies and followed the legal approval procedure. The permit for the establishment of the Roşia Montană Historical Centre Protected Area was issued by the Ministry of Culture and Religious Affairs in 2002 (permits no. 61/14.02.2002 and no. 178/20.06.2002) as part of the procedure for the approval of the town planning documentation. Based on these permits, the Ministry of Culture and Religious Affairs requested the company to develop a Zonal Urbanism Plan for the Historical Centre of Roşia Montană. Out of the 41 historical buildings in Roşia Montană, thirty-five (35) are located inside the protected area of the Roşia Montană Historical Centre.

As for the heritage elements located in the future industrial development area (6 historical buildings), these are discussed in the Industrial Zonal Urbanism Plan prepared by SC Proiect Alba SA. The regulations

included in this document will contain measures for the protection of these monuments.

In conclusion, the town planning studies and the specialized studies conducted for the purpose of establishing the boundaries of the protection areas within the future mining operations perimeter are currently pending approval, in accordance with the legal provisions, by the competent institutions and committees. Please note that none of the historical houses located in the perimeter of the proposed project will be affected; on the contrary, all the 41 historic buildings will be included in a complex restoration and rehabilitation program (see the Management Plan). This program is mandatory, regardless of the implementation of the mining project, if we want to prevent these buildings from collapsing because of their advanced degradation.

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Your assertion regarding the failure to obtain an applicable urbanism certificate at the start up of the public debates and of the evaluation of the quality of the report to the environmental impact assessment, is not correct.

Thus, by the time when the public debate stage started up there was an applicable urbanism certificate and namely the urbanism certificate no. 78/26.04.2006 issued by Alba County Council. This certificate was obtained prior to the evaluation stage of the quality of the report to the environmental impact assessment which started up once the EIA was submitted to the Ministry of Environment and Water Management on the 15th May 2006.

For better understanding the applicable legal provisions and the facts developed within the mining project of Roşia Montană zone we would like to make several comments:

- The procedure for issuing the environmental permit for Roşia Montană project started up on the 14th December 2004 by submitting the technical memorandum and the urbanism certificate no.68/26.August 2004 (certificate applicable by that time). S.C. Roşia Montană Gold Corporation S.A. (RMGC) applied for and obtained a new urbanism certificate no.78/26.04.2006 issued by Alba County Council for the entire Roşia Montană Project applicable on the date of the EIA Report submission (15th May 2006) and prior to the public debate start up (June 2006);
- The Section 1 of the urbanism certificate no.78 of 26th 04.2006 entitled Work construction, position 10 – “Processing plant and associated constructions “ – including the tailing management facility which existence is compulsory for the processing plant running. The Tailing management facility is also specified on the layout plans which are integral part of the urbanism certificate and they were sealed by Alba County Council so that they cannot be modified;
- The Urbanism Certificate is an informative document and its goal is only to inform the applicant about the legal, economic and technical regime of the existing lands and buildings and to establish the urbanism requirements and the approvals necessary to obtain the construction permit (including the environmental permit) as per art.6 of Law 50/1991 referring to the completion of construction works, republished and art 27 paragraph 2 of the Norms for the application of Law 50/1991 – Official Journal 825 bis/13.09.2005).

As it is an informative document, it does not limit the number of certificates an applicant may obtain for the same land plot (art. 30 of Law no. 350/2001 regarding the territorial planning and urbanism).

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Introduced as part of the Environmental Impact Assessment Report Study (EIA), the Roşia Montană Foundation is shifting in focus. The Community Sustainable Development Plan activities initially conceived as coming under the Foundation umbrella (business oriented activities: business incubator, business advisory center, micro-finance facility, as well as social oriented activities: education and training center) have been advanced independently, via partnerships and with community participation in decision-making – a preferable way to advance social and economic development programs.

Going forward, the Foundation will take shape around preservation, patrimony and cultural heritage issues, with its final form determined in consultation with the community.

In terms of the philosophy that guides the company's Sustainable Development efforts, the Roşia

Montană Gold Corporation (RMGC) sees itself not as principal provider, but as a partner. Community involvement is considered the starting point; over time, as the community builds the capacity to maintain programs in its own right, the company will turn over control of currently-established programs to the community and its institutions.

For more information, please see Roșia Montană Sustainable Development and the Roșia Montană Project – annex 4.

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We underline the fact that your statement is false. The General Urbanism Plan for the Roșia Montană commune, endorsed in 2002 allows the development of Roșia Montană project, as it has been presented during the public consultations.

Concurrently, pursuant to the provisions of art. 41, paragraph 2, from the Mining Law no.85/2003, the authorities from the local administration have the liability to adjust and/or update the territory arrangement plans and the general urbanism plans, in order to allow the development of all operations necessary for the development of mining activities.

RMGC has also initiated the preparation of two zonal urbanism plans: Zonal Urbanism Plan Modification – Roșia Montană Industrial Area and Zonal Urbanism Plan – Roșia Montană Historical Area. The first urbanism plan is required by the urbanism certificate no.78/26.04.2006, which updates the Zonal Urbanism Plan for the Industrial Area approved in 2002. As far as the historical area is concerned, its Zonal Urbanism Plan is required by the General Urbanism Plan approved also in 2002. Both urbanism plans are pending approval and have been subject to public consultations.

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An engineered liner is included in the design of the Tailings Management Facility (TMF) basin. Specifically, the Roșia 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; and
- 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 Roșia 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 (1×10^{-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 (1×10^{-6} cm/sec) cut off wall within the foundation of the starter dam to control seepage;
- A low permeability (1×10^{-6} 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.

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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.

*

Information regarding our Environmental Financial Guarantee (“EFG”) is fully discussed in the section of the Environmental Impact Assessment titled “Environmental and Social Management and System Plans” (Annex 1 of the subchapter titled “Mine Rehabilitation and Closure Management Plan”). The EFG is updated annually and will always reflect the costs associated with reclamation. These funds will be held in protected accounts at the Romanian state disposal.

Roşia Montană Gold Corporation (“RMGC”) has invested significant time, energy, and resources assessing the viability of a mining project in the valley of Roşia Montană. This assessment has led RMGC to conclude that Roşia Montană presents an attractive long-term development opportunity – an opinion confirmed by a variety of lending institutions, who have completed detailed reviews of the project’s design and profitability. We have every confidence that we will see the project through to the end of its projected 16-year lifespan, regardless of any fluctuations in the market price of gold.

In Romania, the creation of an EFG is required to ensure adequate funds are available from the mine operator for environmental cleanup. The EFG is governed by the Mining Law (no. 85/2003) and the National Agency for Mineral Resources instructions and Mining Law Enforcement Norms (no. 1208/2003).

Two directives issued by the European Union also impact the EFG: the Mine Waste Directive (“MWD”) and the Environmental Liability Directive (“ELD”).

The Mine Waste Directive aims to ensure that coverage is available for 1) all the obligations connected to the permit granted for the disposal of waste material resulting from mining activities and 2) all of the costs related to the rehabilitation of the land affected by a waste facility. The Environmental Liability Directive regulates the remedies, and measures to be taken by the environmental authorities, in the event of environmental damage created by mining operations, with the goal of ensuring adequate financial resources are available from the operators for environmental cleanup efforts. While these directives have yet to be transposed by the Romanian Government, the deadlines for implementing their enforcement mechanisms are 30 April 2007 (ELD) and 1 May 2008 (MWD) – thus before operations are scheduled to begin at Roşia Montană.

RMGC has already begun the process of complying with these directives, and once their implementation instruments are enacted by the Romanian Government, we will be in full compliance.

Each EFG will follow detailed guidelines generated by the World Bank and the International Council on Mining and Metals.

The current projected closure cost for Roşia Montană is US \$76 million, which is based on the mine operating for its full 16-year lifespan. The annual updates will be completed by independent experts, carried out in consultation with the NAMR, as the Governmental authority competent in mining activities field. These updates will ensure that in the unlikely event of early closure of the project, at any point in time, each EFG will always reflect the costs associated with reclamation. (These annual updates will result in an estimate that exceeds our current US \$76 million costs of closure, because some reclamation activity is incorporated into the routine operations of the mine.)

A number of different financial instruments are available to ensure that RMGC is capable of covering all of the expected closure costs. These instruments, which will be held in protected accounts at the Romanian state disposal, include:

- Cash deposit;
- Trust funds;
- Letter of credit;
- Surety bonds;
- Insurance policy.

Under the terms of this guarantee, the Romanian government will have no financial liability in connection with the rehabilitation of the Roşia Montană project.

*

The Security Report has been made available for public access by being posted at the following Internet address http://www.mmediu.ro/dep_mediu/rosia_montana_securitate.htm as well as through the printed version which could have been found at several information locations established for public hearings.

*

The Report on the Environmental impact assessment study (EIA) considered all alternative developments, including the option of not proceeding with any project – an option that would generate no investment, allowing the existing pollution problems and socio-economic decline to continue (Chapter 5 – *Assessment of Alternatives*).

The report also considered alternative developments – including agriculture, grazing, meat processing, tourism, forestry and forest products, cottage industries, and flora/fauna gathering for pharmaceutical purposes – and concluded that these activities could not provide the economic, cultural and environmental benefits brought by the Roşia Montană Project (RMP).

Chapter 5 also examines alternative locations for key facilities as well as alternative technologies for mining, processing and waste management, in line with best practice and as compared against published EU best available techniques (BAT) documentation.

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The impact on protected flora and fauna will exist only locally, but this impact will not lead to the loss of any specie. The Project has been designed even from the beginning to fully comply with the requirements and norms imposed by Romanian and European environmental legislation.

The company believes the fact that the project impact on environment remains significant, especially because covers previous impacts. But, the investments required to ecologically restore/rehabilitate Roşia Montană area in order to address current complex environmental issues, are only achievable following the implementation of some economic projects that will generate and warrant implementation of some direct and responsible actions as a component of base principles of sustainable development concepts. Clean processes and technologies may be developed only in the presence of a solid economic environment fully compliant with the environment that will also resolve previous impacts of anthropic activities.

The base documents of the Project are in fact an unbiased reason of its implementation, considering the highly complex environmental commitment within Roşia Montană area.

Some of the Roşia Montană species that are under a certain protection status stand for an insignificant percentage of the scale of populations estimated at national level. The characterization of species from their habitat point of view exists in the species tables presented in the Biodiversity Chapter of the EIA Report and its annexes, although this is not a requirement imposed by the Habitats Directive. Due to their large volume of information, the annexes of chapter 4.6 Biodiversity can be found in the electronic version of the EIA disclosed by the company both in Romanian and English through approx. 6,000 DVD/CD copies, being accessible on the company website, and on the websites of Ministry of Environment and Water Management, local and regional environmental protection agencies of Alba, Sibiu, Cluj, etc.

From practical point of view, the low value of conservation of the impact area is also indirectly emphasized by the fact that there is no proposal to designate the area a SPA (aviafaunistic special protected area) and by the denial as unfounded of the proposal to designate the area as a pSCI area (sites of community importance).

Taking all these into account, we believe that the proposed Project is compliant with the provisions of EU Directive no. 92/43 Habitats[1], and EU Directive no. 79/409 Birds[2] respectively, especially because within Biodiversity Management Plan, Plan H, several active and responsible measures are provided to

reconstruct/rehabilitate several natural habitats, pursuant to the provisions of the same documents [3].

References:

[1] art.3, 2nd paragraph, Each Member State shall contribute to the creation of Natura 2000 (network) in proportion to the representation within its territory of the natural habitat types and the habitats of species referred to in paragraph 1. To that effect each Member State shall designate, in accordance with Article 4, sites as special areas of conservation taking account of the objectives set out in paragraph 1.

art.4, 1st paragraph. On the basis of the criteria set out in Annex III (Stage 1) and relevant scientific information, each Member State shall propose a list of sites indicating which natural habitat types in Annex I and which species in Annex II that are native to its territory the sites host. For animal species ranging over wide areas these sites shall correspond to the places within the natural range of such species which present the physical or biological factors essential to their life and reproduction. For aquatic species which range over wide areas, such sites will be proposed only where there is a clearly identifiable area representing the physical and biological factors essential to their life and reproduction. Where appropriate, Member States shall propose adaptation of the list in the light of the results of the surveillance referred to in Article 11. [...]

2nd paragraph.[...] Member States whose sites hosting one or more priority natural habitat types and priority species represent more than 5 % of their national territory may, in agreement with the Commission, request that the criteria listed in Annex III (Stage 2) be applied more flexibly in selecting all the sites of Community importance in their territory.[...]

Art. 6, 4th paragraph. If, in spite of a negative assessment of the implications for the site and in the absence of alternative solutions, a plan or project must nevertheless be carried out for imperative reasons of overriding public interest, including those of a social or economic nature, the Member State shall take all compensatory measures necessary to ensure that the overall coherence of Natura 2000 is protected. It shall inform the Commission of the compensatory measures adopted.

Art. 16. Provided that there is no satisfactory alternative and the derogation is not detrimental to the maintenance of the populations of the species concerned at a favourable conservation status in their natural range, Member States may derogate from the provisions of Articles 12, 13, 14 and 15 (a) and (b):[...]

- in the interests of public health and public safety, or for other imperative reasons of overriding public interest, including those of a social or economic nature and beneficial consequences of primary importance for the environment;

[2] Art.4, 1st paragraph. The species mentioned in annex 1 shall be the subject of special conservation measures concerning their habitat in order to ensure their survival and reproduction in their area of distribution. [...]

Trends and variations in population levels shall be taken into account as a background for evaluations. Member states shall classify in particular the most suitable territories in number and size as special protection areas for the conservation of these species, taking into account their protection requirements in the geographical sea and land area where this directive applies.

[3] Directive 92/43 Habitats, art. 2, 2nd paragraph; Directive 79/409 Birds, art. 3, 2nd paragraph, letter c.

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This statement is ungrounded, because the environmental impact assessment (EIA) process has included preliminary cumulative estimates for stationary motorized equipment and linear (vehicular) sources were prepared in order to provide an initial understanding of the potential cumulative noise and vibration impacts from background and Roşia Montană Project sources, and to guide future monitoring and measurement activities as well as the selection of appropriate Best Management Practices/Best Available Techniques for further mitigation of the potential noise and vibration impacts from Project activities. These preliminary estimates apply to major construction activities, as well as the operation and decommissioning/closure of the mine and process plant. They are documented as data tables and isopleth

maps for major noise-generating activities in selected, representative Project years; see **Tables 4.3.8** through **4.3.16** and **Exhibits 4.3.1** through **4.3.9**. All these details related to the applied assessment methodology, the input data of the dispersion model, the modeling results and the measures established for the prevention/mitigation/elimination of the potential impact for all project stages (construction, operation, closure) are included in Chapter 4, Section 4.3 Noise and Vibrations of the EIA Report.

Project Years 0, 9, 10, 12, 14, and 19 were selected for modeling because they are considered to be representative of the most significant levels of noise-generating activity. They are also the same years used for air impact modeling purposes in Section 4.2, as air and noise impacts share many of the same sources or are otherwise closely correlated. In order to more accurately reflect potential receptor impacts, all of these exhibits integrate the background traffic estimates discussed in Section 4.3.6.1.

The Project site plan and process plant area and facility drawings were used to establish the position of the noise sources and other relevant physical characteristics of the site. Receptor locations were established using background reports and project engineering and environmental documentation provided by RMGC. With this information, the source locations and receptor locations were translated into input (x, y, and z) co-ordinates for the noise-modeling program.

Tables 4.3.8 through 4.3.16 and **Exhibits 4.3.1 through 4.3.9** present the average maximum noise values likely to be experienced by the receptor community over all Project phases after incorporation of a variety of initial mitigation measures designed specifically to reduce the impacts associated with mobile and stationary machinery sources. The influence of non-mining related background (primarily traffic) noise is also included.

To evaluate the sound levels associated with haul trucks and other mobile sources crossing the site carrying excavated ore, waste rock, and soil, a noise analysis program based on the (U.S.) Federal Highway Administration's (FHWA) standard RD-77-108 [1] model was used to calculate reference noise emissions values for heavy trucks along the project roadways. The FHWA model predicts hourly L_{eq} values for free-flowing traffic conditions and is generally considered to be accurate within 1.5 decibels (dB).

The model is based on the standardized noise emission factors for different types and weights of vehicles (e.g., automobiles, medium trucks, and heavy trucks), with consideration given to vehicle volume, speed, roadway configuration, distance to the receiver, and the acoustical characteristics of the site. The emission levels of all three vehicle types increase as a function of the logarithm of their speed.

To evaluate the sound sources from the proposed mine processing facility and the semi-stationary material handling equipment (at the ore extraction, waste rock and soil stockpiling areas), a proprietary computerized noise prediction program was used by AAC to simulate and model the future equipment noise emissions throughout the area. The modeling program uses industry-accepted propagation algorithms based on the following American National Standards Institute (ANSI) and International Organization for Standardization (ISO) standards:

- *ANSI S1.26-1995 (R2004), Method for the Calculation of the Absorption of Sound by the Atmosphere;*
- *ISO 9613-1:1993, Acoustics -- Attenuation of sound during propagation outdoors-- Part 1: Calculation of the absorption of sound by the atmosphere;*
- *ISO 9613-2:1996, Acoustics -- Attenuation of sound during propagation outdoors -- Part 2: General method of calculation;*
- *ISO 3891:1978, Acoustics -- Procedure for describing aircraft noise heard on the ground.*

The calculations account for classical sound wave divergence (i.e., spherical spreading loss with adjustments for source directivity from point sources) plus attenuation factors due to air absorption, minimal ground effects, and barriers/shielding.

This model has been validated by AAC over a number of years via noise measurements at several operating industrial sites that had been previously modeled during the engineering design phases. The comparison of modeled predictions versus actual measurements has consistently shown close agreement; typically in the range of 1 to 3 dB (A).

References:

[1] FHWA Highway Traffic Noise Prediction Model; see Federal Highway Administration Report Number FHWA-RD-77-108, USA, Washington, D.C., 1978.

A detailed presentation of blasting technology can be found in the annex 7.1 - Proposed blasting technology for the operational phase of Roşia Montană Project.

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The partnership between Gabriel Resources and Regia Autonomă a Cuprului Deva (currently, CNCAF Minvest SA) has been established based on Law no. 15/1990 on the reorganization of the state owned companies as autonomous directions and trade companies, published in the Official Gazette, Section I, no. 98/08.08.1990, as subsequently amended and supplemented. Art. 35 of this law provides the possibility of the regies autonomous to enter into partnerships with legal third parties, Romanian or foreign, for the purpose of setting up new trading companies.

Roşia Montană Gold Corporation SA was set up in 1997, according to the legal provisions in force as at that time, the setting up being made by observing all the conditions imposed by Company Law no. 31/1990 and Trade Register Law no. 26/1990, in regard of the setting up of the joint stock companies with mixed capital.

We underline that the Articles of Associations of Roşia Montană Gold Corporation SA, representing the result of the parties agreement in regard of the terms and conditions under which the partnership between the Romanian state and investor takes place represents a public document, being included in the category of documents which, as per Law no. 26/1990 on the Trade Register, are published in the Romanian Official Gazette and for which the Trade Register is obliged to issue, on the expense of the persons submitting a request, certified copies.

As for the agreement concerning the setting up of the mixed company together with Gabriel Resources Ltd., this has been expressed by the Ministry of Industry and Trade, the conditions imposed by the setting up of the mixed company being the following: (i) ensuring of the jobs at the level existing upon the conclusion of the agreement concerning the setting up of the mixed company; (ii) the expenses incurred by the fulfillment of the exploration stage should be fully supported by Gabriel; (iii) the obtaining of the approval from the ANRM by the Copper Autonomous Direction Deva and (iv) the observance of all legal provisions in force concerning the setting up of the mixed companies with foreign partners. These conditions have been fully complied with as at the setting up of the company and during the development of its activity.

We also specify that the establishing of the shareholders' quotas to the benefits and losses of Roşia Montană Gold Corporation SA has been made by considering their contribution quota to the company's share capital. The current percentage of 80% for Gabriel Resources Ltd. and of 19.31% for CNCAF Minvest SA resulted from the initial contribution and the subsequent contributions of the shareholders to the company's share capital, in consideration also of Gabriel Resources Ltd. advancing all expenses and costs related to the development-exploitation and permitting of the Roşia Montană Mining Project.

The provisions of the Articles of Associations of Roşia Montană Gold Corporation SA on the necessary majority and quorum conditions for the decision-making process within the General Shareholders Meeting and the quotas to the benefits and losses of the company are taken from Law no. 31/1990, and no derogation exists in regard of this aspect.

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This claim is not true; the Urbanism Plan has been prepared with public consultation.

Roşia Montană Gold Corporation SA (RMGC) has requested and obtained from Alba County Council the Urbanism Certificate no. 78 of 26.04.2006, for the entire Roşia Montană mining project, including the tailings management facility. The Urbanism Certificate also stipulated the preparation of a Zonal Urbanism Plan, to reflect all changes made to the Roşia Montană Project, following the public consultations and debates organized in relation to this project, and the consultations with the permitting authorities. This plan, entitled "Modification of the Zonal Urbanism Plan, Roşia Montană Industrial Area",

was prepared and subjected to public debate in June 2006 in accordance with the provisions of Order no.176/N/2000 issued by the Ministry of Public Works and Territory Development for the approval of the technical regulations “Guidelines regarding the methodology applied for the preparation and framework content of the Zonal Urbanism Plan” and, at present, it is pending approval.

Concerning the Roșia Montană General Urbanism Plan approved in 2002, such plan was prepared in parallel with the Zonal Urbanism Plan of 2002, all the provisions of the General Urbanism Plan being also included in the Zonal Urbanism Plan. Also, the approval procedure related to the two urbanism plans was carried out in parallel.

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Preventive archaeological researches within the Roșia Montană mining project area have been undertaken based on specific techniques, specifically trial trenches in all accessible areas that are suitable for human habitation, taking into account the bibliographical information and the observations recorded during the archaeological survey campaigns, the geophysical studies and the analyses of the photogrammetric flights. In addition, surface investigations were undertaken, where appropriate.

The archaeological researches at Roșia Montană covered a large surface and focused on the areas known to have archaeological potential. THEREFORE, ALL AREAS THAT HAVE BEEN ARCHAEOLOGICALLY DISCHARGED HAD BEEN PREVIOUSLY INVESTIGATED. All research programs, beginning with the 2004 campaign, have been undertaken in full compliance with the current legal requirements, i.e. Ministerial Order no. 2392 of 6 September 2004 on the establishment of the Archaeological Standards and Procedures by the Ministry of Culture and Religious Affairs.

The proposed gold mining project at Roșia Montană has raised a series of issues related to the rescue of the historical-archaeological heritage within the area, as well as issues related to its scientific development and also the enhancement of heritage within a museum. Given the complex difficulties encountered in this respect, the Ministry of Culture and Religious Affairs decided to initiate the “Alburnus Maior” National Research Program.

The company’s role was to provide the necessary financial resources for the assessment, research and enhancement of the archaeological remains, in full compliance with the Romanian current legislation. The development of the research and of the archaeological discharge works has been conducted through specific means and methodologies that have been adjusted to the realities of every site researched, in our case, Roșia Montană. They consisted in:

- Archives studies;
- Archaeological surveys; trial trenches;
- aerial reconnaissance/survey and aerial photo interpretation ; high resolution satellite images;
- mining archaeology studies; underground topography and 3D modeling;
- geophysical surveys;
- extensive archaeological investigations in the areas with an identified archaeological potential- this implied carrying out archaeological excavations;
- Interdisciplinary studies- sedimentology, archaeo-zoology, comparative palynology, archaeo-metallurgy, geology, mineralogy;
- Radiocarbon dating and dendrochronology;
- This research and its results were included in an integrated database;
- traditional and digital archaeological topography and development of the GIS project; generate a photo archive- both traditional and digital;
- restoration of artifacts;
- an inventory and a digital catalogue of the artifacts;
- studies conducted by specialists in order to enhance the research results - publication of monographs/scientific books and journals, exhibitions, websites, etc.

All the preventive archaeological researches undertaken at Roșia Montană since 2000 have been carried out as part of a complex research program; permits for preventive archaeological excavations being issued in compliance with the current legislation. These archaeological investigations have been undertaken by representatives of 21 specialized institutions from Romania and 3 others from abroad, under the scientific

coordination of the Romanian National Museum of History. All archaeological researches have been conducted in full compliance with the existing legislation. The investigations undertaken during each archaeological research campaign have been approved by the Ministry of Culture and Religious Affairs based on the Annual Archaeological Research Plan approved by the National Commission of Archaeology.

Under the current legislation (Ministerial Order no. 2392 of 6 September 2004 on the establishment of the Archaeological Standards and Procedures by the Ministry of Culture and Religious Affairs) the archaeologists who have conducted the research may ask that an archaeological discharge certificate be granted. Based on a complex research program, the archaeologists prepare comprehensive documentation with regard to the researched area. Upon consideration of the submitted documentation, the National Commission of Archaeology makes a decision as to whether to recommend or not the granting of the archaeological discharge certificate. In the case of the research conducted in the period 2001-2006, the archaeological discharge certificate was issued directly by the Ministry of Culture and Religious Affairs or by its local agencies.

Preventive archaeological researches at Roşia Montană have allowed the research of five Roman cremation necropolis (Tău Corna, Hop-Găuri, Țarina, Jig - Piciorag and Pârâul Porcului – Tăul Secuilor), two funerary areas (Carpeni, Nanului Valley), sacred areas (Hăbad, Nanului Valley), habitation areas (Hăbad, Carpeni, Tăul Țapului, Hop), the most significant being the Roman structures on the Carpeni Hill and the circular funerary monument at Tău Găuri. In addition, for the first time in Romania, surface investigations have been paralleled by underground investigations of Cetate, Cârnic, Jig and Orlea massifs, with important discoveries in the Piatra Corbului, area, Cătălina-Monulești gallery and the Păru Carpeni mining sector.

The research consisted of aerial photo interpretation, archaeological magnetometric studies, electrical resistivity, palynology, sedimentology, geology studies, radiocarbon and dendrochronology dating. For a better management of the research units and of the archaeological findings, data bases were used, including text and photographs-among which 4 satellite images (an archive satellite image type SPOT Panchromatic (10m) from 1997; 2 satellite images LANDSAT 7 MS (30 m), dating from 2000 and 2003; a satellite image with priority programming SPOT 5 SuperMode color (2,5 m resolution-19 July 2004); all data have been included in a comprehensive GIS program, a first in the Romanian archaeological research.

In the case of archaeological monuments that are located close to industrial facilities, plans have been redesigned to ensure that the archaeological remains in question will not be affected. Where appropriate, the archaeological monument was preserved in situ and restored, i.e. the circular funerary monument at Hop-Găuri (see The "Alburnus Maior" monograph series, volume II, Bucharest, 2004). Another example in this respect is the Carpeni Hill, designated an "archaeological " reserve, and the Piatra Corbului area. In 2004, after being thoroughly investigated, these areas have been included on the List of Historic Monuments. Add to this the areas where ancient mining remains will be preserved, such as the Cătălina Monulești gallery and the mining sector Păru Carpeni, as well as the protected area Roşia Montană Historic Center, including a number of heritage assets (35 historic monument houses).

We emphasise in this respect that the identified and researched structures have been published in preliminary form in the Archaeological Research Chronicle of Romania, after every archaeological research campaign, as well as in volume 1 of the Alburnus Maior monographic series. We mention here the areas where Roman habitation structures have been identified and researched, as well as the references to be consulted for further information: Hop-Găuri, Carpeni, Tăul Țapului (CCA 2001 (2002), p. 254-257, no. 182; 261-262, nr. 185; 264-265, no. 188; 265-266, no. 189. Alburnus Maior I, 2003, p. 45-80; 81-122; 123-148; CCA 2001 (2002), 257-261; CCA 2003 (2004) ,280-283; Alburnus Maior I, 2003, p. 387-431, 433-446, 447-467).

For further details related to the applicable legal framework, the responsibilities of the Project titleholder, or for a detailed description of the preventive archaeological researches undertaken to date and of the Cultural Heritage Management Plans, please see Annex called "Information on the Cultural heritage of Roşia and Related Management Aspects". In addition, the annex includes supplementary information with regard to the result of the researches undertaken as part of the "Alburnus Maior" National Research Program between 2001 and 2006.

In conclusion, the area mentioned by the questioner has been researched in accordance with the Romanian legal requirements, as well as with European standards and practices in the field.

Note that the type of research undertaken at Roşia Montană, known as preventive/rescue archaeological research, as well as other related heritage studies, are done everywhere in the world in close connection with the economic development of certain areas. Both the costs for the research and for the enhancement and maintenance of the preserved areas are provided by investors, in a public-private partnership set up in order to protect the cultural heritage, as per the provisions of the European Convention on the Protection of the Archaeological Heritage (Malta-1992) [1].

References:

[1]The text of the Convention is available at the following address:
<http://conventions.coe.int/Treaty/Commun/QueVoulezVous.asp?NT=143&CM=8&DF=7/6/2006&CL=ENG>

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In 2000, in the context of the proposal of a new mining project in the Roşia Montană area, the Ministry of Culture and Religious Affairs approved a series of studies to be conducted in order to research the archaeological and architectural heritage of the area. And at the end of that year, the Design Centre for National Cultural Heritage (now the National Institute for Historical Monuments) presented the preliminary results of these researches to the National Commission for Historical Monuments and of the National Commission of Archaeology. Based on these results, in 2001, the Ministry of Culture and Religious Affairs initiated the “Alburnus Maior” National Research Program (the Order no. 2504 / 07.03.2001 of the Minister of Culture and Religious Affairs) in compliance with the Law 378/2001 (as subsequently amended by Law 462/2003 and by Law 258/2006 and Law 259/2006). Thus, since 2000, the Ministry of Culture and Religious Affairs – directly or through its subordinate institutions - has fulfilled its duties with regard to the management of the issues related to Roşia Montană’s heritage.

Thus, the preventive archaeological researches have been conducted by the representatives of 21 national institutions and 3 others from abroad under the scientific coordination of the National Museum of History of Romania. They have been carried out based on the annual approval of the National Commission of Archaeology of the Ministry of Culture and Religious Affairs. In accordance with the legislation in force, this research program is carried out with the financial support provided by RMGC (the company that plans to expand and continue to mine the gold-silver deposit in Roşia Montană). Thus, large-scale preventive investigations have been conducted or are underway in the RMP impact area. A proposal will be made based on the results thereof either for the archaeological discharge of some researched perimeters from the project perimeter or the preservation *in situ* of certain representative structures and monuments, in compliance with the legislation in force. In the case of the areas proposed for conservation and the ones for which the archaeological discharge measure was applied, the decision was made based on the surveys conducted by specialists and on the analysis of the National Commission of Archaeology. In the period 2000-2005, the mining project underwent a series of modifications designed to promote the implementation of the decision regarding the conservation of the local heritage. Examples of these include: extending the duration of the field investigations on several years (e.g. Ţarina, Pârâul Porcului, Orlea) and changing the location of some elements of infrastructure in order to allow the conservation of the archaeological remains found in the Carpeni, Tău Găuri and Pietra Corbului areas.

The architectural and town-planning surveys have been conducted, in accordance with the legislation in force, by companies certified by the Ministry of Culture and Religious Affairs, while the town-planning documentations drafted by these companies and the restoration and conservation works undertaken so far have been approved by the National Commission for Historical Monuments. Thus, the town-planning documentations have been approved and implemented in accordance with current legislation, and the company has agreed to these decisions and modified the mine development plans accordingly:

Extensive ethnographic research was conducted in the Roşia Montană-Abrud-Corna area in the period 2001-2004 coordinated by a team of specialists for the Romanian Village Museum „Dimitrie Gusti” (a National Museum directly under the coordination of the Ministry of Culture and Religious Affairs). Moreover, a broad series of oral history interviews was conducted in the period 2001-2002 by the Romanian Radio Broadcasting Company through the „Gheorghe Brătianu” Oral History Centre, Bucharest (SRR - CIO).

In compliance with the requirements of the Ministry of Environment and Waters Management and the Ministry of Culture and Religious Affairs, specific management plans have been drawn up for the management and conservation of the heritage remains from the Roşia Montană area, in the context of the implementation of the mining project. These plans have been included in the documentation prepared for the Report on the Environmental Impact Assessment Study. (see EIA Report, volume 32-33, Plan M- *Cultural Heritage Management Plan*, part I –*Management Plan for the Archaeological Heritage from Roşia Montană Area*; part II-*Management Plan for the Historical Monuments and Protected Zone from Roşia Montană*; part III- *Cultural Heritage Management Plan*).

These management plans comprise detailed presentations of the obligations and responsibilities regarding the protection and conservation of the heritage remains from the Roşia Montană area, which the company has assumed in the context of the implementation of the mining project, according to the decision of the central government. These heritage remains include: archaeological remains above and under the ground, historic buildings, protected areas, intangible heritage assets, cultural landscape items, etc. In this context, it should be noted that besides the works for the protection and preservation of the archaeological heritage, works are being carried out for the rehabilitation and conservation of the protected area Historical Centre Roşia Montană (comprising 35 historic buildings, and projects for the restoration of 11 of these buildings are currently being drafted), Tăul Mare, Tăul Brazi and Tăul Anghel as well as remains of the surface mining works from the Vaidoia area and the creation of a modern museum dedicated to the history of mining in the Apuseni Mountains area. This museum will be established in the coming years and it will include exhibitions of geology, archaeology, industrial and ethnographic heritage as well as an underground section organized around the Cătălina Monuleşti gallery.

Moreover, representatives of the Directorate for Culture, Religious Affairs and National Cultural Heritage of Alba County have visited Roşia Montană many times in order to collect information and to check the situation. The same administrative body was the intermediary for the specific stages of acquisitions of historic buildings made by RMGC. The Ministry of Culture and Religious Affairs expressed its pre-emption right regarding the acquisition of these buildings.

Note that apart from the obligations undertaken by RMGC as regards the protection and conservation of the archaeological remains and historical monuments, there are a whole series of obligations, which rest with the local public authorities from Roşia Montană and from Alba County and with the central public authorities, namely the Romanian Government.

These aspects are further detailed in the Cultural Heritage Management Plans included in the EIA Report (see EIA Report, volume 32, *Management Plan for the Archaeological Heritage from Roşia Montană Area*, pages 21-22, 47, 52-53, 66-67-Romanian version/ 22-24; 47; 55-56; 71-72 English version) and the EIA Report, volume 33- *Management Plan for the Historical Monuments and Protected Zone from Roşia Montană* pages 28-29, 48-50, 52-53, 64-65, page 98 – Annex 1- Romanian version/ 28-29; 47-50; 51-53; 65-66; 103- Annex 1- English version).

Item no.

3816

No. to identify
the
observations
received from
the public

No.
111121/
25.08.2006

Proposal

The questioner does not agree to the Roşia Montană project implementation formulating the following remarks and comments:

- The project will destroy the Roşia-Bucium-Certej-Brad-Sacaramb area;
- There is no liner proposed for the tailings pond;
- The Questioner disagrees with the proposed mine. It addresses observations and proposals as follows: The overall costs for mine closure are not realistic;
- No financial guarantees have been stipulated;
- An evaluation of the phenomenon "cyanide rain" is not presented;
- The Project poses a threat for protected flora and fauna;
- The utilization of hundreds of tones of explosives may have negative effects over atmosphere and earth crust.

Proposal to place Roşia Montană on the UNESCO World Heritage List.

See the enclosed copy of Contestation no. 3595.

We do not agree to your point of view and on the contrary believe that the Roşia Montană Project will serve as a catalyst for reviving the important mining sector, which is strategically important for the Romanian economy and an important part of rural development.

We do not express any opinion on the likelihood of mining operations being started at any of the places you mentioned.

At Roşia Montană, RMGC will engage in a strong program of environmental rehabilitation which will clean up the effects of pollution from past poor mining practices.

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Solution

An engineered liner is included in the design of the Tailings Management Facility (TMF) basin. 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; and
- 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 (1×10^{-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 (1×10^{-6} cm/sec) cut off wall within the foundation of the starter dam to control seepage;
- A low permeability (1×10^{-6} 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.

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RMGC's closure estimates, which were developed by a team of independent experts with international experience and will be reviewed by third party experts, are based on the assumption that the project can be completed according to the plan, without interruptions, bankruptcy or the like. They are engineering calculations and estimates based on the current commitments of the closure plan and are summarized in the EIA's Mine Closure and Rehabilitation Management Plan (Plan J in the EIA). Annex 1 of Plan J will be updated using a more detailed approach looking at every individual year and calculating the amount of surety, which must be set aside year by year to rehabilitate the mine before RMGC is released from all its legal obligations. Most importantly, the current estimates assume the application of international best practice, best available technology (BAT) and compliance with all Romanian and European Union laws and regulations.

Closure and rehabilitation at Roşia Montană involves the following measures:

- Covering and vegetating the waste dumps as far as they are not backfilled into the open pits;
- Backfilling the open pits, except Cetate pit, which will be flooded to form a lake;
- Covering and vegetating the tailings pond and its dam areas;
- Dismantling of disused production facilities and revegetation of the cleaned-up areas;
- Water treatment by semi-passive systems (with conventional treatment systems as backup) until all effluents have reached the discharge standards and need no further treatment;
- Maintenance of the vegetation, erosion control, and monitoring of the entire site until it has been demonstrated by RMGC that all remediation targets have been sustainably reached.

While the aspects of closure and rehabilitation are many, we are confident in our cost estimates because the largest expense—that incurred by the earthmoving operation required to reshape the landscape—can be estimated with confidence. Using the project design, we can measure the size of the areas that must be reshaped and resurfaced. Similarly, there is a body of scientific studies and experiments that enable scientists to determine the depth of soil cover for successful revegetation. By multiplying the size of the areas by the necessary depth of the topsoil by the unit rate (also derived from studying similar earthmoving operations at similar sites), we can estimate the potential costs of this major facet of the rehabilitation operation. The earthmoving operation, which will total approximately US \$65 million, makes up 87% of closure and rehabilitation costs.

Also, the necessity of additional technological measures to stabilize and reshape the tailings surface will be discussed in the update of the Economical Financial Guarantee (EFG) estimate, which leads to an increase the provisions for tailings rehabilitation, especially if the TMF is closed prematurely and no optimized tailings disposal regime is applied. The exact figures depend on the details of the TMF closure strategy which can be finally determined only during production.

We believe that—far from being not realistic—our cost estimates are evidence of our high level of commitment to closure and rehabilitation. Just as a comparison, the world’s largest gold producer has set aside US \$683 million (as of December 31, 2006) for the rehabilitation of 27 operations, which equates to US \$25 million on average per mine. The RMGC closure cost estimates, recently revised upward from the US \$73 million reported in the EIA based on additional information, currently total US \$76 million.

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Information regarding our Environmental Financial Guarantee (“EFG”) is fully discussed in the section of the Environmental Impact Assessment titled “Environmental and Social Management and System Plans” (Annex 1 of the subchapter titled “Mine Rehabilitation and Closure Management Plan”). The EFG is updated annually and will always reflect the costs associated with reclamation. These funds will be held in protected accounts at the Romanian state disposal.

Roşia Montană Gold Corporation (“RMGC”) has invested significant time, energy, and resources assessing the viability of a mining project in the valley of Roşia Montană. This assessment has led RMGC to conclude that Roşia Montană presents an attractive long-term development opportunity – an opinion confirmed by a variety of lending institutions, who have completed detailed reviews of the project’s design and profitability. We have every confidence that we will see the project through to the end of its projected 16-year lifespan, regardless of any fluctuations in the market price of gold.

In Romania, the creation of an EFG is required to ensure adequate funds are available from the mine operator for environmental cleanup. The EFG is governed by the Mining Law (no. 85/2003) and the National Agency for Mineral Resources instructions and Mining Law Enforcement Norms (no. 1208/2003).

Two directives issued by the European Union also impact the EFG: the Mine Waste Directive (“MWD”) and the Environmental Liability Directive (“ELD”).

The Mine Waste Directive aims to ensure that coverage is available for 1) all the obligations connected to the permit granted for the disposal of waste material resulting from mining activities and 2) all of the costs related to the rehabilitation of the land affected by a waste facility. The Environmental Liability Directive regulates the remedies, and measures to be taken by the environmental authorities, in the event of environmental damage created by mining operations, with the goal of ensuring adequate financial resources are available from the operators for environmental cleanup efforts. While these directives have yet to be transposed by the Romanian Government, the deadlines for implementing their enforcement mechanisms are 30 April 2007 (ELD) and 1 May 2008 (MWD) – thus before operations are scheduled to begin at Roşia Montană.

RMGC has already begun the process of complying with these directives, and once their implementation instruments are enacted by the Romanian Government, we will be in full compliance.

Each EFG will follow detailed guidelines generated by the World Bank and the International Council on Mining and Metals.

The current projected closure cost for Roşia Montană is US \$76 million, which is based on the mine operating for its full 16-year lifespan. The annual updates will be completed by independent experts, carried out in consultation with the NAMR, as the Governmental authority competent in mining activities field. These updates will ensure that in the unlikely event of early closure of the project, at any point in time, each EFG will always reflect the costs associated with reclamation. (These annual updates will result in an estimate that exceeds our current US \$76 million costs of closure, because some reclamation activity is incorporated into the routine operations of the mine.)

A number of different financial instruments are available to ensure that RMGC is capable of covering all of the expected closure costs. These instruments, which will be held in protected accounts at the Romanian state disposal, include:

- Cash deposit;
- Trust funds;

- Letter of credit;
- Surety bonds;
- Insurance policy.

Under the terms of this guarantee, the Romanian government will have no financial liability in connection with the rehabilitation of the Roşia Montană project.

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It is stated precisely that a “cyanide rain” phenomenon will not exist. Neither was encountered in other places or situations. Moreover, the specialty literature doesn't mention the so-called “cyanide rains” phenomenon, but only “acidic rains” phenomenon which can't be generated by the cyanic compounds breaking down in the atmosphere.

The reasons for making the statement that ‘cyanide rains’ phenomenon won't occur are the following:

- The sodium cyanide handling, from the unloading from the supplying trucks up to the processing tailings discharge onto the tailings management facility, will be carried out only in liquid form, represented by alkaline solutions of high pH value (higher than 10.5 – 11.0) having different sodium cyanide concentrations. The alkalinity of these solutions has the purpose to maintain the cyanide under the form of cyan ions (CN⁻) and to avoid the hydrocyanic acid formation (HCN), phenomenon that occurs only within environments of low pH;
- The cyanide volatilization from a certain solution cannot occur under the form of free cyanides, but only under the form of HCN;
- The handling and storage of the sodium cyanide solutions will take place only by means of some closed systems; the only areas/plants where the HCN can occur and volatilize into air, at low emission percentage, are the leaching tanks and slurry thickener, as well the tailings management facility for the processing tailings;
- The HCN emissions from the surface of the above mentioned tanks and from the tailings management facility surface can occur as a result of the pH decrease within the superficial layers of the solutions (that helps the HCN to form) and of the desorption (volatilization in air) of this compound;
- The cyanide concentrations within the handled solutions will decrease from 300 mg/L within the leaching tanks up to 7 mg/L (total cyanide) at the discharge point into the tailings management facility. The drastic reduction of the cyanide concentrations for discharging into the Tailings Management Facility (TMF) will be done by the detoxification system;
- The knowledge of the cyanide chemistry and on the grounds of the past experience, we estimated the following possible HCN emissions into air: 6 t/year from the leaching tanks, 13 t/year from the slurry thickener and 30 t/year (22.4 t, respectively 17 mg/h/m² during the hot season and 7.6 t, respectively 11.6 mg/h/m² during the cold season) from the tailings management facility surface, which totals 134.2 kg/day of HCN emission;
- Once released into air, the hydrocyanic acid is subject to certain chemical reactions at low pressure, resulting ammonia;
- The mathematical modeling of the HCN concentrations within the ambient air (if the HCN released in the air is not subject to chemical reactions) emphasized the highest concentrations being at the ground level, within the industrial site namely within the area of the tailings management facility and within a certain area near the processing plant. The maximum concentration is of 382 µg/m³/h;
- The highest HCN concentrations within the ambient air will be 2.6 times lower than the standard value stipulated by the national legislation for occupational safety;
- The HCN concentrations within the ambient air in the populated areas close by the industrial site will be of 4 to 80 µg/m³, more than 250 – 12.5 times lower than standard value stipulated by the national legislation for occupational safety – the national legislation and European Union (EU) legislation on the Air Quality don't stipulate standard values for the population's health protection;
- Once released in air, the evolution of the HCN implies an insignificant component resulted from the reactions while liquid (water vapors and rain drops). The reactions are due to HCN being weak water-soluble at partially low pressures (feature of the gases released in open air), and the rain not effectively reducing the concentrations in the air (Mudder, et al., 2001; Cicerone and

Zellner, 1983);

- The probability that the HCN concentration value contained by rainfalls within and outside the footprint of the Project be significantly higher than the background values (0.2 ppb) is extremely low.

Details referring to the use of cyanide in the technological processes, to the cyanides balance as well as to the cyanide emission and the impact of the cyanides on the air quality are contained in the Environmental Impact Assessment (EIA) Report, Chapter 2, Subchapter 4.1 and Subchapter 4.2 (Section 4.2.3).

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The impact on protected flora and fauna will exist only locally, but this impact will not lead to the loss of any specie. The Project has been designed even from the beginning to fully comply with the requirements and norms imposed by Romanian and European environmental legislation.

The company believes the fact that the project impact on environment remains significant, especially because covers previous impacts. But, the investments required to ecologically restore/rehabilitate Roşia Montană area in order to address current complex environmental issues, are only achievable following the implementation of some economic projects that will generate and warrant implementation of some direct and responsible actions as a component of base principles of sustainable development concepts. Clean processes and technologies may be developed only in the presence of a solid economic environment fully compliant with the environment that will also resolve previous impacts of anthropic activities.

The base documents of the Project are in fact an unbiased reason of its implementation, considering the highly complex environmental commitment within Roşia Montană area.

Some of the Roşia Montană species that are under a certain protection status stand for an insignificant percentage of the scale of populations estimated at national level. The characterization of species from their habitat point of view exists in the species tables presented in the Biodiversity Chapter of the EIA Report and its annexes, although this is not a requirement imposed by the Habitats Directive. Due to their large volume of information, the annexes of chapter 4.6 Biodiversity can be found in the electronic version of the EIA disclosed by the company both in Romanian and English through approx. 6,000 DVD/CD copies, being accessible on the company website, and on the websites of Ministry of Environment and Water Management, local and regional environmental protection agencies of Alba, Sibiu, Cluj, etc.

From practical point of view, the low value of conservation of the impact area is also indirectly emphasized by the fact that there is no proposal to designate the area a SPA (aviafaunistic special protected area) and by the denial as unfounded of the proposal to designate the area as a pSCI area (sites of community importance).

Taking all these into account, we believe that the proposed Project is compliant with the provisions of EU Directive no. 92/43 Habitats[1], and EU Directive no. 79/409 Birds[2] respectively, especially because within Biodiversity Management Plan, Plan H, several active and responsible measures are provided to reconstruct/rehabilitate several natural habitats, pursuant to the provisions of the same documents [3].

References:

[1] art.3, 2nd paragraph, Each Member State shall contribute to the creation of Natura 2000 (network) in proportion to the representation within its territory of the natural habitat types and the habitats of species referred to in paragraph 1. To that effect each Member State shall designate, in accordance with Article 4, sites as special areas of conservation taking account of the objectives set out in paragraph 1.

art.4, 1st paragraph. On the basis of the criteria set out in Annex III (Stage 1) and relevant scientific information, each Member State shall propose a list of sites indicating which natural habitat types in Annex I and which species in Annex II that are native to its territory the sites host. For animal species ranging over wide areas these sites shall correspond to the places within the natural range of such species which present the physical or biological factors essential to their life and reproduction. For aquatic species which range over wide areas, such sites will be proposed only where there is a clearly identifiable area representing the physical and biological factors essential to their life and reproduction. Where appropriate, Member States shall propose adaptation of the list in the light of the results of the surveillance referred to

in Article 11. [...]

2nd paragraph.[...] Member States whose sites hosting one or more priority natural habitat types and priority species represent more than 5 % of their national territory may, in agreement with the Commission, request that the criteria listed in Annex III (Stage 2) be applied more flexibly in selecting all the sites of Community importance in their territory.[...]

Art. 6, 4th paragraph. If, in spite of a negative assessment of the implications for the site and in the absence of alternative solutions, a plan or project must nevertheless be carried out for imperative reasons of overriding public interest, including those of a social or economic nature, the Member State shall take all compensatory measures necessary to ensure that the overall coherence of Natura 2000 is protected. It shall inform the Commission of the compensatory measures adopted.

Art. 16. Provided that there is no satisfactory alternative and the derogation is not detrimental to the maintenance of the populations of the species concerned at a favourable conservation status in their natural range, Member States may derogate from the provisions of Articles 12, 13, 14 and 15 (a) and (b):[...]

- in the interests of public health and public safety, or for other imperative reasons of overriding public interest, including those of a social or economic nature and beneficial consequences of primary importance for the environment;

[2] Art.4, 1st paragraph. The species mentioned in annex 1 shall be the subject of special conservation measures concerning their habitat in order to ensure their survival and reproduction in their area of distribution. [...]

Trends and variations in population levels shall be taken into account as a background for evaluations. Member states shall classify in particular the most suitable territories in number and size as special protection areas for the conservation of these species, taking into account their protection requirements in the geographical sea and land area where this directive applies.

[3] Directive 92/43 Habitats, art. 2, 2nd paragraph; Directive 79/409 Birds, art. 3, 2nd paragraph, letter c.

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The quantity of TNT mentioned in the question is over-exaggerated, and the tendentious wording of the question is misleading.

In reality, during a blasting phase, up to 1,296 kg AM will be detonated, resulting in a mining mass of 8,000 – 10,000 t. In order to obtain the daily production (tailings and ore), the movement of the rock of approx. 28-32 exploitation panels is necessary, respectively the detonation of a quantity of approx. 10 t of explosive AM-type, as presented in Chapter 2 – Technological Processes, Section 4.1.1.2, p. 60 *et seq.*

The priming will be of sequential type and NONEL-type non-electric fuses (non-electric) and detonating wire will be used, technology that assures a mining mass crushing degree compatible to the loading machines capacity and determines the reduction of the exploded rock spreading area.

