

## 2<sup>nd</sup> Public Meeting

## The Granada Project

May 21 2014

WWW.GOLDBULLIONDEVELOPMENTCORP.COM

TSX-V: GBB

OTC PK: GBBFF

FRANKFURT: **B6D** 

## PRESENTATION PLAN

- Progress of the Granada project
- Community relations
- Economic benefits of the project
- Current and future work
- Possible impacts related to the water
- Questions and comments

## OUR PROMISE

Gold Bullion **voluntarily** engages in approaching the community to **hear concerns**, and **adapts**, where possible, its practices in order to **minimize the social and environmental impacts** of its activities.

## **OBJECTIVES OF THE MEETING**

- Find out about the company
- Learning about the Granada project
- Know your concerns and interests
- Determine your interest to follow and participate in the information process
- Answer your **questions**

## COMMUNITY RELATIONS

#### **Community Consultations**

- Meetings with elected officials
  - Technical meeting with municipal officials
  - Meetings with MPs and MLAs
- A Recreational users: meeting with the snowmobile club
- Local: Public meeting (possible impacts, traffic, water, noise)
- General: Update website under 'Community'
- Discussions with CSRN busing schedules and Recreation Department (day camp)

## COMMUNITY RELATIONS

#### **Understanding of the Community**

- Phase 1 : sampling wells sector
- Moise study and implementation of mitigation measures
- Compile data and answer questions from the community

## INFORMATION PROCEDURES WITH ABORIGINAL COMMUNITIES

#### **Consultations with the First Nations**

#### 🕁 Approach :

We believe in transparent bidirectional relationships with all groups that share the territory, including First Nations.

#### Information process underway with:

First Nations communities.

## UPDATE ON PERMITS AND STUDIES

#### Completed:

- 🔹 Baseline study
- Environmental testing on the rocks and minerals and sterile releases on treatment.
- Sampling program in the vicinity of water (phase 1)
- Agreement for milling with Iamgold
- 👍 Hydrogeological study

#### Ongoing:

- Prefeasibility study (public report by June 30)
- 🔺 Noise analysis initiated
- Path for the transport of ore identified
- Preparation of the application
  for a certificate of
  authorization

## RESERVES

The proposed project for the Granada **Gold Bullion** property consists of 4 small pits totaling 589, 000 tonnes of ore at an average grade of 4.24 g / t. Underground production will then be started.

## ECONOMIC DATA

- Recovery of capital within one year
- Potential duration Ph1+Ph2 > 10 years
  - > Life of the open pit mine 3 years. PFS
  - With underground resources measured, and indicated mineral resources, 7 or 8 additional years of mine life could be added.
  - \*CA \$ 1400/oz\*

## JOB CREATION

#### Directly employed at the mine

Total	13
Driver	1
Warehouse employee	1
Warehouse responsible	1
Environmental technician	1
Accountant clerk	1
Administrative assistant	1
Mine manager	1
Technician	1
Assistant geologist	1
Chief geologist	1
Mapping technician	1
Surveyor	1
Chief engineer	1

Mining Contractor	Labour	40-50
Transport Contractor		10-12
		0
	Total	50-62

# Total creation63-75of employment63-75

## ECONOMIC POTENTIAL OF PROJECT

- Initial investment of 6.7 millions
  - Total investment of more than 200 million
- Creation of 30 direct jobs (pit)
  - > 150 jobs in the underground
- Creation of secondary transportation jobs
- Economic impact of goods and services
- Consolidation of the activities of Iamgold
- Payroll: 75 jobs x average salary 80 000 = 5.6 million (rolling start)





#### <u>Gold Bullion – Granada</u>

+/- 6,000 tonnes mined per day



#### Large-Scale Exploitation

+/- 170,000 tonnes mined per day



## THE MINERAL PROCESSING

Gold Bullion has signed an agreement with the mining company Iamgold to treat ore from the Granada pit;

#### 🔺 Advantages:

- No tailings pond
- Consolidation of a local company
- Exchange of expertise of the rehabilitation of land