For the definitive outlining of the pit sides, bore holess similar to those used for mining will be used, having though a smaller explosive quantity with approx. 20% compared to the production holes, the start being given by dynamite cartridges.

For the detonation the NONEL technology will be used.

The load blasting order will be performed with micro delay, from the hole center to the base part and to the upper one, and from the center hole of the first row to the side extremities and to the following rows, technology that assures the significant decrease of the seismic intensity and an increased effectiveness of the rock movement explosions.

The model of atmospheric dispersion has been developed using the Best Available Techniques, in order to

simulate the transport of the pollutants generated by the mining activities outside the Project area. Modern concepts related to the flow and dispersion in complex terrains are incorporated in AERMOD by using a new and simple approach. If this is not necessary, the plume is modelled, either having a path that impacts the terrain or with a path that follows the terrains' topography.

AERMOD may forecast concentrations of pollutants from multiple sources for a wide variety of sites, meteorological conditions, types of pollutants and mediation periods. For this project, the concentrations on short term have been calculated using the maximum hourly rates of emission for activities developed simultaneously and for the averages calculated for intervals of 1 hour, 8 hours and 24 hours. The annual concentrations have been calculated using all active sources during the respective year.

For the dust emission control from open pits and haulage roads of ore and waste rock, the following measures have been taken:

- Utilization of a new blasting technology, namely the sequential blasting technology which reduces drastically the height of the dust plume and dispersion area;
- Ceasing of the activities generating dust during the periods with intense winds or when the automatic monitor for particles installed in the Roşia Montană protection area indicates an alert situation;
- Implementation of a program for dust control on the unpaved roads during the drought seasons by means of watering trucks and inert substances for dust restraining. These measures will reduce the dust emissions with 90%;
- Minimizing of the unloading height at manipulation/discharge of materials;
- Prescribing and application of speed limitation on traffic;
- Implementation of a program of periodically maintenance of vehicles and motorized equipments;
- Automatic monitoring of the air quality and meteorological parameters;
- Implementation of additional measures for dust emission control: ore and waste rock watering at the loading into trucks.

Details: the Report on Environmental Impact Assessment Study (Volume 12 – Chapter 4.2, Subchapter 4.2.4) and the Air quality Management Plan (Volume 24, Plan D) include, in a detailed manner, technical and operational measures for decreasing/eliminating dust emissions generated by the activities developed within the Project.

The “destruction“ of certain geological structures may occur in case of natural cataclysms, such as volcanic eruptions or earthquakes of maximum intensity, which involve the release of huge energy; this does not happen in the case of pit explosions.

Previous underground and massive surface blasting has been carried out in the area of the Roşia Montană deposit. The impact of these blasting operations on the geological structure has been limited to very small distances, such impact being insignificant on longer distances. A relevant example is represented by the underground galleries underneath the Cetate pit, which resisted the massive blasting carried out in this pit, although they were not reinforced. Only the works located 10-15 m underneath the pit floor have been impacted, several blocks falling due to the local increase of the rock cracking degree.

The earth shell is permanently subject to earthquakes of various intensities, of tectonic and anthropic nature. For the comfort of population and safety of constructions, the level of these earthquakes should not exceed the maximum admissible limits imposed by the standards.

Pit blasting activities and heavy equipment traveling are allowed provided that the parameters of the generated vibrations comply with the limits imposed by the law.

A detailed presentation of blasting technology can be found in the annex 7.1 - Proposed blasting technology for the operational phase of Roşia Montană Project

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The proposals for the classification of monuments on the World Heritage List-the UNESCO List- are made by the Government and by its institutions competent in this field, here the Ministry of Culture and Religious Affairs, the National Institute for Historical Monuments and the National Commission for

Historical Monuments (in accordance with the legal provisions, see below).

We mention that UNESCO (**UNITED NATIONS EDUCATIONAL, SCIENTIFIC AND CULTURAL ORGANIZATION**) is not an institution that replaces/substitutes for the national institutions competent in the cultural heritage field.

The national and governmental institutions in Romania competent, according to the law, to manage the monuments included on the World Heritage List (the UNESCO monuments respectively) are the Ministry of Culture and Religious Affairs, the National Institute for Historical Monuments and the National Commission for Historical Monuments.

The competences of these institutions are defined by the Romanian legislation on historical monuments, namely Law 259/2006 as follows:

-article 28, paragraph (1)-25- The Ministry of Culture and Religious Affairs [...] co-operates with interested international bodies and participates together with them to the financing of programs for the protection of historical monuments, including the monuments included on the World Heritage List [...]

-article 29, paragraph (3), letter d). – The main responsibilities of the National Institute for Historical Monuments are: [...] d). Prepare the documentation for the historical monuments proposed for inclusion on the World Heritage List [...]

-article 35, paragraph (1), letter l). The National Commission for Historical Monuments has the following responsibilities/competences: [...] proposes the historical monuments to be included on the World List of Natural and Cultural Heritage and on the List of World Heritage Sites in Danger, drawn up by UNESCO; [...]

According to the legal provisions, the local public authorities also have competences in this respect, namely they draft annual plans for the management and protection of historical monuments located within their administrative territorial unit, including any inscribed on the World Heritage List and ensure their monitoring by their own staff (according to Law 259/2006 article 46, paragraph (1), letter i).

The Environmental Impact Assessment Study for the Roşia Montană area, submitted to the Ministry of Environment and Waters Management in May 2006, was drawn up from the perspective of the implementation of the mining project proposed by RMGC. The EIA was not meant to include on the World Heritage List a very vast area, that the questioner generically calls „Țara Moţilor”. Upon assessment of this document, the competent authorities in the cultural heritage field will have a grounded point of view regarding the approval or dismissal of the Roşia Montană Project.

Item no.	3817	Same as: 3818, 3819, 3820, 3821, 3822, 3823, 3824, 3825, 3826, 3827, 3828, 3829, 3830, 3831, 3832
No. to identify the observations received from the public	No. 111119/25.08.2006	Same as: No. 111117/25.08.2006, No. 111116/25.08.2006, No. 111148/25.08.2006, No. 111090/25.08.2006, No. 111101/25.08.2006, No. 111100/25.08.2006, No. 111099/25.08.2006, No. 111098/25.08.2006, No. 111097/25.08.2006, No. 111095/25.08.2006, No. 111094/25.08.2006, No. 111133/25.08.2006, No. 111132/25.08.2006, No. 111131/25.08.2006, No. 111348/25.08.2006
Proposal		<p>The questioner opposes the mining project at Roşia Montană and makes the following observations and comments:</p> <ul style="list-style-type: none"> -In EIA there are no presented all the possible risks derived from this project; -Total costs for closing the mine are unrealistic; -There isn't until now an approved Zonal Urbanism Plan for the Protected Areas; -The phase of public consultation and quality evaluation of the impact assessment study report begun without a valid urbanism certificate; -Information about the foundation which RMGC will establish and subsidize is not given. This foundation follows to assume the obligations which the mining operation can not assume; -The present urbanism plans of the Roşia Montană commune do not correspond with the mining project proposal described in EIA; -There is no liner proposed for the tailings pond; -The proposed waste deposits will be not constructed according to the legislation in force; -No financial guarantees have been stipulated; -There is not a Safety Report submitted for the public consultation and evaluation by the competent authorities; -The EIA report does not assess the "zero alternative"; -The Project poses a threat for protected flora and fauna; -The EIA report does not refer to the impact on the listed heritage buildings of noise and vibrations caused by the mining operations; -The public/ONGs wish to consult the contracts and agreements between Company and Romanian State; -The Urbanism Plan has been modified without public consultation; -From archeological point of view, the area proposed to be occupied by project was not legally investigated; -Contests the protection of the architectural and spiritual monuments with the responsibility of the state institutions for the protection operation. <p>SEE THE CONTENT OF THE TYPE 1 CONTESTATION</p>
Solution		<p>It is the nature of risk that it can be mitigated and diminished; it cannot be made to disappear. In order to put this into context, the common action of walking on the street or developing everyday activities have an accident potential. This accident potential is twice higher than within the framework of industrial activities that use hazardous substances.</p> <p>A major chapter of the EIA report was dedicated to the identification of risks for the project. In addition, this chapter provides a discussion of the mitigation measures for each risk and how they were incorporated into the project designs. It is recognized that risk identification is difficult due to the number and diversity of events that can be envisioned. The EIA report cannot assume to cover all of the potential risks associated with the project. However, it has attempted to identify and address the most relevant risks. The extent of risk assessment and the intensity of the prevention and mitigation measures should be proportional to the risk involved and therefore only the risks that have been considered important have been assessed in detail. Each is described below.</p> <p>In the larger sense, the entire EIA report is focused on the assessment of impacts and their associated mitigation. Specifically, Chapter 4 of the EIA presents that impact assessment of the project. The following discussion presents a summary of the impact discussed in the EIA.</p> <p>As far as natural and technological risks assessments are concerned, Chapter 7, "Risk Cases", from the Report on Environmental Impact Assessment, emphasizes the fact that safety and prevention measures, the implementation of the environmental management and risk systems are mitigating the consequences to acceptable levels as compared to the most restrictive norms, standards, the best practices or national and international recommendations in the field. The risk level has been established as moderate and so,</p>

socially acceptable. The extension of the risk assessment and the intensity of the prevention and mitigation measures of the consequences should be proportionate to the risk involved. Selection of a specific mitigation technique is depends on the analyzed accident scenario.

More detailed assessments are conducted for accident scenarios that, based on the qualitative assessment are found to be potentially major, of probability more than 10^{-6} (reduced recovery periods of 1/1,000,000) meaning that they could have major consequences therefore, elevated associated risk, a higher risk level than 9 to 12 (on a scale of 1-25). To put this in context, simply living in southern Florida rates a 25 on the risk scale.

A global assessment of the risks associated with the Roşia Montană Project is obtained by the quick environmental and health risk assessment methodology initially developed by the Italian Ministry of the Environment and the World Health Organization. Natural hazard and risk identification and analysis presents key data and information in assessing potential technological accidents. Thus:

- In designing the Tailings Management Facility, the design parameters were chosen to fully cover the characteristic seismic risk of the area. These seismic design parameters adopted for the TMF and other facilities on the proposed site result in a safety factor much greater than the minimum accepted under the Romanian and European design standards for such facilities;

- in the sector physically impacted by the Project, the risk of floods will remain very low due to the small catchments (controlled by the Roşia and Corna Streams) the area affected by the operation, and the creation of containment, diversion and drainage hydro-technical structures for storm waters on the site, and in the Abrud catchment in general;

- risks caused by meteorological events have been reviewed and used in assessing the hazards of the affected technological processes.

From the analysis of morphometrical parameters and their correlation with other sets of information on the natural slopes on and near the site shows that the (qualitatively estimated) landslide occurrence risk is low to moderate and its consequences will not cause major impacts on the structural components of the Project.

There is no significant risk associated with resource depletion. Mining activities are planned judiciously, so as to extract only the profitable gold and silver resources and only the necessary construction rock for the Project. The management of the mining concession site will minimize reserve "sterilization" (limitation of future access to the reserves).

In assessing technological hazards and risks, the quantity of hazardous substances on the site was calculated as a total and by category, as provided by the *Notification Procedure* approved by Ministry of Agriculture, Forestry, Water and Environment (MAFWE) Order 1084/2003. Based on an evaluation of hazardous substances in stock on the Project site in relation to the relevant quantities provided by the Government Decision 95/2003 which transposes the Seveso Directive, the Project ranges between the upper and the lower limits, and therefore S.C. Roşia Montană Gold Corporation S.A. is required to prepare a Report on Environmental Impact Assessment Study to be sent to the local environmental authority and the local civilian protection authority a *Safety Report* on its operations to prevent major accident risks.

In assessing the consequences of major accidents involving dangerous substances, physical-mathematical models accepted internationally and especially at EU level, and the current version of the SLAB (Canada) software have been used, the latter for the atmospheric dispersion of denser than air gases, that may handle a multitude of situations and scenarios. Similarly, the EFFECTSGis 5.5 (Netherlands) software, developed for the analysis of the effects of industrial accidents and of consequences. Several scenarios were considered in response to the internal legislative requirements, especially related to the implementation of the Internal Emergency Plans (GD 647/2005). The conclusions of the risk assessment for major accidents were:

- The total destruction of plant facilities may only be caused by terrorist attack with classic or nuclear weapons. Simultaneous damage to the HCl tank (including containment) and to the NaCN solution tank, the tanks containing enriched solution, to one or more leaching tanks, having as a result HCN dispersion into the air. At the same time, under certain situations and weather conditions unfavorable for dispersion, people within 40 m of the emission source, surprised by the toxic cloud for more than 1 minute without respiratory protection equipment, will most certainly die. It may also be considered that, on a radius of about 310 m, persons exposed for more than 10 minutes may suffer

serious intoxications that may also lead to death. Toxic effects may occur in persons up to about 2 km downwind of the process plant;

- Operating errors and/or failures in the measurement and control devices, resulting in a lower pH in the leaching tank, thickener and/or DETOX slurry and accidental emissions of hydrocyanic acid. The area affected by concentrations of 290 ppm over a 10 min exposure time is within a circle of 36 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 157.5 m radius. The center of these circles is the middle of the CIL tanks platform;

- Accidental HCN emission from the decanter. The accident may be caused by a drop of pH in the CIL tanks combined with an overdose of flocculent solution and faulty pH monitoring systems. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 65 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 104 m radius. The center of these circles is mid-distance between the two DETOX facilities;

- Accidental HCN emission from the DETOX facility. The accident may be caused by a drop of pH in the reactors generated by an overdose of metabisulfite solution and/or copper sulphate combined with faulty pH monitoring systems. The area affected by high 1900 ppm concentrations for a 1 min exposure time is located within a 10 m radius circle. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 27 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 33 m radius. The center of these circles is mid-distance between the two DETOX facilities;

- Explosion of the LPG storage tank. The LPG storage tank has a 50 ton capacity and is located outdoors, near the heating plant. The simulation was conducted for the worst case scenario, considering an explosion of the full tank. Threshold I with heat 12.5 kW/m² is within a 10.5 m radius circle and Threshold II, of heat radiation 5 kW/m² is within a circle of 15 m radius;

- Damage and/or fire at the fuel tanks. Simulations were conducted for the worst case scenarios, considering ignition and combustion of all the diesel (fire in the tank, or in the containment vat, when full of diesel);

- Corna Dam break and breach development. Two credible accident scenarios were considered in simulating tailings flow out of the Tailings Management Facility, and six credible scenarios for the flow of decant water and tailings pore water, with significant effects on the terrestrial and aquatic ecosystems, in different weather conditions;

- Tailings flow may occur along Corna Valley, on a 800 m (starter dam break) or over 1600 m reach should the Corna dam break in its final stage;

- In regard to water quality impacts, cyanide concentrations in the water in the shape of a pollution plume may reach Arad, near the Romanian-Hungarian border on the Mureş River, in concentrations ranging between 0.03 and 0.5 mg/L. Due to inherent mathematical limitations in the models, these values and the accident effects are considered overestimated. Therefore, the results describe the "worst case scenario" based on extreme dam break assumptions for the Corna Dam.

A new and much more precise and realistic simulation has been subsequently established based on the INCA Mine model, that considers the dispersion, volatilization and breakdown of cyanides during the downstream movement of the pollutant flow (Whiteland et al., 2006).

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 (www.eurolimpacs.ucl.ac.uk). The model has been used to assess the impacts from future mining, and collection and treatment operations for pollution from past mining at Roşia 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 physical-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, an information sheet presenting the INCA modeling work is presented under the title of the Mureş River Modeling Program and the full modeling report is presented in Annex 5.1:

- Development of HCN on the tailings pond surface. Simulated emissions of HCN from the Tailings Management Facility pond surface and of their dispersion into the ambient air show that the level of $400\mu\text{g}/\text{m}^3$ hourly average and $179\mu\text{g}/\text{m}^3$ 8hr average will not be exceeded. These HCN concentrations are only slightly over the odor threshold (0.17ppm) and much below potentially dangerous concentrations;

- Cetate Dam break and breach development. Flood modeling was in case of a break in Cetate dam was based on the design parameters obtained from the hydrometeorological study "Assessment of rainfall intensity, frequency and runoff for the Roşia Montană Project - Radu Drobot". The breach characteristics were predicted using the BREACH model, and the maximum height of the flood wave in various flow sections was modeled using the FLDWAV software. The assumptions included a total 800000 m^3 discharge for one hour, when the peak of the flood hydrograph is about 4.9 m above base flow immediately below the dam and in the narrow Abrud valley 5.9-7,5 km downstream of the dam, while in the last section considered (10,5 km) water depth is about 2.3 m above base flow and the maximum flow rate 877 m^3/s . Further, the broader Aries valley allows the flood wave to propagate on a significantly wider bed, which results in a highly attenuated hydrograph. These results describe the "worst case scenario" based on extreme dam break assumptions:

- Accidents during cyanide transportation. Due to the large quantities of cyanide transported (about 30t /day) the risks associated to this activity were assessed in detail using the ZHA- Zurich Hazard Analysis method. As a consequence, the optimum transport route was selected from the manufacturer to the Process Plant, e.g.;

- Cyanide transport (in solid state) will exclusively involve special SLS (Solid to Liquid System) containers, 16 tons each. The ISO compliant container will be protected by a framework with legs, which allows separation from the transport trailer for temporary storage. The wall is 5.17 mm thick, which, together with the protective framework, provides additional protection to the load in case of accident. This system is considered BAT and is currently one of the safest cyanide transportation options.

It is being mentioned the fact that the study develops the occurrence possibility of these scenarios (pages 166-171, Conclusions).

As regards the cyanides management, there is a baseline study named "Roşia Montană Golden Project, Cyanides Management Plan" prepared in compliance with the "International Management Code for the Manufacture, Transport and Use of Cyanide in the Production of Gold (International Cyanide management Institute) May 2002". S.C. Roşia Montană Gold Corporation is signatory to this code.

Bibliographical references for Chapter 7 "Risk Cases" are listed at page 173-176.

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RMGC's closure estimates, which were developed by a team of independent experts with international experience and will be reviewed by third party experts, are based on the assumption that the project can be completed according to the plan, without interruptions, bankruptcy or the like. They are engineering calculations and estimates based on the current commitments of the closure plan and are summarized in the EIA's Mine Closure and Rehabilitation Management Plan (Plan J in the EIA). Annex 1 of Plan J will be updated using a more detailed approach looking at every individual year and calculating the amount of surety, which must be set aside year by year to rehabilitate the mine before RMGC is released from all its legal obligations. Most importantly, the current estimates assume the application of international best practice, best available technology (BAT) and compliance with all Romanian and European Union laws and regulations.

Closure and rehabilitation at Roşia Montană involves the following measures:

- Covering and vegetating the waste dumps as far as they are not backfilled into the open pits;
- Backfilling the open pits, except Cetate pit, which will be flooded to form a lake;
- Covering and vegetating the tailings pond and its dam areas;
- Dismantling of disused production facilities and revegetation of the cleaned-up areas;
- Water treatment by semi-passive systems (with conventional treatment systems as backup) until all effluents have reached the discharge standards and need no further treatment;
- Maintenance of the vegetation, erosion control, and monitoring of the entire site until it has been demonstrated by RMGC that all remediation targets have been sustainably reached.

While the aspects of closure and rehabilitation are many, we are confident in our cost estimates because the largest expense—that incurred by the earthmoving operation required to reshape the landscape—can be estimated with confidence. Using the project design, we can measure the size of the areas that must be reshaped and resurfaced. Similarly, there is a body of scientific studies and experiments that enable scientists to determine the depth of soil cover for successful re-vegetation. By multiplying the size of the areas by the necessary depth of the topsoil by the unit rate (also derived from studying similar earthmoving operations at similar sites), we can estimate the potential costs of this major facet of the rehabilitation operation. The earthmoving operation, which will total approximately US \$65 million, makes up 87% of closure and rehabilitation costs.

Also, the necessity of additional technological measures to stabilize and reshape the tailings surface will be discussed in the update of the Economical Financial Guarantee (EFG) estimate, which leads to an increase the provisions for tailings rehabilitation, especially if the TMF is closed prematurely and no optimized tailings disposal regime is applied. The exact figures depend on the details of the TMF closure strategy which can be finally determined only during production.

We believe that—far from being too low—our cost estimates are evidence of our high level of commitment to closure and rehabilitation. Just as a comparison, the world’s largest gold producer has set aside US \$683 million (as of December 31, 2006) for the rehabilitation of 27 operations, which equates to US \$25 million on average per mine. The RMGC closure cost estimates, recently revised upward from the US \$73 million reported in the EIA based on additional information, currently total US \$76 million.

*

According to Law 5/2000, regarding the approval of the Territory Arrangement Plan – 3rd Section – protected areas (“Law 5/2000”) (article 5, paragraphs 2-3), local public authorities, with the support of the competent central public authorities, had the obligation to establish the boundaries of the protection areas for the cultural heritage elements stipulated in Annex III to the above-mentioned law. This measure should have been taken within 12 months from the effective date of Law 5/2000, based on specialized studies. For this purpose, the local public authorities had to prepare the town planning documentation and its related regulations, developed and approved according to the law. This documentation must comprise the necessary protection and conservation measures for the national cultural heritage elements located in this area.

Concurrently, Law 350/2001 on the territory arrangement and urbanism stipulates the right of legal or natural persons interested in arranging the territory, to initiate the development of urbanism plans.

In accordance with these legal provisions, in 2001, RMGC initiated the preparation of these specific town-planning documentations - the General Urbanism Plan and the Zonal Urbanism Plan. These plans have been developed by Romanian certified companies and followed the legal approval procedure. The permit for the establishment of the Roşia Montană Historical Centre Protected Area was issued by the Ministry of Culture and Religious Affairs in 2002 (permits no. 61/14.02.2002 and no. 178/20.06.2002) as part of the procedure for the approval of the town planning documentation. Based on these permits, the Ministry of Culture and Religious Affairs requested the company to develop a Zonal Urbanism Plan for the Historical Centre of Roşia Montană. Out of the 41 historical buildings in Roşia Montană, thirty-five (35) are located inside the protected area of the Roşia Montană Historical Centre.

As for the heritage elements located in the future industrial development area (6 historical buildings), these are discussed in the Industrial Zonal Urbanism Plan prepared by SC Proiect Alba SA. The regulations

included in this document will contain measures for the protection of these monuments.

In conclusion, the town planning studies and the specialized studies conducted for the purpose of establishing the boundaries of the protection areas within the future mining operations perimeter are currently pending approval, in accordance with the legal provisions, by the competent institutions and committees. Please note that none of the historical houses located in the perimeter of the proposed project will be affected; on the contrary, all the 41 historic buildings will be included in a complex restoration and rehabilitation program (see the Management Plan). This program is mandatory, regardless of the implementation of the mining project, if we want to prevent these buildings from collapsing because of their advanced degradation.

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Your assertion regarding the failure to obtain an applicable urbanism certificate at the start up of the public debates and of the evaluation of the quality of the report to the environmental impact assessment, is not correct.

Thus, by the time when the public debate stage started up there was an applicable urbanism certificate and namely the urbanism certificate no. 78/26.04.2006 issued by Alba County Council. This certificate was obtained prior to the evaluation stage of the quality of the report to the environmental impact assessment which started up once the EIA was submitted to the Ministry of Environment and Water Management on the 15th May 2006.

For better understanding the applicable legal provisions and the facts developed within the mining project of Roșia Montană zone we would like to make several comments:

- The procedure for issuing the environmental permit for Roșia Montană project started up on the 14th December 2004 by submitting the technical memorandum and the urbanism certificate no.68/26.August 2004 (certificate applicable by that time). S.C. Roșia Montană Gold Corporation S.A. (RMGC) applied for and obtained a new urbanism certificate no.78/26.04.2006 issued by Alba County Council for the entire Roșia Montană Project applicable on the date of the EIA Report submission (15th May 2006) and prior to the public debate start up (June 2006);
- The Section 1 of the urbanism certificate no.78 of 26th 04.2006 entitled Work construction, position 10 – “Processing plant and associated constructions “ – including the tailing management facility which existence is compulsory for the processing plant running. The Tailing management facility is also specified on the layout plans which are integral part of the urbanism certificate and they were sealed by Alba County Council so that they cannot be modified;
- The Urbanism Certificate is an informative document and its goal is only to inform the applicant about the legal, economic and technical regime of the existing lands and buildings and to establish the urbanism requirements and the approvals necessary to obtain the construction permit (including the environmental permit) as per art.6 of Law 50/1991 referring to the completion of construction works, republished and art 27 paragraph 2 of the Norms for the application of Law 50/1991 – Official Journal 825 bis/13.09.2005).

As it is an informative document, it does not limit the number of certificates an applicant may obtain for the same land plot (art. 30 of Law no. 350/2001 regarding the territorial planning and urbanism).

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Introduced as part of the Environmental Impact Assessment Report Study (EIA), the Roșia Montană Foundation is shifting in focus. The Community Sustainable Development Plan activities initially conceived as coming under the Foundation umbrella (business oriented activities: business incubator, business advisory center, micro-finance facility, as well as social oriented activities: education and training center) have been advanced independently, via partnerships and with community participation in decision-making – a preferable way to advance social and economic development programs.

Going forward, the Foundation will take shape around preservation, patrimony and cultural heritage issues, with its final form determined in consultation with the community.

In terms of the philosophy that guides the company's Sustainable Development efforts, the Roșia

Montană Gold Corporation (RMGC) sees itself not as principal provider, but as a partner. Community involvement is considered the starting point; over time, as the community builds the capacity to maintain programs in its own right, the company will turn over control of currently-established programs to the community and its institutions.

For more information, please see Roșia Montană Sustainable Development and the Roșia Montană Project – annex 4.

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We underline the fact that your statement is false. The General Urbanism Plan for the Roșia Montană commune, endorsed in 2002 allows the development of Roșia Montană project, as it has been presented during the public consultations.

Concurrently, pursuant to the provisions of art. 41, paragraph 2, from the Mining Law no.85/2003, the authorities from the local administration have the liability to adjust and/or update the territory arrangement plans and the general urbanism plans, in order to allow the development of all operations necessary for the development of mining activities.

RMGC has also initiated the preparation of two zonal urbanism plans: Zonal Urbanism Plan Modification – Roșia Montană Industrial Area and Zonal Urbanism Plan – Roșia Montană Historical Area. The first urbanism plan is required by the urbanism certificate no.78/26.04.2006, which updates the Zonal Urbanism Plan for the Industrial Area approved in 2002. As far as the historical area is concerned, its Zonal Urbanism Plan is required by the General Urbanism Plan approved also in 2002. Both urbanism plans are pending approval and have been subject to public consultations.

*

An engineered liner is included in the design of the Tailings Management Facility (TMF) basin. Specifically, the Roșia 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; and
- 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 Roșia 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 (1×10^{-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 (1×10^{-6} cm/sec) cut off wall within the foundation of the starter dam to control seepage;
- A low permeability (1×10^{-6} 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.

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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.

*

Information regarding our Environmental Financial Guarantee (“EFG”) is fully discussed in the section of the Environmental Impact Assessment titled “Environmental and Social Management and System Plans” (Annex 1 of the subchapter titled “Mine Rehabilitation and Closure Management Plan”). The EFG is updated annually and will always reflect the costs associated with reclamation. These funds will be held in protected accounts at the Romanian state disposal.

Roșia Montană Gold Corporation (“RMGC”) has invested significant time, energy, and resources assessing the viability of a mining project in the valley of Roșia Montană. This assessment has led RMGC to conclude that Roșia Montană presents an attractive long-term development opportunity – an opinion confirmed by a variety of lending institutions, who have completed detailed reviews of the project’s design and profitability. We have every confidence that we will see the project through to the end of its projected 16-year lifespan, regardless of any fluctuations in the market price of gold.

In Romania, the creation of an EFG is required to ensure adequate funds are available from the mine operator for environmental cleanup. The EFG is governed by the Mining Law (no. 85/2003) and the National Agency for Mineral Resources instructions and Mining Law Enforcement Norms (no. 1208/2003).

Two directives issued by the European Union also impact the EFG: the Mine Waste Directive (“MWD”) and the Environmental Liability Directive (“ELD”).

The Mine Waste Directive aims to ensure that coverage is available for 1) all the obligations connected to the permit granted for the disposal of waste material resulting from mining activities and 2) all of the costs related to the rehabilitation of the land affected by a waste facility. The Environmental Liability Directive regulates the remedies, and measures to be taken by the environmental authorities, in the event of environmental damage created by mining operations, with the goal of ensuring adequate financial resources are available from the operators for environmental cleanup efforts. While these directives have yet to be transposed by the Romanian Government, the deadlines for implementing their enforcement mechanisms are 30 April 2007 (ELD) and 1 May 2008 (MWD) – thus before operations are scheduled to begin at Roșia Montană.

RMGC has already begun the process of complying with these directives, and once their implementation instruments are enacted by the Romanian Government, we will be in full compliance.

Each EFG will follow detailed guidelines generated by the World Bank and the International Council on Mining and Metals.

The current projected closure cost for Roșia Montană is US \$76 million, which is based on the mine operating for its full 16-year lifespan. The annual updates will be completed by independent experts, carried out in consultation with the NAMR, as the Governmental authority competent in mining activities field. These updates will ensure that in the unlikely event of early closure of the project, at any point in time, each EFG will always reflect the costs associated with reclamation. (These annual updates will result in an estimate that exceeds our current US \$76 million costs of closure, because some reclamation activity is incorporated into the routine operations of the mine.)

A number of different financial instruments are available to ensure that RMGC is capable of covering all of the expected closure costs. These instruments, which will be held in protected accounts at the Romanian state disposal, include:

- Cash deposit;
- Trust funds;
- Letter of credit;
- Surety bonds;
- Insurance policy.

Under the terms of this guarantee, the Romanian government will have no financial liability in connection with the rehabilitation of the Roşia Montană project.

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The Security Report has been made available for public access by being posted at the following Internet address http://www.mmediu.ro/dep_mediu/rosia_montana_securitate.htm as well as through the printed version which could have been found at several information locations established for public hearings.

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The Report on the Environmental impact assessment study (EIA) considered all alternative developments, including the option of not proceeding with any project – an option that would generate no investment, allowing the existing pollution problems and socio-economic decline to continue (Chapter 5 – *Assessment of Alternatives*).

The report also considered alternative developments – including agriculture, grazing, meat processing, tourism, forestry and forest products, cottage industries, and flora/fauna gathering for pharmaceutical purposes – and concluded that these activities could not provide the economic, cultural and environmental benefits brought by the Roşia Montană Project (RMP).

Chapter 5 also examines alternative locations for key facilities as well as alternative technologies for mining, processing and waste management, in line with best practice and as compared against published EU best available techniques (BAT) documentation.

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The impact on protected flora and fauna will exist only locally, but this impact will not lead to the loss of any specie. The Project has been designed even from the beginning to fully comply with the requirements and norms imposed by Romanian and European environmental legislation.

The company believes the fact that the project impact on environment remains significant, especially because covers previous impacts. But, the investments required to ecologically restore/rehabilitate Roşia Montană area in order to address current complex environmental issues, are only achievable following the implementation of some economic projects that will generate and warrant implementation of some direct and responsible actions as a component of base principles of sustainable development concepts. Clean processes and technologies may be developed only in the presence of a solid economic environment fully compliant with the environment that will also resolve previous impacts of anthropic activities.

The base documents of the Project are in fact an unbiased reason of its implementation, considering the highly complex environmental commitment within Roşia Montană area.

Some of the Roşia Montană species that are under a certain protection status stand for an insignificant percentage of the scale of populations estimated at national level. The characterization of species from their habitat point of view exists in the species tables presented in the Biodiversity Chapter of the EIA Report and its annexes, although this is not a requirement imposed by the Habitats Directive. Due to their large volume of information, the annexes of chapter 4.6 Biodiversity can be found in the electronic version of the EIA disclosed by the company both in Romanian and English through approx. 6,000 DVD/CD copies, being accessible on the company website, and on the websites of Ministry of Environment and Water Management, local and regional environmental protection agencies of Alba, Sibiu, Cluj, etc.

From practical point of view, the low value of conservation of the impact area is also indirectly emphasized by the fact that there is no proposal to designate the area a SPA (aviafaunistic special protected area) and by the denial as unfounded of the proposal to designate the area as a pSCI area (sites of community importance).

Taking all these into account, we believe that the proposed Project is compliant with the provisions of EU Directive no. 92/43 Habitats[1], and EU Directive no. 79/409 Birds[2] respectively, especially because

within Biodiversity Management Plan, Plan H, several active and responsible measures are provided to reconstruct/rehabilitate several natural habitats, pursuant to the provisions of the same documents [3].

References:

[1] art.3, 2nd paragraph, Each Member State shall contribute to the creation of Natura 2000 (network) in proportion to the representation within its territory of the natural habitat types and the habitats of species referred to in paragraph 1. To that effect each Member State shall designate, in accordance with Article 4, sites as special areas of conservation taking account of the objectives set out in paragraph 1.

art.4, 1st paragraph. On the basis of the criteria set out in Annex III (Stage 1) and relevant scientific information, each Member State shall propose a list of sites indicating which natural habitat types in Annex I and which species in Annex II that are native to its territory the sites host. For animal species ranging over wide areas these sites shall correspond to the places within the natural range of such species which present the physical or biological factors essential to their life and reproduction. For aquatic species which range over wide areas, such sites will be proposed only where there is a clearly identifiable area representing the physical and biological factors essential to their life and reproduction. Where appropriate, Member States shall propose adaptation of the list in the light of the results of the surveillance referred to in Article 11. [...]

2nd paragraph.[...] Member States whose sites hosting one or more priority natural habitat types and priority species represent more than 5 % of their national territory may, in agreement with the Commission, request that the criteria listed in Annex III (Stage 2) be applied more flexibly in selecting all the sites of Community importance in their territory.[...]

Art. 6, 4th paragraph. If, in spite of a negative assessment of the implications for the site and in the absence of alternative solutions, a plan or project must nevertheless be carried out for imperative reasons of overriding public interest, including those of a social or economic nature, the Member State shall take all compensatory measures necessary to ensure that the overall coherence of Natura 2000 is protected. It shall inform the Commission of the compensatory measures adopted.

Art. 16. Provided that there is no satisfactory alternative and the derogation is not detrimental to the maintenance of the populations of the species concerned at a favourable conservation status in their natural range, Member States may derogate from the provisions of Articles 12, 13, 14 and 15 (a) and (b):[...]

- in the interests of public health and public safety, or for other imperative reasons of overriding public interest, including those of a social or economic nature and beneficial consequences of primary importance for the environment;

[2] Art.4, 1st paragraph. The species mentioned in annex 1 shall be the subject of special conservation measures concerning their habitat in order to ensure their survival and reproduction in their area of distribution. [...]

Trends and variations in population levels shall be taken into account as a background for evaluations. Member states shall classify in particular the most suitable territories in number and size as special protection areas for the conservation of these species, taking into account their protection requirements in the geographical sea and land area where this directive applies.

[3] Directive 92/43 Habitats, art. 2, 2nd paragraph; Directive 79/409 Birds, art. 3, 2nd paragraph, letter c.

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This statement is ungrounded, because the environmental impact assessment (EIA) process has included preliminary cumulative estimates for stationary motorized equipment and linear (vehicular) sources were prepared in order to provide an initial understanding of the potential cumulative noise and vibration impacts from background and Roşia Montană Project sources, and to guide future monitoring and measurement activities as well as the selection of appropriate Best Management Practices/Best Available Techniques for further mitigation of the potential noise and vibration impacts from Project activities. These preliminary estimates apply to major construction activities, as well as the operation and

decommissioning/closure of the mine and process plant. They are documented as data tables and isopleth maps for major noise-generating activities in selected, representative Project years; see **Tables 4.3.8** through **4.3.16** and **Exhibits 4.3.1** through **4.3.9**. All these details related to the applied assessment methodology, the input data of the dispersion model, the modeling results and the measures established for the prevention/mitigation/elimination of the potential impact for all project stages (construction, operation, closure) are included in Chapter 4, Section 4.3 Noise and Vibrations of the EIA Report.

Project Years 0, 9, 10, 12, 14, and 19 were selected for modeling because they are considered to be representative of the most significant levels of noise-generating activity. They are also the same years used for air impact modeling purposes in Section 4.2, as air and noise impacts share many of the same sources or are otherwise closely correlated. In order to more accurately reflect potential receptor impacts, all of these exhibits integrate the background traffic estimates discussed in Section 4.3.6.1.

The Project site plan and process plant area and facility drawings were used to establish the position of the noise sources and other relevant physical characteristics of the site. Receptor locations were established using background reports and project engineering and environmental documentation provided by RMGC. With this information, the source locations and receptor locations were translated into input (x, y, and z) co-ordinates for the noise-modeling program.

Tables 4.3.8 through 4.3.16 and **Exhibits 4.3.1 through 4.3.9** present the average maximum noise values likely to be experienced by the receptor community over all Project phases after incorporation of a variety of initial mitigation measures designed specifically to reduce the impacts associated with mobile and stationary machinery sources. The influence of non-mining related background (primarily traffic) noise is also included.

To evaluate the sound levels associated with haul trucks and other mobile sources crossing the site carrying excavated ore, waste rock, and soil, a noise analysis program based on the (U.S.) Federal Highway Administration's (FHWA) standard RD-77-108 [1] model was used to calculate reference noise emissions values for heavy trucks along the project roadways. The FHWA model predicts hourly L_{eq} values for free-flowing traffic conditions and is generally considered to be accurate within 1.5 decibels (dB).

The model is based on the standardized noise emission factors for different types and weights of vehicles (e.g., automobiles, medium trucks, and heavy trucks), with consideration given to vehicle volume, speed, roadway configuration, distance to the receiver, and the acoustical characteristics of the site. The emission levels of all three vehicle types increase as a function of the logarithm of their speed.

To evaluate the sound sources from the proposed mine processing facility and the semi-stationary material handling equipment (at the ore extraction, waste rock and soil stockpiling areas), a proprietary computerized noise prediction program was used by AAC to simulate and model the future equipment noise emissions throughout the area. The modeling program uses industry-accepted propagation algorithms based on the following American National Standards Institute (ANSI) and International Organization for Standardization (ISO) standards:

- *ANSI S1.26-1995 (R2004), Method for the Calculation of the Absorption of Sound by the Atmosphere;*
- *ISO 9613-1:1993, Acoustics -- Attenuation of sound during propagation outdoors-- Part 1: Calculation of the absorption of sound by the atmosphere;*
- *ISO 9613-2:1996, Acoustics -- Attenuation of sound during propagation outdoors -- Part 2: General method of calculation;*
- *ISO 3891:1978, Acoustics -- Procedure for describing aircraft noise heard on the ground.*

The calculations account for classical sound wave divergence (i.e., spherical spreading loss with adjustments for source directivity from point sources) plus attenuation factors due to air absorption, minimal ground effects, and barriers/shielding.

This model has been validated by AAC over a number of years via noise measurements at several operating industrial sites that had been previously modeled during the engineering design phases. The comparison of modeled predictions versus actual measurements has consistently shown close agreement; typically in the range of 1 to 3 dB (A).

References:

[1] FHWA Highway Traffic Noise Prediction Model; see Federal Highway Administration Report Number FHWA-RD-77-108, USA, Washington, D.C., 1978.

A detailed presentation of blasting technology can be found in the annex 7.1 - Proposed blasting technology for the operational phase of Roşia Montană Project.

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The partnership between Gabriel Resources and Regia Autonomă a Cuprului Deva (currently, CNCAF Minvest SA) has been established based on Law no. 15/1990 on the reorganization of the state owned companies as autonomous directions and trade companies, published in the Official Gazette, Section I, no. 98/08.08.1990, as subsequently amended and supplemented. Art. 35 of this law provides the possibility of the regies autonomous to enter into partnerships with legal third parties, Romanian or foreign, for the purpose of setting up new trading companies.

Roşia Montană Gold Corporation SA was set up in 1997, according to the legal provisions in force as at that time, the setting up being made by observing all the conditions imposed by Company Law no. 31/1990 and Trade Register Law no. 26/1990, in regard of the setting up of the joint stock companies with mixed capital.

We underline that the Articles of Associations of Roşia Montană Gold Corporation SA, representing the result of the parties agreement in regard of the terms and conditions under which the partnership between the Romanian state and investor takes place represents a public document, being included in the category of documents which, as per Law no. 26/1990 on the Trade Register, are published in the Romanian Official Gazette and for which the Trade Register is obliged to issue, on the expense of the persons submitting a request, certified copies.

As for the agreement concerning the setting up of the mixed company together with Gabriel Resources Ltd., this has been expressed by the Ministry of Industry and Trade, the conditions imposed by the setting up of the mixed company being the following: (i) ensuring of the jobs at the level existing upon the conclusion of the agreement concerning the setting up of the mixed company; (ii) the expenses incurred by the fulfillment of the exploration stage should be fully supported by Gabriel; (iii) the obtaining of the approval from the ANRM by the Copper Autonomous Direction Deva and (iv) the observance of all legal provisions in force concerning the setting up of the mixed companies with foreign partners. These conditions have been fully complied with as at the setting up of the company and during the development of its activity.

We also specify that the establishing of the shareholders' quotas to the benefits and losses of Roşia Montană Gold Corporation SA has been made by considering their contribution quota to the company's share capital. The current percentage of 80% for Gabriel Resources Ltd. and of 19.31% for CNCAF Minvest SA resulted from the initial contribution and the subsequent contributions of the shareholders to the company's share capital, in consideration also of Gabriel Resources Ltd. advancing all expenses and costs related to the development-exploitation and permitting of the Roşia Montană Mining Project.

The provisions of the Articles of Associations of Roşia Montană Gold Corporation SA on the necessary majority and quorum conditions for the decision-making process within the General Shareholders Meeting and the quotas to the benefits and losses of the company are taken from Law no. 31/1990, and no derogation exists in regard of this aspect.

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This claim is not true; the Urbanism Plan has been prepared with public consultation.

Roşia Montană Gold Corporation SA (RMGC) has requested and obtained from Alba County Council the Urbanism Certificate no. 78 of 26.04.2006, for the entire Roşia Montană mining project, including the tailings management facility. The Urbanism Certificate also stipulated the preparation of a Zonal Urbanism Plan, to reflect all changes made to the Roşia Montană Project, following the public consultations and debates organized in relation to this project, and the consultations with the permitting

authorities. This plan, entitled “Modification of the Zonal Urbanism Plan, Roşia Montană Industrial Area”, was prepared and subjected to public debate in June 2006 in accordance with the provisions of Order no.176/N/2000 issued by the Ministry of Public Works and Territory Development for the approval of the technical regulations “Guidelines regarding the methodology applied for the preparation and framework content of the Zonal Urbanism Plan” and, at present, it is pending approval.

Concerning the Roşia Montană General Urbanism Plan approved in 2002, such plan was prepared in parallel with the Zonal Urbanism Plan of 2002, all the provisions of the General Urbanism Plan being also included in the Zonal Urbanism Plan. Also, the approval procedure related to the two urbanism plans was carried out in parallel.

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Preventive archaeological researches within the Roşia Montană mining project area have been undertaken based on specific techniques, specifically trial trenches in all accessible areas that are suitable for human habitation, taking into account the bibliographical information and the observations recorded during the archaeological survey campaigns, the geophysical studies and the analyses of the photogrammetric flights. In addition, surface investigations were undertaken, where appropriate.

The archaeological researches at Roşia Montană covered a large surface and focused on the areas known to have archaeological potential. THEREFORE, ALL AREAS THAT HAVE BEEN ARCHAEOLOGICALLY DISCHARGED HAD BEEN PREVIOUSLY INVESTIGATED. All research programs, beginning with the 2004 campaign, have been undertaken in full compliance with the current legal requirements, i.e. Ministerial Order no. 2392 of 6 September 2004 on the establishment of the Archaeological Standards and Procedures by the Ministry of Culture and Religious Affairs.

The proposed gold mining project at Roşia Montană has raised a series of issues related to the rescue of the historical-archaeological heritage within the area, as well as issues related to its scientific development and also the enhancement of heritage within a museum. Given the complex difficulties encountered in this respect, the Ministry of Culture and Religious Affairs decided to initiate the “Alburnus Maior” National Research Program.

The company’s role was to provide the necessary financial resources for the assessment, research and enhancement of the archaeological remains, in full compliance with the Romanian current legislation. The development of the research and of the archaeological discharge works has been conducted through specific means and methodologies that have been adjusted to the realities of every site researched, in our case, Roşia Montană. They consisted in:

- Archives studies;
- Archaeological surveys; trial trenches;
- aerial reconnaissance/survey and aerial photo interpretation ; high resolution satellite images;
- mining archaeology studies; underground topography and 3D modeling;
- geophysical surveys;
- extensive archaeological investigations in the areas with an identified archaeological potential- this implied carrying out archaeological excavations;
- Interdisciplinary studies- sedimentology, archaeo-zoology, comparative palynology, archaeo-metallurgy, geology, mineralogy;
- Radiocarbon dating and dendrochronology;
- This research and its results were included in an integrated database;
- traditional and digital archaeological topography and development of the GIS project; generate a photo archive- both traditional and digital;
- restoration of artifacts;
- an inventory and a digital catalogue of the artifacts;
- studies conducted by specialists in order to enhance the research results - publication of monographs/scientific books and journals, exhibitions, websites, etc.

All the preventive archaeological researches undertaken at Roşia Montană since 2000 have been carried out as part of a complex research program; permits for preventive archaeological excavations being issued in compliance with the current legislation. These archaeological investigations have been undertaken by

representatives of 21 specialized institutions from Romania and 3 others from abroad, under the scientific coordination of the Romanian National Museum of History. All archaeological researches have been conducted in full compliance with the existing legislation. The investigations undertaken during each archaeological research campaign have been approved by the Ministry of Culture and Religious Affairs based on the Annual Archaeological Research Plan approved by the National Commission of Archaeology.

Under the current legislation (Ministerial Order no. 2392 of 6 September 2004 on the establishment of the Archaeological Standards and Procedures by the Ministry of Culture and Religious Affairs) the archaeologists who have conducted the research may ask that an archaeological discharge certificate be granted. Based on a complex research program, the archaeologists prepare comprehensive documentation with regard to the researched area. Upon consideration of the submitted documentation, the National Commission of Archaeology makes a decision as to whether to recommend or not the granting of the archaeological discharge certificate. In the case of the research conducted in the period 2001-2006, the archaeological discharge certificate was issued directly by the Ministry of Culture and Religious Affairs or by its local agencies.

Preventive archaeological researches at Roșia Montană have allowed the research of five Roman cremation necropolis (Tău Corna, Hop-Găuri, Țarina, Jig - Piciorag and Pârâul Porcului – Tăul Secuilor), two funerary areas (Carpeni, Nanului Valley), sacred areas (Hăbad, Nanului Valley), habitation areas (Hăbad, Carpeni, Tăul Țapului, Hop), the most significant being the Roman structures on the Carpeni Hill and the circular funerary monument at Tău Găuri. In addition, for the first time in Romania, surface investigations have been paralleled by underground investigations of Cetate, Cârnic, Jig and Orlea massifs, with important discoveries in the Pietra Corbului, area, Cătălina-Monulești gallery and the Păru Carpeni mining sector.

The research consisted of aerial photo interpretation, archaeological magnetometric studies, electrical resistivity, palynology, sedimentology, geology studies, radiocarbon and dendrochronology dating. For a better management of the research units and of the archaeological findings, data bases were used, including text and photographs-among which 4 satellite images (an archive satellite image type SPOT Panchromatic (10m) from 1997; 2 satellite images LANDSAT 7 MS (30 m), dating from 2000 and 2003; a satellite image with priority programming SPOT 5 SuperMode color (2,5 m resolution-19 July 2004); all data have been included in a comprehensive GIS program, a first in the Romanian archaeological research.

In the case of archaeological monuments that are located close to industrial facilities, plans have been redesigned to ensure that the archaeological remains in question will not be affected. Where appropriate, the archaeological monument was preserved in situ and restored, i.e. the circular funerary monument at Hop-Găuri (see The "Alburnus Maior" monograph series, volume II, Bucharest, 2004). Another example in this respect is the Carpeni Hill, designated an "archaeological " reserve, and the Pietra Corbului area. In 2004, after being thoroughly investigated, these areas have been included on the List of Historic Monuments. Add to this the areas where ancient mining remains will be preserved, such as the Cătălina Monulești gallery and the mining sector Păru Carpeni, as well as the protected area Roșia Montană Historic Center, including a number of heritage assets (35 historic monument houses).

We emphasise in this respect that the identified and researched structures have been published in preliminary form in the Archaeological Research Chronicle of Romania, after every archaeological research campaign, as well as in volume 1 of the Alburnus Maior monographic series. We mention here the areas where Roman habitation structures have been identified and researched, as well as the references to be consulted for further information: Hop-Găuri, Carpeni, Tăul Țapului (CCA 2001 (2002), p. 254-257, no. 182; 261-262, nr. 185; 264-265, no. 188; 265-266, no. 189. Alburnus Maior I, 2003, p. 45-80; 81-122; 123-148; CCA 2001 (2002), 257-261; CCA 2003 (2004) ,280-283; Alburnus Maior I, 2003, p. 387-431, 433-446, 447-467).

For further details related to the applicable legal framework, the responsibilities of the Project titleholder, or for a detailed description of the preventive archaeological researches undertaken to date and of the Cultural Heritage Management Plans, please see Annex called "Information on the Cultural heritage of Roșia and Related Management Aspects". In addition, the annex includes supplementary information with regard to the result of the researches undertaken as part of the "Alburnus Maior" National Research Program between 2001 and 2006.

In conclusion, the area mentioned by the questioner has been researched in accordance with the

Romanian legal requirements, as well as with European standards and practices in the field.

Note that the type of research undertaken at Roşia Montană, known as preventive/rescue archaeological research, as well as other related heritage studies, are done everywhere in the world in close connection with the economic development of certain areas. Both the costs for the research and for the enhancement and maintenance of the preserved areas are provided by investors, in a public-private partnership set up in order to protect the cultural heritage, as per the provisions of the European Convention on the Protection of the Archaeological Heritage (Malta-1992) [1].

References:

[1]The text of the Convention is available at the following address:

<http://conventions.coe.int/Treaty/Commun/QueVoulezVous.asp?NT=143&CM=8&DF=7/6/2006&CL=EN>

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In 2000, in the context of the proposal of a new mining project in the Roşia Montană area, the Ministry of Culture and Religious Affairs approved a series of studies to be conducted in order to research the archaeological and architectural heritage of the area. And at the end of that year, the Design Centre for National Cultural Heritage (now the National Institute for Historical Monuments) presented the preliminary results of these researches to the National Commission for Historical Monuments and of the National Commission of Archaeology. Based on these results, in 2001, the Ministry of Culture and Religious Affairs initiated the “Alburnus Maior” National Research Program (the Order no. 2504 / 07.03.2001 of the Minister of Culture and Religious Affairs) in compliance with the Law 378/2001 (as subsequently amended by Law 462/2003 and by Law 258/2006 and Law 259/2006). Thus, since 2000, the Ministry of Culture and Religious Affairs – directly or through its subordinate institutions - has fulfilled its duties with regard to the management of the issues related to Roşia Montană’s heritage.

Thus, the preventive archaeological researches have been conducted by the representatives of 21 national institutions and 3 others from abroad under the scientific coordination of the National Museum of History of Romania. They have been carried out based on the annual approval of the National Commission of Archaeology of the Ministry of Culture and Religious Affairs. In accordance with the legislation in force, this research program is carried out with the financial support provided by RMGC (the company that plans to expand and continue to mine the gold-silver deposit in Roşia Montană). Thus, large-scale preventive investigations have been conducted or are underway in the RMP impact area. A proposal will be made based on the results thereof either for the archaeological discharge of some researched perimeters from the project perimeter or the preservation *in situ* of certain representative structures and monuments, in compliance with the legislation in force. In the case of the areas proposed for conservation and the ones for which the archaeological discharge measure was applied, the decision was made based on the surveys conducted by specialists and on the analysis of the National Commission of Archaeology. In the period 2000-2005, the mining project underwent a series of modifications designed to promote the implementation of the decision regarding the conservation of the local heritage. Examples of these include: extending the duration of the field investigations on several years (e.g. Ţarina, Pârâul Porcului, Orlea) and changing the location of some elements of infrastructure in order to allow the conservation of the archaeological remains found in the Carpeni, Tău Găuri and Pietra Corbului areas.

The architectural and town-planning surveys have been conducted, in accordance with the legislation in force, by companies certified by the Ministry of Culture and Religious Affairs, while the town-planning documentations drafted by these companies and the restoration and conservation works undertaken so far have been approved by the National Commission for Historical Monuments. Thus, the town-planning documentations have been approved and implemented in accordance with current legislation, and the company has agreed to these decisions and modified the mine development plans accordingly:

Extensive ethnographic research was conducted in the Roşia Montană-Abrud-Corna area in the period 2001-2004 coordinated by a team of specialists for the Romanian Village Museum „Dimitrie Gusti” (a National Museum directly under the coordination of the Ministry of Culture and Religious Affairs). Moreover, a broad series of oral history interviews was conducted in the period 2001-2002 by the Romanian Radio Broadcasting Company through the „Gheorghe Brătianu” Oral History Centre, Bucharest (SRR - CIO).

In compliance with the requirements of the Ministry of Environment and Waters Management and the Ministry of Culture and Religious Affairs, specific management plans have been drawn up for the management and conservation of the heritage remains from the Roşia Montană area, in the context of the implementation of the mining project. These plans have been included in the documentation prepared for the Report on the Environmental Impact Assessment Study. (see EIA Report, volume 32-33, Plan M- *Cultural Heritage Management Plan*, part I –*Management Plan for the Archaeological Heritage from Roşia Montană Area*; part II-*Management Plan for the Historical Monuments and Protected Zone from Roşia Montană*; part III- *Cultural Heritage Management Plan*).

These management plans comprise detailed presentations of the obligations and responsibilities regarding the protection and conservation of the heritage remains from the Roşia Montană area, which the company has assumed in the context of the implementation of the mining project, according to the decision of the central government. These heritage remains include: archaeological remains above and under the ground, historic buildings, protected areas, intangible heritage assets, cultural landscape items, etc. In this context, it should be noted that besides the works for the protection and preservation of the archaeological heritage, works are being carried out for the rehabilitation and conservation of the protected area Historical Centre Roşia Montană (comprising 35 historic buildings, and projects for the restoration of 11 of these buildings are currently being drafted), Tăul Mare, Tăul Brazi and Tăul Anghel as well as remains of the surface mining works form the Vaidoiaia area and the creation of a modern museum dedicated to the history of mining in the Apuseni Mountains area. This museum will be established in the coming years and it will include exhibitions of geology, archaeology, industrial and ethnographic heritage as well as an underground section organized around the Cătălina Monuleşti gallery.

Moreover, representatives of the Directorate for Culture, Religious Affairs and National Cultural Heritage of Alba County have visited Roşia Montană many times in order to collect information and to check the situation. The same administrative body was the intermediary for the specific stages of acquisitions of historic buildings made by RMGC. The Ministry of Culture and Religious Affairs expressed its pre-emption right regarding the acquisition of these buildings.

Note that apart from the obligations undertaken by RMGC as regards the protection and conservation of the archaeological remains and historical monuments, there are a whole series of obligations, which rest with the local public authorities from Roşia Montană and from Alba County and with the central public authorities, namely the Romanian Government.

These aspects are further detailed in the Cultural Heritage Management Plans included in the EIA Report (see EIA Report, volume 32, *Management Plan for the Archaeological Heritage from Roşia Montană Area*, pages 21-22, 47, 52-53, 66-67-Romanian version/ 22-24; 47; 55-56; 71-72 English version) and the EIA Report, volume 33- *Management Plan for the Historical Monuments and Protected Zone from Roşia Montană* pages 28-29, 48-50, 52-53, 64-65, page 98 – Annex 1- Romanian version/ 28-29; 47-50; 51-53; 65-66; 103- Annex 1- English version).

Item no.	3833 Same as: 3834, 3835, 3836, 3837, 3838, 3839, 3840, 3841, 3842, 3843, 3844, 3845, 3846, 3847, 3848, 3849, 3850, 3851, 3852, 3853, 3854, 3855, 3856, 3857, 3858, 3859, 3860, 3861, 3862, 3863, 3864, 3865
No. to identify the observations received from the public	No. 111074/ 25.08.2006 Same as: No. 111078/25.08.2006, No. 111079/25.08.2006, No. 111080/25.08.2006, No. 111081/25.08.2006, No. 111765/25.08.2006, No. 112172/25.08.2006, No. 112169/25.08.2006, No. 112170/25.08.2006, No. 112925/25.08.2006, No. 112926/25.08.2006, No. 111783/25.08.2006, No. 112927/25.08.2006, No. 112928/25.08.2006, No. 112919/25.08.2006, No. 112907/25.08.2006, No. 112908/25.08.2006, No. 112909/25.08.2006, No. 112905/25.08.2006, No. 112896/25.08.2006, No. 112897/25.08.2006, No. 112898/25.08.2006, No. 112899/25.08.2006, No. 112900/25.08.2006, No. 112895/25.08.2006, No. 111347/25.08.2006, No. 111346/25.08.2006, No. 111345/25.08.2006, No. 111344/25.08.2006, No. 111342/25.08.2006, No. 111107/25.08.2006, No. 111106/25.08.2006, No. 111353/25.08.2006
Proposal	<p>The questioner opposes the mining project at Roşia Montană and makes the following observations and comments:</p> <ul style="list-style-type: none"> -In EIA there are no presented all the possible risks derived from this project; -Total costs for closing the mine are unrealistic; -There isn't until now an approved Zonal Urbanism Plan for the Protected Areas; -The phase of public consultation and quality evaluation of the impact assessment study report begun without a valid urbanism certificate; -Information about the foundation which RMGC will establish and subsidize is not given. This foundation follows to assume the obligations which the mining operation can not assume; -The present urbanism plans of the Roşia Montană commune do not correspond with the mining project proposal described in EIA; -There is no liner proposed for the tailings pond; -The proposed waste deposits will be not constructed according to the legislation in force; -No financial guarantees have been stipulated; -There is not a Safety Report submitted for the public consultation and evaluation by the competent authorities; -The EIA report does not assess the "zero alternative"; -The Project poses a threat for protected flora and fauna; -The EIA report does not refer to the impact on the listed heritage buildings of noise and vibrations caused by the mining operations; -The public/ONGs wish to consult the contracts and agreements between Company and Romanian State; -The Urbanism Plan has been modified without public consultation; -From archeological point of view, the area proposed to be occupied by project was not legally investigated; -Contests the protection of the architectural and spiritual monuments with the responsibility of the state institutions for the protection operation. <p>SEE THE CONTENT OF THE TYPE 1 CONTESTATION</p>
Solution	<p>It is the nature of risk that it can be mitigated and diminished; it cannot be made to disappear. In order to put this into context, the common action of walking on the street or developing everyday activities have an accident potential. This accident potential is twice higher than within the framework of industrial activities that use hazardous substances.</p> <p>A major chapter of the EIA report was dedicated to the identification of risks for the project. In addition, this chapter provides a discussion of the mitigation measures for each risk and how they were incorporated into the project designs. It is recognized that risk identification is difficult due to the number and diversity of events that can be envisioned. The EIA report cannot assume to cover all of the potential risks associated with the project. However, it has attempted to identify and address the most relevant risks. The extent of risk assessment and the intensity of the prevention and mitigation measures should be proportional to the risk involved and therefore only the risks that have been considered important have been assessed in detail. Each is described below.</p> <p>In the larger sense, the entire EIA report is focused on the assessment of impacts and their associated mitigation. Specifically, Chapter 4 of the EIA presents that impact assessment of the project. The following discussion presents a summary of the impact discussed in the EIA.</p>

As far as natural and technological risks assessments are concerned, Chapter 7, "Risk Cases", from the Report on Environmental Impact Assessment, emphasizes the fact that safety and prevention measures, the implementation of the environmental management and risk systems are mitigating the consequences to acceptable levels as compared to the most restrictive norms, standards, the best practices or national and international recommendations in the field. The risk level has been established as moderate and so, socially acceptable. The extension of the risk assessment and the intensity of the prevention and mitigation measures of the consequences should be proportionate to the risk involved. Selection of a specific mitigation technique is depends on the analyzed accident scenario.

More detailed assessments are conducted for accident scenarios that, based on the qualitative assessment are found to be potentially major, of probability more than 10^{-6} (reduced recovery periods of 1/1,000,000) meaning that they could have major consequences therefore, elevated associated risk, a higher risk level than 9 to 12 (on a scale of 1-25). To put this in context, simply living in southern Florida rates a 25 on the risk scale.

A global assessment of the risks associated with the Roşia Montană Project is obtained by the quick environmental and health risk assessment methodology initially developed by the Italian Ministry of the Environment and the World Health Organization. Natural hazard and risk identification and analysis presents key data and information in assessing potential technological accidents. Thus:

- In designing the Tailings Management Facility, the design parameters were chosen to fully cover the characteristic seismic risk of the area. These seismic design parameters adopted for the TMF and other facilities on the proposed site result in a safety factor much greater than the minimum accepted under the Romanian and European design standards for such facilities;
- in the sector physically impacted by the Project, the risk of floods will remain very low due to the small catchments (controlled by the Roşia and Corna Streams) the area affected by the operation, and the creation of containment, diversion and drainage hydro-technical structures for storm waters on the site, and in the Abrud catchment in general;
- risks caused by meteorological events have been reviewed and used in assessing the hazards of the affected technological processes.

From the analysis of morphometrical parameters and their correlation with other sets of information on the natural slopes on and near the site shows that the (qualitatively estimated) landslide occurrence risk is low to moderate and its consequences will not cause major impacts on the structural components of the Project.

There is no significant risk associated with resource depletion. Mining activities are planned judiciously, so as to extract only the profitable gold and silver resources and only the necessary construction rock for the Project. The management of the mining concession site will minimize reserve "sterilization" (limitation of future access to the reserves).

In assessing technological hazards and risks, the quantity of hazardous substances on the site was calculated as a total and by category, as provided by the *Notification Procedure* approved by Ministry of Agriculture, Forestry, Water and Environment (MAFWE) Order 1084/2003. Based on an evaluation of hazardous substances in stock on the Project site in relation to the relevant quantities provided by the Government Decision 95/2003 which transposes the Seveso Directive, the Project ranges between the upper and the lower limits, and therefore S.C. Roşia Montană Gold Corporation S.A. is required to prepare a Report on Environmental Impact Assessment Study to be sent to the local environmental authority and the local civilian protection authority a *Safety Report* on its operations to prevent major accident risks.

In assessing the consequences of major accidents involving dangerous substances, physical-mathematical models accepted internationally and especially at EU level, and the current version of the SLAB (Canada) software have been used, the latter for the atmospheric dispersion of denser than air gases, that may handle a multitude of situations and scenarios. Similarly, the EFFECTSGis 5.5 (Netherlands) software, developed for the analysis of the effects of industrial accidents and of consequences. Several scenarios were considered in response to the internal legislative requirements, especially related to the implementation of the Internal Emergency Plans (GD 647/2005). The conclusions of the risk assessment for major accidents were:

- The total destruction of plant facilities may only be caused by terrorist attack with classic or

nuclear weapons. Simultaneous damage to the HCl tank (including containment) and to the NaCN solution tank, the tanks containing enriched solution, to one or more leaching tanks, having as a result HCN dispersion into the air. At the same time, under certain situations and weather conditions unfavorable for dispersion, people within 40 m of the emission source, surprised by the toxic cloud for more than 1 minute without respiratory protection equipment, will most certainly die. It may also be considered that, on a radius of about 310 m, persons exposed for more than 10 minutes may suffer serious intoxications that may also lead to death. Toxic effects may occur in persons up to about 2 km downwind of the process plant;

- Operating errors and/or failures in the measurement and control devices, resulting in a lower pH in the leaching tank, thickener and/or DETOX slurry and accidental emissions of hydrocyanic acid. The area affected by concentrations of 290 ppm over a 10 min exposure time is within a circle of 36 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 157.5 m radius. The center of these circles is the middle of the CIL tanks platform;

- Accidental HCN emission from the decanter. The accident may be caused by a drop of pH in the CIL tanks combined with an overdose of flocculent solution and faulty pH monitoring systems. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 65 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 104 m radius. The center of these circles is mid-distance between the two DETOX facilities;

- Accidental HCN emission from the DETOX facility. The accident may be caused by a drop of pH in the reactors generated by an overdose of metabisulfite solution and/or copper sulphate combined with faulty pH monitoring systems. The area affected by high 1900 ppm concentrations for a 1 min exposure time is located within a 10 m radius circle. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 27 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 33 m radius. The center of these circles is mid-distance between the two DETOX facilities;

- Explosion of the LPG storage tank. The LPG storage tank has a 50 ton capacity and is located outdoors, near the heating plant. The simulation was conducted for the worst case scenario, considering an explosion of the full tank. Threshold I with heat 12.5 kW/m² is within a 10.5 m radius circle and Threshold II, of heat radiation 5 kW/m² is within a circle of 15 m radius;

- Damage and/or fire at the fuel tanks. Simulations were conducted for the worst case scenarios, considering ignition and combustion of all the diesel (fire in the tank, or in the containment vat, when full of diesel);

- Corna Dam break and breach development. Two credible accident scenarios were considered in simulating tailings flow out of the Tailings Management Facility, and six credible scenarios for the flow of decant water and tailings pore water, with significant effects on the terrestrial and aquatic ecosystems, in different weather conditions;

- Tailings flow may occur along Corna Valley, on a 800 m (starter dam break) or over 1600 m reach should the Corna dam break in its final stage;

- In regard to water quality impacts, cyanide concentrations in the water in the shape of a pollution plume may reach Arad, near the Romanian-Hungarian border on the Mureş River, in concentrations ranging between 0.03 and 0.5 mg/L. Due to inherent mathematical limitations in the models, these values and the accident effects are considered overestimated. Therefore, the results describe the "worst case scenario" based on extreme dam break assumptions for the Corna Dam.

A new and much more precise and realistic simulation has been subsequently established based on the INCA Mine model, that considers the dispersion, volatilization and breakdown of cyanides during the downstream movement of the pollutant flow (Whiteland et al., 2006).

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 (www.eurolimpacs.ucl.ac.uk). The model has been used to assess the impacts from future mining, and collection and treatment operations for pollution from past mining at Roşia 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 physical-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, an information sheet presenting the INCA modeling work is presented under the title of the Mureş River Modeling Program and the full modeling report is presented in Annex 5.1:

- Development of HCN on the tailings pond surface. Simulated emissions of HCN from the Tailings Management Facility pond surface and of their dispersion into the ambient air show that the level of 400µ g/m³ hourly average and 179µ g/m³ 8hr average will not be exceeded. These HCN concentrations are only slightly over the odor threshold (0.17ppm) and much below potentially dangerous concentrations;

- Cetate Dam break and breach development. Flood modeling was in case of a break in Cetate dam was based on the design parameters obtained from the hydrometeorological study "Assessment of rainfall intensity, frequency and runoff for the Roşia Montană Project - Radu Drobot". The breach characteristics were predicted using the BREACH model, and the maximum height of the flood wave in various flow sections was modeled using the FLDWAV software. The assumptions included a total 800000 m³ discharge for one hour, when the peak of the flood hydrograph is about 4.9 m above base flow immediately below the dam and in the narrow Abrud valley 5.9-7,5 km downstream of the dam, while in the last section considered (10,5 km) water depth is about 2.3 m above base flow and the maximum flow rate 877 m³/s. Further, the broader Aries valley allows the flood wave to propagate on a significantly wider bed, which results in a highly attenuated hydrograph. These results describe the "worst case scenario" based on extreme dam break assumptions:

- Accidents during cyanide transportation. Due to the large quantities of cyanide transported (about 30t /day) the risks associated to this activity were assessed in detail using the ZHA- Zurich Hazard Analysis method. As a consequence, the optimum transport route was selected from the manufacturer to the Process Plant, e.g.;

- Cyanide transport (in solid state) will exclusively involve special SLS (Solid to Liquid System) containers, 16 tons each. The ISO compliant container will be protected by a framework with legs, which allows separation from the transport trailer for temporary storage. The wall is 5.17 mm thick, which, together with the protective framework, provides additional protection to the load in case of accident. This system is considered BAT and is currently one of the safest cyanide transportation options.

It is being mentioned the fact that the study develops the occurrence possibility of these scenarios (pages 166-171, Conclusions).

As regards the cyanides management, there is a baseline study named "Roşia Montană Golden Project, Cyanides Management Plan" prepared in compliance with the "International Management Code for the Manufacture, Transport and Use of Cyanide in the Production of Gold (International Cyanide management Institute) May 2002". S.C. Roşia Montană Gold Corporation is signatory to this code.

Bibliographical references for Chapter 7 "Risk Cases" are listed at page173-176.

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RMGC's closure estimates, which were developed by a team of independent experts with international experience and will be reviewed by third party experts, are based on the assumption that the project can be completed according to the plan, without interruptions, bankruptcy or the like They are engineering calculations and estimates based on the current commitments of the closure plan and are summarized in the EIA's Mine Closure and Rehabilitation Management Plan (Plan J in the EIA). Annex 1 of Plan J will be

updated using a more detailed approach looking at every individual year and calculating the amount of surety, which must be set aside year by year to rehabilitate the mine before RMGC is released from all its legal obligations. Most importantly, the current estimates assume the application of international best practice, best available technology (BAT) and compliance with all Romanian and European Union laws and regulations.

Closure and rehabilitation at Roşia Montană involves the following measures:

- Covering and vegetating the waste dumps as far as they are not backfilled into the open pits;
- Backfilling the open pits, except Cetate pit, which will be flooded to form a lake;
- Covering and vegetating the tailings pond and its dam areas;
- Dismantling of disused production facilities and revegetation of the cleaned-up areas;
- Water treatment by semi-passive systems (with conventional treatment systems as backup) until all effluents have reached the discharge standards and need no further treatment;
- Maintenance of the vegetation, erosion control, and monitoring of the entire site until it has been demonstrated by RMGC that all remediation targets have been sustainably reached.

While the aspects of closure and rehabilitation are many, we are confident in our cost estimates because the largest expense—that incurred by the earthmoving operation required to reshape the landscape—can be estimated with confidence. Using the project design, we can measure the size of the areas that must be reshaped and resurfaced. Similarly, there is a body of scientific studies and experiments that enable scientists to determine the depth of soil cover for successful re-vegetation. By multiplying the size of the areas by the necessary depth of the topsoil by the unit rate (also derived from studying similar earthmoving operations at similar sites), we can estimate the potential costs of this major facet of the rehabilitation operation. The earthmoving operation, which will total approximately US \$65 million, makes up 87% of closure and rehabilitation costs.

Also, the necessity of additional technological measures to stabilize and reshape the tailings surface will be discussed in the update of the Economical Financial Guarantee (EFG) estimate, which leads to an increase the provisions for tailings rehabilitation, especially if the TMF is closed prematurely and no optimized tailings disposal regime is applied. The exact figures depend on the details of the TMF closure strategy which can be finally determined only during production.

We believe that—far from being too low—our cost estimates are evidence of our high level of commitment to closure and rehabilitation. Just as a comparison, the world's largest gold producer has set aside US \$683 million (as of December 31, 2006) for the rehabilitation of 27 operations, which equates to US \$25 million on average per mine. The RMGC closure cost estimates, recently revised upward from the US \$73 million reported in the EIA based on additional information, currently total US \$76 million.

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According to Law 5/2000, regarding the approval of the Territory Arrangement Plan – 3rd Section – protected areas (“Law 5/2000”) (article 5, paragraphs 2-3), local public authorities, with the support of the competent central public authorities, had the obligation to establish the boundaries of the protection areas for the cultural heritage elements stipulated in Annex III to the above-mentioned law. This measure should have been taken within 12 months from the effective date of Law 5/2000, based on specialized studies. For this purpose, the local public authorities had to prepare the town planning documentation and its related regulations, developed and approved according to the law. This documentation must comprise the necessary protection and conservation measures for the national cultural heritage elements located in this area.

Concurrently, Law 350/2001 on the territory arrangement and urbanism stipulates the right of legal or natural persons interested in arranging the territory, to initiate the development of urbanism plans.

In accordance with these legal provisions, in 2001, RMGC initiated the preparation of these specific town-planning documentations - the General Urbanism Plan and the Zonal Urbanism Plan. These plans have been developed by Romanian certified companies and followed the legal approval procedure. The permit for the establishment of the Roşia Montană Historical Centre Protected Area was issued by the Ministry of Culture and Religious Affairs in 2002 (permits no. 61/14.02.2002 and no. 178/20.06.2002) as part of the procedure for the approval of the town planning documentation. Based on these permits, the Ministry

of Culture and Religious Affairs requested the company to develop a Zonal Urbanism Plan for the Historical Centre of Roşia Montană. Out of the 41 historical buildings in Roşia Montană, thirty-five (35) are located inside the protected area of the Roşia Montană Historical Centre.

As for the heritage elements located in the future industrial development area (6 historical buildings), these are discussed in the Industrial Zonal Urbanism Plan prepared by SC Proiect Alba SA. The regulations included in this document will contain measures for the protection of these monuments.

In conclusion, the town planning studies and the specialized studies conducted for the purpose of establishing the boundaries of the protection areas within the future mining operations perimeter are currently pending approval, in accordance with the legal provisions, by the competent institutions and committees. Please note that none of the historical houses located in the perimeter of the proposed project will be affected; on the contrary, all the 41 historic buildings will be included in a complex restoration and rehabilitation program (see the Management Plan). This program is mandatory, regardless of the implementation of the mining project, if we want to prevent these buildings from collapsing because of their advanced degradation.

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Your assertion regarding the failure to obtain an applicable urbanism certificate at the start up of the public debates and of the evaluation of the quality of the report to the environmental impact assessment, is not correct.

Thus, by the time when the public debate stage started up there was an applicable urbanism certificate and namely the urbanism certificate no. 78/26.04.2006 issued by Alba County Council. This certificate was obtained prior to the evaluation stage of the quality of the report to the environmental impact assessment which started up once the EIA was submitted to the Ministry of Environment and Water Management on the 15th May 2006.

For better understanding the applicable legal provisions and the facts developed within the mining project of Roşia Montană zone we would like to make several comments:

- The procedure for issuing the environmental permit for Roşia Montană project started up on the 14th December 2004 by submitting the technical memorandum and the urbanism certificate no.68/26.August 2004 (certificate applicable by that time). S.C. Roşia Montană Gold Corporation S.A. (RMGC) applied for and obtained a new urbanism certificate no.78/26.04.2006 issued by Alba County Council for the entire Roşia Montană Project applicable on the date of the EIA Report submission (15th May 2006) and prior to the public debate start up (June 2006);
- The Section 1 of the urbanism certificate no.78 of 26th 04.2006 entitled Work construction, position 10 – “Processing plant and associated constructions “ – including the tailing management facility which existence is compulsory for the processing plant running. The Tailing management facility is also specified on the layout plans which are integral part of the urbanism certificate and they were sealed by Alba County Council so that they cannot be modified;
- The Urbanism Certificate is an informative document and its goal is only to inform the applicant about the legal, economic and technical regime of the existing lands and buildings and to establish the urbanism requirements and the approvals necessary to obtain the construction permit (including the environmental permit) as per art.6 of Law 50/1991 referring to the completion of construction works, republished and art 27 paragraph 2 of the Norms for the application of Law 50/1991 – Official Journal 825 bis/13.09.2005).

As it is an informative document, it does not limit the number of certificates an applicant may obtain for the same land plot (art. 30 of Law no. 350/2001 regarding the territorial planning and urbanism).

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Introduced as part of the Environmental Impact Assessment Report Study (EIA), the Roşia Montană Foundation is shifting in focus. The Community Sustainable Development Plan activities initially conceived as coming under the Foundation umbrella (business oriented activities: business incubator, business advisory center, micro-finance facility, as well as social oriented activities: education and training center) have been advanced independently, via partnerships and with community participation in

decision-making – a preferable way to advance social and economic development programs.

Going forward, the Foundation will take shape around preservation, patrimony and cultural heritage issues, with its final form determined in consultation with the community.

In terms of the philosophy that guides the company's Sustainable Development efforts, the Roșia Montană Gold Corporation (RMGC) sees itself not as principal provider, but as a partner. Community involvement is considered the starting point; over time, as the community builds the capacity to maintain programs in its own right, the company will turn over control of currently-established programs to the community and its institutions.

For more information, please see Roșia Montană Sustainable Development and the Roșia Montană Project – annex 4.

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We underline the fact that your statement is false. The General Urbanism Plan for the Roșia Montană commune, endorsed in 2002 allows the development of Roșia Montană project, as it has been presented during the public consultations.

Concurrently, pursuant to the provisions of art. 41, paragraph 2, from the Mining Law no.85/2003, the authorities from the local administration have the liability to adjust and/or update the territory arrangement plans and the general urbanism plans, in order to allow the development of all operations necessary for the development of mining activities.

RMGC has also initiated the preparation of two zonal urbanism plans: Zonal Urbanism Plan Modification – Roșia Montană Industrial Area and Zonal Urbanism Plan – Roșia Montană Historical Area. The first urbanism plan is required by the urbanism certificate no.78/26.04.2006, which updates the Zonal Urbanism Plan for the Industrial Area approved in 2002. As far as the historical area is concerned, its Zonal Urbanism Plan is required by the General Urbanism Plan approved also in 2002. Both urbanism plans are pending approval and have been subject to public consultations.

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An engineered liner is included in the design of the Tailings Management Facility (TMF) basin. Specifically, the Roșia 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; and
- 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 Roșia 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 (1×10^{-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 (1×10^{-6} cm/sec) cut off wall within the foundation of the starter dam to control seepage;
- A low permeability (1×10^{-6} 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.

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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.

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Information regarding our Environmental Financial Guarantee (“EFG”) is fully discussed in the section of the Environmental Impact Assessment titled “Environmental and Social Management and System Plans” (Annex 1 of the subchapter titled “Mine Rehabilitation and Closure Management Plan”). The EFG is updated annually and will always reflect the costs associated with reclamation. These funds will be held in protected accounts at the Romanian state disposal.

Roşia Montană Gold Corporation (“RMGC”) has invested significant time, energy, and resources assessing the viability of a mining project in the valley of Roşia Montană. This assessment has led RMGC to conclude that Roşia Montană presents an attractive long-term development opportunity – an opinion confirmed by a variety of lending institutions, who have completed detailed reviews of the project’s design and profitability. We have every confidence that we will see the project through to the end of its projected 16-year lifespan, regardless of any fluctuations in the market price of gold.

In Romania, the creation of an EFG is required to ensure adequate funds are available from the mine operator for environmental cleanup. The EFG is governed by the Mining Law (no. 85/2003) and the National Agency for Mineral Resources instructions and Mining Law Enforcement Norms (no. 1208/2003).

Two directives issued by the European Union also impact the EFG: the Mine Waste Directive (“MWD”) and the Environmental Liability Directive (“ELD”).

The Mine Waste Directive aims to ensure that coverage is available for 1) all the obligations connected to the permit granted for the disposal of waste material resulting from mining activities and 2) all of the costs related to the rehabilitation of the land affected by a waste facility. The Environmental Liability Directive regulates the remedies, and measures to be taken by the environmental authorities, in the event of environmental damage created by mining operations, with the goal of ensuring adequate financial resources are available from the operators for environmental cleanup efforts. While these directives have yet to be transposed by the Romanian Government, the deadlines for implementing their enforcement mechanisms are 30 April 2007 (ELD) and 1 May 2008 (MWD) – thus before operations are scheduled to begin at Roşia Montană.

RMGC has already begun the process of complying with these directives, and once their implementation instruments are enacted by the Romanian Government, we will be in full compliance.

Each EFG will follow detailed guidelines generated by the World Bank and the International Council on Mining and Metals.

The current projected closure cost for Roşia Montană is US \$76 million, which is based on the mine operating for its full 16-year lifespan. The annual updates will be completed by independent experts, carried out in consultation with the NAMR, as the Governmental authority competent in mining activities field. These updates will ensure that in the unlikely event of early closure of the project, at any point in time, each EFG will always reflect the costs associated with reclamation. (These annual updates will result in an estimate that exceeds our current US \$76 million costs of closure, because some reclamation activity is incorporated into the routine operations of the mine.)

A number of different financial instruments are available to ensure that RMGC is capable of covering all of the expected closure costs. These instruments, which will be held in protected accounts at the Romanian state disposal, include:

- Cash deposit;
- Trust funds;
- Letter of credit;
- Surety bonds;
- Insurance policy.

Under the terms of this guarantee, the Romanian government will have no financial liability in connection with the rehabilitation of the Roşia Montană project.

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The Security Report has been made available for public access by being posted at the following Internet address http://www.mmediu.ro/dep_mediu/rosia_montana_securitate.htm as well as through the printed version which could have been found at several information locations established for public hearings.

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The Report on the Environmental impact assessment study (EIA) considered all alternative developments, including the option of not proceeding with any project – an option that would generate no investment, allowing the existing pollution problems and socio-economic decline to continue (Chapter 5 – *Assessment of Alternatives*).

The report also considered alternative developments – including agriculture, grazing, meat processing, tourism, forestry and forest products, cottage industries, and flora/fauna gathering for pharmaceutical purposes – and concluded that these activities could not provide the economic, cultural and environmental benefits brought by the Roşia Montană Project (RMP).

Chapter 5 also examines alternative locations for key facilities as well as alternative technologies for mining, processing and waste management, in line with best practice and as compared against published EU best available techniques (BAT) documentation.

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The impact on protected flora and fauna will exist only locally, but this impact will not lead to the loss of any specie. The Project has been designed even from the beginning to fully comply with the requirements and norms imposed by Romanian and European environmental legislation.

The company believes the fact that the project impact on environment remains significant, especially because covers previous impacts. But, the investments required to ecologically restore/rehabilitate Roşia Montană area in order to address current complex environmental issues, are only achievable following the implementation of some economic projects that will generate and warrant implementation of some direct and responsible actions as a component of base principles of sustainable development concepts. Clean processes and technologies may be developed only in the presence of a solid economic environment fully compliant with the environment that will also resolve previous impacts of anthropic activities.

The base documents of the Project are in fact an unbiased reason of its implementation, considering the highly complex environmental commitment within Roşia Montană area.

Some of the Roşia Montană species that are under a certain protection status stand for an insignificant percentage of the scale of populations estimated at national level. The characterization of species from their habitat point of view exists in the species tables presented in the Biodiversity Chapter of the EIA Report and its annexes, although this is not a requirement imposed by the Habitats Directive. Due to their large volume of information, the annexes of chapter 4.6 Biodiversity can be found in the electronic version of the EIA disclosed by the company both in Romanian and English through approx. 6,000 DVD/CD copies, being accessible on the company website, and on the websites of Ministry of Environment and Water Management, local and regional environmental protection agencies of Alba, Sibiu, Cluj, etc.

From practical point of view, the low value of conservation of the impact area is also indirectly emphasized by the fact that there is no proposal to designate the area a SPA (aviafaunistic special protected area) and

by the denial as unfounded of the proposal to designate the area as a pSCI area (sites of community importance).

Taking all these into account, we believe that the proposed Project is compliant with the provisions of EU Directive no. 92/43 Habitats[1], and EU Directive no. 79/409 Birds[2] respectively, especially because within Biodiversity Management Plan, Plan H, several active and responsible measures are provided to reconstruct/rehabilitate several natural habitats, pursuant to the provisions of the same documents [3].

References:

[1] art.3, 2nd paragraph, Each Member State shall contribute to the creation of Natura 2000 (network) in proportion to the representation within its territory of the natural habitat types and the habitats of species referred to in paragraph 1. To that effect each Member State shall designate, in accordance with Article 4, sites as special areas of conservation taking account of the objectives set out in paragraph 1.

art.4, 1st paragraph. On the basis of the criteria set out in Annex III (Stage 1) and relevant scientific information, each Member State shall propose a list of sites indicating which natural habitat types in Annex I and which species in Annex II that are native to its territory the sites host. For animal species ranging over wide areas these sites shall correspond to the places within the natural range of such species which present the physical or biological factors essential to their life and reproduction. For aquatic species which range over wide areas, such sites will be proposed only where there is a clearly identifiable area representing the physical and biological factors essential to their life and reproduction. Where appropriate, Member States shall propose adaptation of the list in the light of the results of the surveillance referred to in Article 11. [...]

2nd paragraph.[...] Member States whose sites hosting one or more priority natural habitat types and priority species represent more than 5 % of their national territory may, in agreement with the Commission, request that the criteria listed in Annex III (Stage 2) be applied more flexibly in selecting all the sites of Community importance in their territory.[...]

Art. 6, 4th paragraph. If, in spite of a negative assessment of the implications for the site and in the absence of alternative solutions, a plan or project must nevertheless be carried out for imperative reasons of overriding public interest, including those of a social or economic nature, the Member State shall take all compensatory measures necessary to ensure that the overall coherence of Natura 2000 is protected. It shall inform the Commission of the compensatory measures adopted.

Art. 16. Provided that there is no satisfactory alternative and the derogation is not detrimental to the maintenance of the populations of the species concerned at a favourable conservation status in their natural range, Member States may derogate from the provisions of Articles 12, 13, 14 and 15 (a) and (b):[...]

- in the interests of public health and public safety, or for other imperative reasons of overriding public interest, including those of a social or economic nature and beneficial consequences of primary importance for the environment;

[2] Art.4, 1st paragraph. The species mentioned in annex 1 shall be the subject of special conservation measures concerning their habitat in order to ensure their survival and reproduction in their area of distribution. [...]

Trends and variations in population levels shall be taken into account as a background for evaluations. Member states shall classify in particular the most suitable territories in number and size as special protection areas for the conservation of these species, taking into account their protection requirements in the geographical sea and land area where this directive applies.

[3] Directive 92/43 Habitats, art. 2, 2nd paragraph; Directive 79/409 Birds, art. 3, 2nd paragraph, letter c.

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This statement is ungrounded, because the environmental impact assessment (EIA) process has included preliminary cumulative estimates for stationary motorized equipment and linear (vehicular) sources were

prepared in order to provide an initial understanding of the potential cumulative noise and vibration impacts from background and Roşia Montană Project sources, and to guide future monitoring and measurement activities as well as the selection of appropriate Best Management Practices/Best Available Techniques for further mitigation of the potential noise and vibration impacts from Project activities. These preliminary estimates apply to major construction activities, as well as the operation and decommissioning/closure of the mine and process plant. They are documented as data tables and isopleth maps for major noise-generating activities in selected, representative Project years; see **Tables 4.3.8 through 4.3.16** and **Exhibits 4.3.1 through 4.3.9**. All these details related to the applied assessment methodology, the input data of the dispersion model, the modeling results and the measures established for the prevention/mitigation/elimination of the potential impact for all project stages (construction, operation, closure) are included in Chapter 4, Section 4.3 Noise and Vibrations of the EIA Report.

Project Years 0, 9, 10, 12, 14, and 19 were selected for modeling because they are considered to be representative of the most significant levels of noise-generating activity. They are also the same years used for air impact modeling purposes in Section 4.2, as air and noise impacts share many of the same sources or are otherwise closely correlated. In order to more accurately reflect potential receptor impacts, all of these exhibits integrate the background traffic estimates discussed in Section 4.3.6.1.

The Project site plan and process plant area and facility drawings were used to establish the position of the noise sources and other relevant physical characteristics of the site. Receptor locations were established using background reports and project engineering and environmental documentation provided by RMGC. With this information, the source locations and receptor locations were translated into input (x, y, and z) co-ordinates for the noise-modeling program.

Tables 4.3.8 through 4.3.16 and **Exhibits 4.3.1 through 4.3.9** present the average maximum noise values likely to be experienced by the receptor community over all Project phases after incorporation of a variety of initial mitigation measures designed specifically to reduce the impacts associated with mobile and stationary machinery sources. The influence of non-mining related background (primarily traffic) noise is also included.

To evaluate the sound levels associated with haul trucks and other mobile sources crossing the site carrying excavated ore, waste rock, and soil, a noise analysis program based on the (U.S.) Federal Highway Administration's (FHWA) standard RD-77-108 [1] model was used to calculate reference noise emissions values for heavy trucks along the project roadways. The FHWA model predicts hourly L_{eq} values for free-flowing traffic conditions and is generally considered to be accurate within 1.5 decibels (dB).

The model is based on the standardized noise emission factors for different types and weights of vehicles (e.g., automobiles, medium trucks, and heavy trucks), with consideration given to vehicle volume, speed, roadway configuration, distance to the receiver, and the acoustical characteristics of the site. The emission levels of all three vehicle types increase as a function of the logarithm of their speed.

To evaluate the sound sources from the proposed mine processing facility and the semi-stationary material handling equipment (at the ore extraction, waste rock and soil stockpiling areas), a proprietary computerized noise prediction program was used by AAC to simulate and model the future equipment noise emissions throughout the area. The modeling program uses industry-accepted propagation algorithms based on the following American National Standards Institute (ANSI) and International Organization for Standardization (ISO) standards:

- *ANSI S1.26-1995 (R2004), Method for the Calculation of the Absorption of Sound by the Atmosphere;*
- *ISO 9613-1:1993, Acoustics -- Attenuation of sound during propagation outdoors-- Part 1: Calculation of the absorption of sound by the atmosphere;*
- *ISO 9613-2:1996, Acoustics -- Attenuation of sound during propagation outdoors -- Part 2: General method of calculation;*
- *ISO 3891:1978, Acoustics -- Procedure for describing aircraft noise heard on the ground.*

The calculations account for classical sound wave divergence (i.e., spherical spreading loss with adjustments for source directivity from point sources) plus attenuation factors due to air absorption, minimal ground effects, and barriers/shielding.

This model has been validated by AAC over a number of years via noise measurements at several operating industrial sites that had been previously modeled during the engineering design phases. The comparison of modeled predictions versus actual measurements has consistently shown close agreement; typically in the range of 1 to 3 dB (A).

References:

[1] FHWA Highway Traffic Noise Prediction Model; see Federal Highway Administration Report Number FHWA-RD-77-108, USA, Washington, D.C., 1978.

A detailed presentation of blasting technology can be found in the annex 7.1 - Proposed blasting technology for the operational phase of Roşia Montană Project.

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The partnership between Gabriel Resources and Regia Autonomă a Cuprului Deva (currently, CNCAF Minvest SA) has been established based on Law no. 15/1990 on the reorganization of the state owned companies as autonomous directions and trade companies, published in the Official Gazette, Section I, no. 98/08.08.1990, as subsequently amended and supplemented. Art. 35 of this law provides the possibility of the regies autonomous to enter into partnerships with legal third parties, Romanian or foreign, for the purpose of setting up new trading companies.

Roşia Montană Gold Corporation SA was set up in 1997, according to the legal provisions in force as at that time, the setting up being made by observing all the conditions imposed by Company Law no. 31/1990 and Trade Register Law no. 26/1990, in regard of the setting up of the joint stock companies with mixed capital.

We underline that the Articles of Associations of Roşia Montană Gold Corporation SA, representing the result of the parties agreement in regard of the terms and conditions under which the partnership between the Romanian state and investor takes place represents a public document, being included in the category of documents which, as per Law no. 26/1990 on the Trade Register, are published in the Romanian Official Gazette and for which the Trade Register is obliged to issue, on the expense of the persons submitting a request, certified copies.

As for the agreement concerning the setting up of the mixed company together with Gabriel Resources Ltd., this has been expressed by the Ministry of Industry and Trade, the conditions imposed by the setting up of the mixed company being the following: (i) ensuring of the jobs at the level existing upon the conclusion of the agreement concerning the setting up of the mixed company; (ii) the expenses incurred by the fulfillment of the exploration stage should be fully supported by Gabriel; (iii) the obtaining of the approval from the ANRM by the Copper Autonomous Direction Deva and (iv) the observance of all legal provisions in force concerning the setting up of the mixed companies with foreign partners. These conditions have been fully complied with as at the setting up of the company and during the development of its activity.

We also specify that the establishing of the shareholders' quotas to the benefits and losses of Roşia Montană Gold Corporation SA has been made by considering their contribution quota to the company's share capital. The current percentage of 80% for Gabriel Resources Ltd. and of 19.31% for CNCAF Minvest SA resulted from the initial contribution and the subsequent contributions of the shareholders to the company's share capital, in consideration also of Gabriel Resources Ltd. advancing all expenses and costs related to the development-exploitation and permitting of the Roşia Montană Mining Project.

The provisions of the Articles of Associations of Roşia Montană Gold Corporation SA on the necessary majority and quorum conditions for the decision-making process within the General Shareholders Meeting and the quotas to the benefits and losses of the company are taken from Law no. 31/1990, and no derogation exists in regard of this aspect.

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This claim is not true; the Urbanism Plan has been prepared with public consultation.

Roşia Montană Gold Corporation SA (RMGC) has requested and obtained from Alba County Council the Urbanism Certificate no. 78 of 26.04.2006, for the entire Roşia Montană mining project, including the tailings management facility. The Urbanism Certificate also stipulated the preparation of a Zonal Urbanism Plan, to reflect all changes made to the Roşia Montană Project, following the public consultations and debates organized in relation to this project, and the consultations with the permitting authorities. This plan, entitled “Modification of the Zonal Urbanism Plan, Roşia Montană Industrial Area”, was prepared and subjected to public debate in June 2006 in accordance with the provisions of Order no.176/N/2000 issued by the Ministry of Public Works and Territory Development for the approval of the technical regulations “Guidelines regarding the methodology applied for the preparation and framework content of the Zonal Urbanism Plan” and, at present, it is pending approval.

Concerning the Roşia Montană General Urbanism Plan approved in 2002, such plan was prepared in parallel with the Zonal Urbanism Plan of 2002, all the provisions of the General Urbanism Plan being also included in the Zonal Urbanism Plan. Also, the approval procedure related to the two urbanism plans was carried out in parallel.

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Preventive archaeological researches within the Roşia Montană mining project area have been undertaken based on specific techniques, specifically trial trenches in all accessible areas that are suitable for human habitation, taking into account the bibliographical information and the observations recorded during the archaeological survey campaigns, the geophysical studies and the analyses of the photogrammetric flights. In addition, surface investigations were undertaken, where appropriate.

The archaeological researches at Roşia Montană covered a large surface and focused on the areas known to have archaeological potential. THEREFORE, ALL AREAS THAT HAVE BEEN ARCHAEOLOGICALLY DISCHARGED HAD BEEN PREVIOUSLY INVESTIGATED. All research programs, beginning with the 2004 campaign, have been undertaken in full compliance with the current legal requirements, i.e. Ministerial Order no. 2392 of 6 September 2004 on the establishment of the Archaeological Standards and Procedures by the Ministry of Culture and Religious Affairs.

The proposed gold mining project at Roşia Montană has raised a series of issues related to the rescue of the historical-archaeological heritage within the area, as well as issues related to its scientific development and also the enhancement of heritage within a museum. Given the complex difficulties encountered in this respect, the Ministry of Culture and Religious Affairs decided to initiate the “Alburnus Maior” National Research Program.

The company’s role was to provide the necessary financial resources for the assessment, research and enhancement of the archaeological remains, in full compliance with the Romanian current legislation. The development of the research and of the archaeological discharge works has been conducted through specific means and methodologies that have been adjusted to the realities of every site researched, in our case, Roşia Montană. They consisted in:

- Archives studies;
- Archaeological surveys; trial trenches;
- aerial reconnaissance/survey and aerial photo interpretation ; high resolution satellite images;
- mining archaeology studies; underground topography and 3D modeling;
- geophysical surveys;
- extensive archaeological investigations in the areas with an identified archaeological potential- this implied carrying out archaeological excavations;
- Interdisciplinary studies- sedimentology, archaeo-zoology, comparative palynology, archaeo-metallurgy, geology, mineralogy;
- Radiocarbon dating and dendrochronology;
- This research and its results were included in an integrated database;
- traditional and digital archaeological topography and development of the GIS project; generate a photo archive- both traditional and digital;
- restoration of artifacts;
- an inventory and a digital catalogue of the artifacts;
- studies conducted by specialists in order to enhance the research results - publication of

monographs/scientific books and journals, exhibitions, websites, etc.

All the preventive archaeological researches undertaken at Roşia Montană since 2000 have been carried out as part of a complex research program; permits for preventive archaeological excavations being issued in compliance with the current legislation. These archaeological investigations have been undertaken by representatives of 21 specialized institutions from Romania and 3 others from abroad, under the scientific coordination of the Romanian National Museum of History. All archaeological researches have been conducted in full compliance with the existing legislation. The investigations undertaken during each archaeological research campaign have been approved by the Ministry of Culture and Religious Affairs based on the Annual Archaeological Research Plan approved by the National Commission of Archaeology.

Under the current legislation (Ministerial Order no. 2392 of 6 September 2004 on the establishment of the Archaeological Standards and Procedures by the Ministry of Culture and Religious Affairs) the archaeologists who have conducted the research may ask that an archaeological discharge certificate be granted. Based on a complex research program, the archaeologists prepare comprehensive documentation with regard to the researched area. Upon consideration of the submitted documentation, the National Commission of Archaeology makes a decision as to whether to recommend or not the granting of the archaeological discharge certificate. In the case of the research conducted in the period 2001-2006, the archaeological discharge certificate was issued directly by the Ministry of Culture and Religious Affairs or by its local agencies.

Preventive archaeological researches at Roşia Montană have allowed the research of five Roman cremation necropolis (Tău Corna, Hop-Găuri, Țarina, Jig - Piciorag and Pârâul Porcului – Tăul Secuilor), two funerary areas (Carpeni, Nanului Valley), sacred areas (Hăbad, Nanului Valley), habitation areas (Hăbad, Carpeni, Tăul Țapului, Hop), the most significant being the Roman structures on the Carpeni Hill and the circular funerary monument at Tău Găuri. In addition, for the first time in Romania, surface investigations have been paralleled by underground investigations of Cetate, Cârnic, Jig and Orlea massifs, with important discoveries in the Piatra Corbului, area, Cătălina-Monuleşti gallery and the Păru Carpeni mining sector.

The research consisted of aerial photo interpretation, archaeological magnetometric studies, electrical resistivity, palynology, sedimentology, geology studies, radiocarbon and dendrochronology dating. For a better management of the research units and of the archaeological findings, data bases were used, including text and photographs-among which 4 satellite images (an archive satellite image type SPOT Panchromatic (10m) from 1997; 2 satellite images LANDSAT 7 MS (30 m), dating from 2000 and 2003; a satellite image with priority programming SPOT 5 SuperMode color (2,5 m resolution-19 July 2004); all data have been included in a comprehensive GIS program, a first in the Romanian archaeological research.

In the case of archaeological monuments that are located close to industrial facilities, plans have been redesigned to ensure that the archaeological remains in question will not be affected. Where appropriate, the archaeological monument was preserved in situ and restored, i.e. the circular funerary monument at Hop-Găuri (see The "Alburnus Maior" monograph series, volume II, Bucharest, 2004). Another example in this respect is the Carpeni Hill, designated an "archaeological " reserve, and the Piatra Corbului area. In 2004, after being thoroughly investigated, these areas have been included on the List of Historic Monuments. Add to this the areas where ancient mining remains will be preserved, such as the Cătălina Monuleşti gallery and the mining sector Păru Carpeni, as well as the protected area Roşia Montană Historic Center, including a number of heritage assets (35 historic monument houses).

We emphasise in this respect that the identified and researched structures have been published in preliminary form in the Archaeological Research Chronicle of Romania, after every archaeological research campaign, as well as in volume 1 of the Alburnus Maior monographic series. We mention here the areas where Roman habitation structures have been identified and researched, as well as the references to be consulted for further information: Hop-Găuri, Carpeni, Tăul Țapului (CCA 2001 (2002), p. 254-257, no. 182; 261-262, nr. 185; 264-265, no. 188; 265-266, no. 189. Alburnus Maior I, 2003, p. 45-80; 81-122; 123-148; CCA 2001 (2002), 257-261; CCA 2003 (2004) ,280-283; Alburnus Maior I, 2003, p. 387-431, 433-446, 447-467).

For further details related to the applicable legal framework, the responsibilities of the Project titleholder, or for a detailed description of the preventive archaeological researches undertaken to date and of the Cultural Heritage Management Plans, please see Annex called "Information on the Cultural heritage of

Roşia and Related Management Aspects”. In addition, the annex includes supplementary information with regard to the result of the researches undertaken as part of the “Alburnus Maior” National Research Program between 2001 and 2006.

In conclusion, the area mentioned by the questioner has been researched in accordance with the Romanian legal requirements, as well as with European standards and practices in the field.

Note that the type of research undertaken at Roşia Montană, known as preventive/rescue archaeological research, as well as other related heritage studies, are done everywhere in the world in close connection with the economic development of certain areas. Both the costs for the research and for the enhancement and maintenance of the preserved areas are provided by investors, in a public-private partnership set up in order to protect the cultural heritage, as per the provisions of the European Convention on the Protection of the Archaeological Heritage (Malta-1992) [1].

References:

[1]The text of the Convention is available at the following address:

<http://conventions.coe.int/Treaty/Commun/QueVoulezVous.asp?NT=143&CM=8&DF=7/6/2006&CL=ENG>

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In 2000, in the context of the proposal of a new mining project in the Roşia Montană area, the Ministry of Culture and Religious Affairs approved a series of studies to be conducted in order to research the archaeological and architectural heritage of the area. And at the end of that year, the Design Centre for National Cultural Heritage (now the National Institute for Historical Monuments) presented the preliminary results of these researches to the National Commission for Historical Monuments and of the National Commission of Archaeology. Based on these results, in 2001, the Ministry of Culture and Religious Affairs initiated the “Alburnus Maior” National Research Program (the Order no. 2504 / 07.03.2001 of the Minister of Culture and Religious Affairs) in compliance with the Law 378/2001 (as subsequently amended by Law 462/2003 and by Law 258/2006 and Law 259/2006). Thus, since 2000, the Ministry of Culture and Religious Affairs – directly or through its subordinate institutions - has fulfilled its duties with regard to the management of the issues related to Roşia Montană’s heritage.

Thus, the preventive archaeological researches have been conducted by the representatives of 21 national institutions and 3 others from abroad under the scientific coordination of the National Museum of History of Romania. They have been carried out based on the annual approval of the National Commission of Archaeology of the Ministry of Culture and Religious Affairs. In accordance with the legislation in force, this research program is carried out with the financial support provided by RMGC (the company that plans to expand and continue to mine the gold-silver deposit in Roşia Montană). Thus, large-scale preventive investigations have been conducted or are underway in the RMP impact area. A proposal will be made based on the results thereof either for the archaeological discharge of some researched perimeters from the project perimeter or the preservation *in situ* of certain representative structures and monuments, in compliance with the legislation in force. In the case of the areas proposed for conservation and the ones for which the archaeological discharge measure was applied, the decision was made based on the surveys conducted by specialists and on the analysis of the National Commission of Archaeology. In the period 2000-2005, the mining project underwent a series of modifications designed to promote the implementation of the decision regarding the conservation of the local heritage. Examples of these include: extending the duration of the field investigations on several years (e.g. Ţarina, Pârâul Porcului, Orlea) and changing the location of some elements of infrastructure in order to allow the conservation of the archaeological remains found in the Carpeni, Tău Găuri and Pietra Corbului areas.

The architectural and town-planning surveys have been conducted, in accordance with the legislation in force, by companies certified by the Ministry of Culture and Religious Affairs, while the town-planning documentations drafted by these companies and the restoration and conservation works undertaken so far have been approved by the National Commission for Historical Monuments. Thus, the town-planning documentations have been approved and implemented in accordance with current legislation, and the company has agreed to these decisions and modified the mine development plans accordingly:

Extensive ethnographic research was conducted in the Roşia Montană-Abrud-Corna area in the period

2001-2004 coordinated by a team of specialists for the Romanian Village Museum „Dimitrie Gusti” (a National Museum directly under the coordination of the Ministry of Culture and Religious Affairs). Moreover, a broad series of oral history interviews was conducted in the period 2001-2002 by the Romanian Radio Broadcasting Company through the „Gheorghe Brătianu” Oral History Centre, Bucharest (SRR - CIO).

In compliance with the requirements of the Ministry of Environment and Waters Management and the Ministry of Culture and Religious Affairs, specific management plans have been drawn up for the management and conservation of the heritage remains from the Roşia Montană area, in the context of the implementation of the mining project. These plans have been included in the documentation prepared for the Report on the Environmental Impact Assessment Study. (see EIA Report, volume 32-33, *Plan M-Cultural Heritage Management Plan*, part I –*Management Plan for the Archaeological Heritage from Roşia Montană Area*; part II-*Management Plan for the Historical Monuments and Protected Zone from Roşia Montană*; part III- *Cultural Heritage Management Plan*).

These management plans comprise detailed presentations of the obligations and responsibilities regarding the protection and conservation of the heritage remains from the Roşia Montană area, which the company has assumed in the context of the implementation of the mining project, according to the decision of the central government. These heritage remains include: archaeological remains above and under the ground, historic buildings, protected areas, intangible heritage assets, cultural landscape items, etc. In this context, it should be noted that besides the works for the protection and preservation of the archaeological heritage, works are being carried out for the rehabilitation and conservation of the protected area Historical Centre Roşia Montană (comprising 35 historic buildings, and projects for the restoration of 11 of these buildings are currently being drafted), Tăul Mare, Tăul Brazi and Tăul Anghel as well as remains of the surface mining works from the Vaidoia area and the creation of a modern museum dedicated to the history of mining in the Apuseni Mountains area. This museum will be established in the coming years and it will include exhibitions of geology, archaeology, industrial and ethnographic heritage as well as an underground section organized around the Cătălina Monuleşti gallery.

Moreover, representatives of the Directorate for Culture, Religious Affairs and National Cultural Heritage of Alba County have visited Roşia Montană many times in order to collect information and to check the situation. The same administrative body was the intermediary for the specific stages of acquisitions of historic buildings made by RMGC. The Ministry of Culture and Religious Affairs expressed its pre-emption right regarding the acquisition of these buildings.

Note that apart from the obligations undertaken by RMGC as regards the protection and conservation of the archaeological remains and historical monuments, there are a whole series of obligations, which rest with the local public authorities from Roşia Montană and from Alba County and with the central public authorities, namely the Romanian Government.

These aspects are further detailed in the Cultural Heritage Management Plans included in the EIA Report (see EIA Report, volume 32, *Management Plan for the Archaeological Heritage from Roşia Montană Area*, pages 21-22, 47, 52-53, 66-67-Romanian version/ 22-24; 47; 55-56; 71-72 English version) and the EIA Report, volume 33- *Management Plan for the Historical Monuments and Protected Zone from Roşia Montană* pages 28-29, 48-50, 52-53, 64-65, page 98 – Annex 1- Romanian version/ 28-29; 47-50; 51-53; 65-66; 103- Annex 1- English version).

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No. to identify the observations received from the public	No. 114326/25.08.2006 Same as: No. 114327/25.08.2006, No. 114328/25.08.2006, No. 114329/25.08.2006, No. 114330/25.08.2006, No. 114331/25.08.2006, No. 114332/25.08.2006, No. 114333/25.08.2006, No. 114334/25.08.2006, No. 114335/25.08.2006, No. 114336/25.08.2006, No. 114337/25.08.2006, No. 114338/25.08.2006, No. 114339/25.08.2006, No. 114340/25.08.2006, No. 114341/25.08.2006, No. 114342/25.08.2006, No. 114343/25.08.2006, No. 114344/25.08.2006, No. 114345/25.08.2006, No. 114346/25.08.2006, No. 114347/25.08.2006, No. 114348/25.08.2006, No. 114349/25.08.2006, No. 114350/25.08.2006, No. 114351/25.08.2006, No. 114352/25.08.2006, No. 114353/25.08.2006, No. 114354/25.08.2006, No. 113611/25.08.2006
Proposal	<p>The questioner opposes the mining project at Roşia Montană and makes the following observations and comments:</p> <ul style="list-style-type: none"> -In EIA there are no presented all the possible risks derived from this project; -The Project poses a threat for protected flora and fauna; -There is no liner proposed for the tailings pond; -The proposed waste deposits will be not constructed in conformity with the Romanian legislation in force (at least 1000 m towards the inhabited areas); -Financial guarantees for the closure and post-closure periods were not fixed. <p>SEE THE CONTENT OF THE TYPE 5 CONTESTATION</p>
Solution	<p>It is the nature of risk that it can be mitigated and diminished; it cannot be made to disappear. In order to put this into context, the common action of walking on the street or developing everyday activities have an accident potential. This accident potential is twice higher than within the framework of industrial activities that use hazardous substances.</p> <p>A major chapter of the EIA report was dedicated to the identification of risks for the project. In addition, this chapter provides a discussion of the mitigation measures for each risk and how they were incorporated into the project designs. It is recognized that risk identification is difficult due to the number and diversity of events that can be envisioned. The EIA report cannot assume to cover all of he potential risks associated with the project. However, it has attempted to identify and address the most relevant risks. The extent of risk assessment and the intensity of the prevention and mitigation measures should be proportional to the risk involved and therefore only the risks that have been considered important have been assessed in detail. Each is described below.</p> <p>In the larger sense, the entire EIA report is focused on the assessment of impacts and their associated mitigation. Specifically, Chapter 4 of the EIA presents that impact assessment of the project. The following discussion presents a summary of the impact discussed in the EIA.</p> <p>As far as natural and technological risks assessments are concerned, Chapter 7, “Risk Cases”, from the Report on Environmental Impact Assessment, emphasizes the fact that safety and prevention measures, the implementation of the environmental management and risk systems are mitigating the consequences to acceptable levels as compared to the most restrictive norms, standards, the best practices or national and international recommendations in the field. The risk level has been established as moderate and so, socially acceptable. The extension of the risk assessment and the intensity of the prevention and mitigation measures of the consequences should be proportionate to the risk involved. Selection of a specific mitigation technique is depends on the analyzed accident scenario.</p> <p>More detailed assessments are conducted for accident scenarios that, based on the qualitative assessment are found to be potentially major, of probability more than 10^{-6} (reduced recovery periods of 1/1,000,000) meaning that they could have major consequences therefore, elevated associated risk, a higher risk level than 9 to 12 (on a scale of 1-25). To put this in context, simply living in southern Florida rates a 25 on the risk scale.</p> <p>A global assessment of the risks associated with the Roşia Montană Project is obtained by the quick environmental and health risk assessment methodology initially developed by the Italian Ministry of the</p>

Environment and the World Health Organization. Natural hazard and risk identification and analysis presents key data and information in assessing potential technological accidents. Thus:

- In designing the Tailings Management Facility, the design parameters were chosen to fully cover the characteristic seismic risk of the area. These seismic design parameters adopted for the TMF and other facilities on the proposed site result in a safety factor much greater than the minimum accepted under the Romanian and European design standards for such facilities;

- in the sector physically impacted by the Project, the risk of floods will remain very low due to the small catchments (controlled by the Roșia and Corma Streams) the area affected by the operation, and the creation of containment, diversion and drainage hydro-technical structures for storm waters on the site, and in the Abrud catchment in general;

- risks caused by meteorological events have been reviewed and used in assessing the hazards of the affected technological processes.

From the analysis of morphometrical parameters and their correlation with other sets of information on the natural slopes on and near the site shows that the (qualitatively estimated) landslide occurrence risk is low to moderate and its consequences will not cause major impacts on the structural components of the Project.

There is no significant risk associated with resource depletion. Mining activities are planned judiciously, so as to extract only the profitable gold and silver resources and only the necessary construction rock for the Project. The management of the mining concession site will minimize reserve "sterilization" (limitation of future access to the reserves).

In assessing technological hazards and risks, the quantity of hazardous substances on the site was calculated as a total and by category, as provided by the *Notification Procedure* approved by Ministry of Agriculture, Forestry, Water and Environment (MAFWE) Order 1084/2003. Based on an evaluation of hazardous substances in stock on the Project site in relation to the relevant quantities provided by the Government Decision 95/2003 which transposes the Seveso Directive, the Project ranges between the upper and the lower limits, and therefore S.C. Roșia Montană Gold Corporation S.A. is required to prepare a Report on Environmental Impact Assessment Study to be sent to the local environmental authority and the local civilian protection authority a *Safety Report* on its operations to prevent major accident risks.

In assessing the consequences of major accidents involving dangerous substances, physical-mathematical models accepted internationally and especially at EU level, and the current version of the SLAB (Canada) software have been used, the latter for the atmospheric dispersion of denser than air gases, that may handle a multitude of situations and scenarios. Similarly, the EFFECTSGis 5.5 (Netherlands) software, developed for the analysis of the effects of industrial accidents and of consequences. Several scenarios were considered in response to the internal legislative requirements, especially related to the implementation of the Internal Emergency Plans (GD 647/2005). The conclusions of the risk assessment for major accidents were:

- The total destruction of plant facilities may only be caused by terrorist attack with classic or nuclear weapons. Simultaneous damage to the HCl tank (including containment) and to the NaCN solution tank, the tanks containing enriched solution, to one or more leaching tanks, having as a result HCN dispersion into the air. At the same time, under certain situations and weather conditions unfavorable for dispersion, people within 40 m of the emission source, surprised by the toxic cloud for more than 1 minute without respiratory protection equipment, will most certainly die. It may also be considered that, on a radius of about 310 m, persons exposed for more than 10 minutes may suffer serious intoxications that may also lead to death. Toxic effects may occur in persons up to about 2 km downwind of the process plant;

- Operating errors and/or failures in the measurement and control devices, resulting in a lower pH in the leaching tank, thickener and/or DETOX slurry and accidental emissions of hydrocyanic acid. The area affected by concentrations of 290 ppm over a 10 min exposure time is within a circle of 36 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 157.5 m radius. The center of these circles is the middle of the CIL tanks platform;

- Accidental HCN emission from the decanter. The accident may be caused by a drop of pH in the CIL tanks combined with an overdose of flocculent solution and faulty pH monitoring systems. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 65 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 104 m radius. The center of these circles is mid-distance between the two DETOX facilities;

- Accidental HCN emission from the DETOX facility. The accident may be caused by a drop of pH in the reactors generated by an overdose of metabisulfite solution and/or copper sulphate combined with faulty pH monitoring systems. The area affected by high 1900 ppm concentrations for a 1 min exposure time is located within a 10 m radius circle. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 27 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 33 m radius. The center of these circles is mid-distance between the two DETOX facilities;

- Explosion of the LPG storage tank. The LPG storage tank has a 50 ton capacity and is located outdoors, near the heating plant. The simulation was conducted for the worst case scenario, considering an explosion of the full tank. Threshold I with heat 12.5 kW/m² is within a 10.5 m radius circle and Threshold II, of heat radiation 5 kW/m² is within a circle of 15 m radius;

- Damage and/or fire at the fuel tanks. Simulations were conducted for the worst case scenarios, considering ignition and combustion of all the diesel (fire in the tank, or in the containment vat, when full of diesel);

- Corna Dam break and breach development. Two credible accident scenarios were considered in simulating tailings flow out of the Tailings Management Facility, and six credible scenarios for the flow of decant water and tailings pore water, with significant effects on the terrestrial and aquatic ecosystems, in different weather conditions;

- Tailings flow may occur along Corna Valley, on a 800 m (starter dam break) or over 1600 m reach should the Corna dam break in its final stage;

- In regard to water quality impacts, cyanide concentrations in the water in the shape of a pollution plume may reach Arad, near the Romanian-Hungarian border on the Mureş River, in concentrations ranging between 0.03 and 0.5 mg/L. Due to inherent mathematical limitations in the models, these values and the accident effects are considered overestimated. Therefore, the results describe the “worst case scenario” based on extreme dam break assumptions for the Corna Dam.

A new and much more precise and realistic simulation has been subsequently established based on the INCA Mine model, that considers the dispersion, volatilization and breakdown of cyanides during the downstream movement of the pollutant flow (Whiteland et al., 2006).

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 (www.eurolimpacs.ucl.ac.uk). The model has been used to assess the impacts from future mining, and collection and treatment operations for pollution from past mining at Roşia 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 physical-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, an information sheet presenting the INCA modeling work is presented under the title of the Mureş River Modeling Program and the full modeling report is presented in Annex 5.1:

- Development of HCN on the tailings pond surface. Simulated emissions of HCN from the Tailings Management Facility pond surface and of their dispersion into the ambient air show that the level

of 400µ g/m³ hourly average and 179µ g/m³ 8hr average will not be exceeded. These HCN concentrations are only slightly over the odor threshold (0.17ppm) and much below potentially dangerous concentrations;

- Cetate Dam break and breach development. Flood modeling was in case of a break in Cetate dam was based on the design parameters obtained from the hydrometeorological study "Assessment of rainfall intensity, frequency and runoff for the Roşia Montană Project - Radu Drobot". The breach characteristics were predicted using the BREACH model, and the maximum height of the flood wave in various flow sections was modeled using the FLDWAV software. The assumptions included a total 800000 m³ discharge for one hour, when the peak of the flood hydrograph is about 4.9 m above base flow immediately below the dam and in the narrow Abrud valley 5.9-7,5 km downstream of the dam, while in the last section considered (10,5 km) water depth is about 2.3 m above base flow and the maximum flow rate 877 m³/s. Further, the broader Aries valley allows the flood wave to propagate on a significantly wider bed, which results in a highly attenuated hydrograph. These results describe the "worst case scenario" based on extreme dam break assumptions:

- Accidents during cyanide transportation. Due to the large quantities of cyanide transported (about 30t /day) the risks associated to this activity were assessed in detail using the ZHA- Zurich Hazard Analysis method. As a consequence, the optimum transport route was selected from the manufacturer to the Process Plant, e.g.;

- Cyanide transport (in solid state) will exclusively involve special SLS (Solid to Liquid System) containers, 16 tons each. The ISO compliant container will be protected by a framework with legs, which allows separation from the transport trailer for temporary storage. The wall is 5.17 mm thick, which, together with the protective framework, provides additional protection to the load in case of accident. This system is considered BAT and is currently one of the safest cyanide transportation options.

It is being mentioned the fact that the study develops the occurrence possibility of these scenarios (pages 166-171, Conclusions).

As regards the cyanides management, there is a baseline study named "Roşia Montană Golden Project, Cyanides Management Plan" prepared in compliance with the "International Management Code for the Manufacture, Transport and Use of Cyanide in the Production of Gold (International Cyanide management Institute) May 2002". S.C. Roşia Montană Gold Corporation is signatory to this code.

Bibliographical references for Chapter 7 "Risk Cases" are listed at page173-176.

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The impact on protected flora and fauna will exist only locally, but this impact will not lead to the loss of any specie. The Project has been designed even from the beginning to fully comply with the requirements and norms imposed by Romanian and European environmental legislation.

The company believes the fact that the project impact on environment remains significant, especially because covers previous impacts. But, the investments required to ecologically restore/rehabilitate Roşia Montană area in order to address current complex environmental issues, are only achievable following the implementation of some economic projects that will generate and warrant implementation of some direct and responsible actions as a component of base principles of sustainable development concepts. Clean processes and technologies may be developed only in the presence of a solid economic environment fully compliant with the environment that will also resolve previous impacts of anthropic activities.

The base documents of the Project are in fact an unbiased reason of its implementation, considering the highly complex environmental commitment within Roşia Montană area.

Some of the Roşia Montană species that are under a certain protection status stand for an insignificant percentage of the scale of populations estimated at national level. The characterization of species from their habitat point of view exists in the species tables presented in the Biodiversity Chapter of the EIA Report and its annexes, although this is not a requirement imposed by the Habitats Directive. Due to their large volume of information, the annexes of chapter 4.6 Biodiversity can be found in the electronic version of the EIA disclosed by the company both in Romanian and English through approx. 6,000 DVD/CD copies, being accessible on the company website, and on the websites of Ministry of Environment and Water Management, local and regional environmental protection agencies of Alba, Sibiu, Cluj, etc.

From practical point of view, the low value of conservation of the impact area is also indirectly emphasized by the fact that there is no proposal to designate the area a SPA (aviafaunistic special protected area) and by the denial as unfounded of the proposal to designate the area as a pSCI area (sites of community importance).

Taking all these into account, we believe that the proposed Project is compliant with the provisions of EU Directive no. 92/43 Habitats[1], and EU Directive no. 79/409 Birds[2] respectively, especially because within Biodiversity Management Plan, Plan H, several active and responsible measures are provided to reconstruct/rehabilitate several natural habitats, pursuant to the provisions of the same documents [3].

References:

[1] art.3, 2nd paragraph, Each Member State shall contribute to the creation of Natura 2000 (network) in proportion to the representation within its territory of the natural habitat types and the habitats of species referred to in paragraph 1. To that effect each Member State shall designate, in accordance with Article 4, sites as special areas of conservation taking account of the objectives set out in paragraph 1.

art.4, 1st paragraph. On the basis of the criteria set out in Annex III (Stage 1) and relevant scientific information, each Member State shall propose a list of sites indicating which natural habitat types in Annex I and which species in Annex II that are native to its territory the sites host. For animal species ranging over wide areas these sites shall correspond to the places within the natural range of such species which present the physical or biological factors essential to their life and reproduction. For aquatic species which range over wide areas, such sites will be proposed only where there is a clearly identifiable area representing the physical and biological factors essential to their life and reproduction. Where appropriate, Member States shall propose adaptation of the list in the light of the results of the surveillance referred to in Article 11. [...]

2nd paragraph.[...] Member States whose sites hosting one or more priority natural habitat types and priority species represent more than 5 % of their national territory may, in agreement with the Commission, request that the criteria listed in Annex III (Stage 2) be applied more flexibly in selecting all the sites of Community importance in their territory.[...]

Art. 6, 4th paragraph. If, in spite of a negative assessment of the implications for the site and in the absence of alternative solutions, a plan or project must nevertheless be carried out for imperative reasons of overriding public interest, including those of a social or economic nature, the Member State shall take all compensatory measures necessary to ensure that the overall coherence of Natura 2000 is protected. It shall inform the Commission of the compensatory measures adopted.

Art. 16. Provided that there is no satisfactory alternative and the derogation is not detrimental to the maintenance of the populations of the species concerned at a favourable conservation status in their natural range, Member States may derogate from the provisions of Articles 12, 13, 14 and 15 (a) and (b):[...]

- in the interests of public health and public safety, or for other imperative reasons of overriding public interest, including those of a social or economic nature and beneficial consequences of primary importance for the environment;

[2] Art.4, 1st paragraph. The species mentioned in annex 1 shall be the subject of special conservation measures concerning their habitat in order to ensure their survival and reproduction in their area of distribution. [...]

Trends and variations in population levels shall be taken into account as a background for evaluations. Member states shall classify in particular the most suitable territories in number and size as special protection areas for the conservation of these species, taking into account their protection requirements in the geographical sea and land area where this directive applies.

[3] Directive 92/43 Habitats, art. 2, 2nd paragraph; Directive 79/409 Birds, art. 3, 2nd paragraph, letter c.

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An engineered liner is included in the design of the Tailings Management Facility (TMF) basin. 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; and
- 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 (1×10^{-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 (1×10^{-6} cm/sec) cut off wall within the foundation of the starter dam to control seepage;
- A low permeability (1×10^{-6} 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.

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Please consider that the provisions of annex no. 2 to the Government Decision no. 349/2005 on the storing of the wastes, for the verification of the location, regarding *„the positioning in report to the existing or planned populated areas, the protection distance to the warehouse body must be of at least 1,000 meters for the non-dangerous and dangerous wastes deposits”*, do not apply in case of the mining wastes.

The Ministry of Environment and Waters Management, by the Hazardous Chemical Substances and Wastes Management Direction, requested the project titleholder, by the Guidelines sent with a view to the performance of the evaluation of the environmental impact, according to the provisions of the Order of the Minister of Waters and Environmental Protection no. 860/2002 on the environmental impact assessment and environmental approval issuance Procedure, that this project “must be in compliance with the provisions of the new CE Directive on the management of the wastes from the extractive industry”.

To this end, we underline that the Directive no. 2006/21/EC referring to the management of the wastes from the extractive industry provides, at art. 2 (4), that the wastes falling under this directive are exempted from the provisions of the Directive 1999/31/EC on the wastes storing, implemented in the national legislation by GD no. 349/2995. Consequently, the provisions of the Directive 1999/31/EC do not apply to the Roşia Montană project and therefore, neither the provisions of GD no. 349/2005 are applicable. The Directive on the extractive wastes contains provisions and conditions specific in regard of the storing of this type of wastes, and which are applied with priority in report to the regulations already in existence on wastes storing.

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Detailed financial guarantees are in place, in the form of the Environmental Financial Guarantee (“EFG”), which require Roşia Montană Gold Corporation (“RMGC”) to maintain adequate funds for environmental cleanup. The EFG is updated annually and will always reflect the costs associated with reclamation. The current projected closure cost for Roşia Montană is US \$76 million, which is based on the mine operating for its full 16-year lifespan.

The EFG is governed by the Mining Law (no. 85/2003) and the National Agency for Mineral Resources instructions and Mining Law Enforcement Norms (no. 1208/2003).

Two directives issued by the European Union also impact the EFG: the Mine Waste Directive (“MWD”) and the Environmental Liability Directive (“ELD”).

The Mine Waste Directive aims to ensure that coverage is available for 1) all the obligations connected to the permit granted for the disposal of waste material resulting from mining activities and 2) all of the costs related to the rehabilitation of the land affected by a waste facility. The Environmental Liability Directive regulates the remedies, and measures to be taken by the environmental authorities, in the event of environmental damage created by mining operations, with the goal of ensuring adequate financial resources are available from the operators for environmental cleanup efforts. While these directives have yet to be transposed by the Romanian Government, the deadlines for implementing their enforcement mechanisms are 30 April 2007 (ELD) and 1 May 2008 (MWD) – thus before operations are scheduled to begin at Roşia Montană.

RMGC has already begun the process of complying with these directives, and once their implementation instruments are enacted by the Romanian Government, we will be in full compliance.

Each EFG will follow detailed guidelines generated by the World Bank and the International Council on Mining and Metals.

The annual updates will be completed by independent experts, carried out in consultation with the NAMR, as the Governmental authority competent in mining activities field. These updates will ensure that in the unlikely event of early closure of the project, at any point in time, each EFG will always reflect the costs associated with reclamation. (These annual updates will result in an estimate that exceeds our current US \$76 million costs of closure, because some reclamation activity is incorporated into the routine operations of the mine.)

A number of different financial instruments are available to ensure that RMGC is capable of covering all of the expected closure costs. These instruments, which will be held in protected accounts at the Romanian state disposal, include:

- Cash deposit ;
- Trust funds ;
- Letter of credit ;
- Surety bonds ;
- Insurance policy.

Under the terms of this guarantee, the Romanian government will have no financial liability in connection with the rehabilitation of the Roşia Montană project.

Item no.	3896 Same as: 3897, 3898, 3899, 3900, 3901, 3902, 3903, 3904, 3905, 3906, 3907, 3908, 3909, 3910, 3911, 3912, 3913, 3914, 3915, 3916, 3917, 3918, 3919, 3920, 3921, 3922, 3923, 3924, 3925
No. to identify the observations received from the public	No. 113916/25.08.2006 Same as: No. 113917/25.08.2006, No. 113918/25.08.2006, No. 113919/25.08.2006, No. 113920/25.08.2006, No. 113921/25.08.2006, No. 113922/25.08.2006, No. 113923/25.08.2006, No. 113924/25.08.2006, No. 113925/25.08.2006, No. 113926/25.08.2006, No. 113927/25.08.2006, No. 113928/25.08.2006, No. 113929/25.08.2006, No. 113930/25.08.2006, No. 113931/25.08.2006, No. 113932/25.08.2006, No. 113933/25.08.2006, No. 113934/25.08.2006, No. 113936/25.08.2006, No. 113938/25.08.2006, No. 113932 and No. 113956/25.08.2006, No. 113939/25.08.2006, No. 113940/25.08.2006, No. 113941/25.08.2006, No. 113942/25.08.2006, No. 113932 and No. 113956/25.08.2006, No. 113955/25.08.2006, No. 113943/25.08.2006, No. 113944/25.08.2006
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From the analysis of morphometrical parameters and their correlation with other sets of information on the natural slopes on and near the site shows that the (qualitatively estimated) landslide occurrence risk is low to moderate and its consequences will not cause major impacts on the structural components of the Project.

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In assessing technological hazards and risks, the quantity of hazardous substances on the site was calculated as a total and by category, as provided by the *Notification Procedure* approved by Ministry of Agriculture, Forestry, Water and Environment (MAFWE) Order 1084/2003. Based on an evaluation of hazardous substances in stock on the Project site in relation to the relevant quantities provided by the Government Decision 95/2003 which transposes the Seveso Directive, the Project ranges between the upper and the lower limits, and therefore S.C. Roşia Montană Gold Corporation S.A. is required to prepare a Report on Environmental Impact Assessment Study to be sent to the local environmental authority and the local civilian protection authority a *Safety Report* on its operations to prevent major accident risks.

In assessing the consequences of major accidents involving dangerous substances, physical-mathematical models accepted internationally and especially at EU level, and the current version of the SLAB (Canada) software have been used, the latter for the atmospheric dispersion of denser than air gases, that may handle a multitude of situations and scenarios. Similarly, the EFFECTSGis 5.5 (Netherlands) software, developed for the analysis of the effects of industrial accidents and of consequences. Several scenarios were considered in response to the internal legislative requirements, especially related to the implementation of the Internal Emergency Plans (GD 647/2005). The conclusions of the risk assessment for major accidents were:

- The total destruction of plant facilities may only be caused by terrorist attack with classic or nuclear weapons. Simultaneous damage to the HCl tank (including containment) and to the NaCN solution tank, the tanks containing enriched solution, to one or more leaching tanks, having as a result HCN dispersion into the air. At the same time, under certain situations and weather conditions unfavorable for dispersion, people within 40 m of the emission source, surprised by the toxic cloud for more than 1 minute without respiratory protection equipment, will most certainly die. It may also be considered that, on a radius of about 310 m, persons exposed for more than 10 minutes may suffer serious intoxications that may also lead to death. Toxic effects may occur in persons up to about 2 km downwind of the process plant;

- Operating errors and/or failures in the measurement and control devices, resulting in a lower pH in the leaching tank, thickener and/or DETOX slurry and accidental emissions of hydrocyanic acid. The area affected by concentrations of 290 ppm over a 10 min exposure time is within a circle of 36 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 157.5 m radius. The center of these circles is the middle of the CIL tanks platform;

- Accidental HCN emission from the decanter. The accident may be caused by a drop of pH in the CIL tanks combined with an overdose of flocculent solution and faulty pH monitoring systems. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 65 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 104 m radius. The center of these circles is mid-distance between the two DETOX facilities;

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- Damage and/or fire at the fuel tanks. Simulations were conducted for the worst case scenarios, considering ignition and combustion of all the diesel (fire in the tank, or in the containment vat, when full of diesel);

- Corna Dam break and breach development. Two credible accident scenarios were considered in simulating tailings flow out of the Tailings Management Facility, and six credible scenarios for the flow of decant water and tailings pore water, with significant effects on the terrestrial and aquatic ecosystems, in different weather conditions;

- Tailings flow may occur along Corna Valley, on a 800 m (starter dam break) or over 1600 m reach should the Corna dam break in its final stage;

- In regard to water quality impacts, cyanide concentrations in the water in the shape of a pollution plume may reach Arad, near the Romanian-Hungarian border on the Mureş River, in concentrations ranging between 0.03 and 0.5 mg/L. Due to inherent mathematical limitations in the models, these values and the accident effects are considered overestimated. Therefore, the results describe the “worst case scenario” based on extreme dam break assumptions for the Corna Dam.

A new and much more precise and realistic simulation has been subsequently established based on the INCA Mine model, that considers the dispersion, volatilization and breakdown of cyanides during the downstream movement of the pollutant flow (Whiteland et al., 2006).

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 (www.eurolimpacs.ucl.ac.uk). The model has been used to assess the impacts from future mining, and collection and treatment operations for pollution from past mining at Roşia 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 physical-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, an information sheet presenting the INCA modeling work is presented under the title of the Mureş River Modeling Program and the full modeling report is presented in Annex 5.1:

- Development of HCN on the tailings pond surface. Simulated emissions of HCN from the Tailings Management Facility pond surface and of their dispersion into the ambient air show that the level

of 400µg/m³ hourly average and 179µg/m³ 8hr average will not be exceeded. These HCN concentrations are only slightly over the odor threshold (0.17ppm) and much below potentially dangerous concentrations;

- Cetate Dam break and breach development. Flood modeling was in case of a break in Cetate dam was based on the design parameters obtained from the hydrometeorological study "Assessment of rainfall intensity, frequency and runoff for the Roşia Montană Project - Radu Drobot". The breach characteristics were predicted using the BREACH model, and the maximum height of the flood wave in various flow sections was modeled using the FLDWAV software. The assumptions included a total 800000 m³ discharge for one hour, when the peak of the flood hydrograph is about 4.9 m above base flow immediately below the dam and in the narrow Abrud valley 5.9-7,5 km downstream of the dam, while in the last section considered (10,5 km) water depth is about 2.3 m above base flow and the maximum flow rate 877 m³/s. Further, the broader Aries valley allows the flood wave to propagate on a significantly wider bed, which results in a highly attenuated hydrograph. These results describe the "worst case scenario" based on extreme dam break assumptions:

- Accidents during cyanide transportation. Due to the large quantities of cyanide transported (about 30t /day) the risks associated to this activity were assessed in detail using the ZHA- Zurich Hazard Analysis method. As a consequence, the optimum transport route was selected from the manufacturer to the Process Plant, e.g.;

- Cyanide transport (in solid state) will exclusively involve special SLS (Solid to Liquid System) containers, 16 tons each. The ISO compliant container will be protected by a framework with legs, which allows separation from the transport trailer for temporary storage. The wall is 5.17 mm thick, which, together with the protective framework, provides additional protection to the load in case of accident. This system is considered BAT and is currently one of the safest cyanide transportation options.

It is being mentioned the fact that the study develops the occurrence possibility of these scenarios (pages 166-171, Conclusions).

As regards the cyanides management, there is a baseline study named "Roşia Montană Golden Project, Cyanides Management Plan" prepared in compliance with the "International Management Code for the Manufacture, Transport and Use of Cyanide in the Production of Gold (International Cyanide management Institute) May 2002". S.C. Roşia Montană Gold Corporation is signatory to this code.

Bibliographical references for Chapter 7 "Risk Cases" are listed at page173-176.

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The impact on protected flora and fauna will exist only locally, but this impact will not lead to the loss of any specie. The Project has been designed even from the beginning to fully comply with the requirements and norms imposed by Romanian and European environmental legislation.

The company believes the fact that the project impact on environment remains significant, especially because covers previous impacts. But, the investments required to ecologically restore/rehabilitate Roşia Montană area in order to address current complex environmental issues, are only achievable following the implementation of some economic projects that will generate and warrant implementation of some direct and responsible actions as a component of base principles of sustainable development concepts. Clean processes and technologies may be developed only in the presence of a solid economic environment fully compliant with the environment that will also resolve previous impacts of anthropic activities.

The base documents of the Project are in fact an unbiased reason of its implementation, considering the highly complex environmental commitment within Roşia Montană area.

Some of the Roşia Montană species that are under a certain protection status stand for an insignificant percentage of the scale of populations estimated at national level. The characterization of species from their habitat point of view exists in the species tables presented in the Biodiversity Chapter of the EIA Report and its annexes, although this is not a requirement imposed by the Habitats Directive. Due to their large volume of information, the annexes of chapter 4.6 Biodiversity can be found in the electronic version of the EIA disclosed by the company both in Romanian and English through approx. 6,000 DVD/CD copies, being accessible on the company website, and on the websites of Ministry of Environment and Water Management, local and regional environmental protection agencies of Alba, Sibiu, Cluj, etc.

From practical point of view, the low value of conservation of the impact area is also indirectly emphasized by the fact that there is no proposal to designate the area a SPA (aviafaunistic special protected area) and by the denial as unfounded of the proposal to designate the area as a pSCI area (sites of community importance).

Taking all these into account, we believe that the proposed Project is compliant with the provisions of EU Directive no. 92/43 Habitats[1], and EU Directive no. 79/409 Birds[2] respectively, especially because within Biodiversity Management Plan, Plan H, several active and responsible measures are provided to reconstruct/rehabilitate several natural habitats, pursuant to the provisions of the same documents [3].

References:

[1] art.3, 2nd paragraph, Each Member State shall contribute to the creation of Natura 2000 (network) in proportion to the representation within its territory of the natural habitat types and the habitats of species referred to in paragraph 1. To that effect each Member State shall designate, in accordance with Article 4, sites as special areas of conservation taking account of the objectives set out in paragraph 1.

art.4, 1st paragraph. On the basis of the criteria set out in Annex III (Stage 1) and relevant scientific information, each Member State shall propose a list of sites indicating which natural habitat types in Annex I and which species in Annex II that are native to its territory the sites host. For animal species ranging over wide areas these sites shall correspond to the places within the natural range of such species which present the physical or biological factors essential to their life and reproduction. For aquatic species which range over wide areas, such sites will be proposed only where there is a clearly identifiable area representing the physical and biological factors essential to their life and reproduction. Where appropriate, Member States shall propose adaptation of the list in the light of the results of the surveillance referred to in Article 11. [...]

2nd paragraph.[...] Member States whose sites hosting one or more priority natural habitat types and priority species represent more than 5 % of their national territory may, in agreement with the Commission, request that the criteria listed in Annex III (Stage 2) be applied more flexibly in selecting all the sites of Community importance in their territory.[...]

Art. 6, 4th paragraph. If, in spite of a negative assessment of the implications for the site and in the absence of alternative solutions, a plan or project must nevertheless be carried out for imperative reasons of overriding public interest, including those of a social or economic nature, the Member State shall take all compensatory measures necessary to ensure that the overall coherence of Natura 2000 is protected. It shall inform the Commission of the compensatory measures adopted.

Art. 16. Provided that there is no satisfactory alternative and the derogation is not detrimental to the maintenance of the populations of the species concerned at a favourable conservation status in their natural range, Member States may derogate from the provisions of Articles 12, 13, 14 and 15 (a) and (b):[...]

- in the interests of public health and public safety, or for other imperative reasons of overriding public interest, including those of a social or economic nature and beneficial consequences of primary importance for the environment;

[2] Art.4, 1st paragraph. The species mentioned in annex 1 shall be the subject of special conservation measures concerning their habitat in order to ensure their survival and reproduction in their area of distribution. [...]

Trends and variations in population levels shall be taken into account as a background for evaluations. Member states shall classify in particular the most suitable territories in number and size as special protection areas for the conservation of these species, taking into account their protection requirements in the geographical sea and land area where this directive applies.

[3] Directive 92/43 Habitats, art. 2, 2nd paragraph; Directive 79/409 Birds, art. 3, 2nd paragraph, letter c.

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An engineered liner is included in the design of the Tailings Management Facility (TMF) basin. 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; and
- 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 (1×10^{-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 (1×10^{-6} cm/sec) cut off wall within the foundation of the starter dam to control seepage;
- A low permeability (1×10^{-6} 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.

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Please consider that the provisions of annex no. 2 to the Government Decision no. 349/2005 on the storing of the wastes, for the verification of the location, regarding *„the positioning in report to the existing or planned populated areas, the protection distance to the warehouse body must be of at least 1,000 meters for the non-dangerous and dangerous wastes deposits”*, do not apply in case of the mining wastes.

The Ministry of Environment and Waters Management, by the Hazardous Chemical Substances and Wastes Management Direction, requested the project titleholder, by the Guidelines sent with a view to the performance of the evaluation of the environmental impact, according to the provisions of the Order of the Minister of Waters and Environmental Protection no. 860/2002 on the environmental impact assessment and environmental approval issuance Procedure, that this project “must be in compliance with the provisions of the new CE Directive on the management of the wastes from the extractive industry”.

To this end, we underline that the Directive no. 2006/21/EC referring to the management of the wastes from the extractive industry provides, at art. 2 (4), that the wastes falling under this directive are exempted from the provisions of the Directive 1999/31/EC on the wastes storing, implemented in the national legislation by GD no. 349/2995. Consequently, the provisions of the Directive 1999/31/EC do not apply to the Roşia Montană project and therefore, neither the provisions of GD no. 349/2005 are applicable. The Directive on the extractive wastes contains provisions and conditions specific in regard of the storing of this type of wastes, and which are applied with priority in report to the regulations already in existence on wastes storing.

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Detailed financial guarantees are in place, in the form of the Environmental Financial Guarantee (“EFG”), which require Roşia Montană Gold Corporation (“RMGC”) to maintain adequate funds for environmental cleanup. The EFG is updated annually and will always reflect the costs associated with reclamation. The current projected closure cost for Roşia Montană is US \$76 million, which is based on the mine operating for its full 16-year lifespan.

The EFG is governed by the Mining Law (no. 85/2003) and the National Agency for Mineral Resources instructions and Mining Law Enforcement Norms (no. 1208/2003).

Two directives issued by the European Union also impact the EFG: the Mine Waste Directive (“MWD”) and the Environmental Liability Directive (“ELD”).

The Mine Waste Directive aims to ensure that coverage is available for 1) all the obligations connected to the permit granted for the disposal of waste material resulting from mining activities and 2) all of the costs related to the rehabilitation of the land affected by a waste facility. The Environmental Liability Directive regulates the remedies, and measures to be taken by the environmental authorities, in the event of environmental damage created by mining operations, with the goal of ensuring adequate financial resources are available from the operators for environmental cleanup efforts. While these directives have yet to be transposed by the Romanian Government, the deadlines for implementing their enforcement mechanisms are 30 April 2007 (ELD) and 1 May 2008 (MWD) – thus before operations are scheduled to begin at Roşia Montană.

RMGC has already begun the process of complying with these directives, and once their implementation instruments are enacted by the Romanian Government, we will be in full compliance.

Each EFG will follow detailed guidelines generated by the World Bank and the International Council on Mining and Metals.

The annual updates will be completed by independent experts, carried out in consultation with the NAMR, as the Governmental authority competent in mining activities field. These updates will ensure that in the unlikely event of early closure of the project, at any point in time, each EFG will always reflect the costs associated with reclamation. (These annual updates will result in an estimate that exceeds our current US \$76 million costs of closure, because some reclamation activity is incorporated into the routine operations of the mine.)

A number of different financial instruments are available to ensure that RMGC is capable of covering all of the expected closure costs. These instruments, which will be held in protected accounts at the Romanian state disposal, include:

- Cash deposit ;
- Trust funds ;
- Letter of credit ;
- Surety bonds ;
- Insurance policy.

Under the terms of this guarantee, the Romanian government will have no financial liability in connection with the rehabilitation of the Roşia Montană project.

Item no.	3926 Same as: 3927, 3928, 3929, 3930, 3931, 3932, 3933, 3934, 3935, 3936, 3937, 3938, 3939, 3940, 3941, 3942, 3943, 3944, 3945, 3946, 3947, 3948, 3949, 3950, 3951, 3952, 3953, 3954, 3955
No. to identify the observations received from the public	No. 114120/25.08.2006 Same as: No. 114119/25.08.2006, No. 114118/25.08.2006, No. 114117/25.08.2006, No. 114116/25.08.2006, No. 114115/25.08.2006, No. 114114/25.08.2006, No. 114113/25.08.2006, No. 114112/25.08.2006, No. 114111/25.08.2006, No. 114110/25.08.2006, No. 114109/25.08.2006, No. 114108/25.08.2006, No. 114107/25.08.2006, No. 114106/25.08.2006, No. 114105/25.08.2006, No. 114104/25.08.2006, No. 114103/25.08.2006, No. 114102/25.08.2006, No. 114101/25.08.2006, No. 114100/25.08.2006, No. 114099/25.08.2006, No. 114098/25.08.2006, No. 114097/25.08.2006, No. 114096/25.08.2006, No. 114095/25.08.2006, No. 114094/25.08.2006, No. 114093/25.08.2006, No. 114092/25.08.2006, No. 114091/25.08.2006
Proposal	<p>The questioner opposes the mining project at Roşia Montană and makes the following observations and comments:</p> <ul style="list-style-type: none"> -In EIA there are no presented all the possible risks derived from this project; -The Project poses a threat for protected flora and fauna; -There is no liner proposed for the tailings pond; -The proposed waste deposits will be not constructed in conformity with the Romanian legislation in force (at least 1000 m towards the inhabited areas); -Financial guarantees for the closure and post-closure periods were not fixed. <p>SEE THE CONTENT OF THE TYPE 5 CONTESTATION</p>
Solution	<p>It is the nature of risk that it can be mitigated and diminished; it cannot be made to disappear. In order to put this into context, the common action of walking on the street or developing everyday activities have an accident potential. This accident potential is twice higher than within the framework of industrial activities that use hazardous substances.</p> <p>A major chapter of the EIA report was dedicated to the identification of risks for the project. In addition, this chapter provides a discussion of the mitigation measures for each risk and how they were incorporated into the project designs. It is recognized that risk identification is difficult due to the number and diversity of events that can be envisioned. The EIA report cannot assume to cover all of he potential risks associated with the project. However, it has attempted to identify and address the most relevant risks. The extent of risk assessment and the intensity of the prevention and mitigation measures should be proportional to the risk involved and therefore only the risks that have been considered important have been assessed in detail. Each is described below.</p> <p>In the larger sense, the entire EIA report is focused on the assessment of impacts and their associated mitigation. Specifically, Chapter 4 of the EIA presents that impact assessment of the project. The following discussion presents a summary of the impact discussed in the EIA.</p> <p>As far as natural and technological risks assessments are concerned, Chapter 7, “Risk Cases”, from the Report on Environmental Impact Assessment, emphasizes the fact that safety and prevention measures, the implementation of the environmental management and risk systems are mitigating the consequences to acceptable levels as compared to the most restrictive norms, standards, the best practices or national and international recommendations in the field. The risk level has been established as moderate and so, socially acceptable. The extension of the risk assessment and the intensity of the prevention and mitigation measures of the consequences should be proportionate to the risk involved. Selection of a specific mitigation technique is depends on the analyzed accident scenario.</p> <p>More detailed assessments are conducted for accident scenarios that, based on the qualitative assessment are found to be potentially major, of probability more than 10^{-6} (reduced recovery periods of 1/1,000,000) meaning that they could have major consequences therefore, elevated associated risk, a higher risk level than 9 to 12 (on a scale of 1-25). To put this in context, simply living in southern Florida rates a 25 on the risk scale.</p> <p>A global assessment of the risks associated with the Roşia Montană Project is obtained by the quick environmental and health risk assessment methodology initially developed by the Italian Ministry of the</p>

Environment and the World Health Organization. Natural hazard and risk identification and analysis presents key data and information in assessing potential technological accidents. Thus:

- In designing the Tailings Management Facility, the design parameters were chosen to fully cover the characteristic seismic risk of the area. These seismic design parameters adopted for the TMF and other facilities on the proposed site result in a safety factor much greater than the minimum accepted under the Romanian and European design standards for such facilities;

- in the sector physically impacted by the Project, the risk of floods will remain very low due to the small catchments (controlled by the Roșia and Corna Streams) the area affected by the operation, and the creation of containment, diversion and drainage hydro-technical structures for storm waters on the site, and in the Abrud catchment in general;

- risks caused by meteorological events have been reviewed and used in assessing the hazards of the affected technological processes.

From the analysis of morphometrical parameters and their correlation with other sets of information on the natural slopes on and near the site shows that the (qualitatively estimated) landslide occurrence risk is low to moderate and its consequences will not cause major impacts on the structural components of the Project.

There is no significant risk associated with resource depletion. Mining activities are planned judiciously, so as to extract only the profitable gold and silver resources and only the necessary construction rock for the Project. The management of the mining concession site will minimize reserve "sterilization" (limitation of future access to the reserves).

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- Accidental HCN emission from the decanter. The accident may be caused by a drop of pH in the CIL tanks combined with an overdose of flocculent solution and faulty pH monitoring systems. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 65 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 104 m radius. The center of these circles is mid-distance between the two DETOX facilities;

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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.

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For more information, an information sheet presenting the INCA modeling work is presented under the title of the Mureş River Modeling Program and the full modeling report is presented in Annex 5.1:

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of 400µ g/m³ hourly average and 179µ g/m³ 8hr average will not be exceeded. These HCN concentrations are only slightly over the odor threshold (0.17ppm) and much below potentially dangerous concentrations;

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- Cyanide transport (in solid state) will exclusively involve special SLS (Solid to Liquid System) containers, 16 tons each. The ISO compliant container will be protected by a framework with legs, which allows separation from the transport trailer for temporary storage. The wall is 5.17 mm thick, which, together with the protective framework, provides additional protection to the load in case of accident. This system is considered BAT and is currently one of the safest cyanide transportation options.

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References:

[1] art.3, 2nd paragraph, Each Member State shall contribute to the creation of Natura 2000 (network) in proportion to the representation within its territory of the natural habitat types and the habitats of species referred to in paragraph 1. To that effect each Member State shall designate, in accordance with Article 4, sites as special areas of conservation taking account of the objectives set out in paragraph 1.

art.4, 1st paragraph. On the basis of the criteria set out in Annex III (Stage 1) and relevant scientific information, each Member State shall propose a list of sites indicating which natural habitat types in Annex I and which species in Annex II that are native to its territory the sites host. For animal species ranging over wide areas these sites shall correspond to the places within the natural range of such species which present the physical or biological factors essential to their life and reproduction. For aquatic species which range over wide areas, such sites will be proposed only where there is a clearly identifiable area representing the physical and biological factors essential to their life and reproduction. Where appropriate, Member States shall propose adaptation of the list in the light of the results of the surveillance referred to in Article 11. [...]

2nd paragraph.[...] Member States whose sites hosting one or more priority natural habitat types and priority species represent more than 5 % of their national territory may, in agreement with the Commission, request that the criteria listed in Annex III (Stage 2) be applied more flexibly in selecting all the sites of Community importance in their territory.[...]

Art. 6, 4th paragraph. If, in spite of a negative assessment of the implications for the site and in the absence of alternative solutions, a plan or project must nevertheless be carried out for imperative reasons of overriding public interest, including those of a social or economic nature, the Member State shall take all compensatory measures necessary to ensure that the overall coherence of Natura 2000 is protected. It shall inform the Commission of the compensatory measures adopted.

Art. 16. Provided that there is no satisfactory alternative and the derogation is not detrimental to the maintenance of the populations of the species concerned at a favourable conservation status in their natural range, Member States may derogate from the provisions of Articles 12, 13, 14 and 15 (a) and (b):[...]

- in the interests of public health and public safety, or for other imperative reasons of overriding public interest, including those of a social or economic nature and beneficial consequences of primary importance for the environment;

[2] Art.4, 1st paragraph. The species mentioned in annex 1 shall be the subject of special conservation measures concerning their habitat in order to ensure their survival and reproduction in their area of distribution. [...]

Trends and variations in population levels shall be taken into account as a background for evaluations. Member states shall classify in particular the most suitable territories in number and size as special protection areas for the conservation of these species, taking into account their protection requirements in the geographical sea and land area where this directive applies.

[3] Directive 92/43 Habitats, art. 2, 2nd paragraph; Directive 79/409 Birds, art. 3, 2nd paragraph, letter c.

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An engineered liner is included in the design of the Tailings Management Facility (TMF) basin. 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; and
- 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 (1×10^{-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 (1×10^{-6} cm/sec) cut off wall within the foundation of the starter dam to control seepage;
- A low permeability (1×10^{-6} 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.

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Please consider that the provisions of annex no. 2 to the Government Decision no. 349/2005 on the storing of the wastes, for the verification of the location, regarding *„the positioning in report to the existing or planned populated areas, the protection distance to the warehouse body must be of at least 1,000 meters for the non-dangerous and dangerous wastes deposits”*, do not apply in case of the mining wastes.

The Ministry of Environment and Waters Management, by the Hazardous Chemical Substances and Wastes Management Direction, requested the project titleholder, by the Guidelines sent with a view to the performance of the evaluation of the environmental impact, according to the provisions of the Order of the Minister of Waters and Environmental Protection no. 860/2002 on the environmental impact assessment and environmental approval issuance Procedure, that this project “must be in compliance with the provisions of the new CE Directive on the management of the wastes from the extractive industry”.

To this end, we underline that the Directive no. 2006/21/EC referring to the management of the wastes from the extractive industry provides, at art. 2 (4), that the wastes falling under this directive are exempted from the provisions of the Directive 1999/31/EC on the wastes storing, implemented in the national legislation by GD no. 349/2995. Consequently, the provisions of the Directive 1999/31/EC do not apply to the Roşia Montană project and therefore, neither the provisions of GD no. 349/2005 are applicable. The Directive on the extractive wastes contains provisions and conditions specific in regard of the storing of this type of wastes, and which are applied with priority in report to the regulations already in existence on wastes storing.

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Detailed financial guarantees are in place, in the form of the Environmental Financial Guarantee (“EFG”), which require Roşia Montană Gold Corporation (“RMGC”) to maintain adequate funds for environmental cleanup. The EFG is updated annually and will always reflect the costs associated with reclamation. The current projected closure cost for Roşia Montană is US \$76 million, which is based on the mine operating for its full 16-year lifespan.

The EFG is governed by the Mining Law (no. 85/2003) and the National Agency for Mineral Resources instructions and Mining Law Enforcement Norms (no. 1208/2003).

Two directives issued by the European Union also impact the EFG: the Mine Waste Directive (“MWD”) and the Environmental Liability Directive (“ELD”).

The Mine Waste Directive aims to ensure that coverage is available for 1) all the obligations connected to the permit granted for the disposal of waste material resulting from mining activities and 2) all of the costs related to the rehabilitation of the land affected by a waste facility. The Environmental Liability Directive regulates the remedies, and measures to be taken by the environmental authorities, in the event of environmental damage created by mining operations, with the goal of ensuring adequate financial resources are available from the operators for environmental cleanup efforts. While these directives have yet to be transposed by the Romanian Government, the deadlines for implementing their enforcement mechanisms are 30 April 2007 (ELD) and 1 May 2008 (MWD) – thus before operations are scheduled to begin at Roşia Montană.

RMGC has already begun the process of complying with these directives, and once their implementation instruments are enacted by the Romanian Government, we will be in full compliance.

Each EFG will follow detailed guidelines generated by the World Bank and the International Council on Mining and Metals.

The annual updates will be completed by independent experts, carried out in consultation with the NAMR, as the Governmental authority competent in mining activities field. These updates will ensure that in the unlikely event of early closure of the project, at any point in time, each EFG will always reflect the costs associated with reclamation. (These annual updates will result in an estimate that exceeds our current US \$76 million costs of closure, because some reclamation activity is incorporated into the routine operations of the mine.)

A number of different financial instruments are available to ensure that RMGC is capable of covering all of the expected closure costs. These instruments, which will be held in protected accounts at the Romanian state disposal, include:

- Cash deposit ;
- Trust funds ;
- Letter of credit ;
- Surety bonds ;
- Insurance policy.

Under the terms of this guarantee, the Romanian government will have no financial liability in connection with the rehabilitation of the Roşia Montană project.

Item no.	3956 Same as: 3957, 3958, 3959, 3960, 3961, 3962, 3963, 3964, 3965, 3966, 3967, 3968, 3969, 3970, 3971, 3972, 3973, 3974, 3975, 3976, 3977, 3978, 3979, 3980, 3981, 3982, 3983, 3984, 3985
No. to identify the observations received from the public	No. 113945/ 25.08.2006 Same as: No. 113946/25.08.2006, No. 113947/25.08.2006, No. 113948/25.08.2006, No. 113949/25.08.2006, No. 113950/25.08.2006, No. 113951/25.08.2006, No. 113952/25.08.2006, No. 113953/25.08.2006, No. 113954/25.08.2006, No. 113782/25.08.2006, No. 113783/25.08.2006, No. 113784/25.08.2006, No. 113785/25.08.2006, No. 113786/25.08.2006, No. 113787/25.08.2006, No. 113788/25.08.2006, No. 113789/25.08.2006, No. 113790/25.08.2006, No. 113791/25.08.2006, No. 113792/25.08.2006, No. 113793/25.08.2006, No. 113794/25.08.2006, No. 113795/25.08.2006, No. 113796/25.08.2006, No. 113797/25.08.2006, No. 113798/25.08.2006, No. 113799 and No. 113800/25.08.2006, No. 113799 and No. 113800/25.08.2006, No. 113801/25.08.2006
Proposal	<p>The questioner opposes the mining project at Roşia Montană and makes the following observations and comments:</p> <ul style="list-style-type: none"> -In EIA there are no presented all the possible risks derived from this project; -The Project poses a threat for protected flora and fauna; -There is no liner proposed for the tailings pond; -The proposed waste deposits will be not constructed in conformity with the Romanian legislation in force (at least 1000 m towards the inhabited areas); -Financial guarantees for the closure and post-closure periods were not fixed. <p>SEE THE CONTENT OF THE TYPE 5 CONTESTATION</p>
Solution	<p>It is the nature of risk that it can be mitigated and diminished; it cannot be made to disappear. In order to put this into context, the common action of walking on the street or developing everyday activities have an accident potential. This accident potential is twice higher than within the framework of industrial activities that use hazardous substances.</p> <p>A major chapter of the EIA report was dedicated to the identification of risks for the project. In addition, this chapter provides a discussion of the mitigation measures for each risk and how they were incorporated into the project designs. It is recognized that risk identification is difficult due to the number and diversity of events that can be envisioned. The EIA report cannot assume to cover all of he potential risks associated with the project. However, it has attempted to identify and address the most relevant risks. The extent of risk assessment and the intensity of the prevention and mitigation measures should be proportional to the risk involved and therefore only the risks that have been considered important have been assessed in detail. Each is described below.</p> <p>In the larger sense, the entire EIA report is focused on the assessment of impacts and their associated mitigation. Specifically, Chapter 4 of the EIA presents that impact assessment of the project. The following discussion presents a summary of the impact discussed in the EIA.</p> <p>As far as natural and technological risks assessments are concerned, Chapter 7, “Risk Cases”, from the Report on Environmental Impact Assessment, emphasizes the fact that safety and prevention measures, the implementation of the environmental management and risk systems are mitigating the consequences to acceptable levels as compared to the most restrictive norms, standards, the best practices or national and international recommendations in the field. The risk level has been established as moderate and so, socially acceptable. The extension of the risk assessment and the intensity of the prevention and mitigation measures of the consequences should be proportionate to the risk involved. Selection of a specific mitigation technique is depends on the analyzed accident scenario.</p> <p>More detailed assessments are conducted for accident scenarios that, based on the qualitative assessment are found to be potentially major, of probability more than 10^{-6} (reduced recovery periods of 1/1,000,000) meaning that they could have major consequences therefore, elevated associated risk, a higher risk level than 9 to 12 (on a scale of 1-25). To put this in context, simply living in southern Florida rates a 25 on the risk scale.</p> <p>A global assessment of the risks associated with the Roşia Montană Project is obtained by the quick environmental and health risk assessment methodology initially developed by the Italian Ministry of the</p>

Environment and the World Health Organization. Natural hazard and risk identification and analysis presents key data and information in assessing potential technological accidents. Thus:

- In designing the Tailings Management Facility, the design parameters were chosen to fully cover the characteristic seismic risk of the area. These seismic design parameters adopted for the TMF and other facilities on the proposed site result in a safety factor much greater than the minimum accepted under the Romanian and European design standards for such facilities;

- in the sector physically impacted by the Project, the risk of floods will remain very low due to the small catchments (controlled by the Roșia and Corna Streams) the area affected by the operation, and the creation of containment, diversion and drainage hydro-technical structures for storm waters on the site, and in the Abrud catchment in general;

- risks caused by meteorological events have been reviewed and used in assessing the hazards of the affected technological processes.

From the analysis of morphometrical parameters and their correlation with other sets of information on the natural slopes on and near the site shows that the (qualitatively estimated) landslide occurrence risk is low to moderate and its consequences will not cause major impacts on the structural components of the Project.

There is no significant risk associated with resource depletion. Mining activities are planned judiciously, so as to extract only the profitable gold and silver resources and only the necessary construction rock for the Project. The management of the mining concession site will minimize reserve "sterilization" (limitation of future access to the reserves).

In assessing technological hazards and risks, the quantity of hazardous substances on the site was calculated as a total and by category, as provided by the *Notification Procedure* approved by Ministry of Agriculture, Forestry, Water and Environment (MAFWE) Order 1084/2003. Based on an evaluation of hazardous substances in stock on the Project site in relation to the relevant quantities provided by the Government Decision 95/2003 which transposes the Seveso Directive, the Project ranges between the upper and the lower limits, and therefore S.C. Roșia Montană Gold Corporation S.A. is required to prepare a Report on Environmental Impact Assessment Study to be sent to the local environmental authority and the local civilian protection authority a *Safety Report* on its operations to prevent major accident risks.

In assessing the consequences of major accidents involving dangerous substances, physical-mathematical models accepted internationally and especially at EU level, and the current version of the SLAB (Canada) software have been used, the latter for the atmospheric dispersion of denser than air gases, that may handle a multitude of situations and scenarios. Similarly, the EFFECTSGis 5.5 (Netherlands) software, developed for the analysis of the effects of industrial accidents and of consequences. Several scenarios were considered in response to the internal legislative requirements, especially related to the implementation of the Internal Emergency Plans (GD 647/2005). The conclusions of the risk assessment for major accidents were:

- The total destruction of plant facilities may only be caused by terrorist attack with classic or nuclear weapons. Simultaneous damage to the HCl tank (including containment) and to the NaCN solution tank, the tanks containing enriched solution, to one or more leaching tanks, having as a result HCN dispersion into the air. At the same time, under certain situations and weather conditions unfavorable for dispersion, people within 40 m of the emission source, surprised by the toxic cloud for more than 1 minute without respiratory protection equipment, will most certainly die. It may also be considered that, on a radius of about 310 m, persons exposed for more than 10 minutes may suffer serious intoxications that may also lead to death. Toxic effects may occur in persons up to about 2 km downwind of the process plant;

- Operating errors and/or failures in the measurement and control devices, resulting in a lower pH in the leaching tank, thickener and/or DETOX slurry and accidental emissions of hydrocyanic acid. The area affected by concentrations of 290 ppm over a 10 min exposure time is within a circle of 36 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 157.5 m radius. The center of these circles is the middle of the CIL tanks platform;

- Accidental HCN emission from the decanter. The accident may be caused by a drop of pH in the CIL tanks combined with an overdose of flocculent solution and faulty pH monitoring systems. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 65 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 104 m radius. The center of these circles is mid-distance between the two DETOX facilities;

- Accidental HCN emission from the DETOX facility. The accident may be caused by a drop of pH in the reactors generated by an overdose of metabisulfite solution and/or copper sulphate combined with faulty pH monitoring systems. The area affected by high 1900 ppm concentrations for a 1 min exposure time is located within a 10 m radius circle. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 27 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 33 m radius. The center of these circles is mid-distance between the two DETOX facilities;

- Explosion of the LPG storage tank. The LPG storage tank has a 50 ton capacity and is located outdoors, near the heating plant. The simulation was conducted for the worst case scenario, considering an explosion of the full tank. Threshold I with heat 12.5 kW/m² is within a 10.5 m radius circle and Threshold II, of heat radiation 5 kW/m² is within a circle of 15 m radius;

- Damage and/or fire at the fuel tanks. Simulations were conducted for the worst case scenarios, considering ignition and combustion of all the diesel (fire in the tank, or in the containment vat, when full of diesel);

- Corna Dam break and breach development. Two credible accident scenarios were considered in simulating tailings flow out of the Tailings Management Facility, and six credible scenarios for the flow of decant water and tailings pore water, with significant effects on the terrestrial and aquatic ecosystems, in different weather conditions;

- Tailings flow may occur along Corna Valley, on a 800 m (starter dam break) or over 1600 m reach should the Corna dam break in its final stage;

- In regard to water quality impacts, cyanide concentrations in the water in the shape of a pollution plume may reach Arad, near the Romanian-Hungarian border on the Mureş River, in concentrations ranging between 0.03 and 0.5 mg/L. Due to inherent mathematical limitations in the models, these values and the accident effects are considered overestimated. Therefore, the results describe the “worst case scenario” based on extreme dam break assumptions for the Corna Dam.

A new and much more precise and realistic simulation has been subsequently established based on the INCA Mine model, that considers the dispersion, volatilization and breakdown of cyanides during the downstream movement of the pollutant flow (Whiteland et al., 2006).

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 (www.eurolimpacs.ucl.ac.uk). The model has been used to assess the impacts from future mining, and collection and treatment operations for pollution from past mining at Roşia Montană.

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[1] art.3, 2nd paragraph, Each Member State shall contribute to the creation of Natura 2000 (network) in proportion to the representation within its territory of the natural habitat types and the habitats of species referred to in paragraph 1. To that effect each Member State shall designate, in accordance with Article 4, sites as special areas of conservation taking account of the objectives set out in paragraph 1.

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To this end, we underline that the Directive no. 2006/21/EC referring to the management of the wastes from the extractive industry provides, at art. 2 (4), that the wastes falling under this directive are exempted from the provisions of the Directive 1999/31/EC on the wastes storing, implemented in the national legislation by GD no. 349/2995. Consequently, the provisions of the Directive 1999/31/EC do not apply to the Roşia Montană project and therefore, neither the provisions of GD no. 349/2005 are applicable. The Directive on the extractive wastes contains provisions and conditions specific in regard of the storing of this type of wastes, and which are applied with priority in report to the regulations already in existence on wastes storing.

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Detailed financial guarantees are in place, in the form of the Environmental Financial Guarantee (“EFG”), which require Roşia Montană Gold Corporation (“RMGC”) to maintain adequate funds for environmental cleanup. The EFG is updated annually and will always reflect the costs associated with reclamation. The current projected closure cost for Roşia Montană is US \$76 million, which is based on the mine operating for its full 16-year lifespan.

The EFG is governed by the Mining Law (no. 85/2003) and the National Agency for Mineral Resources instructions and Mining Law Enforcement Norms (no. 1208/2003).

Two directives issued by the European Union also impact the EFG: the Mine Waste Directive (“MWD”) and the Environmental Liability Directive (“ELD”).

The Mine Waste Directive aims to ensure that coverage is available for 1) all the obligations connected to the permit granted for the disposal of waste material resulting from mining activities and 2) all of the costs related to the rehabilitation of the land affected by a waste facility. The Environmental Liability Directive regulates the remedies, and measures to be taken by the environmental authorities, in the event of environmental damage created by mining operations, with the goal of ensuring adequate financial resources are available from the operators for environmental cleanup efforts. While these directives have yet to be transposed by the Romanian Government, the deadlines for implementing their enforcement mechanisms are 30 April 2007 (ELD) and 1 May 2008 (MWD) – thus before operations are scheduled to begin at Roşia Montană.

RMGC has already begun the process of complying with these directives, and once their implementation instruments are enacted by the Romanian Government, we will be in full compliance.

Each EFG will follow detailed guidelines generated by the World Bank and the International Council on Mining and Metals.

The annual updates will be completed by independent experts, carried out in consultation with the NAMR, as the Governmental authority competent in mining activities field. These updates will ensure that in the unlikely event of early closure of the project, at any point in time, each EFG will always reflect the costs associated with reclamation. (These annual updates will result in an estimate that exceeds our current US \$76 million costs of closure, because some reclamation activity is incorporated into the routine operations of the mine.)

A number of different financial instruments are available to ensure that RMGC is capable of covering all of the expected closure costs. These instruments, which will be held in protected accounts at the Romanian state disposal, include:

- Cash deposit ;
- Trust funds ;
- Letter of credit ;
- Surety bonds ;
- Insurance policy.

Under the terms of this guarantee, the Romanian government will have no financial liability in connection with the rehabilitation of the Roşia Montană project.

Item no.	3986 Same as: 3987, 3988, 3989, 3990, 3991, 3992, 3993, 3994, 3995, 3996, 3997, 3998, 3999, 4000, 4001, 4002, 4003, 4004, 4005, 4006, 4007, 4008, 4009, 4010, 4011, 4012, 4013, 4014, 4015
No. to identify the observations received from the public	No. 113612/25.08.2006 Same as: No. 113613/25.08.2006, No. 113614/25.08.2006, No. 113615/25.08.2006, No. 113616/25.08.2006, No. 113617/25.08.2006, No. 113618/25.08.2006, No. 113619/25.08.2006, No. 113620/25.08.2006, No. 113621/25.08.2006, No. 113612/25.08.2006, No. 113623/25.08.2006, No. 113624/25.08.2006, No. 113625/25.08.2006, No. 113626/25.08.2006, No. 113627/25.08.2006, No. 113628/25.08.2006, No. 113629/25.08.2006, No. 113630/25.08.2006, No. 113631/25.08.2006, No. 113632/25.08.2006, No. 113633/25.08.2006, No. 113586/25.08.2006, No. 113587/25.08.2006, No. 113588 and No. 113589/25.08.2006, No. 113588 and No. 113589/25.08.2006, No. 113590/25.08.2006, No. 113591/25.08.2006, No. 113592/25.08.2006, No. 113593/25.08.2006
Proposal	<p>The questioner opposes the mining project at Roşia Montană and makes the following observations and comments:</p> <ul style="list-style-type: none"> -In EIA there are no presented all the possible risks derived from this project; -The Project poses a threat for protected flora and fauna; -There is no liner proposed for the tailings pond; -The proposed waste deposits will be not constructed in conformity with the Romanian legislation in force (at least 1000 m towards the inhabited areas); -Financial guarantees for the closure and post-closure periods were not fixed. <p>SEE THE CONTENT OF THE TYPE 5 CONTESTATION</p>
Solution	<p>It is the nature of risk that it can be mitigated and diminished; it cannot be made to disappear. In order to put this into context, the common action of walking on the street or developing everyday activities have an accident potential. This accident potential is twice higher than within the framework of industrial activities that use hazardous substances.</p> <p>A major chapter of the EIA report was dedicated to the identification of risks for the project. In addition, this chapter provides a discussion of the mitigation measures for each risk and how they were incorporated into the project designs. It is recognized that risk identification is difficult due to the number and diversity of events that can be envisioned. The EIA report cannot assume to cover all of he potential risks associated with the project. However, it has attempted to identify and address the most relevant risks. The extent of risk assessment and the intensity of the prevention and mitigation measures should be proportional to the risk involved and therefore only the risks that have been considered important have been assessed in detail. Each is described below.</p> <p>In the larger sense, the entire EIA report is focused on the assessment of impacts and their associated mitigation. Specifically, Chapter 4 of the EIA presents that impact assessment of the project. The following discussion presents a summary of the impact discussed in the EIA.</p> <p>As far as natural and technological risks assessments are concerned, Chapter 7, “Risk Cases”, from the Report on Environmental Impact Assessment, emphasizes the fact that safety and prevention measures, the implementation of the environmental management and risk systems are mitigating the consequences to acceptable levels as compared to the most restrictive norms, standards, the best practices or national and international recommendations in the field. The risk level has been established as moderate and so, socially acceptable. The extension of the risk assessment and the intensity of the prevention and mitigation measures of the consequences should be proportionate to the risk involved. Selection of a specific mitigation technique is depends on the analyzed accident scenario.</p> <p>More detailed assessments are conducted for accident scenarios that, based on the qualitative assessment are found to be potentially major, of probability more than 10^{-6} (reduced recovery periods of 1/1,000,000) meaning that they could have major consequences therefore, elevated associated risk, a higher risk level than 9 to 12 (on a scale of 1-25). To put this in context, simply living in southern Florida rates a 25 on the risk scale.</p> <p>A global assessment of the risks associated with the Roşia Montană Project is obtained by the quick environmental and health risk assessment methodology initially developed by the Italian Ministry of the</p>

Environment and the World Health Organization. Natural hazard and risk identification and analysis presents key data and information in assessing potential technological accidents. Thus:

- In designing the Tailings Management Facility, the design parameters were chosen to fully cover the characteristic seismic risk of the area. These seismic design parameters adopted for the TMF and other facilities on the proposed site result in a safety factor much greater than the minimum accepted under the Romanian and European design standards for such facilities;

- in the sector physically impacted by the Project, the risk of floods will remain very low due to the small catchments (controlled by the Roșia and Corma Streams) the area affected by the operation, and the creation of containment, diversion and drainage hydro-technical structures for storm waters on the site, and in the Abrud catchment in general;

- risks caused by meteorological events have been reviewed and used in assessing the hazards of the affected technological processes.

From the analysis of morphometrical parameters and their correlation with other sets of information on the natural slopes on and near the site shows that the (qualitatively estimated) landslide occurrence risk is low to moderate and its consequences will not cause major impacts on the structural components of the Project.

There is no significant risk associated with resource depletion. Mining activities are planned judiciously, so as to extract only the profitable gold and silver resources and only the necessary construction rock for the Project. The management of the mining concession site will minimize reserve "sterilization" (limitation of future access to the reserves).

In assessing technological hazards and risks, the quantity of hazardous substances on the site was calculated as a total and by category, as provided by the *Notification Procedure* approved by Ministry of Agriculture, Forestry, Water and Environment (MAFWE) Order 1084/2003. Based on an evaluation of hazardous substances in stock on the Project site in relation to the relevant quantities provided by the Government Decision 95/2003 which transposes the Seveso Directive, the Project ranges between the upper and the lower limits, and therefore S.C. Roșia Montană Gold Corporation S.A. is required to prepare a Report on Environmental Impact Assessment Study to be sent to the local environmental authority and the local civilian protection authority a *Safety Report* on its operations to prevent major accident risks.

In assessing the consequences of major accidents involving dangerous substances, physical-mathematical models accepted internationally and especially at EU level, and the current version of the SLAB (Canada) software have been used, the latter for the atmospheric dispersion of denser than air gases, that may handle a multitude of situations and scenarios. Similarly, the EFFECTSGis 5.5 (Netherlands) software, developed for the analysis of the effects of industrial accidents and of consequences. Several scenarios were considered in response to the internal legislative requirements, especially related to the implementation of the Internal Emergency Plans (GD 647/2005). The conclusions of the risk assessment for major accidents were:

- The total destruction of plant facilities may only be caused by terrorist attack with classic or nuclear weapons. Simultaneous damage to the HCl tank (including containment) and to the NaCN solution tank, the tanks containing enriched solution, to one or more leaching tanks, having as a result HCN dispersion into the air. At the same time, under certain situations and weather conditions unfavorable for dispersion, people within 40 m of the emission source, surprised by the toxic cloud for more than 1 minute without respiratory protection equipment, will most certainly die. It may also be considered that, on a radius of about 310 m, persons exposed for more than 10 minutes may suffer serious intoxications that may also lead to death. Toxic effects may occur in persons up to about 2 km downwind of the process plant;

- Operating errors and/or failures in the measurement and control devices, resulting in a lower pH in the leaching tank, thickener and/or DETOX slurry and accidental emissions of hydrocyanic acid. The area affected by concentrations of 290 ppm over a 10 min exposure time is within a circle of 36 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 157.5 m radius. The center of these circles is the middle of the CIL tanks platform;

- Accidental HCN emission from the decanter. The accident may be caused by a drop of pH in the CIL tanks combined with an overdose of flocculent solution and faulty pH monitoring systems. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 65 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 104 m radius. The center of these circles is mid-distance between the two DETOX facilities;

- Accidental HCN emission from the DETOX facility. The accident may be caused by a drop of pH in the reactors generated by an overdose of metabisulfite solution and/or copper sulphate combined with faulty pH monitoring systems. The area affected by high 1900 ppm concentrations for a 1 min exposure time is located within a 10 m radius circle. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 27 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 33 m radius. The center of these circles is mid-distance between the two DETOX facilities;

- Explosion of the LPG storage tank. The LPG storage tank has a 50 ton capacity and is located outdoors, near the heating plant. The simulation was conducted for the worst case scenario, considering an explosion of the full tank. Threshold I with heat 12.5 kW/m² is within a 10.5 m radius circle and Threshold II, of heat radiation 5 kW/m² is within a circle of 15 m radius;

- Damage and/or fire at the fuel tanks. Simulations were conducted for the worst case scenarios, considering ignition and combustion of all the diesel (fire in the tank, or in the containment vat, when full of diesel);

- Corna Dam break and breach development. Two credible accident scenarios were considered in simulating tailings flow out of the Tailings Management Facility, and six credible scenarios for the flow of decant water and tailings pore water, with significant effects on the terrestrial and aquatic ecosystems, in different weather conditions;

- Tailings flow may occur along Corna Valley, on a 800 m (starter dam break) or over 1600 m reach should the Corna dam break in its final stage;

- In regard to water quality impacts, cyanide concentrations in the water in the shape of a pollution plume may reach Arad, near the Romanian-Hungarian border on the Mureş River, in concentrations ranging between 0.03 and 0.5 mg/L. Due to inherent mathematical limitations in the models, these values and the accident effects are considered overestimated. Therefore, the results describe the “worst case scenario” based on extreme dam break assumptions for the Corna Dam.

A new and much more precise and realistic simulation has been subsequently established based on the INCA Mine model, that considers the dispersion, volatilization and breakdown of cyanides during the downstream movement of the pollutant flow (Whiteland et al., 2006).

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 (www.eurolimpacs.ucl.ac.uk). The model has been used to assess the impacts from future mining, and collection and treatment operations for pollution from past mining at Roşia 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 physical-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, an information sheet presenting the INCA modeling work is presented under the title of the Mureş River Modeling Program and the full modeling report is presented in Annex 5.1:

- Development of HCN on the tailings pond surface. Simulated emissions of HCN from the Tailings Management Facility pond surface and of their dispersion into the ambient air show that the level

of 400µ g/m³ hourly average and 179µ g/m³ 8hr average will not be exceeded. These HCN concentrations are only slightly over the odor threshold (0.17ppm) and much below potentially dangerous concentrations;

- Cetate Dam break and breach development. Flood modeling was in case of a break in Cetate dam was based on the design parameters obtained from the hydrometeorological study "Assessment of rainfall intensity, frequency and runoff for the Roşia Montană Project - Radu Drobot". The breach characteristics were predicted using the BREACH model, and the maximum height of the flood wave in various flow sections was modeled using the FLDWAV software. The assumptions included a total 800000 m³ discharge for one hour, when the peak of the flood hydrograph is about 4.9 m above base flow immediately below the dam and in the narrow Abrud valley 5.9-7,5 km downstream of the dam, while in the last section considered (10,5 km) water depth is about 2.3 m above base flow and the maximum flow rate 877 m³/s. Further, the broader Aries valley allows the flood wave to propagate on a significantly wider bed, which results in a highly attenuated hydrograph. These results describe the "worst case scenario" based on extreme dam break assumptions:

- Accidents during cyanide transportation. Due to the large quantities of cyanide transported (about 30t /day) the risks associated to this activity were assessed in detail using the ZHA- Zurich Hazard Analysis method. As a consequence, the optimum transport route was selected from the manufacturer to the Process Plant, e.g.;

- Cyanide transport (in solid state) will exclusively involve special SLS (Solid to Liquid System) containers, 16 tons each. The ISO compliant container will be protected by a framework with legs, which allows separation from the transport trailer for temporary storage. The wall is 5.17 mm thick, which, together with the protective framework, provides additional protection to the load in case of accident. This system is considered BAT and is currently one of the safest cyanide transportation options.

It is being mentioned the fact that the study develops the occurrence possibility of these scenarios (pages 166-171, Conclusions).

As regards the cyanides management, there is a baseline study named "Roşia Montană Golden Project, Cyanides Management Plan" prepared in compliance with the "International Management Code for the Manufacture, Transport and Use of Cyanide in the Production of Gold (International Cyanide management Institute) May 2002". S.C. Roşia Montană Gold Corporation is signatory to this code.

Bibliographical references for Chapter 7 "Risk Cases" are listed at page173-176.

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The impact on protected flora and fauna will exist only locally, but this impact will not lead to the loss of any specie. The Project has been designed even from the beginning to fully comply with the requirements and norms imposed by Romanian and European environmental legislation.

The company believes the fact that the project impact on environment remains significant, especially because covers previous impacts. But, the investments required to ecologically restore/rehabilitate Roşia Montană area in order to address current complex environmental issues, are only achievable following the implementation of some economic projects that will generate and warrant implementation of some direct and responsible actions as a component of base principles of sustainable development concepts. Clean processes and technologies may be developed only in the presence of a solid economic environment fully compliant with the environment that will also resolve previous impacts of anthropic activities.

The base documents of the Project are in fact an unbiased reason of its implementation, considering the highly complex environmental commitment within Roşia Montană area.

Some of the Roşia Montană species that are under a certain protection status stand for an insignificant percentage of the scale of populations estimated at national level. The characterization of species from their habitat point of view exists in the species tables presented in the Biodiversity Chapter of the EIA Report and its annexes, although this is not a requirement imposed by the Habitats Directive. Due to their large volume of information, the annexes of chapter 4.6 Biodiversity can be found in the electronic version of the EIA disclosed by the company both in Romanian and English through approx. 6,000 DVD/CD copies, being accessible on the company website, and on the websites of Ministry of Environment and Water Management, local and regional environmental protection agencies of Alba, Sibiu, Cluj, etc.

From practical point of view, the low value of conservation of the impact area is also indirectly emphasized by the fact that there is no proposal to designate the area a SPA (aviafaunistic special protected area) and by the denial as unfounded of the proposal to designate the area as a pSCI area (sites of community importance).

Taking all these into account, we believe that the proposed Project is compliant with the provisions of EU Directive no. 92/43 Habitats[1], and EU Directive no. 79/409 Birds[2] respectively, especially because within Biodiversity Management Plan, Plan H, several active and responsible measures are provided to reconstruct/rehabilitate several natural habitats, pursuant to the provisions of the same documents [3].

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Please consider that the provisions of annex no. 2 to the Government Decision no. 349/2005 on the storing of the wastes, for the verification of the location, regarding *„the positioning in report to the existing or planned populated areas, the protection distance to the warehouse body must be of at least 1,000 meters for the non-dangerous and dangerous wastes deposits”*, do not apply in case of the mining wastes.

The Ministry of Environment and Waters Management, by the Hazardous Chemical Substances and Wastes Management Direction, requested the project titleholder, by the Guidelines sent with a view to the performance of the evaluation of the environmental impact, according to the provisions of the Order of the Minister of Waters and Environmental Protection no. 860/2002 on the environmental impact assessment and environmental approval issuance Procedure, that this project “must be in compliance with the provisions of the new CE Directive on the management of the wastes from the extractive industry”.

To this end, we underline that the Directive no. 2006/21/EC referring to the management of the wastes from the extractive industry provides, at art. 2 (4), that the wastes falling under this directive are exempted from the provisions of the Directive 1999/31/EC on the wastes storing, implemented in the national legislation by GD no. 349/2995. Consequently, the provisions of the Directive 1999/31/EC do not apply to the Roşia Montană project and therefore, neither the provisions of GD no. 349/2005 are applicable. The Directive on the extractive wastes contains provisions and conditions specific in regard of the storing of this type of wastes, and which are applied with priority in report to the regulations already in existence on wastes storing.

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Detailed financial guarantees are in place, in the form of the Environmental Financial Guarantee (“EFG”), which require Roşia Montană Gold Corporation (“RMGC”) to maintain adequate funds for environmental cleanup. The EFG is updated annually and will always reflect the costs associated with reclamation. The current projected closure cost for Roşia Montană is US \$76 million, which is based on the mine operating for its full 16-year lifespan.

The EFG is governed by the Mining Law (no. 85/2003) and the National Agency for Mineral Resources instructions and Mining Law Enforcement Norms (no. 1208/2003).

Two directives issued by the European Union also impact the EFG: the Mine Waste Directive (“MWD”) and the Environmental Liability Directive (“ELD”).

The Mine Waste Directive aims to ensure that coverage is available for 1) all the obligations connected to the permit granted for the disposal of waste material resulting from mining activities and 2) all of the costs related to the rehabilitation of the land affected by a waste facility. The Environmental Liability Directive regulates the remedies, and measures to be taken by the environmental authorities, in the event of environmental damage created by mining operations, with the goal of ensuring adequate financial resources are available from the operators for environmental cleanup efforts. While these directives have yet to be transposed by the Romanian Government, the deadlines for implementing their enforcement mechanisms are 30 April 2007 (ELD) and 1 May 2008 (MWD) – thus before operations are scheduled to begin at Roşia Montană.

RMGC has already begun the process of complying with these directives, and once their implementation instruments are enacted by the Romanian Government, we will be in full compliance.

Each EFG will follow detailed guidelines generated by the World Bank and the International Council on Mining and Metals.

The annual updates will be completed by independent experts, carried out in consultation with the NAMR, as the Governmental authority competent in mining activities field. These updates will ensure that in the unlikely event of early closure of the project, at any point in time, each EFG will always reflect the costs associated with reclamation. (These annual updates will result in an estimate that exceeds our current US \$76 million costs of closure, because some reclamation activity is incorporated into the routine operations of the mine.)

A number of different financial instruments are available to ensure that RMGC is capable of covering all of the expected closure costs. These instruments, which will be held in protected accounts at the Romanian state disposal, include:

- Cash deposit ;
- Trust funds ;
- Letter of credit ;
- Surety bonds ;
- Insurance policy.

Under the terms of this guarantee, the Romanian government will have no financial liability in connection with the rehabilitation of the Roşia Montană project.

Item no. 4016

No. to identify the observations received from the public No. 113014/ 25.08.2006

Proposal

The questioner opposes the mining project at Roşia Montană and makes the following observations and comments:

- The EIA is subjective and manipulative;
- Within EIA the baseline of the Roşia Montană commune and the impact on area caused by the Company until now are not presented;
- The project does not provide the durable development of the area but only the infrastructure development;
- The report regarding the biodiversity is insufficiently treated;
- The impact of the four open pits on the protected area and historical monuments preserved in situ is not clearly estimated.

SEE CONTESTATION COPY

We disagree with the assertion that the Environmental Impact Assessment study report (EIA) is subjective and manipulative. We base our opinion on the fact that the EIA that Roşia Montană Gold Corporation (RMGC) submitted responded fully and professionally to the Terms of Reference proposed by the Ministry of the Environment and Water Management (MEWM) and complied with the relevant legal provisions and international practices.

More than 100 independent consultants, (certified) experts and specialists renowned at the national, European, and even international levels, prepared the report. We are confident that the EIA provides sufficiently detailed information and reasoning for its conclusions to permit the MEWM to make its decision on the Roşia Montană Project (RMP). Subsequent to submission of the EIA, it has been reviewed by two different sets of experts. Technical experts representing several international private sector banks and export credit agencies have concluded that the EIA complies with the Equator Principles designed to promote responsible lending by financial institutions to projects which raise environmental and social concerns, and an ad hoc committee of European experts (International Group of Independent Experts - IGIE) has publicly stated that the EIA was well-developed, taking into consideration their recommendations and suggestions.

Solution

A copy of the IGIE report and RMGC's response are included as a reference document to the present annex of the EIA.

Considering that your allegation does not specifically identify nor indicate relevant issues related to the project initiated by RMGC and undergoing the environment impact assessment procedure, but merely provides a general comment, we mention that the project titleholder cannot and does not have the capacity to provide any further comments in this respect.

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As regards your statement, please be so kind to take notice of the following aspects:

The baselines were described in eleven Reports containing a detailed analysis of the conditions related to the environment, heritage and population health on site and inside the project impact area. These reports are included in Volumes 1-6 of the documentation submitted to the Ministry of Environment and Water Management on May 15, 2006. This document includes three large sections:

- The baseline reports – volumes 1- 6;
- The Report on the Environmental Impact Assessment Study (EIA) – volumes 7-20 containing, in each chapter/section, a brief presentation of the baselines based on which the impact assessment was conducted, for the purpose of estimating and measuring the potential impact;
- The Management Plans from A to M included in volumes 21- 33, present the measures proposed

for the prevention/mitigation/elimination of the potential impact of the Roşia Montană project.

According to the legal provisions in force (Government Decision no. 918/2002 abrogated by Government Decision no. 1213/2006 and Ministerial Orders no. 860 /2002 and no. 863/2002, as subsequently amended and supplemented) transposing the Environmental Impact Assessment Directive 85/337/EEC, Roşia Montană Gold Corporation (RMGC) had only the obligation to submit the EIA Report.

RMGC has committed to comply with the Romanian legislation, the European Union directives and international guidelines and recommendations. For this reason, the design criteria have taken into consideration the BAT (Best Available Techniques) and BMP (Best Management Practice). The result of these commitments is also the environmental permitting documentation which contains, in addition to the EIA Report, the Baseline Reports prepared during the period 1999-2006 and the Management Plans prepared as part of the environmental impact assessment process, which may be a novelty for the environmental permitting procedure in Romania.

The Company's impact on the area is presented in Chapter 4 *Potential Impact*, sub-chapter 4.8 *Social and Economic Impact*, Section 6.2 Tale 4.6-2. page 40, where you can find the types of impact occurring during each stage of the project. Due to the fact that the project is at the development stage, we cannot discuss other types of significant impact, such as the impact on the environmental media.

All the operation preliminary activities have been authorized in accordance with the legal requirements. No incident that may cause the pollution of environmental media has occurred. The only activities performed to date, that involved physical operations on site, have been the geological drilling exploration and archaeological research activities. All the locations that have been subject to this type of activities have been rehabilitated after completion of the research.

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As detailed in the Environmental Impact Assessment Report Study (EIA), the project contributes to both infrastructure improvements and sustainable development in the region.

A starting premise to this context is that RMGC is committed to ensuring that the Roşia Montană Project (RMP) will be a catalyst for local and regional economic development. It is recognised that, as with any major industrial development, impacts will be positive and negative. RMGC commits to work alone and in partnership to ensure that beneficial impacts will be maximised. RMGC will priorities a participatory approach wherever possible and will seek guidance from local and regional authorities and from the community when deciding on issues that may impact the area's development. Negative impacts will be mitigated through measures as described in the EIA report.

RMGC recognizes that in order to ensure it meets its sustainable development commitments it must support, as a minimum, five key interrelated areas that make up the three traditional pillars of sustainable development - social, environmental and economic. These areas are presented below as five capitals of sustainable development.

RMGC has developed its Sustainable Development Policy [1] in support of this and this is presented further on in this annex. Supporting elements are also presented, as are a set of Authority, Community, and Company initiatives within the Roşia Montană Sustainable Development Partnerships and Programs.

1. Five Capitals of Sustainable Development

Financial Capital

Economic Development Impact, fiscal management, taxes

- Average of 1200 jobs during construction over 2 years, the majority of which sourced locally
- 634 jobs during operations (direct employment including contracted employment for cleaning, security, transportation, and other), for 16 years, most of which sourced locally
- Some 6000 indirect jobs for 20 years, locally & regionally [2]
- US\$ 1billion in profit share, profit tax, royalties and other taxes and fees to Romanian local, regional & national government
- US\$ 1.5 billion procuring goods & services. US\$ 400 million during construction (2 years) and US\$ 1.1 billion during production, from Romania (16 years)

To further promote and develop the economic opportunities presented by the RMP, RMGC is also cooperating with local stakeholders regarding setting up their own businesses:

- The set up of a micro-credit finance facility in the area to allow access to affordable financing
- The set up of a business centre and incubator units, offering mentoring, training (entrepreneurial, business plans, fiscal & administrative management, etc), legal, financial & administrative advice to promote local & regional business development both to service the RMP but also to encourage entrepreneurship in preparation of the post-mining sustainable development needs,

Physical Capital

Infrastructure – including buildings, energy, transport, water and waste management facilities

- Increases in revenue to government agencies, of the order of US\$ 1 billion over 20 years (construction + production + closure) will result in additional money the government may allocate to improving community infrastructure
- RMGC will also develop the resettlement sites of Piatra Albă and Dealul Furcilor in Alba Iulia. Piatra Albă will contain a new civic centre, commercial and residential areas. These will be transferred to the local authorities once complete. The RRAP contains full details of these initiatives

Human Capital

Health and education

- A private dispensary & health clinic in Piatra Albă (see RRAP), accessible to wider community through health insurance
- Upgrading of a wing of Abrud hospital, accessible to the wider community through the national Romanian health system
- Improvement of mobile emergency medical system in the area
- The building of a new school, residential & civic centre in Piatra Albă. This is fully described in the RRAP
- Health awareness campaigns (in partnership with local authorities & NGOs) covering: reproductive health, diet, and lifestyle amongst others
- Partnerships with education providers & NGOs concerning access to & improvement of education facilities in the area, e.g.: the NGO and local authorities lead CERT Educational Partnership (www.certapusen.ro).

Social Capital

Skills training, community relationships and social networks and the institutional capacity to support them, preservation of cultural patrimony

- Efforts to develop and promote Roşia Montană's cultural heritage for both locals and tourism – RMGC is a partner in the Roşia Montană Cultural Heritage Partnership (info@rmchp.ro)
- Providing adult education opportunities and skills enhancement including training programs, funds and scholarships, to increase employment chances both direct with RMGC and indirect – RMGC is a partner in the Roşia Montană Professional and Vocational Program (info@rmpvtp.ro)
- Programs assisting vulnerable people & groups, and to consolidate social networks particularly in Roşia Montană – RMGC is a partner in the Roşia Montană Good Neighbour Program lead by local NGO ProRoşia (info@rmgnp.ro)
- RMGC supports a NGO-lead partnership working with the youth in the area to improve and increase the capacity of the community (www.certapusen.ro).

Natural Capital

Landscape, biodiversity, water quality, ecosystems

- Measures contained in the RMP management plans and SOPs will result in mitigation of environmental impacts and conditions as identified in the EIA.
- The improved environmental condition will enhance the quality of life in Roşia Montană.
- Training & assistance in integrating environmental considerations into business plans.
- Awareness-building regarding positive environmental performance of business activities.
- Environmental standards associated with loans through the micro-credit finance facility including monitoring of environmental performance.
- Business Code of Conduct requiring suppliers to RMP to comply with RMGC's environmental

performance standards.

RMGC's view of the social and economic benefits of the RMP is described in the Community Sustainable Development Plan and EIA Chapter 4.8 – the Social and Economic Environment.

In order to achieve its commitments, RMGC acknowledges that it needs to collaborate with the Community, Authorities and civil society on issues that impact the area's development. This approach allows the Community to own, direct and control all relevant development issues in a multi-stakeholder and integrated manner.

In the spirit of that commitment, to date, RMGC has conducted extensive consultations, including 1262 individual meetings and interviews, and the distribution of questionnaires for which over 500 responses have been received, 18 focal group meetings, and 65 public debates, in addition to holding discussions with government authorities, non-governmental organisations and potentially affected stakeholders. Feedback has been used in the preparation of the Management Plans of the RMP's Environmental Impact Assessment (EIA) as well as the drafting of the Annex to the EIA.

Support of the area's sustainable development will be conducted within the framework of Partnership as promoted by organisations such as the United Nations Development Program (UNDP). For example, future socio-economic impacts mitigation and enhancement measures will be conducted under the guidance of the Roşia Montană Socio-Economic Research Centre (info@rmserc.ro), which in turn is partnered with the local authorities. This will allow a transparent evaluation of the effectiveness of sustainable development support and will provide a forum to implement necessary improvements.

Other sustainable development support partnerships are presented under the section entitled Roşia Montană Sustainable Development Programs and Partnerships further in this annex (www.rmsdpps.ro).

Beyond immediate direct and indirect benefits, the presence of the RMP as a major investment improves the area's economic climate, that will in turn encourage the development of non-mining activities. It is expected that the improved investment and economic climate will lead to business opportunities that can develop concurrent with the RMP, even as they extend well beyond economic activities related directly to mining operations. This diversification of economic development is a critical benefit of the investments generated to realise the RMP.

For more information, please see Roşia Montană Sustainable Development and the Roşia Montană Project – annex 4.

References:

[1] This is an updated version of the policy already presented in the EIA management plans – it has been improved following feedback during public consultation.

[2] Economists have argued that the multiplier effect for the RMP is in the order of 1 Direct job to 30 Indirect Full Time Job Equivalents over twenty years – the methodology used may be available via a direct request to RMGC. However, the more conservative 1 : 10 Direct : Indirect figure is used here to maintain consistency with internationally accepted multiplier effects for large mining projects in impoverished regions, such as mentioned in UNCTAD (2006) *Commodity policies for development: a new framework for the fight against poverty*. TD/B/COM.1/75, Geneva, Switzerland. From experience, this is also the number most often quoted in Canada.

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All biodiversity issues are studied within three different documents: *Biodiversity Baseline Report* (of 69 pages), Chapter 4.6 of *Report on Environmental Impact Assessment Study* that was prepared in full compliance with the provisions of Minister Order 863/2002 (which has 112 pages, and includes 4 annexes and 4 exhibits), and finally *The Biodiversity Management Plan* (which has 31 pages).

Due to the fact that we wanted to warrant the accessibility of our study, several unbiased limitations that have been reflected upon the biodiversity chapter.

The entire EIA has over 4500 pages.

Due to the utility of the analyzed document as a technical-administrative instrument that will subsequently facilitate and serve the decision making process, at any given moment the issue of preparing an exhaustive study that will deplete to the smallest details all biodiversity aspects, was not discussed.

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In the case of Roșia Montană, the following areas with archeological remains are classified in the List 2004 of Historical Monuments: - Alburnus Maior archeological site; - Roșia Montană (without other placement or delimitation specifications) with its components: Roman settlement from Alburnus Maior, Orlea area; Roman mine from Alburnus Maior, Orlea Massif; Roman vestiges from Alburnus Maior, Carpeni area; Roman funerary precincts from "Hop-Găuri" area; "Cătălina Monulești" gallery from protected area of the historical center of the locality; Roman galleries from Cărnic massif, "Piatra Corbului" location.

The historical centre of the Roșia Montană locality is also classified in the List 2004 of Historical Monuments, with the following locational details: "Targul satului", Market place, Berg district, Brazilor Street and the area upstream to market place towards lakes. According to the provisions of the Law 5/2000 regarding the approval of the National Territory Arranging Plan – Section III - Protected Areas (Art. 5, paragraphs 2-3), the local public administration authorities, with the support of the competent central public authorities, had the obligation to delimit on the basis of specialty studies, in a period of 12 months from the date of the Law 5/2000 (the protection area of the cultural patrimony values as mentioned in annex no. III of the respective law) specifically the historical centre of the Roșia Montană locality. In order to establish the protected areas, the local public administration authorities had to develop the urbanism documentation and the related regulations, defined and approved according to law, which had to contain the necessary protection and preservation measures for the national cultural patrimony values from area.

On the basis of these legal provisions, beginning in 2001 RMGC has initiated the development process of these specific urbanism documents – General Urbanism Plan and Zonal Urbanism Plan. These were developed by certified Romanian companies who followed the legal procedures for approval. The approval for the establishment of the Roșia Montană Protected Area-Historical Centre was issued by the Ministry of Culture and Religious Affairs in 2002 (approvals no. 61/14.02.2002 and no.178/20.06.2002) as part of the authorization procedure for the urbanism documentation. Based on these approvals, the Ministry of Culture and Religious Affairs solicited the development of the Zonal Urbanism Plan for the Central Historical area. Out of 41 buildings that are historical monuments, 35 are situated within the Roșia Montană Protected Area-Historical Centre, of which one is the Catholic Church. According to the recommendations of the National Commission of Historical Monuments, the surface of this area was considerably increased. This area will be restored and preserved in its totality, including a mining museum comprising several sections – an open air exposition with all traditional-historical households and industrial patrimony elements, an exposition regarding the mining history of Roșia Montană and Apuseni Mountains, an underground museum circuit around the Cătălina Monulești historical gallery in which most of the waxed plates were discovered many years ago (centuries XVIII – XIX). The company does not intend to transform this area into a museum, taking into account the fact that all houses including the restored building historical monuments will be occupied by locals, or by people working at the Roșia Montană Project in the case when the locals will choose the relocation.

As regards to potential impacts on protected areas, in March 2006 a specialist study was developed regarding the preservation state of each building historical monument. This study was developed by IPROMIN and the Technical University of Constructions from Bucharest, institutions with great expertise in the field of mining design and construction safety. This study identifies measures for the reinforcing of all these buildings. Also, the same institutions devised an experimental study to measure the vibrations induced by blasting activities within the protected area of the historical centre and inside the area of this group of historical monument houses situated outside the protected area. The measurements have been performed by the simulation of a large blasting of 3,000 kg of explosive, detonated in normal conditions without delay stages or the application of other modern technologies, used currently in the modern mining activity. The mitigation measures for the potential impact generated by blasting in the four open pits on the historical monuments have been designed on the basis of this study.

RMGC has publicly committed to an ample rehabilitation and restoration program of the historical

monuments and Roşia Montană Protected Area-Historical Centre within the Environment Impact Study, based on the technical and safety measures in order that the future mining operation would not affect these structures. These special technical and safety measures will be implemented both within the protected area Roşia Montană Historical Centre (restoration-reinforcement-preservation) and industrial perimeter (utilization of special blasting techniques, establishment of buffer areas between the two perimeters, ongoing monitoring of vibrations and blasting adjustment depending on wave propagation speed, etc.).

For the funerary precinct at Tăul Găuri, on the basis of conclusions of archeological researches from 2002, the research team proposed the preservation of this monument *in situ*. The National Archeology Commission gave the approval and the Ministry of Culture and Religious Affairs disposed its including into the List 2004 of Historical Monuments. This monument was included under the name of *Roman funerary monument from Hoş-Găuri* area (Code LMI AB-I-m-A-00065.04). The funerary monument from Tău Găuri will not be affected by the industrial roads from its vicinity, these being situated at the edge of its protection area, at a great enough distance so that this structure will not be affected and may become an important tourism objective within the strategic context of sustainable development of Roşia Montană. Through the Report on the Environmental Impact Study vol. 32, respectively the Archaeological Heritage Management Plan from Roşia Montană Area, p.84-85, RMGC company committed to provide the funds necessary to restore and preserve this heritage.

As regards Piatra Corbului and Piatra Despicață, these are classified according to Law 5/2000 regarding the approval of the National Territory Arranging Plan - Section III – protected areas at section Natural Protected Areas of National Interest and Natural Monuments, points 2.8 (Piatra Despicață) and 2.83 (Piatra Corbului).

At the same time, as a result of archeological researches performed at Roşia Montană through the Alburnus Maior National Research Program, financed in accordance with legal provisions by RMGC, the Piatra Corbului area has been classified as historical monument, as the Roman galleries from Cărniceş massif and "Piatra Corbului" area (code LMI AB-I-s-A-20329), (according to Official Gazette No. 646 bis, from 16.07.2004, Alba County, position 146).

The project proposed by RMGC will not affect Piatra Corbului, which is situated outside the proposed Cărniceş open pit. All the technical measures of minimizing impact will be taken during the operational stage near this area, so that its integrity will not be affected.

As regards Piatra Despicață, this is an andesite block with a weight of about two tons. In 2002, the Commission for Natural Monument Protection of the Romanian Academy, as a result of the documentation submitted by SC Agraro Consult SRL, approved its relocation to another site unaffected by the future operations. Consequently, by means of normal technical equipment for objects of this size, and under coordination and supervision, Piatra Despicață will be relocated to a placement approved by Romanian Academy and Ministry of Culture and Religious Affairs. Through the Report on the Environment Impact Study, Vol. 32 particularly the Management Plan for Archeological Patrimony from Roşia Montană area, p. 84-85, RMGC committed itself to provide the necessary funds for restoration and preservation of this monument.

In conclusion, where the archeological realities required, or where the historical monuments were situated too close to proposed industrial facilities, the development plans were reconsidered in order to relocate some elements of infrastructure so that no historical monument would be affected by project. In practical terms, the preservation and restoration *in situ* of several archaeological remains and of all historical buildings were chosen, so that these monuments could become the basis of the modern tourism from Roşia Montană in the context of mining project development. Taking into account the importance of the cultural patrimony from Roşia Montană and current legislation, SC Roşia Montană Gold Corporation SA allocated during the period 2001-2006 a budget of over USD 10 million for patrimony investigation. Moreover, considering the research results, the specialists' opinions, and the competent authorities' decisions, the budget estimated by the company for research, preservation and restoration of the Roşia Montană cultural patrimony during the future years of project implementation, is USD 25 million, as was publicly announced within the Report on Environment Impact Study in May 2006 (see the Report on Environment Impact Study, vol. 32, Management Plan for Archeological Patrimony from Roşia Montană Area, p. 78-79). In this way, the establishment of a **Modern Mining Museum** with exhibitions on

geology, archeology, industrial and ethnographic patrimony is planned, as is the tourism routes to the **Cătălina Monulești** gallery and to **Tău Găuri** monument, and also the **preservation and restoration of the 41 buildings historical monument and protected area Roșia Montană Historical Centre** plus the continuation of the researches in Orlea area.

As regards the detailed information on the main archeological remains, historical monuments, churches and cemeteries, as well as a series of considerations regarding their protection and the specific measures foreseen by management plans, please consult the annex entitled “Information on the Cultural Heritage of Roșia Montană and Related Management Aspects”.

Item no.	4017 Same as: 4018, 4019, 4020, 4021, 4022, 4023, 4024, 4025, 4026, 4027, 4028, 4029, 4030, 4031, 4032, 4033, 4034, 4035, 4036, 4037, 4038, 4039, 4040, 4041, 4042, 4043, 4044, 4045
No. to identify the observations received from the public	No. 113108/25.08.2006 Same as: No. 113109/25.08.2006, No. 113110/25.08.2006, No. 113111/25.08.2006, No. 113112/25.08.2006, No. 113113/25.08.2006, No. 113114/25.08.2006, No. 113115/25.08.2006, No. 113116/25.08.2006, No. 113117/25.08.2006, No. 112477/25.08.2006, No. 112476/25.08.2006, No. 112475/25.08.2006, No. 112474/25.08.2006, No. 112473/25.08.2006, No. 112472/25.08.2006, No. 112471/25.08.2006, No. 112470/25.08.2006, No. 112469/25.08.2006, No. 112468/25.08.2006, No. 112467/25.08.2006, No. 112466/25.08.2006, No. 112465/25.08.2006, No. 112464/25.08.2006, No. 112463/25.08.2006, No. 112462/25.08.2006, No. 112461/25.08.2006, No. 112460/25.08.2006, No. 112459/25.08.2006
Proposal	<p>The questioner opposes the mining project at Roşia Montană and makes the following observations and comments:</p> <ul style="list-style-type: none"> -In EIA there are no presented all the possible risks derived from this project; poses a threat for protected flora and fauna; -There is no liner proposed for the tailings pond; -The proposed waste deposits will be not constructed in conformity with the Romanian legislation in force (at least 1000 m towards the inhabited areas); -Financial guarantees for the closure and post-closure periods were not fixed. <p>SEE THE CONTENT OF THE TYPE 5 CONTESTATION</p>
Solution	<p>It is the nature of risk that it can be mitigated and diminished; it cannot be made to disappear. In order to put this into context, the common action of walking on the street or developing everyday activities have an accident potential. This accident potential is twice higher than within the framework of industrial activities that use hazardous substances.</p> <p>A major chapter of the EIA report was dedicated to the identification of risks for the project. In addition, this chapter provides a discussion of the mitigation measures for each risk and how they were incorporated into the project designs. It is recognized that risk identification is difficult due to the number and diversity of events that can be envisioned. The EIA report cannot assume to cover all of he potential risks associated with the project. However, it has attempted to identify and address the most relevant risks. The extent of risk assessment and the intensity of the prevention and mitigation measures should be proportional to the risk involved and therefore only the risks that have been considered important have been assessed in detail. Each is described below.</p> <p>In the larger sense, the entire EIA report is focused on the assessment of impacts and their associated mitigation. Specifically, Chapter 4 of the EIA presents that impact assessment of the project. The following discussion presents a summary of the impact discussed in the EIA.</p> <p>As far as natural and technological risks assessments are concerned, Chapter 7, “Risk Cases”, from the Report on Environmental Impact Assessment, emphasizes the fact that safety and prevention measures, the implementation of the environmental management and risk systems are mitigating the consequences to acceptable levels as compared to the most restrictive norms, standards, the best practices or national and international recommendations in the field. The risk level has been established as moderate and so, socially acceptable. The extension of the risk assessment and the intensity of the prevention and mitigation measures of the consequences should be proportionate to the risk involved. Selection of a specific mitigation technique is depends on the analyzed accident scenario.</p> <p>More detailed assessments are conducted for accident scenarios that, based on the qualitative assessment are found to be potentially major, of probability more than 10^{-6} (reduced recovery periods of 1/1,000,000) meaning that they could have major consequences therefore, elevated associated risk, a higher risk level than 9 to 12 (on a scale of 1-25). To put this in context, simply living in southern Florida rates a 25 on the risk scale.</p> <p>A global assessment of the risks associated with the Roşia Montană Project is obtained by the quick environmental and health risk assessment methodology initially developed by the Italian Ministry of the</p>

Environment and the World Health Organization. Natural hazard and risk identification and analysis presents key data and information in assessing potential technological accidents. Thus:

- In designing the Tailings Management Facility, the design parameters were chosen to fully cover the characteristic seismic risk of the area. These seismic design parameters adopted for the TMF and other facilities on the proposed site result in a safety factor much greater than the minimum accepted under the Romanian and European design standards for such facilities;

- in the sector physically impacted by the Project, the risk of floods will remain very low due to the small catchments (controlled by the Roșia and Corma Streams) the area affected by the operation, and the creation of containment, diversion and drainage hydro-technical structures for storm waters on the site, and in the Abrud catchment in general;

- risks caused by meteorological events have been reviewed and used in assessing the hazards of the affected technological processes.

From the analysis of morphometrical parameters and their correlation with other sets of information on the natural slopes on and near the site shows that the (qualitatively estimated) landslide occurrence risk is low to moderate and its consequences will not cause major impacts on the structural components of the Project.

There is no significant risk associated with resource depletion. Mining activities are planned judiciously, so as to extract only the profitable gold and silver resources and only the necessary construction rock for the Project. The management of the mining concession site will minimize reserve "sterilization" (limitation of future access to the reserves).

In assessing technological hazards and risks, the quantity of hazardous substances on the site was calculated as a total and by category, as provided by the *Notification Procedure* approved by Ministry of Agriculture, Forestry, Water and Environment (MAFWE) Order 1084/2003. Based on an evaluation of hazardous substances in stock on the Project site in relation to the relevant quantities provided by the Government Decision 95/2003 which transposes the Seveso Directive, the Project ranges between the upper and the lower limits, and therefore S.C. Roșia Montană Gold Corporation S.A. is required to prepare a Report on Environmental Impact Assessment Study to be sent to the local environmental authority and the local civilian protection authority a *Safety Report* on its operations to prevent major accident risks.

In assessing the consequences of major accidents involving dangerous substances, physical-mathematical models accepted internationally and especially at EU level, and the current version of the SLAB (Canada) software have been used, the latter for the atmospheric dispersion of denser than air gases, that may handle a multitude of situations and scenarios. Similarly, the EFFECTSGis 5.5 (Netherlands) software, developed for the analysis of the effects of industrial accidents and of consequences. Several scenarios were considered in response to the internal legislative requirements, especially related to the implementation of the Internal Emergency Plans (GD 647/2005). The conclusions of the risk assessment for major accidents were:

- The total destruction of plant facilities may only be caused by terrorist attack with classic or nuclear weapons. Simultaneous damage to the HCl tank (including containment) and to the NaCN solution tank, the tanks containing enriched solution, to one or more leaching tanks, having as a result HCN dispersion into the air. At the same time, under certain situations and weather conditions unfavorable for dispersion, people within 40 m of the emission source, surprised by the toxic cloud for more than 1 minute without respiratory protection equipment, will most certainly die. It may also be considered that, on a radius of about 310 m, persons exposed for more than 10 minutes may suffer serious intoxications that may also lead to death. Toxic effects may occur in persons up to about 2 km downwind of the process plant;

- Operating errors and/or failures in the measurement and control devices, resulting in a lower pH in the leaching tank, thickener and/or DETOX slurry and accidental emissions of hydrocyanic acid. The area affected by concentrations of 290 ppm over a 10 min exposure time is within a circle of 36 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 157.5 m radius. The center of these circles is the middle of the CIL tanks platform;

- Accidental HCN emission from the decanter. The accident may be caused by a drop of pH in the CIL tanks combined with an overdose of flocculent solution and faulty pH monitoring systems. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 65 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 104 m radius. The center of these circles is mid-distance between the two DETOX facilities;

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- Damage and/or fire at the fuel tanks. Simulations were conducted for the worst case scenarios, considering ignition and combustion of all the diesel (fire in the tank, or in the containment vat, when full of diesel);

- Corna Dam break and breach development. Two credible accident scenarios were considered in simulating tailings flow out of the Tailings Management Facility, and six credible scenarios for the flow of decant water and tailings pore water, with significant effects on the terrestrial and aquatic ecosystems, in different weather conditions;

- Tailings flow may occur along Corna Valley, on a 800 m (starter dam break) or over 1600 m reach should the Corna dam break in its final stage;

- In regard to water quality impacts, cyanide concentrations in the water in the shape of a pollution plume may reach Arad, near the Romanian-Hungarian border on the Mureş River, in concentrations ranging between 0.03 and 0.5 mg/L. Due to inherent mathematical limitations in the models, these values and the accident effects are considered overestimated. Therefore, the results describe the “worst case scenario” based on extreme dam break assumptions for the Corna Dam.

A new and much more precise and realistic simulation has been subsequently established based on the INCA Mine model, that considers the dispersion, volatilization and breakdown of cyanides during the downstream movement of the pollutant flow (Whiteland et al., 2006).

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 (www.eurolimpacs.ucl.ac.uk). The model has been used to assess the impacts from future mining, and collection and treatment operations for pollution from past mining at Roşia 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 physical-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, an information sheet presenting the INCA modeling work is presented under the title of the Mureş River Modeling Program and the full modeling report is presented in Annex 5.1:

- Development of HCN on the tailings pond surface. Simulated emissions of HCN from the Tailings Management Facility pond surface and of their dispersion into the ambient air show that the level

of 400µ g/m³ hourly average and 179µ g/m³ 8hr average will not be exceeded. These HCN concentrations are only slightly over the odor threshold (0.17ppm) and much below potentially dangerous concentrations;

- Cetate Dam break and breach development. Flood modeling was in case of a break in Cetate dam was based on the design parameters obtained from the hydrometeorological study "Assessment of rainfall intensity, frequency and runoff for the Roşia Montană Project - Radu Drobot". The breach characteristics were predicted using the BREACH model, and the maximum height of the flood wave in various flow sections was modeled using the FLDWAV software. The assumptions included a total 800000 m³ discharge for one hour, when the peak of the flood hydrograph is about 4.9 m above base flow immediately below the dam and in the narrow Abrud valley 5.9-7,5 km downstream of the dam, while in the last section considered (10,5 km) water depth is about 2.3 m above base flow and the maximum flow rate 877 m³/s. Further, the broader Aries valley allows the flood wave to propagate on a significantly wider bed, which results in a highly attenuated hydrograph. These results describe the "worst case scenario" based on extreme dam break assumptions:

- Accidents during cyanide transportation. Due to the large quantities of cyanide transported (about 30t /day) the risks associated to this activity were assessed in detail using the ZHA- Zurich Hazard Analysis method. As a consequence, the optimum transport route was selected from the manufacturer to the Process Plant, e.g.;

- Cyanide transport (in solid state) will exclusively involve special SLS (Solid to Liquid System) containers, 16 tons each. The ISO compliant container will be protected by a framework with legs, which allows separation from the transport trailer for temporary storage. The wall is 5.17 mm thick, which, together with the protective framework, provides additional protection to the load in case of accident. This system is considered BAT and is currently one of the safest cyanide transportation options.

It is being mentioned the fact that the study develops the occurrence possibility of these scenarios (pages 166-171, Conclusions).

As regards the cyanides management, there is a baseline study named "Roşia Montană Golden Project, Cyanides Management Plan" prepared in compliance with the "International Management Code for the Manufacture, Transport and Use of Cyanide in the Production of Gold (International Cyanide management Institute) May 2002". S.C. Roşia Montană Gold Corporation is signatory to this code.

Bibliographical references for Chapter 7 "Risk Cases" are listed at page173-176.

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The impact on protected flora and fauna will exist only locally, but this impact will not lead to the loss of any specie. The Project has been designed even from the beginning to fully comply with the requirements and norms imposed by Romanian and European environmental legislation.

The company believes the fact that the project impact on environment remains significant, especially because covers previous impacts. But, the investments required to ecologically restore/rehabilitate Roşia Montană area in order to address current complex environmental issues, are only achievable following the implementation of some economic projects that will generate and warrant implementation of some direct and responsible actions as a component of base principles of sustainable development concepts. Clean processes and technologies may be developed only in the presence of a solid economic environment fully compliant with the environment that will also resolve previous impacts of anthropic activities.

The base documents of the Project are in fact an unbiased reason of its implementation, considering the highly complex environmental commitment within Roşia Montană area.

Some of the Roşia Montană species that are under a certain protection status stand for an insignificant percentage of the scale of populations estimated at national level. The characterization of species from their habitat point of view exists in the species tables presented in the Biodiversity Chapter of the EIA Report and its annexes, although this is not a requirement imposed by the Habitats Directive. Due to their large volume of information, the annexes of chapter 4.6 Biodiversity can be found in the electronic version of the EIA disclosed by the company both in Romanian and English through approx. 6,000 DVD/CD copies, being accessible on the company website, and on the websites of Ministry of Environment and Water Management, local and regional environmental protection agencies of Alba, Sibiu, Cluj, etc.

From practical point of view, the low value of conservation of the impact area is also indirectly emphasized by the fact that there is no proposal to designate the area a SPA (aviafaunistic special protected area) and by the denial as unfounded of the proposal to designate the area as a pSCI area (sites of community importance).

Taking all these into account, we believe that the proposed Project is compliant with the provisions of EU Directive no. 92/43 Habitats[1], and EU Directive no. 79/409 Birds[2] respectively, especially because within Biodiversity Management Plan, Plan H, several active and responsible measures are provided to reconstruct/rehabilitate several natural habitats, pursuant to the provisions of the same documents [3].

References:

[1] art.3, 2nd paragraph, Each Member State shall contribute to the creation of Natura 2000 (network) in proportion to the representation within its territory of the natural habitat types and the habitats of species referred to in paragraph 1. To that effect each Member State shall designate, in accordance with Article 4, sites as special areas of conservation taking account of the objectives set out in paragraph 1.

art.4, 1st paragraph. On the basis of the criteria set out in Annex III (Stage 1) and relevant scientific information, each Member State shall propose a list of sites indicating which natural habitat types in Annex I and which species in Annex II that are native to its territory the sites host. For animal species ranging over wide areas these sites shall correspond to the places within the natural range of such species which present the physical or biological factors essential to their life and reproduction. For aquatic species which range over wide areas, such sites will be proposed only where there is a clearly identifiable area representing the physical and biological factors essential to their life and reproduction. Where appropriate, Member States shall propose adaptation of the list in the light of the results of the surveillance referred to in Article 11. [...]

2nd paragraph.[...] Member States whose sites hosting one or more priority natural habitat types and priority species represent more than 5 % of their national territory may, in agreement with the Commission, request that the criteria listed in Annex III (Stage 2) be applied more flexibly in selecting all the sites of Community importance in their territory.[...]

Art. 6, 4th paragraph. If, in spite of a negative assessment of the implications for the site and in the absence of alternative solutions, a plan or project must nevertheless be carried out for imperative reasons of overriding public interest, including those of a social or economic nature, the Member State shall take all compensatory measures necessary to ensure that the overall coherence of Natura 2000 is protected. It shall inform the Commission of the compensatory measures adopted.

Art. 16. Provided that there is no satisfactory alternative and the derogation is not detrimental to the maintenance of the populations of the species concerned at a favourable conservation status in their natural range, Member States may derogate from the provisions of Articles 12, 13, 14 and 15 (a) and (b):[...]

- in the interests of public health and public safety, or for other imperative reasons of overriding public interest, including those of a social or economic nature and beneficial consequences of primary importance for the environment;

[2] Art.4, 1st paragraph. The species mentioned in annex 1 shall be the subject of special conservation measures concerning their habitat in order to ensure their survival and reproduction in their area of distribution. [...]

Trends and variations in population levels shall be taken into account as a background for evaluations. Member states shall classify in particular the most suitable territories in number and size as special protection areas for the conservation of these species, taking into account their protection requirements in the geographical sea and land area where this directive applies.

[3] Directive 92/43 Habitats, art. 2, 2nd paragraph; Directive 79/409 Birds, art. 3, 2nd paragraph, letter c.

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An engineered liner is included in the design of the Tailings Management Facility (TMF) basin. 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; and
- 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 (1×10^{-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 (1×10^{-6} cm/sec) cut off wall within the foundation of the starter dam to control seepage;
- A low permeability (1×10^{-6} 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.

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Please consider that the provisions of annex no. 2 to the Government Decision no. 349/2005 on the storing of the wastes, for the verification of the location, regarding *„the positioning in report to the existing or planned populated areas, the protection distance to the warehouse body must be of at least 1,000 meters for the non-dangerous and dangerous wastes deposits”*, do not apply in case of the mining wastes.

The Ministry of Environment and Waters Management, by the Hazardous Chemical Substances and Wastes Management Direction, requested the project titleholder, by the Guidelines sent with a view to the performance of the evaluation of the environmental impact, according to the provisions of the Order of the Minister of Waters and Environmental Protection no. 860/2002 on the environmental impact assessment and environmental approval issuance Procedure, that this project “must be in compliance with the provisions of the new CE Directive on the management of the wastes from the extractive industry”.

To this end, we underline that the Directive no. 2006/21/EC referring to the management of the wastes from the extractive industry provides, at art. 2 (4), that the wastes falling under this directive are exempted from the provisions of the Directive 1999/31/EC on the wastes storing, implemented in the national legislation by GD no. 349/2995. Consequently, the provisions of the Directive 1999/31/EC do not apply to the Roşia Montană project and therefore, neither the provisions of GD no. 349/2005 are applicable. The Directive on the extractive wastes contains provisions and conditions specific in regard of the storing of this type of wastes, and which are applied with priority in report to the regulations already in existence on wastes storing.

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Detailed financial guarantees are in place, in the form of the Environmental Financial Guarantee (“EFG”), which require Roşia Montană Gold Corporation (“RMGC”) to maintain adequate funds for environmental cleanup. The EFG is updated annually and will always reflect the costs associated with reclamation. The current projected closure cost for Roşia Montană is US \$76 million, which is based on the mine operating for its full 16-year lifespan.

The EFG is governed by the Mining Law (no. 85/2003) and the National Agency for Mineral Resources instructions and Mining Law Enforcement Norms (no. 1208/2003).

Two directives issued by the European Union also impact the EFG: the Mine Waste Directive (“MWD”) and the Environmental Liability Directive (“ELD”).

The Mine Waste Directive aims to ensure that coverage is available for 1) all the obligations connected to the permit granted for the disposal of waste material resulting from mining activities and 2) all of the costs related to the rehabilitation of the land affected by a waste facility. The Environmental Liability Directive regulates the remedies, and measures to be taken by the environmental authorities, in the event of environmental damage created by mining operations, with the goal of ensuring adequate financial resources are available from the operators for environmental cleanup efforts. While these directives have yet to be transposed by the Romanian Government, the deadlines for implementing their enforcement mechanisms are 30 April 2007 (ELD) and 1 May 2008 (MWD) – thus before operations are scheduled to begin at Roşia Montană.

RMGC has already begun the process of complying with these directives, and once their implementation instruments are enacted by the Romanian Government, we will be in full compliance.

Each EFG will follow detailed guidelines generated by the World Bank and the International Council on Mining and Metals.

The annual updates will be completed by independent experts, carried out in consultation with the NAMR, as the Governmental authority competent in mining activities field. These updates will ensure that in the unlikely event of early closure of the project, at any point in time, each EFG will always reflect the costs associated with reclamation. (These annual updates will result in an estimate that exceeds our current US \$76 million costs of closure, because some reclamation activity is incorporated into the routine operations of the mine.)

A number of different financial instruments are available to ensure that RMGC is capable of covering all of the expected closure costs. These instruments, which will be held in protected accounts at the Romanian state disposal, include:

- Cash deposit ;
- Trust funds ;
- Letter of credit ;
- Surety bonds ;
- Insurance policy.

Under the terms of this guarantee, the Romanian government will have no financial liability in connection with the rehabilitation of the Roşia Montană project.

Item no.	4046 Same as: 4047, 4048, 4049, 4050, 4051, 4052, 4053, 4054, 4055, 4056, 4057, 4058, 4059, 4060, 4061, 4062, 4063, 4064, 4065, 4066, 4067, 4068, 4069, 4070, 4071, 4072, 4073, 4074, 4075
No. to identify the observations received from the public	Same as: No. 113803/25.08.2006, No. 113804/25.08.2006, No. 113805/25.08.2006, No. 113806/25.08.2006, No. 113807/25.08.2006, No. 113808/25.08.2006, No. 113809/25.08.2006, No. 113810/25.08.2006, No. 113811/25.08.2006, No. 113812/25.08.2006, No. 113813/25.08.2006, No. 113814/25.08.2006, No. 113815/25.08.2006, No. 113816/25.08.2006, No. 168283/21.09.2006, No. 113818/25.08.2006, No. 113819/25.08.2006, No. 113820/25.08.2006, No. 113821/25.08.2006, No. 113822/25.08.2006, No. 113823/25.08.2006, No. 113824/25.08.2006, No. 113825/25.08.2006, No. 113826/25.08.2006, No. 113827/25.08.2006, No. 113828/25.08.2006, No. 113829/25.08.2006, No. 113830/25.08.2006, No. 113831/25.08.2006 No. 112459/25.08.2006
Proposal	<p>The questioner opposes the mining project at Roşia Montană and makes the following observations and comments:</p> <ul style="list-style-type: none"> -In EIA there are no presented all the possible risks derived from this project; poses a threat for protected flora and fauna; -There is no liner proposed for the tailings pond; -The proposed waste deposits will be not constructed in conformity with the Romanian legislation in force (at least 1000 m towards the inhabited areas); -Financial guarantees for the closure and post-closure periods were not fixed. <p>SEE THE CONTENT OF THE TYPE 5 CONTESTATION</p>
Solution	<p>It is the nature of risk that it can be mitigated and diminished; it cannot be made to disappear. In order to put this into context, the common action of walking on the street or developing everyday activities have an accident potential. This accident potential is twice higher than within the framework of industrial activities that use hazardous substances.</p> <p>A major chapter of the EIA report was dedicated to the identification of risks for the project. In addition, this chapter provides a discussion of the mitigation measures for each risk and how they were incorporated into the project designs. It is recognized that risk identification is difficult due to the number and diversity of events that can be envisioned. The EIA report cannot assume to cover all of he potential risks associated with the project. However, it has attempted to identify and address the most relevant risks. The extent of risk assessment and the intensity of the prevention and mitigation measures should be proportional to the risk involved and therefore only the risks that have been considered important have been assessed in detail. Each is described below.</p> <p>In the larger sense, the entire EIA report is focused on the assessment of impacts and their associated mitigation. Specifically, Chapter 4 of the EIA presents that impact assessment of the project. The following discussion presents a summary of the impact discussed in the EIA.</p> <p>As far as natural and technological risks assessments are concerned, Chapter 7, "Risk Cases", from the Report on Environmental Impact Assessment, emphasizes the fact that safety and prevention measures, the implementation of the environmental management and risk systems are mitigating the consequences to acceptable levels as compared to the most restrictive norms, standards, the best practices or national and international recommendations in the field. The risk level has been established as moderate and so, socially acceptable. The extension of the risk assessment and the intensity of the prevention and mitigation measures of the consequences should be proportionate to the risk involved. Selection of a specific mitigation technique is depends on the analyzed accident scenario.</p> <p>More detailed assessments are conducted for accident scenarios that, based on the qualitative assessment are found to be potentially major, of probability more than 10^{-6} (reduced recovery periods of 1/1,000,000) meaning that they could have major consequences therefore, elevated associated risk, a higher risk level than 9 to 12 (on a scale of 1-25). To put this in context, simply living in southern Florida rates a 25 on the risk scale.</p> <p>A global assessment of the risks associated with the Roşia Montană Project is obtained by the quick environmental and health risk assessment methodology initially developed by the Italian Ministry of the</p>

Environment and the World Health Organization. Natural hazard and risk identification and analysis presents key data and information in assessing potential technological accidents. Thus:

- In designing the Tailings Management Facility, the design parameters were chosen to fully cover the characteristic seismic risk of the area. These seismic design parameters adopted for the TMF and other facilities on the proposed site result in a safety factor much greater than the minimum accepted under the Romanian and European design standards for such facilities;

- in the sector physically impacted by the Project, the risk of floods will remain very low due to the small catchments (controlled by the Roşia and Corma Streams) the area affected by the operation, and the creation of containment, diversion and drainage hydro-technical structures for storm waters on the site, and in the Abrud catchment in general;

- risks caused by meteorological events have been reviewed and used in assessing the hazards of the affected technological processes.

From the analysis of morphometrical parameters and their correlation with other sets of information on the natural slopes on and near the site shows that the (qualitatively estimated) landslide occurrence risk is low to moderate and its consequences will not cause major impacts on the structural components of the Project.

There is no significant risk associated with resource depletion. Mining activities are planned judiciously, so as to extract only the profitable gold and silver resources and only the necessary construction rock for the Project. The management of the mining concession site will minimize reserve "sterilization" (limitation of future access to the reserves).

In assessing technological hazards and risks, the quantity of hazardous substances on the site was calculated as a total and by category, as provided by the *Notification Procedure* approved by Ministry of Agriculture, Forestry, Water and Environment (MAFWE) Order 1084/2003. Based on an evaluation of hazardous substances in stock on the Project site in relation to the relevant quantities provided by the Government Decision 95/2003 which transposes the Seveso Directive, the Project ranges between the upper and the lower limits, and therefore S.C. Roşia Montană Gold Corporation S.A. is required to prepare a Report on Environmental Impact Assessment Study to be sent to the local environmental authority and the local civilian protection authority a *Safety Report* on its operations to prevent major accident risks.

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2nd paragraph.[...] Member States whose sites hosting one or more priority natural habitat types and priority species represent more than 5 % of their national territory may, in agreement with the Commission, request that the criteria listed in Annex III (Stage 2) be applied more flexibly in selecting all the sites of Community importance in their territory.[...]

Art. 6, 4th paragraph. If, in spite of a negative assessment of the implications for the site and in the absence of alternative solutions, a plan or project must nevertheless be carried out for imperative reasons of overriding public interest, including those of a social or economic nature, the Member State shall take all compensatory measures necessary to ensure that the overall coherence of Natura 2000 is protected. It shall inform the Commission of the compensatory measures adopted.

Art. 16. Provided that there is no satisfactory alternative and the derogation is not detrimental to the maintenance of the populations of the species concerned at a favourable conservation status in their natural range, Member States may derogate from the provisions of Articles 12, 13, 14 and 15 (a) and (b):[...]

- in the interests of public health and public safety, or for other imperative reasons of overriding public interest, including those of a social or economic nature and beneficial consequences of primary importance for the environment;

[2] Art.4, 1st paragraph. The species mentioned in annex 1 shall be the subject of special conservation measures concerning their habitat in order to ensure their survival and reproduction in their area of distribution. [...]

Trends and variations in population levels shall be taken into account as a background for evaluations. Member states shall classify in particular the most suitable territories in number and size as special protection areas for the conservation of these species, taking into account their protection requirements in the geographical sea and land area where this directive applies.

[3] Directive 92/43 Habitats, art. 2, 2nd paragraph; Directive 79/409 Birds, art. 3, 2nd paragraph, letter c.

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An engineered liner is included in the design of the Tailings Management Facility (TMF) basin. 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; and
- 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 (1×10^{-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 (1×10^{-6} cm/sec) cut off wall within the foundation of the starter dam to control seepage;
- A low permeability (1×10^{-6} 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.

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Please consider that the provisions of annex no. 2 to the Government Decision no. 349/2005 on the storing of the wastes, for the verification of the location, regarding *„the positioning in report to the existing or planned populated areas, the protection distance to the warehouse body must be of at least 1,000 meters for the non-dangerous and dangerous wastes deposits”*, do not apply in case of the mining wastes.

The Ministry of Environment and Waters Management, by the Hazardous Chemical Substances and Wastes Management Direction, requested the project titleholder, by the Guidelines sent with a view to the performance of the evaluation of the environmental impact, according to the provisions of the Order of the Minister of Waters and Environmental Protection no. 860/2002 on the environmental impact assessment and environmental approval issuance Procedure, that this project “must be in compliance with the provisions of the new CE Directive on the management of the wastes from the extractive industry”.

To this end, we underline that the Directive no. 2006/21/EC referring to the management of the wastes from the extractive industry provides, at art. 2 (4), that the wastes falling under this directive are exempted from the provisions of the Directive 1999/31/EC on the wastes storing, implemented in the national legislation by GD no. 349/2995. Consequently, the provisions of the Directive 1999/31/EC do not apply to the Roşia Montană project and therefore, neither the provisions of GD no. 349/2005 are applicable. The Directive on the extractive wastes contains provisions and conditions specific in regard of the storing of this type of wastes, and which are applied with priority in report to the regulations already in existence on wastes storing.

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Detailed financial guarantees are in place, in the form of the Environmental Financial Guarantee (“EFG”), which require Roşia Montană Gold Corporation (“RMGC”) to maintain adequate funds for environmental cleanup. The EFG is updated annually and will always reflect the costs associated with reclamation. The current projected closure cost for Roşia Montană is US \$76 million, which is based on the mine operating for its full 16-year lifespan.

The EFG is governed by the Mining Law (no. 85/2003) and the National Agency for Mineral Resources instructions and Mining Law Enforcement Norms (no. 1208/2003).

Two directives issued by the European Union also impact the EFG: the Mine Waste Directive (“MWD”) and the Environmental Liability Directive (“ELD”).

The Mine Waste Directive aims to ensure that coverage is available for 1) all the obligations connected to the permit granted for the disposal of waste material resulting from mining activities and 2) all of the costs related to the rehabilitation of the land affected by a waste facility. The Environmental Liability Directive regulates the remedies, and measures to be taken by the environmental authorities, in the event of environmental damage created by mining operations, with the goal of ensuring adequate financial resources are available from the operators for environmental cleanup efforts. While these directives have yet to be transposed by the Romanian Government, the deadlines for implementing their enforcement mechanisms are 30 April 2007 (ELD) and 1 May 2008 (MWD) – thus before operations are scheduled to begin at Roşia Montană.

RMGC has already begun the process of complying with these directives, and once their implementation instruments are enacted by the Romanian Government, we will be in full compliance.

Each EFG will follow detailed guidelines generated by the World Bank and the International Council on Mining and Metals.

The annual updates will be completed by independent experts, carried out in consultation with the NAMR, as the Governmental authority competent in mining activities field. These updates will ensure that in the unlikely event of early closure of the project, at any point in time, each EFG will always reflect the costs associated with reclamation. (These annual updates will result in an estimate that exceeds our current US \$76 million costs of closure, because some reclamation activity is incorporated into the routine operations of the mine.)

A number of different financial instruments are available to ensure that RMGC is capable of covering all of the expected closure costs. These instruments, which will be held in protected accounts at the Romanian state disposal, include:

- Cash deposit ;
- Trust funds ;
- Letter of credit ;
- Surety bonds ;
- Insurance policy.

Under the terms of this guarantee, the Romanian government will have no financial liability in connection with the rehabilitation of the Roşia Montană project.

Item no.	4076 Same as: 4077, 4078, 4079, 4080, 4081, 4082, 4083, 4084, 4085, 4086, 4087, 4088, 4089, 4090, 4091, 4092, 4093, 4094, 4095, 4096, 4097, 4098, 4099, 4100, 4101, 4102, 4103, 4104, 4105
No. to identify the observations received from the public	Same as: No. 112457/25.08.2006, No. 112456/25.08.2006, No. 112455/25.08.2006, No. 112454/25.08.2006, No. 112453/25.08.2006, No. 112452/25.08.2006, No. 112451/25.08.2006, No. 112450/25.08.2006, No. 112449/25.08.2006, No. 112448/25.08.2006, No. 112447/25.08.2006, No. 112446/25.08.2006, No. 112445/25.08.2006, No. 112444/25.08.2006, No. 112443/25.08.2006, No. 112442/25.08.2006, No. 112441/25.08.2006, No. 112440/25.08.2006, No. 112439/25.08.2006, No. 112438/25.08.2006, No. 112437/25.08.2006, No. 112436/25.08.2006, No. 112435/25.08.2006, No. 112434/25.08.2006, No. 112433/25.08.2006, No. 112432/25.08.2006, No. 112431/25.08.2006, No. 112430/25.08.2006, No. 112429/25.08.2006 No. 112458/25.08.2006
Proposal	<p>The questioner opposes the mining project at Roșia Montană and makes the following observations and comments:</p> <ul style="list-style-type: none"> -In EIA there are no presented all the possible risks derived from this project; poses a threat for protected flora and fauna; -There is no liner proposed for the tailings pond; -The proposed waste deposits will be not constructed in conformity with the Romanian legislation in force (at least 1000 m towards the inhabited areas); -Financial guarantees for the closure and post-closure periods were not fixed. <p>SEE THE CONTENT OF THE TYPE 5 CONTESTATION</p>
Solution	<p>It is the nature of risk that it can be mitigated and diminished; it cannot be made to disappear. In order to put this into context, the common action of walking on the street or developing everyday activities have an accident potential. This accident potential is twice higher than within the framework of industrial activities that use hazardous substances.</p> <p>A major chapter of the EIA report was dedicated to the identification of risks for the project. In addition, this chapter provides a discussion of the mitigation measures for each risk and how they were incorporated into the project designs. It is recognized that risk identification is difficult due to the number and diversity of events that can be envisioned. The EIA report cannot assume to cover all of he potential risks associated with the project. However, it has attempted to identify and address the most relevant risks. The extent of risk assessment and the intensity of the prevention and mitigation measures should be proportional to the risk involved and therefore only the risks that have been considered important have been assessed in detail. Each is described below.</p> <p>In the larger sense, the entire EIA report is focused on the assessment of impacts and their associated mitigation. Specifically, Chapter 4 of the EIA presents that impact assessment of the project. The following discussion presents a summary of the impact discussed in the EIA.</p> <p>As far as natural and technological risks assessments are concerned, Chapter 7, “Risk Cases”, from the Report on Environmental Impact Assessment, emphasizes the fact that safety and prevention measures, the implementation of the environmental management and risk systems are mitigating the consequences to acceptable levels as compared to the most restrictive norms, standards, the best practices or national and international recommendations in the field. The risk level has been established as moderate and so, socially acceptable. The extension of the risk assessment and the intensity of the prevention and mitigation measures of the consequences should be proportionate to the risk involved. Selection of a specific mitigation technique is depends on the analyzed accident scenario.</p> <p>More detailed assessments are conducted for accident scenarios that, based on the qualitative assessment are found to be potentially major, of probability more than 10^{-6} (reduced recovery periods of 1/1,000,000) meaning that they could have major consequences therefore, elevated associated risk, a higher risk level than 9 to 12 (on a scale of 1-25). To put this in context, simply living in southern Florida rates a 25 on the risk scale.</p> <p>A global assessment of the risks associated with the Roșia Montană Project is obtained by the quick environmental and health risk assessment methodology initially developed by the Italian Ministry of the</p>

Environment and the World Health Organization. Natural hazard and risk identification and analysis presents key data and information in assessing potential technological accidents. Thus:

- In designing the Tailings Management Facility, the design parameters were chosen to fully cover the characteristic seismic risk of the area. These seismic design parameters adopted for the TMF and other facilities on the proposed site result in a safety factor much greater than the minimum accepted under the Romanian and European design standards for such facilities;

- in the sector physically impacted by the Project, the risk of floods will remain very low due to the small catchments (controlled by the Roşia and Corna Streams) the area affected by the operation, and the creation of containment, diversion and drainage hydro-technical structures for storm waters on the site, and in the Abrud catchment in general;

- risks caused by meteorological events have been reviewed and used in assessing the hazards of the affected technological processes.

From the analysis of morphometrical parameters and their correlation with other sets of information on the natural slopes on and near the site shows that the (qualitatively estimated) landslide occurrence risk is low to moderate and its consequences will not cause major impacts on the structural components of the Project.

There is no significant risk associated with resource depletion. Mining activities are planned judiciously, so as to extract only the profitable gold and silver resources and only the necessary construction rock for the Project. The management of the mining concession site will minimize reserve "sterilization" (limitation of future access to the reserves).

In assessing technological hazards and risks, the quantity of hazardous substances on the site was calculated as a total and by category, as provided by the *Notification Procedure* approved by Ministry of Agriculture, Forestry, Water and Environment (MAFWE) Order 1084/2003. Based on an evaluation of hazardous substances in stock on the Project site in relation to the relevant quantities provided by the Government Decision 95/2003 which transposes the Seveso Directive, the Project ranges between the upper and the lower limits, and therefore S.C. Roşia Montană Gold Corporation S.A. is required to prepare a Report on Environmental Impact Assessment Study to be sent to the local environmental authority and the local civilian protection authority a *Safety Report* on its operations to prevent major accident risks.

In assessing the consequences of major accidents involving dangerous substances, physical-mathematical models accepted internationally and especially at EU level, and the current version of the SLAB (Canada) software have been used, the latter for the atmospheric dispersion of denser than air gases, that may handle a multitude of situations and scenarios. Similarly, the EFFECTSGis 5.5 (Netherlands) software, developed for the analysis of the effects of industrial accidents and of consequences. Several scenarios were considered in response to the internal legislative requirements, especially related to the implementation of the Internal Emergency Plans (GD 647/2005). The conclusions of the risk assessment for major accidents were:

- The total destruction of plant facilities may only be caused by terrorist attack with classic or nuclear weapons. Simultaneous damage to the HCl tank (including containment) and to the NaCN solution tank, the tanks containing enriched solution, to one or more leaching tanks, having as a result HCN dispersion into the air. At the same time, under certain situations and weather conditions unfavorable for dispersion, people within 40 m of the emission source, surprised by the toxic cloud for more than 1 minute without respiratory protection equipment, will most certainly die. It may also be considered that, on a radius of about 310 m, persons exposed for more than 10 minutes may suffer serious intoxications that may also lead to death. Toxic effects may occur in persons up to about 2 km downwind of the process plant;

- Operating errors and/or failures in the measurement and control devices, resulting in a lower pH in the leaching tank, thickener and/or DETOX slurry and accidental emissions of hydrocyanic acid. The area affected by concentrations of 290 ppm over a 10 min exposure time is within a circle of 36 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 157.5 m radius. The center of these circles is the middle of the CIL tanks platform;

- Accidental HCN emission from the decanter. The accident may be caused by a drop of pH in the CIL tanks combined with an overdose of flocculent solution and faulty pH monitoring systems. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 65 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 104 m radius. The center of these circles is mid-distance between the two DETOX facilities;

- Accidental HCN emission from the DETOX facility. The accident may be caused by a drop of pH in the reactors generated by an overdose of metabisulfite solution and/or copper sulphate combined with faulty pH monitoring systems. The area affected by high 1900 ppm concentrations for a 1 min exposure time is located within a 10 m radius circle. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 27 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 33 m radius. The center of these circles is mid-distance between the two DETOX facilities;

- Explosion of the LPG storage tank. The LPG storage tank has a 50 ton capacity and is located outdoors, near the heating plant. The simulation was conducted for the worst case scenario, considering an explosion of the full tank. Threshold I with heat 12.5 kW/m² is within a 10.5 m radius circle and Threshold II, of heat radiation 5 kW/m² is within a circle of 15 m radius;

- Damage and/or fire at the fuel tanks. Simulations were conducted for the worst case scenarios, considering ignition and combustion of all the diesel (fire in the tank, or in the containment vat, when full of diesel);

- Corna Dam break and breach development. Two credible accident scenarios were considered in simulating tailings flow out of the Tailings Management Facility, and six credible scenarios for the flow of decant water and tailings pore water, with significant effects on the terrestrial and aquatic ecosystems, in different weather conditions;

- Tailings flow may occur along Corna Valley, on a 800 m (starter dam break) or over 1600 m reach should the Corna dam break in its final stage;

- In regard to water quality impacts, cyanide concentrations in the water in the shape of a pollution plume may reach Arad, near the Romanian-Hungarian border on the Mureş River, in concentrations ranging between 0.03 and 0.5 mg/L. Due to inherent mathematical limitations in the models, these values and the accident effects are considered overestimated. Therefore, the results describe the “worst case scenario” based on extreme dam break assumptions for the Corna Dam.

A new and much more precise and realistic simulation has been subsequently established based on the INCA Mine model, that considers the dispersion, volatilization and breakdown of cyanides during the downstream movement of the pollutant flow (Whiteland et al., 2006).

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 (www.eurolimpacs.ucl.ac.uk). The model has been used to assess the impacts from future mining, and collection and treatment operations for pollution from past mining at Roşia 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 physical-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.

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To this end, we underline that the Directive no. 2006/21/EC referring to the management of the wastes from the extractive industry provides, at art. 2 (4), that the wastes falling under this directive are exempted from the provisions of the Directive 1999/31/EC on the wastes storing, implemented in the national legislation by GD no. 349/2995. Consequently, the provisions of the Directive 1999/31/EC do not apply to the Roşia Montană project and therefore, neither the provisions of GD no. 349/2005 are applicable. The Directive on the extractive wastes contains provisions and conditions specific in regard of the storing of this type of wastes, and which are applied with priority in report to the regulations already in existence on wastes storing.

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Detailed financial guarantees are in place, in the form of the Environmental Financial Guarantee (“EFG”), which require Roşia Montană Gold Corporation (“RMGC”) to maintain adequate funds for environmental cleanup. The EFG is updated annually and will always reflect the costs associated with reclamation. The current projected closure cost for Roşia Montană is US \$76 million, which is based on the mine operating for its full 16-year lifespan.

The EFG is governed by the Mining Law (no. 85/2003) and the National Agency for Mineral Resources instructions and Mining Law Enforcement Norms (no. 1208/2003).

Two directives issued by the European Union also impact the EFG: the Mine Waste Directive (“MWD”) and the Environmental Liability Directive (“ELD”).

The Mine Waste Directive aims to ensure that coverage is available for 1) all the obligations connected to the permit granted for the disposal of waste material resulting from mining activities and 2) all of the costs related to the rehabilitation of the land affected by a waste facility. The Environmental Liability Directive regulates the remedies, and measures to be taken by the environmental authorities, in the event of environmental damage created by mining operations, with the goal of ensuring adequate financial resources are available from the operators for environmental cleanup efforts. While these directives have yet to be transposed by the Romanian Government, the deadlines for implementing their enforcement mechanisms are 30 April 2007 (ELD) and 1 May 2008 (MWD) – thus before operations are scheduled to begin at Roşia Montană.

RMGC has already begun the process of complying with these directives, and once their implementation instruments are enacted by the Romanian Government, we will be in full compliance.

Each EFG will follow detailed guidelines generated by the World Bank and the International Council on Mining and Metals.

The annual updates will be completed by independent experts, carried out in consultation with the NAMR, as the Governmental authority competent in mining activities field. These updates will ensure that in the unlikely event of early closure of the project, at any point in time, each EFG will always reflect the costs associated with reclamation. (These annual updates will result in an estimate that exceeds our current US \$76 million costs of closure, because some reclamation activity is incorporated into the routine operations of the mine.)

A number of different financial instruments are available to ensure that RMGC is capable of covering all of the expected closure costs. These instruments, which will be held in protected accounts at the Romanian state disposal, include:

- Cash deposit ;
- Trust funds ;
- Letter of credit ;
- Surety bonds ;
- Insurance policy.

Under the terms of this guarantee, the Romanian government will have no financial liability in connection with the rehabilitation of the Roşia Montană project.

Item no.	4106 Same as: 4107, 4108, 4109, 4110, 4111, 4112, 4113, 4114, 4115, 4116, 4117, 4118, 4119, 4120, 4121, 4122, 4123, 4124, 4125, 4126, 4127, 4128, 4129, 4130, 4131, 4132, 4133, 4134, 4135
No. to identify the observations received from the public	No 113832/25.08.2006 Same as: No 113833/25.08.2006, No 113834/25.08.2006, No 113835/25.08.2006, No 113836/25.08.2006, No 113837/25.08.2006, No 113838/25.08.2006, No 113839/25.08.2006, No 113840/25.08.2006, No 113841/25.08.2006, No 113842/25.08.2006, No 113843/25.08.2006, No 113844/25.08.2006, No 113825/25.08.2006, No 113846/25.08.2006, No 113847/25.08.2006, No 113848/25.08.2006, No 113849/25.08.2006, No 113850/25.08.2006, No 113851/25.08.2006, No 113852/25.08.2006, No 113853/25.08.2006, No 113854/25.08.2006, No 113855/25.08.2006, No 113856/25.08.2006, No 113857/25.08.2006, No 113858/25.08.2006, No 113859/25.08.2006, No 113860/25.08.2006, No 113861/25.08.2006
Proposal	<p>The questioner opposes the mining project at Roşia Montană and makes the following observations and comments:</p> <ul style="list-style-type: none"> -In EIA there are no presented all the possible risks derived from this project; poses a threat for protected flora and fauna; -There is no liner proposed for the tailings pond; -The proposed waste deposits will be not constructed in conformity with the Romanian legislation in force (at least 1000 m towards the inhabited areas); -Financial guarantees for the closure and post-closure periods were not fixed. <p>SEE THE CONTENT OF THE TYPE 5 CONTESTATION</p>
Solution	<p>It is the nature of risk that it can be mitigated and diminished; it cannot be made to disappear. In order to put this into context, the common action of walking on the street or developing everyday activities have an accident potential. This accident potential is twice higher than within the framework of industrial activities that use hazardous substances.</p> <p>A major chapter of the EIA report was dedicated to the identification of risks for the project. In addition, this chapter provides a discussion of the mitigation measures for each risk and how they were incorporated into the project designs. It is recognized that risk identification is difficult due to the number and diversity of events that can be envisioned. The EIA report cannot assume to cover all of he potential risks associated with the project. However, it has attempted to identify and address the most relevant risks. The extent of risk assessment and the intensity of the prevention and mitigation measures should be proportional to the risk involved and therefore only the risks that have been considered important have been assessed in detail. Each is described below.</p> <p>In the larger sense, the entire EIA report is focused on the assessment of impacts and their associated mitigation. Specifically, Chapter 4 of the EIA presents that impact assessment of the project. The following discussion presents a summary of the impact discussed in the EIA.</p> <p>As far as natural and technological risks assessments are concerned, Chapter 7, "Risk Cases", from the Report on Environmental Impact Assessment, emphasizes the fact that safety and prevention measures, the implementation of the environmental management and risk systems are mitigating the consequences to acceptable levels as compared to the most restrictive norms, standards, the best practices or national and international recommendations in the field. The risk level has been established as moderate and so, socially acceptable. The extension of the risk assessment and the intensity of the prevention and mitigation measures of the consequences should be proportionate to the risk involved. Selection of a specific mitigation technique is depends on the analyzed accident scenario.</p> <p>More detailed assessments are conducted for accident scenarios that, based on the qualitative assessment are found to be potentially major, of probability more than 10^{-6} (reduced recovery periods of 1/1,000,000) meaning that they could have major consequences therefore, elevated associated risk, a higher risk level than 9 to 12 (on a scale of 1-25). To put this in context, simply living in southern Florida rates a 25 on the risk scale.</p> <p>A global assessment of the risks associated with the Roşia Montană Project is obtained by the quick environmental and health risk assessment methodology initially developed by the Italian Ministry of the</p>

Environment and the World Health Organization. Natural hazard and risk identification and analysis presents key data and information in assessing potential technological accidents. Thus:

- In designing the Tailings Management Facility, the design parameters were chosen to fully cover the characteristic seismic risk of the area. These seismic design parameters adopted for the TMF and other facilities on the proposed site result in a safety factor much greater than the minimum accepted under the Romanian and European design standards for such facilities;

- in the sector physically impacted by the Project, the risk of floods will remain very low due to the small catchments (controlled by the Roşia and Corma Streams) the area affected by the operation, and the creation of containment, diversion and drainage hydro-technical structures for storm waters on the site, and in the Abrud catchment in general;

- risks caused by meteorological events have been reviewed and used in assessing the hazards of the affected technological processes.

From the analysis of morphometrical parameters and their correlation with other sets of information on the natural slopes on and near the site shows that the (qualitatively estimated) landslide occurrence risk is low to moderate and its consequences will not cause major impacts on the structural components of the Project.

There is no significant risk associated with resource depletion. Mining activities are planned judiciously, so as to extract only the profitable gold and silver resources and only the necessary construction rock for the Project. The management of the mining concession site will minimize reserve "sterilization" (limitation of future access to the reserves).

In assessing technological hazards and risks, the quantity of hazardous substances on the site was calculated as a total and by category, as provided by the *Notification Procedure* approved by Ministry of Agriculture, Forestry, Water and Environment (MAFWE) Order 1084/2003. Based on an evaluation of hazardous substances in stock on the Project site in relation to the relevant quantities provided by the Government Decision 95/2003 which transposes the Seveso Directive, the Project ranges between the upper and the lower limits, and therefore S.C. Roşia Montană Gold Corporation S.A. is required to prepare a Report on Environmental Impact Assessment Study to be sent to the local environmental authority and the local civilian protection authority a *Safety Report* on its operations to prevent major accident risks.

In assessing the consequences of major accidents involving dangerous substances, physical-mathematical models accepted internationally and especially at EU level, and the current version of the SLAB (Canada) software have been used, the latter for the atmospheric dispersion of denser than air gases, that may handle a multitude of situations and scenarios. Similarly, the EFFECTSGis 5.5 (Netherlands) software, developed for the analysis of the effects of industrial accidents and of consequences. Several scenarios were considered in response to the internal legislative requirements, especially related to the implementation of the Internal Emergency Plans (GD 647/2005). The conclusions of the risk assessment for major accidents were:

- The total destruction of plant facilities may only be caused by terrorist attack with classic or nuclear weapons. Simultaneous damage to the HCl tank (including containment) and to the NaCN solution tank, the tanks containing enriched solution, to one or more leaching tanks, having as a result HCN dispersion into the air. At the same time, under certain situations and weather conditions unfavorable for dispersion, people within 40 m of the emission source, surprised by the toxic cloud for more than 1 minute without respiratory protection equipment, will most certainly die. It may also be considered that, on a radius of about 310 m, persons exposed for more than 10 minutes may suffer serious intoxications that may also lead to death. Toxic effects may occur in persons up to about 2 km downwind of the process plant;

- Operating errors and/or failures in the measurement and control devices, resulting in a lower pH in the leaching tank, thickener and/or DETOX slurry and accidental emissions of hydrocyanic acid. The area affected by concentrations of 290 ppm over a 10 min exposure time is within a circle of 36 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 157.5 m radius. The center of these circles is the middle of the CIL tanks platform;

- Accidental HCN emission from the decanter. The accident may be caused by a drop of pH in the CIL tanks combined with an overdose of flocculent solution and faulty pH monitoring systems. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 65 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 104 m radius. The center of these circles is mid-distance between the two DETOX facilities;

- Accidental HCN emission from the DETOX facility. The accident may be caused by a drop of pH in the reactors generated by an overdose of metabisulfite solution and/or copper sulphate combined with faulty pH monitoring systems. The area affected by high 1900 ppm concentrations for a 1 min exposure time is located within a 10 m radius circle. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 27 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 33 m radius. The center of these circles is mid-distance between the two DETOX facilities;

- Explosion of the LPG storage tank. The LPG storage tank has a 50 ton capacity and is located outdoors, near the heating plant. The simulation was conducted for the worst case scenario, considering an explosion of the full tank. Threshold I with heat 12.5 kW/m² is within a 10.5 m radius circle and Threshold II, of heat radiation 5 kW/m² is within a circle of 15 m radius;

- Damage and/or fire at the fuel tanks. Simulations were conducted for the worst case scenarios, considering ignition and combustion of all the diesel (fire in the tank, or in the containment vat, when full of diesel);

- Corna Dam break and breach development. Two credible accident scenarios were considered in simulating tailings flow out of the Tailings Management Facility, and six credible scenarios for the flow of decant water and tailings pore water, with significant effects on the terrestrial and aquatic ecosystems, in different weather conditions;

- Tailings flow may occur along Corna Valley, on a 800 m (starter dam break) or over 1600 m reach should the Corna dam break in its final stage;

- In regard to water quality impacts, cyanide concentrations in the water in the shape of a pollution plume may reach Arad, near the Romanian-Hungarian border on the Mureş River, in concentrations ranging between 0.03 and 0.5 mg/L. Due to inherent mathematical limitations in the models, these values and the accident effects are considered overestimated. Therefore, the results describe the “worst case scenario” based on extreme dam break assumptions for the Corna Dam.

A new and much more precise and realistic simulation has been subsequently established based on the INCA Mine model, that considers the dispersion, volatilization and breakdown of cyanides during the downstream movement of the pollutant flow (Whiteland et al., 2006).

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 (www.eurolimpacs.ucl.ac.uk). The model has been used to assess the impacts from future mining, and collection and treatment operations for pollution from past mining at Roşia 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 Abruđ-Arieş-Mureş river system down to the Hungarian Border and on into the Tisa River. The model takes into account the dilution, mixing and physical-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, an information sheet presenting the INCA modeling work is presented under the title of the Mureş River Modeling Program and the full modeling report is presented in Annex 5.1:

- Development of HCN on the tailings pond surface. Simulated emissions of HCN from the Tailings Management Facility pond surface and of their dispersion into the ambient air show that the level

of 400µ g/m³ hourly average and 179µ g/m³ 8hr average will not be exceeded. These HCN concentrations are only slightly over the odor threshold (0.17ppm) and much below potentially dangerous concentrations;

- Cetate Dam break and breach development. Flood modeling was in case of a break in Cetate dam was based on the design parameters obtained from the hydrometeorological study "Assessment of rainfall intensity, frequency and runoff for the Roşia Montană Project - Radu Drobot". The breach characteristics were predicted using the BREACH model, and the maximum height of the flood wave in various flow sections was modeled using the FLDWAV software. The assumptions included a total 800000 m³ discharge for one hour, when the peak of the flood hydrograph is about 4.9 m above base flow immediately below the dam and in the narrow Abrud valley 5.9-7,5 km downstream of the dam, while in the last section considered (10,5 km) water depth is about 2.3 m above base flow and the maximum flow rate 877 m³/s. Further, the broader Aries valley allows the flood wave to propagate on a significantly wider bed, which results in a highly attenuated hydrograph. These results describe the "worst case scenario" based on extreme dam break assumptions:

- Accidents during cyanide transportation. Due to the large quantities of cyanide transported (about 30t /day) the risks associated to this activity were assessed in detail using the ZHA- Zurich Hazard Analysis method. As a consequence, the optimum transport route was selected from the manufacturer to the Process Plant, e.g.;

- Cyanide transport (in solid state) will exclusively involve special SLS (Solid to Liquid System) containers, 16 tons each. The ISO compliant container will be protected by a framework with legs, which allows separation from the transport trailer for temporary storage. The wall is 5.17 mm thick, which, together with the protective framework, provides additional protection to the load in case of accident. This system is considered BAT and is currently one of the safest cyanide transportation options.

It is being mentioned the fact that the study develops the occurrence possibility of these scenarios (pages 166-171, Conclusions).

As regards the cyanides management, there is a baseline study named "Roşia Montană Golden Project, Cyanides Management Plan" prepared in compliance with the "International Management Code for the Manufacture, Transport and Use of Cyanide in the Production of Gold (International Cyanide management Institute) May 2002". S.C. Roşia Montană Gold Corporation is signatory to this code.

Bibliographical references for Chapter 7 "Risk Cases" are listed at page173-176.

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The impact on protected flora and fauna will exist only locally, but this impact will not lead to the loss of any specie. The Project has been designed even from the beginning to fully comply with the requirements and norms imposed by Romanian and European environmental legislation.

The company believes the fact that the project impact on environment remains significant, especially because covers previous impacts. But, the investments required to ecologically restore/rehabilitate Roşia Montană area in order to address current complex environmental issues, are only achievable following the implementation of some economic projects that will generate and warrant implementation of some direct and responsible actions as a component of base principles of sustainable development concepts. Clean processes and technologies may be developed only in the presence of a solid economic environment fully compliant with the environment that will also resolve previous impacts of anthropic activities.

The base documents of the Project are in fact an unbiased reason of its implementation, considering the highly complex environmental commitment within Roşia Montană area.

Some of the Roşia Montană species that are under a certain protection status stand for an insignificant percentage of the scale of populations estimated at national level. The characterization of species from their habitat point of view exists in the species tables presented in the Biodiversity Chapter of the EIA Report and its annexes, although this is not a requirement imposed by the Habitats Directive. Due to their large volume of information, the annexes of chapter 4.6 Biodiversity can be found in the electronic version of the EIA disclosed by the company both in Romanian and English through approx. 6,000 DVD/CD copies, being accessible on the company website, and on the websites of Ministry of Environment and Water Management, local and regional environmental protection agencies of Alba, Sibiu, Cluj, etc.

From practical point of view, the low value of conservation of the impact area is also indirectly emphasized by the fact that there is no proposal to designate the area a SPA (aviafaunistic special protected area) and by the denial as unfounded of the proposal to designate the area as a pSCI area (sites of community importance).

Taking all these into account, we believe that the proposed Project is compliant with the provisions of EU Directive no. 92/43 Habitats[1], and EU Directive no. 79/409 Birds[2] respectively, especially because within Biodiversity Management Plan, Plan H, several active and responsible measures are provided to reconstruct/rehabilitate several natural habitats, pursuant to the provisions of the same documents [3].

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RMGC has already begun the process of complying with these directives, and once their implementation instruments are enacted by the Romanian Government, we will be in full compliance.

Each EFG will follow detailed guidelines generated by the World Bank and the International Council on Mining and Metals.

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A number of different financial instruments are available to ensure that RMGC is capable of covering all of the expected closure costs. These instruments, which will be held in protected accounts at the Romanian state disposal, include:

- Cash deposit ;
- Trust funds ;
- Letter of credit ;
- Surety bonds ;
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Under the terms of this guarantee, the Romanian government will have no financial liability in connection with the rehabilitation of the Roşia Montană project.

Item no.	4136 Same as: 4137, 4138, 4139, 4140, 4141, 4142, 4143, 4144, 4145, 4146, 4147, 4148, 4149, 4150, 4151, 4152, 4153, 4154, 4155, 4156, 4157, 4158, 4159, 4160, 4161, 4162, 4163, 4164, 4165
No. to identify the observations received from the public	No. 113594/25.08.2006 Same as: No. 113595/25.08.2006, No. 113596/25.08.2006, No. 113597/25.08.2006, No. 113598/25.08.2006, No. 113595BIS/25.08.2006, No. 113600/25.08.2006, No. 113601/25.08.2006, No. 113602/25.08.2006, No. 113603/25.08.2006, No. 113604/25.08.2006, No. 113605/25.08.2006, No. 113606/25.08.2006, No. 113607/25.08.2006, No. 113608/25.08.2006, No. 113609/25.08.2006, No. 113610/25.08.2006, No. 113441/25.08.2006, No. 113442/25.08.2006, No. 113443/25.08.2006, No. 113444/25.08.2006, No. 113445/25.08.2006, No. 113446/25.08.2006, No. 113447/25.08.2006, No. 113448/25.08.2006, No. 113449/25.08.2006, No. 113450/25.08.2006, No. 113451/25.08.2006, No. 113452/25.08.2006, No. 113453/25.08.2006
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Solution	<p>It is the nature of risk that it can be mitigated and diminished; it cannot be made to disappear. In order to put this into context, the common action of walking on the street or developing everyday activities have an accident potential. This accident potential is twice higher than within the framework of industrial activities that use hazardous substances.</p> <p>A major chapter of the EIA report was dedicated to the identification of risks for the project. In addition, this chapter provides a discussion of the mitigation measures for each risk and how they were incorporated into the project designs. It is recognized that risk identification is difficult due to the number and diversity of events that can be envisioned. The EIA report cannot assume to cover all of he potential risks associated with the project. However, it has attempted to identify and address the most relevant risks. The extent of risk assessment and the intensity of the prevention and mitigation measures should be proportional to the risk involved and therefore only the risks that have been considered important have been assessed in detail. Each is described below.</p> <p>In the larger sense, the entire EIA report is focused on the assessment of impacts and their associated mitigation. Specifically, Chapter 4 of the EIA presents that impact assessment of the project. The following discussion presents a summary of the impact discussed in the EIA.</p> <p>As far as natural and technological risks assessments are concerned, Chapter 7, “Risk Cases”, from the Report on Environmental Impact Assessment, emphasizes the fact that safety and prevention measures, the implementation of the environmental management and risk systems are mitigating the consequences to acceptable levels as compared to the most restrictive norms, standards, the best practices or national and international recommendations in the field. The risk level has been established as moderate and so, socially acceptable. The extension of the risk assessment and the intensity of the prevention and mitigation measures of the consequences should be proportionate to the risk involved. Selection of a specific mitigation technique is depends on the analyzed accident scenario.</p> <p>More detailed assessments are conducted for accident scenarios that, based on the qualitative assessment are found to be potentially major, of probability more than 10^{-6} (reduced recovery periods of 1/1,000,000) meaning that they could have major consequences therefore, elevated associated risk, a higher risk level than 9 to 12 (on a scale of 1-25). To put this in context, simply living in southern Florida rates a 25 on the risk scale.</p> <p>A global assessment of the risks associated with the Roşia Montană Project is obtained by the quick environmental and health risk assessment methodology initially developed by the Italian Ministry of the</p>

Environment and the World Health Organization. Natural hazard and risk identification and analysis presents key data and information in assessing potential technological accidents. Thus:

- In designing the Tailings Management Facility, the design parameters were chosen to fully cover the characteristic seismic risk of the area. These seismic design parameters adopted for the TMF and other facilities on the proposed site result in a safety factor much greater than the minimum accepted under the Romanian and European design standards for such facilities;

- in the sector physically impacted by the Project, the risk of floods will remain very low due to the small catchments (controlled by the Roşia and Corna Streams) the area affected by the operation, and the creation of containment, diversion and drainage hydro-technical structures for storm waters on the site, and in the Abrud catchment in general;

- risks caused by meteorological events have been reviewed and used in assessing the hazards of the affected technological processes.

From the analysis of morphometrical parameters and their correlation with other sets of information on the natural slopes on and near the site shows that the (qualitatively estimated) landslide occurrence risk is low to moderate and its consequences will not cause major impacts on the structural components of the Project.

There is no significant risk associated with resource depletion. Mining activities are planned judiciously, so as to extract only the profitable gold and silver resources and only the necessary construction rock for the Project. The management of the mining concession site will minimize reserve "sterilization" (limitation of future access to the reserves).

In assessing technological hazards and risks, the quantity of hazardous substances on the site was calculated as a total and by category, as provided by the *Notification Procedure* approved by Ministry of Agriculture, Forestry, Water and Environment (MAFWE) Order 1084/2003. Based on an evaluation of hazardous substances in stock on the Project site in relation to the relevant quantities provided by the Government Decision 95/2003 which transposes the Seveso Directive, the Project ranges between the upper and the lower limits, and therefore S.C. Roşia Montană Gold Corporation S.A. is required to prepare a Report on Environmental Impact Assessment Study to be sent to the local environmental authority and the local civilian protection authority a *Safety Report* on its operations to prevent major accident risks.

In assessing the consequences of major accidents involving dangerous substances, physical-mathematical models accepted internationally and especially at EU level, and the current version of the SLAB (Canada) software have been used, the latter for the atmospheric dispersion of denser than air gases, that may handle a multitude of situations and scenarios. Similarly, the EFFECTSGis 5.5 (Netherlands) software, developed for the analysis of the effects of industrial accidents and of consequences. Several scenarios were considered in response to the internal legislative requirements, especially related to the implementation of the Internal Emergency Plans (GD 647/2005). The conclusions of the risk assessment for major accidents were:

- The total destruction of plant facilities may only be caused by terrorist attack with classic or nuclear weapons. Simultaneous damage to the HCl tank (including containment) and to the NaCN solution tank, the tanks containing enriched solution, to one or more leaching tanks, having as a result HCN dispersion into the air. At the same time, under certain situations and weather conditions unfavorable for dispersion, people within 40 m of the emission source, surprised by the toxic cloud for more than 1 minute without respiratory protection equipment, will most certainly die. It may also be considered that, on a radius of about 310 m, persons exposed for more than 10 minutes may suffer serious intoxications that may also lead to death. Toxic effects may occur in persons up to about 2 km downwind of the process plant;

- Operating errors and/or failures in the measurement and control devices, resulting in a lower pH in the leaching tank, thickener and/or DETOX slurry and accidental emissions of hydrocyanic acid. The area affected by concentrations of 290 ppm over a 10 min exposure time is within a circle of 36 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 157.5 m radius. The center of these circles is the middle of the CIL tanks platform;

- Accidental HCN emission from the decanter. The accident may be caused by a drop of pH in the CIL tanks combined with an overdose of flocculent solution and faulty pH monitoring systems. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 65 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 104 m radius. The center of these circles is mid-distance between the two DETOX facilities;

- Accidental HCN emission from the DETOX facility. The accident may be caused by a drop of pH in the reactors generated by an overdose of metabisulfite solution and/or copper sulphate combined with faulty pH monitoring systems. The area affected by high 1900 ppm concentrations for a 1 min exposure time is located within a 10 m radius circle. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 27 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 33 m radius. The center of these circles is mid-distance between the two DETOX facilities;

- Explosion of the LPG storage tank. The LPG storage tank has a 50 ton capacity and is located outdoors, near the heating plant. The simulation was conducted for the worst case scenario, considering an explosion of the full tank. Threshold I with heat 12.5 kW/m² is within a 10.5 m radius circle and Threshold II, of heat radiation 5 kW/m² is within a circle of 15 m radius;

- Damage and/or fire at the fuel tanks. Simulations were conducted for the worst case scenarios, considering ignition and combustion of all the diesel (fire in the tank, or in the containment vat, when full of diesel);

- Corna Dam break and breach development. Two credible accident scenarios were considered in simulating tailings flow out of the Tailings Management Facility, and six credible scenarios for the flow of decant water and tailings pore water, with significant effects on the terrestrial and aquatic ecosystems, in different weather conditions;

- Tailings flow may occur along Corna Valley, on a 800 m (starter dam break) or over 1600 m reach should the Corna dam break in its final stage;

- In regard to water quality impacts, cyanide concentrations in the water in the shape of a pollution plume may reach Arad, near the Romanian-Hungarian border on the Mureş River, in concentrations ranging between 0.03 and 0.5 mg/L. Due to inherent mathematical limitations in the models, these values and the accident effects are considered overestimated. Therefore, the results describe the “worst case scenario” based on extreme dam break assumptions for the Corna Dam.

A new and much more precise and realistic simulation has been subsequently established based on the INCA Mine model, that considers the dispersion, volatilization and breakdown of cyanides during the downstream movement of the pollutant flow (Whiteland et al., 2006).

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 (www.eurolimpacs.ucl.ac.uk). The model has been used to assess the impacts from future mining, and collection and treatment operations for pollution from past mining at Roşia 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 physical-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, an information sheet presenting the INCA modeling work is presented under the title of the Mureş River Modeling Program and the full modeling report is presented in Annex 5.1:

- Development of HCN on the tailings pond surface. Simulated emissions of HCN from the Tailings Management Facility pond surface and of their dispersion into the ambient air show that the level

of 400µ g/m³ hourly average and 179µ g/m³ 8hr average will not be exceeded. These HCN concentrations are only slightly over the odor threshold (0.17ppm) and much below potentially dangerous concentrations;

- Cetate Dam break and breach development. Flood modeling was in case of a break in Cetate dam was based on the design parameters obtained from the hydrometeorological study "Assessment of rainfall intensity, frequency and runoff for the Roşia Montană Project - Radu Drobot". The breach characteristics were predicted using the BREACH model, and the maximum height of the flood wave in various flow sections was modeled using the FLDWAV software. The assumptions included a total 800000 m³ discharge for one hour, when the peak of the flood hydrograph is about 4.9 m above base flow immediately below the dam and in the narrow Abrud valley 5.9-7,5 km downstream of the dam, while in the last section considered (10,5 km) water depth is about 2.3 m above base flow and the maximum flow rate 877 m³/s. Further, the broader Aries valley allows the flood wave to propagate on a significantly wider bed, which results in a highly attenuated hydrograph. These results describe the "worst case scenario" based on extreme dam break assumptions:

- Accidents during cyanide transportation. Due to the large quantities of cyanide transported (about 30t /day) the risks associated to this activity were assessed in detail using the ZHA- Zurich Hazard Analysis method. As a consequence, the optimum transport route was selected from the manufacturer to the Process Plant, e.g.;

- Cyanide transport (in solid state) will exclusively involve special SLS (Solid to Liquid System) containers, 16 tons each. The ISO compliant container will be protected by a framework with legs, which allows separation from the transport trailer for temporary storage. The wall is 5.17 mm thick, which, together with the protective framework, provides additional protection to the load in case of accident. This system is considered BAT and is currently one of the safest cyanide transportation options.

It is being mentioned the fact that the study develops the occurrence possibility of these scenarios (pages 166-171, Conclusions).

As regards the cyanides management, there is a baseline study named "Roşia Montană Golden Project, Cyanides Management Plan" prepared in compliance with the "International Management Code for the Manufacture, Transport and Use of Cyanide in the Production of Gold (International Cyanide management Institute) May 2002". S.C. Roşia Montană Gold Corporation is signatory to this code.

Bibliographical references for Chapter 7 "Risk Cases" are listed at page173-176.

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The impact on protected flora and fauna will exist only locally, but this impact will not lead to the loss of any specie. The Project has been designed even from the beginning to fully comply with the requirements and norms imposed by Romanian and European environmental legislation.

The company believes the fact that the project impact on environment remains significant, especially because covers previous impacts. But, the investments required to ecologically restore/rehabilitate Roşia Montană area in order to address current complex environmental issues, are only achievable following the implementation of some economic projects that will generate and warrant implementation of some direct and responsible actions as a component of base principles of sustainable development concepts. Clean processes and technologies may be developed only in the presence of a solid economic environment fully compliant with the environment that will also resolve previous impacts of anthropic activities.

The base documents of the Project are in fact an unbiased reason of its implementation, considering the highly complex environmental commitment within Roşia Montană area.

Some of the Roşia Montană species that are under a certain protection status stand for an insignificant percentage of the scale of populations estimated at national level. The characterization of species from their habitat point of view exists in the species tables presented in the Biodiversity Chapter of the EIA Report and its annexes, although this is not a requirement imposed by the Habitats Directive. Due to their large volume of information, the annexes of chapter 4.6 Biodiversity can be found in the electronic version of the EIA disclosed by the company both in Romanian and English through approx. 6,000 DVD/CD copies, being accessible on the company website, and on the websites of Ministry of Environment and Water Management, local and regional environmental protection agencies of Alba, Sibiu, Cluj, etc.

From practical point of view, the low value of conservation of the impact area is also indirectly emphasized by the fact that there is no proposal to designate the area a SPA (aviafaunistic special protected area) and by the denial as unfounded of the proposal to designate the area as a pSCI area (sites of community importance).

Taking all these into account, we believe that the proposed Project is compliant with the provisions of EU Directive no. 92/43 Habitats[1], and EU Directive no. 79/409 Birds[2] respectively, especially because within Biodiversity Management Plan, Plan H, several active and responsible measures are provided to reconstruct/rehabilitate several natural habitats, pursuant to the provisions of the same documents [3].

References:

[1] art.3, 2nd paragraph, Each Member State shall contribute to the creation of Natura 2000 (network) in proportion to the representation within its territory of the natural habitat types and the habitats of species referred to in paragraph 1. To that effect each Member State shall designate, in accordance with Article 4, sites as special areas of conservation taking account of the objectives set out in paragraph 1.

art.4, 1st paragraph. On the basis of the criteria set out in Annex III (Stage 1) and relevant scientific information, each Member State shall propose a list of sites indicating which natural habitat types in Annex I and which species in Annex II that are native to its territory the sites host. For animal species ranging over wide areas these sites shall correspond to the places within the natural range of such species which present the physical or biological factors essential to their life and reproduction. For aquatic species which range over wide areas, such sites will be proposed only where there is a clearly identifiable area representing the physical and biological factors essential to their life and reproduction. Where appropriate, Member States shall propose adaptation of the list in the light of the results of the surveillance referred to in Article 11. [...]

2nd paragraph.[...] Member States whose sites hosting one or more priority natural habitat types and priority species represent more than 5 % of their national territory may, in agreement with the Commission, request that the criteria listed in Annex III (Stage 2) be applied more flexibly in selecting all the sites of Community importance in their territory.[...]

Art. 6, 4th paragraph. If, in spite of a negative assessment of the implications for the site and in the absence of alternative solutions, a plan or project must nevertheless be carried out for imperative reasons of overriding public interest, including those of a social or economic nature, the Member State shall take all compensatory measures necessary to ensure that the overall coherence of Natura 2000 is protected. It shall inform the Commission of the compensatory measures adopted.

Art. 16. Provided that there is no satisfactory alternative and the derogation is not detrimental to the maintenance of the populations of the species concerned at a favourable conservation status in their natural range, Member States may derogate from the provisions of Articles 12, 13, 14 and 15 (a) and (b):[...]

- in the interests of public health and public safety, or for other imperative reasons of overriding public interest, including those of a social or economic nature and beneficial consequences of primary importance for the environment;

[2] Art.4, 1st paragraph. The species mentioned in annex 1 shall be the subject of special conservation measures concerning their habitat in order to ensure their survival and reproduction in their area of distribution. [...]

Trends and variations in population levels shall be taken into account as a background for evaluations. Member states shall classify in particular the most suitable territories in number and size as special protection areas for the conservation of these species, taking into account their protection requirements in the geographical sea and land area where this directive applies.

[3] Directive 92/43 Habitats, art. 2, 2nd paragraph; Directive 79/409 Birds, art. 3, 2nd paragraph, letter c.

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An engineered liner is included in the design of the Tailings Management Facility (TMF) basin. 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; and
- 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 (1×10^{-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 (1×10^{-6} cm/sec) cut off wall within the foundation of the starter dam to control seepage;
- A low permeability (1×10^{-6} 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.

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Please consider that the provisions of annex no. 2 to the Government Decision no. 349/2005 on the storing of the wastes, for the verification of the location, regarding *„the positioning in report to the existing or planned populated areas, the protection distance to the warehouse body must be of at least 1,000 meters for the non-dangerous and dangerous wastes deposits”*, do not apply in case of the mining wastes.

The Ministry of Environment and Waters Management, by the Hazardous Chemical Substances and Wastes Management Direction, requested the project titleholder, by the Guidelines sent with a view to the performance of the evaluation of the environmental impact, according to the provisions of the Order of the Minister of Waters and Environmental Protection no. 860/2002 on the environmental impact assessment and environmental approval issuance Procedure, that this project “must be in compliance with the provisions of the new CE Directive on the management of the wastes from the extractive industry”.

To this end, we underline that the Directive no. 2006/21/EC referring to the management of the wastes from the extractive industry provides, at art. 2 (4), that the wastes falling under this directive are exempted from the provisions of the Directive 1999/31/EC on the wastes storing, implemented in the national legislation by GD no. 349/2995. Consequently, the provisions of the Directive 1999/31/EC do not apply to the Roşia Montană project and therefore, neither the provisions of GD no. 349/2005 are applicable. The Directive on the extractive wastes contains provisions and conditions specific in regard of the storing of this type of wastes, and which are applied with priority in report to the regulations already in existence on wastes storing.

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No. to identify the observations received from the public	No. 112428/ 25.08.2006 Same as: No. 112427/25.08.2006, No. 112426/25.08.2006, No. 112425/25.08.2006, No. 112424/25.08.2006, No. 112423/25.08.2006, No. 112422/25.08.2006, No. 112421/25.08.2006, No. 112420 and No. 112419/25.08.2006, No. 112420 and No. 112419/25.08.2006, No. 112418/25.08.2006, No. 112417/25.08.2006, Nr. 112416/25.08.2006, No. 112415/25.08.2006, No. 112414/25.08.2006, Nr. 112413/25.08.2006, No. 112412/25.08.2006, No. 112411 and No. 112409/25.08.2006, No. 112410/25.08.2006, No. 112411 and No. 112409/25.08.2006, No. 112408/25.08.2006, No. 112407/25.08.2006, No. 112406/25.08.2006, No. 112405/25.08.2006, No. 112404/25.08.2006, No. 12404BIS/25.08.2006, No. 112403/25.08.2006, No. 112402/25.08.2006, No. 112401/25.08.2006, No. 112400/25.08.2006
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Solution	<p>It is the nature of risk that it can be mitigated and diminished; it cannot be made to disappear. In order to put this into context, the common action of walking on the street or developing everyday activities have an accident potential. This accident potential is twice higher than within the framework of industrial activities that use hazardous substances.</p> <p>A major chapter of the EIA report was dedicated to the identification of risks for the project. In addition, this chapter provides a discussion of the mitigation measures for each risk and how they were incorporated into the project designs. It is recognized that risk identification is difficult due to the number and diversity of events that can be envisioned. The EIA report cannot assume to cover all of he potential risks associated with the project. However, it has attempted to identify and address the most relevant risks. The extent of risk assessment and the intensity of the prevention and mitigation measures should be proportional to the risk involved and therefore only the risks that have been considered important have been assessed in detail. Each is described below.</p> <p>In the larger sense, the entire EIA report is focused on the assessment of impacts and their associated mitigation. Specifically, Chapter 4 of the EIA presents that impact assessment of the project. The following discussion presents a summary of the impact discussed in the EIA.</p> <p>As far as natural and technological risks assessments are concerned, Chapter 7, "Risk Cases", from the Report on Environmental Impact Assessment, emphasizes the fact that safety and prevention measures, the implementation of the environmental management and risk systems are mitigating the consequences to acceptable levels as compared to the most restrictive norms, standards, the best practices or national and international recommendations in the field. The risk level has been established as moderate and so, socially acceptable. The extension of the risk assessment and the intensity of the prevention and mitigation measures of the consequences should be proportionate to the risk involved. Selection of a specific mitigation technique is depends on the analyzed accident scenario.</p> <p>More detailed assessments are conducted for accident scenarios that, based on the qualitative assessment are found to be potentially major, of probability more than 10^{-6} (reduced recovery periods of 1/1,000,000) meaning that they could have major consequences therefore, elevated associated risk, a higher risk level than 9 to 12 (on a scale of 1-25). To put this in context, simply living in southern Florida rates a 25 on the risk scale.</p> <p>A global assessment of the risks associated with the Roşia Montană Project is obtained by the quick</p>

environmental and health risk assessment methodology initially developed by the Italian Ministry of the Environment and the World Health Organization. Natural hazard and risk identification and analysis presents key data and information in assessing potential technological accidents. Thus:

- In designing the Tailings Management Facility, the design parameters were chosen to fully cover the characteristic seismic risk of the area. These seismic design parameters adopted for the TMF and other facilities on the proposed site result in a safety factor much greater than the minimum accepted under the Romanian and European design standards for such facilities;

- in the sector physically impacted by the Project, the risk of floods will remain very low due to the small catchments (controlled by the Roşia and Corna Streams) the area affected by the operation, and the creation of containment, diversion and drainage hydro-technical structures for storm waters on the site, and in the Abrud catchment in general;

- risks caused by meteorological events have been reviewed and used in assessing the hazards of the affected technological processes.

From the analysis of morphometrical parameters and their correlation with other sets of information on the natural slopes on and near the site shows that the (qualitatively estimated) landslide occurrence risk is low to moderate and its consequences will not cause major impacts on the structural components of the Project.

There is no significant risk associated with resource depletion. Mining activities are planned judiciously, so as to extract only the profitable gold and silver resources and only the necessary construction rock for the Project. The management of the mining concession site will minimize reserve "sterilization" (limitation of future access to the reserves).

In assessing technological hazards and risks, the quantity of hazardous substances on the site was calculated as a total and by category, as provided by the *Notification Procedure* approved by Ministry of Agriculture, Forestry, Water and Environment (MAFWE) Order 1084/2003. Based on an evaluation of hazardous substances in stock on the Project site in relation to the relevant quantities provided by the Government Decision 95/2003 which transposes the Seveso Directive, the Project ranges between the upper and the lower limits, and therefore S.C. Roşia Montană Gold Corporation S.A. is required to prepare a Report on Environmental Impact Assessment Study to be sent to the local environmental authority and the local civilian protection authority a *Safety Report* on its operations to prevent major accident risks.

In assessing the consequences of major accidents involving dangerous substances, physical-mathematical models accepted internationally and especially at EU level, and the current version of the SLAB (Canada) software have been used, the latter for the atmospheric dispersion of denser than air gases, that may handle a multitude of situations and scenarios. Similarly, the EFFECTSGis 5.5 (Netherlands) software, developed for the analysis of the effects of industrial accidents and of consequences. Several scenarios were considered in response to the internal legislative requirements, especially related to the implementation of the Internal Emergency Plans (GD 647/2005). The conclusions of the risk assessment for major accidents were:

- The total destruction of plant facilities may only be caused by terrorist attack with classic or nuclear weapons. Simultaneous damage to the HCl tank (including containment) and to the NaCN solution tank, the tanks containing enriched solution, to one or more leaching tanks, having as a result HCN dispersion into the air. At the same time, under certain situations and weather conditions unfavorable for dispersion, people within 40 m of the emission source, surprised by the toxic cloud for more than 1 minute without respiratory protection equipment, will most certainly die. It may also be considered that, on a radius of about 310 m, persons exposed for more than 10 minutes may suffer serious intoxications that may also lead to death. Toxic effects may occur in persons up to about 2 km downwind of the process plant;

- Operating errors and/or failures in the measurement and control devices, resulting in a lower pH in the leaching tank, thickener and/or DETOX slurry and accidental emissions of hydrocyanic acid. The area affected by concentrations of 290 ppm over a 10 min exposure time is within a circle of 36 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 157.5 m radius. The center of these circles is the middle of the CIL tanks platform;

- Accidental HCN emission from the decanter. The accident may be caused by a drop of pH in the CIL tanks combined with an overdose of flocculent solution and faulty pH monitoring systems. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 65 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 104 m radius. The center

of these circles is mid-distance between the two DETOX facilities;

- Accidental HCN emission from the DETOX facility. The accident may be caused by a drop of pH in the reactors generated by an overdose of metabisulfite solution and/or copper sulphate combined with faulty pH monitoring systems. The area affected by high 1900 ppm concentrations for a 1 min exposure time is located within a 10 m radius circle. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 27 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 33 m radius. The center of these circles is mid-distance between the two DETOX facilities;

- Explosion of the LPG storage tank. The LPG storage tank has a 50 ton capacity and is located outdoors, near the heating plant. The simulation was conducted for the worst case scenario, considering an explosion of the full tank. Threshold I with heat 12.5 kW/m² is within a 10.5 m radius circle and Threshold II, of heat radiation 5 kW/m² is within a circle of 15 m radius;

- Damage and/or fire at the fuel tanks. Simulations were conducted for the worst case scenarios, considering ignition and combustion of all the diesel (fire in the tank, or in the containment vat, when full of diesel);

- Corna Dam break and breach development. Two credible accident scenarios were considered in simulating tailings flow out of the Tailings Management Facility, and six credible scenarios for the flow of decant water and tailings pore water, with significant effects on the terrestrial and aquatic ecosystems, in different weather conditions;

- Tailings flow may occur along Corna Valley, on a 800 m (starter dam break) or over 1600 m reach should the Corna dam break in its final stage;

- In regard to water quality impacts, cyanide concentrations in the water in the shape of a pollution plume may reach Arad, near the Romanian-Hungarian border on the Mureş River, in concentrations ranging between 0.03 and 0.5 mg/L. Due to inherent mathematical limitations in the models, these values and the accident effects are considered overestimated. Therefore, the results describe the “worst case scenario” based on extreme dam break assumptions for the Corna Dam.

A new and much more precise and realistic simulation has been subsequently established based on the INCA Mine model, that considers the dispersion, volatilization and breakdown of cyanides during the downstream movement of the pollutant flow (Whiteland et al., 2006).

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 (www.eurolimpacs.ucl.ac.uk). The model has been used to assess the impacts from future mining, and collection and treatment operations for pollution from past mining at Roşia 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 physical-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, an information sheet presenting the INCA modeling work is presented under the title of the Mureş River Modeling Program and the full modeling report is presented in Annex 5.1:

- Development of HCN on the tailings pond surface. Simulated emissions of HCN from the

Tailings Management Facility pond surface and of their dispersion into the ambient air show that the level of $400\mu\text{g}/\text{m}^3$ hourly average and $179\mu\text{g}/\text{m}^3$ 8hr average will not be exceeded. These HCN concentrations are only slightly over the odor threshold (0.17ppm) and much below potentially dangerous concentrations;

- Cetate Dam break and breach development. Flood modeling was in case of a break in Cetate dam was based on the design parameters obtained from the hydrometeorological study "Assessment of rainfall intensity, frequency and runoff for the Roşia Montană Project - Radu Drobot". The breach characteristics were predicted using the BREACH model, and the maximum height of the flood wave in various flow sections was modeled using the FLDWAV software. The assumptions included a total 800000 m^3 discharge for one hour, when the peak of the flood hydrograph is about 4.9 m above base flow immediately below the dam and in the narrow Abrud valley 5.9-7,5 km downstream of the dam, while in the last section considered (10,5 km) water depth is about 2.3 m above base flow and the maximum flow rate $877\text{ m}^3/\text{s}$. Further, the broader Aries valley allows the flood wave to propagate on a significantly wider bed, which results in a highly attenuated hydrograph. These results describe the "worst case scenario" based on extreme dam break assumptions:

- Accidents during cyanide transportation. Due to the large quantities of cyanide transported (about 30t /day) the risks associated to this activity were assessed in detail using the ZHA- Zurich Hazard Analysis method. As a consequence, the optimum transport route was selected from the manufacturer to the Process Plant, e.g.;

- Cyanide transport (in solid state) will exclusively involve special SLS (Solid to Liquid System) containers, 16 tons each. The ISO compliant container will be protected by a framework with legs, which allows separation from the transport trailer for temporary storage. The wall is 5.17 mm thick, which, together with the protective framework, provides additional protection to the load in case of accident. This system is considered BAT and is currently one of the safest cyanide transportation options.

It is being mentioned the fact that the study develops the occurrence possibility of these scenarios (pages 166-171, Conclusions).

As regards the cyanides management, there is a baseline study named "Roşia Montană Golden Project, Cyanides Management Plan" prepared in compliance with the "International Management Code for the Manufacture, Transport and Use of Cyanide in the Production of Gold (International Cyanide management Institute) May 2002". S.C. Roşia Montană Gold Corporation is signatory to this code.

Bibliographical references for Chapter 7 "Risk Cases" are listed at page 173-176.

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The impact on protected flora and fauna will exist only locally, but this impact will not lead to the loss of any specie. The Project has been designed even from the beginning to fully comply with the requirements and norms imposed by Romanian and European environmental legislation.

The company believes the fact that the project impact on environment remains significant, especially because covers previous impacts. But, the investments required to ecologically restore/rehabilitate Roşia Montană area in order to address current complex environmental issues, are only achievable following the implementation of some economic projects that will generate and warrant implementation of some direct and responsible actions as a component of base principles of sustainable development concepts. Clean processes and technologies may be developed only in the presence of a solid economic environment fully compliant with the environment that will also resolve previous impacts of anthropic activities.

The base documents of the Project are in fact an unbiased reason of its implementation, considering the highly complex environmental commitment within Roşia Montană area.

Some of the Roşia Montană species that are under a certain protection status stand for an insignificant percentage of the scale of populations estimated at national level. The characterization of species from their habitat point of view exists in the species tables presented in the Biodiversity Chapter of the EIA Report and its annexes, although this is not a requirement imposed by the Habitats Directive. Due to their large volume of information, the annexes of chapter 4.6 Biodiversity can be found in the electronic version of the EIA disclosed by the company both in Romanian and English through approx. 6,000 DVD/CD copies, being accessible on the company website, and on the websites of Ministry of Environment and

Water Management, local and regional environmental protection agencies of Alba, Sibiu, Cluj, etc.

From practical point of view, the low value of conservation of the impact area is also indirectly emphasized by the fact that there is no proposal to designate the area a SPA (aviafaunistic special protected area) and by the denial as unfounded of the proposal to designate the area as a pSCI area (sites of community importance).

Taking all these into account, we believe that the proposed Project is compliant with the provisions of EU Directive no. 92/43 Habitats[1], and EU Directive no. 79/409 Birds[2] respectively, especially because within Biodiversity Management Plan, Plan H, several active and responsible measures are provided to reconstruct/rehabilitate several natural habitats, pursuant to the provisions of the same documents [3].

References:

[1] art.3, 2nd paragraph, Each Member State shall contribute to the creation of Natura 2000 (network) in proportion to the representation within its territory of the natural habitat types and the habitats of species referred to in paragraph 1. To that effect each Member State shall designate, in accordance with Article 4, sites as special areas of conservation taking account of the objectives set out in paragraph 1.

art.4, 1st paragraph. On the basis of the criteria set out in Annex III (Stage 1) and relevant scientific information, each Member State shall propose a list of sites indicating which natural habitat types in Annex I and which species in Annex II that are native to its territory the sites host. For animal species ranging over wide areas these sites shall correspond to the places within the natural range of such species which present the physical or biological factors essential to their life and reproduction. For aquatic species which range over wide areas, such sites will be proposed only where there is a clearly identifiable area representing the physical and biological factors essential to their life and reproduction. Where appropriate, Member States shall propose adaptation of the list in the light of the results of the surveillance referred to in Article 11. [...]

2nd paragraph.[...] Member States whose sites hosting one or more priority natural habitat types and priority species represent more than 5 % of their national territory may, in agreement with the Commission, request that the criteria listed in Annex III (Stage 2) be applied more flexibly in selecting all the sites of Community importance in their territory.[...]

Art. 6, 4th paragraph. If, in spite of a negative assessment of the implications for the site and in the absence of alternative solutions, a plan or project must nevertheless be carried out for imperative reasons of overriding public interest, including those of a social or economic nature, the Member State shall take all compensatory measures necessary to ensure that the overall coherence of Natura 2000 is protected. It shall inform the Commission of the compensatory measures adopted.

Art. 16. Provided that there is no satisfactory alternative and the derogation is not detrimental to the maintenance of the populations of the species concerned at a favourable conservation status in their natural range, Member States may derogate from the provisions of Articles 12, 13, 14 and 15 (a) and (b):[...]

- in the interests of public health and public safety, or for other imperative reasons of overriding public interest, including those of a social or economic nature and beneficial consequences of primary importance for the environment;

[2] Art.4, 1st paragraph. The species mentioned in annex 1 shall be the subject of special conservation measures concerning their habitat in order to ensure their survival and reproduction in their area of distribution. [...]

Trends and variations in population levels shall be taken into account as a background for evaluations. Member states shall classify in particular the most suitable territories in number and size as special protection areas for the conservation of these species, taking into account their protection requirements in the geographical sea and land area where this directive applies.

[3] Directive 92/43 Habitats, art. 2, 2nd paragraph; Directive 79/409 Birds, art. 3, 2nd paragraph, letter c.

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An engineered liner is included in the design of the Tailings Management Facility (TMF) basin. 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; and
- 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 (1×10^{-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 (1×10^{-6} cm/sec) cut off wall within the foundation of the starter dam to control seepage;
- A low permeability (1×10^{-6} 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.

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Please consider that the provisions of annex no. 2 to the Government Decision no. 349/2005 on the storing of the wastes, for the verification of the location, regarding *„the positioning in report to the existing or planned populated areas, the protection distance to the warehouse body must be of at least 1,000 meters for the non-dangerous and dangerous wastes deposits”*, do not apply in case of the mining wastes.

The Ministry of Environment and Waters Management, by the Hazardous Chemical Substances and Wastes Management Direction, requested the project titleholder, by the Guidelines sent with a view to the performance of the evaluation of the environmental impact, according to the provisions of the Order of the Minister of Waters and Environmental Protection no. 860/2002 on the environmental impact assessment and environmental approval issuance Procedure, that this project “must be in compliance with the provisions of the new CE Directive on the management of the wastes from the extractive industry”.

To this end, we underline that the Directive no. 2006/21/EC referring to the management of the wastes from the extractive industry provides, at art. 2 (4), that the wastes falling under this directive are exempted from the provisions of the Directive 1999/31/EC on the wastes storing, implemented in the national legislation by GD no. 349/2995. Consequently, the provisions of the Directive 1999/31/EC do not apply to the Roşia Montană project and therefore, neither the provisions of GD no. 349/2005 are applicable. The Directive on the extractive wastes contains provisions and conditions specific in regard of the storing of this type of wastes, and which are applied with priority in report to the regulations already in existence on wastes storing.

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Detailed financial guarantees are in place, in the form of the Environmental Financial Guarantee (“EFG”), which require Roşia Montană Gold Corporation (“RMGC”) to maintain adequate funds for environmental cleanup. The EFG is updated annually and will always reflect the costs associated with reclamation. The current projected closure cost for Roşia Montană is US \$76 million, which is based on the mine operating for its full 16-year lifespan.

The EFG is governed by the Mining Law (no. 85/2003) and the National Agency for Mineral Resources instructions and Mining Law Enforcement Norms (no. 1208/2003).

Two directives issued by the European Union also impact the EFG: the Mine Waste Directive (“MWD”) and the Environmental Liability Directive (“ELD”).

The Mine Waste Directive aims to ensure that coverage is available for 1) all the obligations connected to the permit granted for the disposal of waste material resulting from mining activities and 2) all of the costs related to the rehabilitation of the land affected by a waste facility. The Environmental Liability Directive regulates the remedies, and measures to be taken by the environmental authorities, in the event of environmental damage created by mining operations, with the goal of ensuring adequate financial resources are available from the operators for environmental cleanup efforts. While these directives have yet to be transposed by the Romanian Government, the deadlines for implementing their enforcement mechanisms are 30 April 2007 (ELD) and 1 May 2008 (MWD) – thus before operations are scheduled to begin at Roşia Montană.

RMGC has already begun the process of complying with these directives, and once their implementation instruments are enacted by the Romanian Government, we will be in full compliance.

Each EFG will follow detailed guidelines generated by the World Bank and the International Council on Mining and Metals.

The annual updates will be completed by independent experts, carried out in consultation with the NAMR, as the Governmental authority competent in mining activities field. These updates will ensure that in the unlikely event of early closure of the project, at any point in time, each EFG will always reflect the costs associated with reclamation. (These annual updates will result in an estimate that exceeds our current US \$76 million costs of closure, because some reclamation activity is incorporated into the routine operations of the mine.)

A number of different financial instruments are available to ensure that RMGC is capable of covering all of the expected closure costs. These instruments, which will be held in protected accounts at the Romanian state disposal, include:

- Cash deposit ;
- Trust funds ;
- Letter of credit ;
- Surety bonds ;
- Insurance policy.

Under the terms of this guarantee, the Romanian government will have no financial liability in connection with the rehabilitation of the Roşia Montană project.

Item no.	4196 Same as: 4197, 4198, 4199, 4200, 4201, 4202, 4203, 4204, 4205, 4206, 4207, 4208, 4209, 4210, 4211, 4212, 4213, 4214, 4215, 4216, 4217, 4218, 4219, 4220, 4221, 4222, 4223, 4224, 4225
No. to identify the observations received from the public	No. 113862/25.08.2006 Same as: No. 113863/25.08.2006, No. 113864/25.08.2006, No. 113865/25.08.2006, No. 113866/25.08.2006, No. 113867/25.08.2006, No. 113868/25.08.2006, No. 113869/25.08.2006, No. 113870/25.08.2006, No. 113871/25.08.2006, No. 113872/25.08.2006, No. 113873/25.08.2006, No. 113874/25.08.2006, No. 113875/25.08.2006, No. 113876/25.08.2006, No. 113877/25.08.2006, No. 113878/25.08.2006, No. 113879/25.08.2006, No. 113880/25.08.2006, No. 113881/25.08.2006, No. 113882/25.08.2006, No. 113883/25.08.2006, No. 113884/25.08.2006, No. 113885/25.08.2006, No. 113886/25.08.2006, No. 113887/25.08.2006, No. 113888/25.08.2006, No. 113889/25.08.2006, No. 113890/25.08.2006, No. 113891/25.08.2006
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In assessing the consequences of major accidents involving dangerous substances, physical-mathematical models accepted internationally and especially at EU level, and the current version of the SLAB (Canada) software have been used, the latter for the atmospheric dispersion of denser than air gases, that may handle a multitude of situations and scenarios. Similarly, the EFFECTSGis 5.5 (Netherlands) software, developed for the analysis of the effects of industrial accidents and of consequences. Several scenarios were considered in response to the internal legislative requirements, especially related to the implementation of the Internal Emergency Plans (GD 647/2005). The conclusions of the risk assessment for major accidents were:

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- Damage and/or fire at the fuel tanks. Simulations were conducted for the worst case scenarios, considering ignition and combustion of all the diesel (fire in the tank, or in the containment vat, when full of diesel);

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- Tailings flow may occur along Corna Valley, on a 800 m (starter dam break) or over 1600 m reach should the Corna dam break in its final stage;

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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 (www.eurolimpacs.ucl.ac.uk). The model has been used to assess the impacts from future mining, and collection and treatment operations for pollution from past mining at Roşia 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 physical-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, an information sheet presenting the INCA modeling work is presented under the title of the Mureş River Modeling Program and the full modeling report is presented in Annex 5.1:

- Development of HCN on the tailings pond surface. Simulated emissions of HCN from the Tailings Management Facility pond surface and of their dispersion into the ambient air show that the level

of 400µ g/m³ hourly average and 179µ g/m³ 8hr average will not be exceeded. These HCN concentrations are only slightly over the odor threshold (0.17ppm) and much below potentially dangerous concentrations;

- Cetate Dam break and breach development. Flood modeling was in case of a break in Cetate dam was based on the design parameters obtained from the hydrometeorological study "Assessment of rainfall intensity, frequency and runoff for the Roşia Montană Project - Radu Drobot". The breach characteristics were predicted using the BREACH model, and the maximum height of the flood wave in various flow sections was modeled using the FLDWAV software. The assumptions included a total 800000 m³ discharge for one hour, when the peak of the flood hydrograph is about 4.9 m above base flow immediately below the dam and in the narrow Abrud valley 5.9-7,5 km downstream of the dam, while in the last section considered (10,5 km) water depth is about 2.3 m above base flow and the maximum flow rate 877 m³/s. Further, the broader Aries valley allows the flood wave to propagate on a significantly wider bed, which results in a highly attenuated hydrograph. These results describe the "worst case scenario" based on extreme dam break assumptions:

- Accidents during cyanide transportation. Due to the large quantities of cyanide transported (about 30t /day) the risks associated to this activity were assessed in detail using the ZHA- Zurich Hazard Analysis method. As a consequence, the optimum transport route was selected from the manufacturer to the Process Plant, e.g.;

- Cyanide transport (in solid state) will exclusively involve special SLS (Solid to Liquid System) containers, 16 tons each. The ISO compliant container will be protected by a framework with legs, which allows separation from the transport trailer for temporary storage. The wall is 5.17 mm thick, which, together with the protective framework, provides additional protection to the load in case of accident. This system is considered BAT and is currently one of the safest cyanide transportation options.

It is being mentioned the fact that the study develops the occurrence possibility of these scenarios (pages 166-171, Conclusions).

As regards the cyanides management, there is a baseline study named "Roşia Montană Golden Project, Cyanides Management Plan" prepared in compliance with the "International Management Code for the Manufacture, Transport and Use of Cyanide in the Production of Gold (International Cyanide management Institute) May 2002". S.C. Roşia Montană Gold Corporation is signatory to this code.

Bibliographical references for Chapter 7 "Risk Cases" are listed at page173-176.

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The impact on protected flora and fauna will exist only locally, but this impact will not lead to the loss of any specie. The Project has been designed even from the beginning to fully comply with the requirements and norms imposed by Romanian and European environmental legislation.

The company believes the fact that the project impact on environment remains significant, especially because covers previous impacts. But, the investments required to ecologically restore/rehabilitate Roşia Montană area in order to address current complex environmental issues, are only achievable following the implementation of some economic projects that will generate and warrant implementation of some direct and responsible actions as a component of base principles of sustainable development concepts. Clean processes and technologies may be developed only in the presence of a solid economic environment fully compliant with the environment that will also resolve previous impacts of anthropic activities.

The base documents of the Project are in fact an unbiased reason of its implementation, considering the highly complex environmental commitment within Roşia Montană area.

Some of the Roşia Montană species that are under a certain protection status stand for an insignificant percentage of the scale of populations estimated at national level. The characterization of species from their habitat point of view exists in the species tables presented in the Biodiversity Chapter of the EIA Report and its annexes, although this is not a requirement imposed by the Habitats Directive. Due to their large volume of information, the annexes of chapter 4.6 Biodiversity can be found in the electronic version of the EIA disclosed by the company both in Romanian and English through approx. 6,000 DVD/CD copies, being accessible on the company website, and on the websites of Ministry of Environment and Water Management, local and regional environmental protection agencies of Alba, Sibiu, Cluj, etc.

From practical point of view, the low value of conservation of the impact area is also indirectly emphasized by the fact that there is no proposal to designate the area a SPA (aviafaunistic special protected area) and by the denial as unfounded of the proposal to designate the area as a pSCI area (sites of community importance).

Taking all these into account, we believe that the proposed Project is compliant with the provisions of EU Directive no. 92/43 Habitats[1], and EU Directive no. 79/409 Birds[2] respectively, especially because within Biodiversity Management Plan, Plan H, several active and responsible measures are provided to reconstruct/rehabilitate several natural habitats, pursuant to the provisions of the same documents [3].

References:

[1] art.3, 2nd paragraph, Each Member State shall contribute to the creation of Natura 2000 (network) in proportion to the representation within its territory of the natural habitat types and the habitats of species referred to in paragraph 1. To that effect each Member State shall designate, in accordance with Article 4, sites as special areas of conservation taking account of the objectives set out in paragraph 1.

art.4, 1st paragraph. On the basis of the criteria set out in Annex III (Stage 1) and relevant scientific information, each Member State shall propose a list of sites indicating which natural habitat types in Annex I and which species in Annex II that are native to its territory the sites host. For animal species ranging over wide areas these sites shall correspond to the places within the natural range of such species which present the physical or biological factors essential to their life and reproduction. For aquatic species which range over wide areas, such sites will be proposed only where there is a clearly identifiable area representing the physical and biological factors essential to their life and reproduction. Where appropriate, Member States shall propose adaptation of the list in the light of the results of the surveillance referred to in Article 11. [...]

2nd paragraph.[...] Member States whose sites hosting one or more priority natural habitat types and priority species represent more than 5 % of their national territory may, in agreement with the Commission, request that the criteria listed in Annex III (Stage 2) be applied more flexibly in selecting all the sites of Community importance in their territory.[...]

Art. 6, 4th paragraph. If, in spite of a negative assessment of the implications for the site and in the absence of alternative solutions, a plan or project must nevertheless be carried out for imperative reasons of overriding public interest, including those of a social or economic nature, the Member State shall take all compensatory measures necessary to ensure that the overall coherence of Natura 2000 is protected. It shall inform the Commission of the compensatory measures adopted.

Art. 16. Provided that there is no satisfactory alternative and the derogation is not detrimental to the maintenance of the populations of the species concerned at a favourable conservation status in their natural range, Member States may derogate from the provisions of Articles 12, 13, 14 and 15 (a) and (b):[...]

- in the interests of public health and public safety, or for other imperative reasons of overriding public interest, including those of a social or economic nature and beneficial consequences of primary importance for the environment;

[2] Art.4, 1st paragraph. The species mentioned in annex 1 shall be the subject of special conservation measures concerning their habitat in order to ensure their survival and reproduction in their area of distribution. [...]

Trends and variations in population levels shall be taken into account as a background for evaluations. Member states shall classify in particular the most suitable territories in number and size as special protection areas for the conservation of these species, taking into account their protection requirements in the geographical sea and land area where this directive applies.

[3] Directive 92/43 Habitats, art. 2, 2nd paragraph; Directive 79/409 Birds, art. 3, 2nd paragraph, letter c.

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An engineered liner is included in the design of the Tailings Management Facility (TMF) basin. 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; and
- 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 (1×10^{-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 (1×10^{-6} cm/sec) cut off wall within the foundation of the starter dam to control seepage;
- A low permeability (1×10^{-6} 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.

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Please consider that the provisions of annex no. 2 to the Government Decision no. 349/2005 on the storing of the wastes, for the verification of the location, regarding *„the positioning in report to the existing or planned populated areas, the protection distance to the warehouse body must be of at least 1,000 meters for the non-dangerous and dangerous wastes deposits”*, do not apply in case of the mining wastes.

The Ministry of Environment and Waters Management, by the Hazardous Chemical Substances and Wastes Management Direction, requested the project titleholder, by the Guidelines sent with a view to the performance of the evaluation of the environmental impact, according to the provisions of the Order of the Minister of Waters and Environmental Protection no. 860/2002 on the environmental impact assessment and environmental approval issuance Procedure, that this project “must be in compliance with the provisions of the new CE Directive on the management of the wastes from the extractive industry”.

To this end, we underline that the Directive no. 2006/21/EC referring to the management of the wastes from the extractive industry provides, at art. 2 (4), that the wastes falling under this directive are exempted from the provisions of the Directive 1999/31/EC on the wastes storing, implemented in the national legislation by GD no. 349/2995. Consequently, the provisions of the Directive 1999/31/EC do not apply to the Roşia Montană project and therefore, neither the provisions of GD no. 349/2005 are applicable. The Directive on the extractive wastes contains provisions and conditions specific in regard of the storing of this type of wastes, and which are applied with priority in report to the regulations already in existence on wastes storing.

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Detailed financial guarantees are in place, in the form of the Environmental Financial Guarantee (“EFG”), which require Roşia Montană Gold Corporation (“RMGC”) to maintain adequate funds for environmental cleanup. The EFG is updated annually and will always reflect the costs associated with reclamation. The current projected closure cost for Roşia Montană is US \$76 million, which is based on the mine operating for its full 16-year lifespan.

The EFG is governed by the Mining Law (no. 85/2003) and the National Agency for Mineral Resources instructions and Mining Law Enforcement Norms (no. 1208/2003).

Two directives issued by the European Union also impact the EFG: the Mine Waste Directive (“MWD”) and the Environmental Liability Directive (“ELD”).

The Mine Waste Directive aims to ensure that coverage is available for 1) all the obligations connected to the permit granted for the disposal of waste material resulting from mining activities and 2) all of the costs related to the rehabilitation of the land affected by a waste facility. The Environmental Liability Directive regulates the remedies, and measures to be taken by the environmental authorities, in the event of environmental damage created by mining operations, with the goal of ensuring adequate financial resources are available from the operators for environmental cleanup efforts. While these directives have yet to be transposed by the Romanian Government, the deadlines for implementing their enforcement mechanisms are 30 April 2007 (ELD) and 1 May 2008 (MWD) – thus before operations are scheduled to begin at Roşia Montană.

RMGC has already begun the process of complying with these directives, and once their implementation instruments are enacted by the Romanian Government, we will be in full compliance.

Each EFG will follow detailed guidelines generated by the World Bank and the International Council on Mining and Metals.

The annual updates will be completed by independent experts, carried out in consultation with the NAMR, as the Governmental authority competent in mining activities field. These updates will ensure that in the unlikely event of early closure of the project, at any point in time, each EFG will always reflect the costs associated with reclamation. (These annual updates will result in an estimate that exceeds our current US \$76 million costs of closure, because some reclamation activity is incorporated into the routine operations of the mine.)

A number of different financial instruments are available to ensure that RMGC is capable of covering all of the expected closure costs. These instruments, which will be held in protected accounts at the Romanian state disposal, include:

- Cash deposit ;
- Trust funds ;
- Letter of credit ;
- Surety bonds ;
- Insurance policy.

Under the terms of this guarantee, the Romanian government will have no financial liability in connection with the rehabilitation of the Roşia Montană project.

Item no.	4226 Same as: 4227, 4228, 4229, 4230	
No. to identify the observations received from the public	No. 113892/25.08.2006	Same as: No. 113893/25.08.2006, No. 113894/25.08.2006, No. 113895/25.08.2006, No. 113896/25.08.2006
Proposal	<p>The questioner opposes the mining project at Roşia Montană and makes the following observations and comments:</p> <ul style="list-style-type: none"> -In EIA there are no presented all the possible risks derived from this project; poses a threat for protected flora and fauna; -There is no liner proposed for the tailings pond; -The proposed waste deposits will be not constructed in conformity with the Romanian legislation in force (at least 1000 m towards the inhabited areas); -Financial guarantees for the closure and post-closure periods were not fixed. <p>SEE THE CONTENT OF THE TYPE 5 CONTESTATION</p>	
Solution	<p>It is the nature of risk that it can be mitigated and diminished; it cannot be made to disappear. In order to put this into context, the common action of walking on the street or developing everyday activities have an accident potential. This accident potential is twice higher than within the framework of industrial activities that use hazardous substances.</p> <p>A major chapter of the EIA report was dedicated to the identification of risks for the project. In addition, this chapter provides a discussion of the mitigation measures for each risk and how they were incorporated into the project designs. It is recognized that risk identification is difficult due to the number and diversity of events that can be envisioned. The EIA report cannot assume to cover all of the potential risks associated with the project. However, it has attempted to identify and address the most relevant risks. The extent of risk assessment and the intensity of the prevention and mitigation measures should be proportional to the risk involved and therefore only the risks that have been considered important have been assessed in detail. Each is described below.</p> <p>In the larger sense, the entire EIA report is focused on the assessment of impacts and their associated mitigation. Specifically, Chapter 4 of the EIA presents that impact assessment of the project. The following discussion presents a summary of the impact discussed in the EIA.</p> <p>As far as natural and technological risks assessments are concerned, Chapter 7, "Risk Cases", from the Report on Environmental Impact Assessment, emphasizes the fact that safety and prevention measures, the implementation of the environmental management and risk systems are mitigating the consequences to acceptable levels as compared to the most restrictive norms, standards, the best practices or national and international recommendations in the field. The risk level has been established as moderate and so, socially acceptable. The extension of the risk assessment and the intensity of the prevention and mitigation measures of the consequences should be proportionate to the risk involved. Selection of a specific mitigation technique is depends on the analyzed accident scenario.</p> <p>More detailed assessments are conducted for accident scenarios that, based on the qualitative assessment are found to be potentially major, of probability more than 10^{-6} (reduced recovery periods of 1/1,000,000) meaning that they could have major consequences therefore, elevated associated risk, a higher risk level than 9 to 12 (on a scale of 1-25). To put this in context, simply living in southern Florida rates a 25 on the risk scale.</p> <p>A global assessment of the risks associated with the Roşia Montană Project is obtained by the quick environmental and health risk assessment methodology initially developed by the Italian Ministry of the Environment and the World Health Organization. Natural hazard and risk identification and analysis presents key data and information in assessing potential technological accidents. Thus:</p> <ul style="list-style-type: none"> - In designing the Tailings Management Facility, the design parameters were chosen to fully cover the characteristic seismic risk of the area. These seismic design parameters adopted for the TMF and other facilities on the proposed site result in a safety factor much greater than the minimum accepted 	

under the Romanian and European design standards for such facilities;

- in the sector physically impacted by the Project, the risk of floods will remain very low due to the small catchments (controlled by the Roşia and Corna Streams) the area affected by the operation, and the creation of containment, diversion and drainage hydro-technical structures for storm waters on the site, and in the Abrud catchment in general;

- risks caused by meteorological events have been reviewed and used in assessing the hazards of the affected technological processes.

From the analysis of morphometrical parameters and their correlation with other sets of information on the natural slopes on and near the site shows that the (qualitatively estimated) landslide occurrence risk is low to moderate and its consequences will not cause major impacts on the structural components of the Project.

There is no significant risk associated with resource depletion. Mining activities are planned judiciously, so as to extract only the profitable gold and silver resources and only the necessary construction rock for the Project. The management of the mining concession site will minimize reserve "sterilization" (limitation of future access to the reserves).

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- in the interests of public health and public safety, or for other imperative reasons of overriding public interest, including those of a social or economic nature and beneficial consequences of primary importance for the environment;

[2] Art.4, 1st paragraph. The species mentioned in annex 1 shall be the subject of special conservation measures concerning their habitat in order to ensure their survival and reproduction in their area of distribution. [...]

Trends and variations in population levels shall be taken into account as a background for evaluations. Member states shall classify in particular the most suitable territories in number and size as special protection areas for the conservation of these species, taking into account their protection requirements in the geographical sea and land area where this directive applies.

[3] Directive 92/43 Habitats, art. 2, 2nd paragraph; Directive 79/409 Birds, art. 3, 2nd paragraph, letter c.

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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; and
- 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 Roșia 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 (1×10^{-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 (1×10^{-6} cm/sec) cut off wall within the foundation of the starter dam to control seepage;
- A low permeability (1×10^{-6} 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.

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Please consider that the provisions of annex no. 2 to the Government Decision no. 349/2005 on the storing of the wastes, for the verification of the location, regarding „*the positioning in report to the existing or planned populated areas, the protection distance to the warehouse body must be of at least 1,000 meters for the non-dangerous and dangerous wastes deposits*”, do not apply in case of the mining wastes.

The Ministry of Environment and Waters Management, by the Hazardous Chemical Substances and Wastes Management Direction, requested the project titleholder, by the Guidelines sent with a view to the performance of the evaluation of the environmental impact, according to the provisions of the Order of the Minister of Waters and Environmental Protection no. 860/2002 on the environmental impact assessment and environmental approval issuance Procedure, that this project “must be in compliance with the provisions of the new CE Directive on the management of the wastes from the extractive industry”.

To this end, we underline that the Directive no. 2006/21/EC referring to the management of the wastes from the extractive industry provides, at art. 2 (4), that the wastes falling under this directive are exempted from the provisions of the Directive 1999/31/EC on the wastes storing, implemented in the national legislation by GD no. 349/2995. Consequently, the provisions of the Directive 1999/31/EC do not apply to the Roșia Montană project and therefore, neither the provisions of GD no. 349/2005 are

applicable. The Directive on the extractive wastes contains provisions and conditions specific in regard of the storing of this type of wastes, and which are applied with priority in report to the regulations already in existence on wastes storing.

*

Detailed financial guarantees are in place, in the form of the Environmental Financial Guarantee (“EFG”), which require Roşia Montană Gold Corporation (“RMGC”) to maintain adequate funds for environmental cleanup. The EFG is updated annually and will always reflect the costs associated with reclamation. The current projected closure cost for Roşia Montană is US \$76 million, which is based on the mine operating for its full 16-year lifespan.

The EFG is governed by the Mining Law (no. 85/2003) and the National Agency for Mineral Resources instructions and Mining Law Enforcement Norms (no. 1208/2003).

Two directives issued by the European Union also impact the EFG: the Mine Waste Directive (“MWD”) and the Environmental Liability Directive (“ELD”).

The Mine Waste Directive aims to ensure that coverage is available for 1) all the obligations connected to the permit granted for the disposal of waste material resulting from mining activities and 2) all of the costs related to the rehabilitation of the land affected by a waste facility. The Environmental Liability Directive regulates the remedies, and measures to be taken by the environmental authorities, in the event of environmental damage created by mining operations, with the goal of ensuring adequate financial resources are available from the operators for environmental cleanup efforts. While these directives have yet to be transposed by the Romanian Government, the deadlines for implementing their enforcement mechanisms are 30 April 2007 (ELD) and 1 May 2008 (MWD) – thus before operations are scheduled to begin at Roşia Montană.

RMGC has already begun the process of complying with these directives, and once their implementation instruments are enacted by the Romanian Government, we will be in full compliance.

Each EFG will follow detailed guidelines generated by the World Bank and the International Council on Mining and Metals.

The annual updates will be completed by independent experts, carried out in consultation with the NAMR, as the Governmental authority competent in mining activities field. These updates will ensure that in the unlikely event of early closure of the project, at any point in time, each EFG will always reflect the costs associated with reclamation. (These annual updates will result in an estimate that exceeds our current US \$76 million costs of closure, because some reclamation activity is incorporated into the routine operations of the mine.)

A number of different financial instruments are available to ensure that RMGC is capable of covering all of the expected closure costs. These instruments, which will be held in protected accounts at the Romanian state disposal, include:

- Cash deposit ;
- Trust funds ;
- Letter of credit ;
- Surety bonds ;
- Insurance policy.

Under the terms of this guarantee, the Romanian government will have no financial liability in connection with the rehabilitation of the Roşia Montană project.

Item no.	4231 Same as: 4232, 4233, 4234, 4235, 4236, 4237, 4238, 4239, 4240, 4241, 4242, 4243, 4244, 4245, 4246, 4247, 4248, 4249, 4250, 4251, 4252, 4253, 4254, 4255
No. to identify the observations received from the public	No. 113897/25.08.2006 Same as: No. 113898/25.08.2006, No. 113899/25.08.2006, No. 113900/25.08.2006, No. 113901/25.08.2006, No. 113902/25.08.2006, No. 113903/25.08.2006, No. 113904/25.08.2006, No. 113905/25.08.2006, No. 113906/25.08.2006, No. 113907/25.08.2006, No. 113908/25.08.2006, No. 113909/25.08.2006, No. 113910/25.08.2006, No. 113911/25.08.2006, No. 113912/25.08.2006, No. 113913/25.08.2006, No. 113914/25.08.2006, No. 113915/25.08.2006, No. 114279/25.08.2006, No. 114280/25.08.2006, No. 114281/25.08.2006, No. 114282/25.08.2006, No. 114283/25.08.2006, No. 114284/25.08.2006
Proposal	<p>The questioner opposes the mining project at Roşia Montană and makes the following observations and comments:</p> <ul style="list-style-type: none"> -In EIA there are no presented all the possible risks derived from this project; poses a threat for protected flora and fauna; -There is no liner proposed for the tailings pond; -The proposed waste deposits will be not constructed in conformity with the Romanian legislation in force (at least 1000 m towards the inhabited areas); -Financial guarantees for the closure and post-closure periods were not fixed. <p>SEE THE CONTENT OF THE TYPE 5 CONTESTATION</p>
Solution	<p>It is the nature of risk that it can be mitigated and diminished; it cannot be made to disappear. In order to put this into context, the common action of walking on the street or developing everyday activities have an accident potential. This accident potential is twice higher than within the framework of industrial activities that use hazardous substances.</p> <p>A major chapter of the EIA report was dedicated to the identification of risks for the project. In addition, this chapter provides a discussion of the mitigation measures for each risk and how they were incorporated into the project designs. It is recognized that risk identification is difficult due to the number and diversity of events that can be envisioned. The EIA report cannot assume to cover all of he potential risks associated with the project. However, it has attempted to identify and address the most relevant risks. The extent of risk assessment and the intensity of the prevention and mitigation measures should be proportional to the risk involved and therefore only the risks that have been considered important have been assessed in detail. Each is described below.</p> <p>In the larger sense, the entire EIA report is focused on the assessment of impacts and their associated mitigation. Specifically, Chapter 4 of the EIA presents that impact assessment of the project. The following discussion presents a summary of the impact discussed in the EIA.</p> <p>As far as natural and technological risks assessments are concerned, Chapter 7, “Risk Cases”, from the Report on Environmental Impact Assessment, emphasizes the fact that safety and prevention measures, the implementation of the environmental management and risk systems are mitigating the consequences to acceptable levels as compared to the most restrictive norms, standards, the best practices or national and international recommendations in the field. The risk level has been established as moderate and so, socially acceptable. The extension of the risk assessment and the intensity of the prevention and mitigation measures of the consequences should be proportionate to the risk involved. Selection of a specific mitigation technique is depends on the analyzed accident scenario.</p> <p>More detailed assessments are conducted for accident scenarios that, based on the qualitative assessment are found to be potentially major, of probability more than 10^{-6} (reduced recovery periods of 1/1,000,000) meaning that they could have major consequences therefore, elevated associated risk, a higher risk level than 9 to 12 (on a scale of 1-25). To put this in context, simply living in southern Florida rates a 25 on the risk scale.</p> <p>A global assessment of the risks associated with the Roşia Montană Project is obtained by the quick environmental and health risk assessment methodology initially developed by the Italian Ministry of the Environment and the World Health Organization. Natural hazard and risk identification and analysis presents key data and information in assessing potential technological accidents. Thus:</p>

- In designing the Tailings Management Facility, the design parameters were chosen to fully cover the characteristic seismic risk of the area. These seismic design parameters adopted for the TMF and other facilities on the proposed site result in a safety factor much greater than the minimum accepted under the Romanian and European design standards for such facilities;

- in the sector physically impacted by the Project, the risk of floods will remain very low due to the small catchments (controlled by the Roşia and Corna Streams) the area affected by the operation, and the creation of containment, diversion and drainage hydro-technical structures for storm waters on the site, and in the Abrud catchment in general;

- risks caused by meteorological events have been reviewed and used in assessing the hazards of the affected technological processes.

From the analysis of morphometrical parameters and their correlation with other sets of information on the natural slopes on and near the site shows that the (qualitatively estimated) landslide occurrence risk is low to moderate and its consequences will not cause major impacts on the structural components of the Project.

There is no significant risk associated with resource depletion. Mining activities are planned judiciously, so as to extract only the profitable gold and silver resources and only the necessary construction rock for the Project. The management of the mining concession site will minimize reserve "sterilization" (limitation of future access to the reserves).

In assessing technological hazards and risks, the quantity of hazardous substances on the site was calculated as a total and by category, as provided by the *Notification Procedure* approved by Ministry of Agriculture, Forestry, Water and Environment (MAFWE) Order 1084/2003. Based on an evaluation of hazardous substances in stock on the Project site in relation to the relevant quantities provided by the Government Decision 95/2003 which transposes the Seveso Directive, the Project ranges between the upper and the lower limits, and therefore S.C. Roşia Montană Gold Corporation S.A. is required to prepare a Report on Environmental Impact Assessment Study to be sent to the local environmental authority and the local civilian protection authority a *Safety Report* on its operations to prevent major accident risks.

In assessing the consequences of major accidents involving dangerous substances, physical-mathematical models accepted internationally and especially at EU level, and the current version of the SLAB (Canada) software have been used, the latter for the atmospheric dispersion of denser than air gases, that may handle a multitude of situations and scenarios. Similarly, the EFFECTSGis 5.5 (Netherlands) software, developed for the analysis of the effects of industrial accidents and of consequences. Several scenarios were considered in response to the internal legislative requirements, especially related to the implementation of the Internal Emergency Plans (GD 647/2005). The conclusions of the risk assessment for major accidents were:

- The total destruction of plant facilities may only be caused by terrorist attack with classic or nuclear weapons. Simultaneous damage to the HCl tank (including containment) and to the NaCN solution tank, the tanks containing enriched solution, to one or more leaching tanks, having as a result HCN dispersion into the air. At the same time, under certain situations and weather conditions unfavorable for dispersion, people within 40 m of the emission source, surprised by the toxic cloud for more than 1 minute without respiratory protection equipment, will most certainly die. It may also be considered that, on a radius of about 310 m, persons exposed for more than 10 minutes may suffer serious intoxications that may also lead to death. Toxic effects may occur in persons up to about 2 km downwind of the process plant;

- Operating errors and/or failures in the measurement and control devices, resulting in a lower pH in the leaching tank, thickener and/or DETOX slurry and accidental emissions of hydrocyanic acid. The area affected by concentrations of 290 ppm over a 10 min exposure time is within a circle of 36 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 157.5 m radius. The center of these circles is the middle of the CIL tanks platform;

- Accidental HCN emission from the decanter. The accident may be caused by a drop of pH in the CIL tanks combined with an overdose of flocculent solution and faulty pH monitoring systems. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 65 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 104 m radius. The center of these circles is mid-distance between the two DETOX facilities;

- Accidental HCN emission from the DETOX facility. The accident may be caused by a drop of pH in the reactors generated by an overdose of metabisulfite solution and/or copper sulphate combined with

faulty pH monitoring systems. The area affected by high 1900 ppm concentrations for a 1 min exposure time is located within a 10 m radius circle. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 27 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 33 m radius. The center of these circles is mid-distance between the two DETOX facilities;

- Explosion of the LPG storage tank. The LPG storage tank has a 50 ton capacity and is located outdoors, near the heating plant. The simulation was conducted for the worst case scenario, considering an explosion of the full tank. Threshold I with heat 12.5 kW/m² is within a 10.5 m radius circle and Threshold II, of heat radiation 5 kW/m² is within a circle of 15 m radius;

- Damage and/or fire at the fuel tanks. Simulations were conducted for the worst case scenarios, considering ignition and combustion of all the diesel (fire in the tank, or in the containment vat, when full of diesel);

- Corna Dam break and breach development. Two credible accident scenarios were considered in simulating tailings flow out of the Tailings Management Facility, and six credible scenarios for the flow of decant water and tailings pore water, with significant effects on the terrestrial and aquatic ecosystems, in different weather conditions;

- Tailings flow may occur along Corna Valley, on a 800 m (starter dam break) or over 1600 m reach should the Corna dam break in its final stage;

- In regard to water quality impacts, cyanide concentrations in the water in the shape of a pollution plume may reach Arad, near the Romanian-Hungarian border on the Mureş River, in concentrations ranging between 0.03 and 0.5 mg/L. Due to inherent mathematical limitations in the models, these values and the accident effects are considered overestimated. Therefore, the results describe the “worst case scenario” based on extreme dam break assumptions for the Corna Dam.

A new and much more precise and realistic simulation has been subsequently established based on the INCA Mine model, that considers the dispersion, volatilization and breakdown of cyanides during the downstream movement of the pollutant flow (Whiteland et al., 2006).

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 (www.eurolimpacs.ucl.ac.uk). The model has been used to assess the impacts from future mining, and collection and treatment operations for pollution from past mining at Roşia 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 physical-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, an information sheet presenting the INCA modeling work is presented under the title of the Mureş River Modeling Program and the full modeling report is presented in Annex 5.1:

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protective of groundwater. Specifically, the Roșia 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.

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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:

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The Mine Waste Directive aims to ensure that coverage is available for 1) all the obligations connected to the permit granted for the disposal of waste material resulting from mining activities and 2) all of the costs related to the rehabilitation of the land affected by a waste facility. The Environmental Liability Directive regulates the remedies, and measures to be taken by the environmental authorities, in the event of environmental damage created by mining operations, with the goal of ensuring adequate financial resources are available from the operators for environmental cleanup efforts. While these directives have yet to be transposed by the Romanian Government, the deadlines for implementing their enforcement mechanisms are 30 April 2007 (ELD) and 1 May 2008 (MWD) – thus before operations are scheduled to begin at Roşia Montană.

RMGC has already begun the process of complying with these directives, and once their implementation instruments are enacted by the Romanian Government, we will be in full compliance.

Each EFG will follow detailed guidelines generated by the World Bank and the International Council on Mining and Metals.

The annual updates will be completed by independent experts, carried out in consultation with the NAMR, as the Governmental authority competent in mining activities field. These updates will ensure that in the unlikely event of early closure of the project, at any point in time, each EFG will always reflect the costs associated with reclamation. (These annual updates will result in an estimate that exceeds our current US \$76 million costs of closure, because some reclamation activity is incorporated into the routine operations of the mine.)

A number of different financial instruments are available to ensure that RMGC is capable of covering all of the expected closure costs. These instruments, which will be held in protected accounts at the Romanian state disposal, include:

- Cash deposit ;
- Trust funds ;
- Letter of credit ;
- Surety bonds ;
- Insurance policy.

Under the terms of this guarantee, the Romanian government will have no financial liability in connection with the rehabilitation of the Roşia Montană project.

Item no.	4256 Same as: 4257, 4258, 4259, 4260, 4261, 4262, 4263, 4264, 4265, 4266, 4267, 4268, 4269, 4270, 4271, 4272, 4273, 4274, 4275, 4276, 4277, 4278, 4279, 4280, 4281, 4282, 4283, 4284, 4285
No. to identify the observations received from the public	No. 113454/25.08.2006 Same as: No. 113455/25.08.2006, No. 113456/25.08.2006, No. 113457/25.08.2006, No. 113460/25.08.2006, No. 113461/25.08.2006, No. 113462/25.08.2006, No. 113463/25.08.2006, No. 113464/25.08.2006, No. 113465/25.08.2006, No. 113466/25.08.2006, No. 113467/25.08.2006, No. 113468/25.08.2006, No. 113469/25.08.2006, No. 113470/25.08.2006, No. 113471/25.08.2006, No. 113472/25.08.2006, No. 113473/25.08.2006, No. 113474/25.08.2006, No. 113475/25.08.2006, No. 113476/25.08.2006, No. 113477/25.08.2006, No. 113478/25.08.2006, No. 113479/25.08.2006, No. 113480/25.08.2006, No. 113481/25.08.2006, No. 113482/25.08.2006, No. 113483/25.08.2006, No. 113484/25.08.2006, No. 113485/25.08.2006
Proposal	<p>The questioner opposes the mining project at Roşia Montană and makes the following observations and comments:</p> <ul style="list-style-type: none"> -In EIA there are no presented all the possible risks derived from this project; poses a threat for protected flora and fauna; -There is no liner proposed for the tailings pond; -The proposed waste deposits will be not constructed in conformity with the Romanian legislation in force (at least 1000 m towards the inhabited areas); -Financial guarantees for the closure and post-closure periods were not fixed. <p>SEE THE CONTENT OF THE TYPE 5 CONTESTATION</p>
Solution	<p>It is the nature of risk that it can be mitigated and diminished; it cannot be made to disappear. In order to put this into context, the common action of walking on the street or developing everyday activities have an accident potential. This accident potential is twice higher than within the framework of industrial activities that use hazardous substances.</p> <p>A major chapter of the EIA report was dedicated to the identification of risks for the project. In addition, this chapter provides a discussion of the mitigation measures for each risk and how they were incorporated into the project designs. It is recognized that risk identification is difficult due to the number and diversity of events that can be envisioned. The EIA report cannot assume to cover all of the potential risks associated with the project. However, it has attempted to identify and address the most relevant risks. The extent of risk assessment and the intensity of the prevention and mitigation measures should be proportional to the risk involved and therefore only the risks that have been considered important have been assessed in detail. Each is described below.</p> <p>In the larger sense, the entire EIA report is focused on the assessment of impacts and their associated mitigation. Specifically, Chapter 4 of the EIA presents that impact assessment of the project. The following discussion presents a summary of the impact discussed in the EIA.</p> <p>As far as natural and technological risks assessments are concerned, Chapter 7, "Risk Cases", from the Report on Environmental Impact Assessment, emphasizes the fact that safety and prevention measures, the implementation of the environmental management and risk systems are mitigating the consequences to acceptable levels as compared to the most restrictive norms, standards, the best practices or national and international recommendations in the field. The risk level has been established as moderate and so, socially acceptable. The extension of the risk assessment and the intensity of the prevention and mitigation measures of the consequences should be proportionate to the risk involved. Selection of a specific mitigation technique is depends on the analyzed accident scenario.</p> <p>More detailed assessments are conducted for accident scenarios that, based on the qualitative assessment are found to be potentially major, of probability more than 10^{-6} (reduced recovery periods of 1/1,000,000) meaning that they could have major consequences therefore, elevated associated risk, a higher risk level than 9 to 12 (on a scale of 1-25). To put this in context, simply living in southern Florida rates a 25 on the risk scale.</p> <p>A global assessment of the risks associated with the Roşia Montană Project is obtained by the quick environmental and health risk assessment methodology initially developed by the Italian Ministry of the</p>

Environment and the World Health Organization. Natural hazard and risk identification and analysis presents key data and information in assessing potential technological accidents. Thus:

- In designing the Tailings Management Facility, the design parameters were chosen to fully cover the characteristic seismic risk of the area. These seismic design parameters adopted for the TMF and other facilities on the proposed site result in a safety factor much greater than the minimum accepted under the Romanian and European design standards for such facilities;

- in the sector physically impacted by the Project, the risk of floods will remain very low due to the small catchments (controlled by the Roşia and Corna Streams) the area affected by the operation, and the creation of containment, diversion and drainage hydro-technical structures for storm waters on the site, and in the Abrud catchment in general;

- risks caused by meteorological events have been reviewed and used in assessing the hazards of the affected technological processes.

From the analysis of morphometrical parameters and their correlation with other sets of information on the natural slopes on and near the site shows that the (qualitatively estimated) landslide occurrence risk is low to moderate and its consequences will not cause major impacts on the structural components of the Project.

There is no significant risk associated with resource depletion. Mining activities are planned judiciously, so as to extract only the profitable gold and silver resources and only the necessary construction rock for the Project. The management of the mining concession site will minimize reserve "sterilization" (limitation of future access to the reserves).

In assessing technological hazards and risks, the quantity of hazardous substances on the site was calculated as a total and by category, as provided by the *Notification Procedure* approved by Ministry of Agriculture, Forestry, Water and Environment (MAFWE) Order 1084/2003. Based on an evaluation of hazardous substances in stock on the Project site in relation to the relevant quantities provided by the Government Decision 95/2003 which transposes the Seveso Directive, the Project ranges between the upper and the lower limits, and therefore S.C. Roşia Montană Gold Corporation S.A. is required to prepare a Report on Environmental Impact Assessment Study to be sent to the local environmental authority and the local civilian protection authority a *Safety Report* on its operations to prevent major accident risks.

In assessing the consequences of major accidents involving dangerous substances, physical-mathematical models accepted internationally and especially at EU level, and the current version of the SLAB (Canada) software have been used, the latter for the atmospheric dispersion of denser than air gases, that may handle a multitude of situations and scenarios. Similarly, the EFFECTSGis 5.5 (Netherlands) software, developed for the analysis of the effects of industrial accidents and of consequences. Several scenarios were considered in response to the internal legislative requirements, especially related to the implementation of the Internal Emergency Plans (GD 647/2005). The conclusions of the risk assessment for major accidents were:

- The total destruction of plant facilities may only be caused by terrorist attack with classic or nuclear weapons. Simultaneous damage to the HCl tank (including containment) and to the NaCN solution tank, the tanks containing enriched solution, to one or more leaching tanks, having as a result HCN dispersion into the air. At the same time, under certain situations and weather conditions unfavorable for dispersion, people within 40 m of the emission source, surprised by the toxic cloud for more than 1 minute without respiratory protection equipment, will most certainly die. It may also be considered that, on a radius of about 310 m, persons exposed for more than 10 minutes may suffer serious intoxications that may also lead to death. Toxic effects may occur in persons up to about 2 km downwind of the process plant;

- Operating errors and/or failures in the measurement and control devices, resulting in a lower pH in the leaching tank, thickener and/or DETOX slurry and accidental emissions of hydrocyanic acid. The area affected by concentrations of 290 ppm over a 10 min exposure time is within a circle of 36 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 157.5 m radius. The center of these circles is the middle of the CIL tanks platform;

- Accidental HCN emission from the decanter. The accident may be caused by a drop of pH in the CIL tanks combined with an overdose of flocculent solution and faulty pH monitoring systems. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 65 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 104 m radius. The center of these circles is mid-distance between the two DETOX facilities;

- Accidental HCN emission from the DETOX facility. The accident may be caused by a drop of pH in the reactors generated by an overdose of metabisulfite solution and/or copper sulphate combined with faulty pH monitoring systems. The area affected by high 1900 ppm concentrations for a 1 min exposure time is located within a 10 m radius circle. The area affected by concentrations of 300 ppm over a 10 min exposure time is within a circle of 27 m radius and the 50 ppm IDLH threshold for 30 min exposure will be reached over an area of 33 m radius. The center of these circles is mid-distance between the two DETOX facilities;

- Explosion of the LPG storage tank. The LPG storage tank has a 50 ton capacity and is located outdoors, near the heating plant. The simulation was conducted for the worst case scenario, considering an explosion of the full tank. Threshold I with heat 12.5 kW/m² is within a 10.5 m radius circle and Threshold II, of heat radiation 5 kW/m² is within a circle of 15 m radius;

- Damage and/or fire at the fuel tanks. Simulations were conducted for the worst case scenarios, considering ignition and combustion of all the diesel (fire in the tank, or in the containment vat, when full of diesel);

- Corna Dam break and breach development. Two credible accident scenarios were considered in simulating tailings flow out of the Tailings Management Facility, and six credible scenarios for the flow of decant water and tailings pore water, with significant effects on the terrestrial and aquatic ecosystems, in different weather conditions;

- Tailings flow may occur along Corna Valley, on a 800 m (starter dam break) or over 1600 m reach should the Corna dam break in its final stage;

- In regard to water quality impacts, cyanide concentrations in the water in the shape of a pollution plume may reach Arad, near the Romanian-Hungarian border on the Mureş River, in concentrations ranging between 0.03 and 0.5 mg/L. Due to inherent mathematical limitations in the models, these values and the accident effects are considered overestimated. Therefore, the results describe the “worst case scenario” based on extreme dam break assumptions for the Corna Dam.

A new and much more precise and realistic simulation has been subsequently established based on the INCA Mine model, that considers the dispersion, volatilization and breakdown of cyanides during the downstream movement of the pollutant flow (Whiteland et al., 2006).

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 (www.eurolimpacs.ucl.ac.uk). The model has been used to assess the impacts from future mining, and collection and treatment operations for pollution from past mining at Roşia 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 physical-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, an information sheet presenting the INCA modeling work is presented under the title of the Mureş River Modeling Program and the full modeling report is presented in Annex 5.1:

- Development of HCN on the tailings pond surface. Simulated emissions of HCN from the Tailings Management Facility pond surface and of their dispersion into the ambient air show that the level

of 400µ g/m³ hourly average and 179µ g/m³ 8hr average will not be exceeded. These HCN concentrations are only slightly over the odor threshold (0.17ppm) and much below potentially dangerous concentrations;

- Cetate Dam break and breach development. Flood modeling was in case of a break in Cetate dam was based on the design parameters obtained from the hydrometeorological study "Assessment of rainfall intensity, frequency and runoff for the Roşia Montană Project - Radu Drobot". The breach characteristics were predicted using the BREACH model, and the maximum height of the flood wave in various flow sections was modeled using the FLDWAV software. The assumptions included a total 800000 m³ discharge for one hour, when the peak of the flood hydrograph is about 4.9 m above base flow immediately below the dam and in the narrow Abrud valley 5.9-7,5 km downstream of the dam, while in the last section considered (10,5 km) water depth is about 2.3 m above base flow and the maximum flow rate 877 m³/s. Further, the broader Aries valley allows the flood wave to propagate on a significantly wider bed, which results in a highly attenuated hydrograph. These results describe the "worst case scenario" based on extreme dam break assumptions:

- Accidents during cyanide transportation. Due to the large quantities of cyanide transported (about 30t /day) the risks associated to this activity were assessed in detail using the ZHA- Zurich Hazard Analysis method. As a consequence, the optimum transport route was selected from the manufacturer to the Process Plant, e.g.;

- Cyanide transport (in solid state) will exclusively involve special SLS (Solid to Liquid System) containers, 16 tons each. The ISO compliant container will be protected by a framework with legs, which allows separation from the transport trailer for temporary storage. The wall is 5.17 mm thick, which, together with the protective framework, provides additional protection to the load in case of accident. This system is considered BAT and is currently one of the safest cyanide transportation options.

It is being mentioned the fact that the study develops the occurrence possibility of these scenarios (pages 166-171, Conclusions).

As regards the cyanides management, there is a baseline study named "Roşia Montană Golden Project, Cyanides Management Plan" prepared in compliance with the "International Management Code for the Manufacture, Transport and Use of Cyanide in the Production of Gold (International Cyanide management Institute) May 2002". S.C. Roşia Montană Gold Corporation is signatory to this code.

Bibliographical references for Chapter 7 "Risk Cases" are listed at page173-176.

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The impact on protected flora and fauna will exist only locally, but this impact will not lead to the loss of any specie. The Project has been designed even from the beginning to fully comply with the requirements and norms imposed by Romanian and European environmental legislation.

The company believes the fact that the project impact on environment remains significant, especially because covers previous impacts. But, the investments required to ecologically restore/rehabilitate Roşia Montană area in order to address current complex environmental issues, are only achievable following the implementation of some economic projects that will generate and warrant implementation of some direct and responsible actions as a component of base principles of sustainable development concepts. Clean processes and technologies may be developed only in the presence of a solid economic environment fully compliant with the environment that will also resolve previous impacts of anthropic activities.

The base documents of the Project are in fact an unbiased reason of its implementation, considering the highly complex environmental commitment within Roşia Montană area.

Some of the Roşia Montană species that are under a certain protection status stand for an insignificant percentage of the scale of populations estimated at national level. The characterization of species from their habitat point of view exists in the species tables presented in the Biodiversity Chapter of the EIA Report and its annexes, although this is not a requirement imposed by the Habitats Directive. Due to their large volume of information, the annexes of chapter 4.6 Biodiversity can be found in the electronic version of the EIA disclosed by the company both in Romanian and English through approx. 6,000 DVD/CD copies, being accessible on the company website, and on the websites of Ministry of Environment and Water Management, local and regional environmental protection agencies of Alba, Sibiu, Cluj, etc.

From practical point of view, the low value of conservation of the impact area is also indirectly emphasized by the fact that there is no proposal to designate the area a SPA (aviafaunistic special protected area) and by the denial as unfounded of the proposal to designate the area as a pSCI area (sites of community importance).

Taking all these into account, we believe that the proposed Project is compliant with the provisions of EU Directive no. 92/43 Habitats[1], and EU Directive no. 79/409 Birds[2] respectively, especially because within Biodiversity Management Plan, Plan H, several active and responsible measures are provided to reconstruct/rehabilitate several natural habitats, pursuant to the provisions of the same documents [3].

References:

[1] art.3, 2nd paragraph, Each Member State shall contribute to the creation of Natura 2000 (network) in proportion to the representation within its territory of the natural habitat types and the habitats of species referred to in paragraph 1. To that effect each Member State shall designate, in accordance with Article 4, sites as special areas of conservation taking account of the objectives set out in paragraph 1.

art.4, 1st paragraph. On the basis of the criteria set out in Annex III (Stage 1) and relevant scientific information, each Member State shall propose a list of sites indicating which natural habitat types in Annex I and which species in Annex II that are native to its territory the sites host. For animal species ranging over wide areas these sites shall correspond to the places within the natural range of such species which present the physical or biological factors essential to their life and reproduction. For aquatic species which range over wide areas, such sites will be proposed only where there is a clearly identifiable area representing the physical and biological factors essential to their life and reproduction. Where appropriate, Member States shall propose adaptation of the list in the light of the results of the surveillance referred to in Article 11. [...]

2nd paragraph.[...] Member States whose sites hosting one or more priority natural habitat types and priority species represent more than 5 % of their national territory may, in agreement with the Commission, request that the criteria listed in Annex III (Stage 2) be applied more flexibly in selecting all the sites of Community importance in their territory.[...]

Art. 6, 4th paragraph. If, in spite of a negative assessment of the implications for the site and in the absence of alternative solutions, a plan or project must nevertheless be carried out for imperative reasons of overriding public interest, including those of a social or economic nature, the Member State shall take all compensatory measures necessary to ensure that the overall coherence of Natura 2000 is protected. It shall inform the Commission of the compensatory measures adopted.

Art. 16. Provided that there is no satisfactory alternative and the derogation is not detrimental to the maintenance of the populations of the species concerned at a favourable conservation status in their natural range, Member States may derogate from the provisions of Articles 12, 13, 14 and 15 (a) and (b):[...]

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The Mine Waste Directive aims to ensure that coverage is available for 1) all the obligations connected to the permit granted for the disposal of waste material resulting from mining activities and 2) all of the costs related to the rehabilitation of the land affected by a waste facility. The Environmental Liability Directive regulates the remedies, and measures to be taken by the environmental authorities, in the event of environmental damage created by mining operations, with the goal of ensuring adequate financial resources are available from the operators for environmental cleanup efforts. While these directives have yet to be transposed by the Romanian Government, the deadlines for implementing their enforcement mechanisms are 30 April 2007 (ELD) and 1 May 2008 (MWD) – thus before operations are scheduled to begin at Roşia Montană.

RMGC has already begun the process of complying with these directives, and once their implementation instruments are enacted by the Romanian Government, we will be in full compliance.

Each EFG will follow detailed guidelines generated by the World Bank and the International Council on Mining and Metals.

The annual updates will be completed by independent experts, carried out in consultation with the NAMR, as the Governmental authority competent in mining activities field. These updates will ensure that in the unlikely event of early closure of the project, at any point in time, each EFG will always reflect the costs associated with reclamation. (These annual updates will result in an estimate that exceeds our current US \$76 million costs of closure, because some reclamation activity is incorporated into the routine operations of the mine.)

A number of different financial instruments are available to ensure that RMGC is capable of covering all of the expected closure costs. These instruments, which will be held in protected accounts at the Romanian state disposal, include:

- Cash deposit ;
- Trust funds ;
- Letter of credit ;
- Surety bonds ;
- Insurance policy.

Under the terms of this guarantee, the Romanian government will have no financial liability in connection with the rehabilitation of the Roşia Montană project.