#### Disadvantages :

- > Trucks on the road
- Transfer of jobs to another area of the region







## MAIN TOPICS OF INTEREST

#### TOPICS OF INTEREST ANTICIPTED BY THE PROMOTER

# Ground and surface water Noise and vibration Traffic Division of territory

## GRANADA MINING PROJECT GROUNDWATER STUDY



## GRANADA MINING PROJECT GROUNDWATER STUDY

Presentation of the results obtained By Léonard Agassounon, Hydrogeologist



## **OBJECTIVES OF THE STUDY**

- Collect data on groundwater in the sector of the future mine
- Identify areas that may be affected by the activities of the future mine
- Documenting water supply of wells of residents
- Estimate the potential impacts of lowering the water by the mine
- Propose mitigation measures



## STUDY METHODOLOGY

- Collection of information
- Fieldwork
- Inventory of water users around Gold Bullion site
- Creating a hydrogeological model
- Numerical simulations
- Impact assessment





## **COLLECTION OF INFORMATION**

- Databases of exploration drilling (topographic, geological...)
- Maps (topographic, geological ...)
- Database of pit SIH MDDELCC
- Previous studies







## FIELDWORK

- Inventory of water wells SIH
- Measures of water levels on the site
- Establishment of Lidar topography
- Hydraulic tests to determine the hydrogeological properties
- Measuring the quality of water in the drilling site and shore wells (background noise)
  - 4 exploration drilling
  - 27 private wells





## MAKING OF HYDROGEOLOGICAL SIMULATIONS

Physical limitations of the model



- Fosse\_projetée
- ----- Route site minier
- Limite de charge imposée (condition aux limites 1er type
- 😑 😑 🖉 Limite de flux (condition aux limites du 2e type)
  - Limite de rivière (condition aux limites du 3e type)

#### Éléments physiques

Étendue d'eau Cours d'eau



## MAKING OF HYDROGEOLOGICAL SIMULATIONS

0 0

Simulated curves of current water level (without drainage)

-1-5



12 200



## CREATION OF SIMULATIONS: POSSIBLE IMPACTS

## Simulated maximum impact

(the worst case), that is to say, lowering of the water table from the first year, together with the pit.

In reality, the impacts will be carried out gradually (in phases) which will cause a rebalancing of the table.





## **RESULTS OF QUALITY OF GROUNDWATER**

- The water quality of the rock sampled in four exploration drilling site shows that the water meets the requirements at the discharge point of the final effluent of the Directive 019
- Some wells showed overrun of arsenic and / or lead. Each owner recieved the results with explanations.





## POSSIBLE IMPACTS AND MITIGATION MEASURES

- Water Quantity: The lowering of the water table on the mine site can generate a level reduction in private wells.
  - Lowering of the water provided from 0 to 5m on the roads Granada and Lavigne.
  - Monitoring water level, triggering action, if lowering of the level of which half is provided.
- Water Quality: During the mining activity (pumping), groundwater will flow into the pits (pumps).
  - Low risk of contamination
  - Monitoring of water quality







## GOLD BULLION IS LISTENING TO CONCERNS





## WE ARE LISTENING

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## QUESTIONS ?









## POSSIBLE IMPACT ZONE



### WORK CALENDAR

Task Name	Duration	Start	Finish	Apr '14	May '14	4	Jun '14	Jul '14	Aug '14	Sep '14	Oct '14	Nov '14	Dec '14
				30 06 13 20	27 04 11	18 25	01 08 15 22	29 06 13 20 2	27 03 10 17 24	31 07 14 21	28 05 12 19 2	6 02 09 16 23	30 07 14
<u>PROPOSED SCHEDULE - CUSTOM MILLING</u>	201 days	02/02/14	10/11/14										
Pre-Feasibility Study (PFS)	56 days	14/04/14	30/06/14					<b>-</b>					
PFS completion	13 days	14/04/14	30/04/14		<b>-</b> h								
Noise study	24 days	14/04/14	15/05/14			η	h						
PFS Report preparation	22 days	14/04/14	13/05/14										
Survey of accumulation areas and add. mining lease	41 days	05/05/14	30/06/14					<b>&gt;</b> h					
Roche (@ MDDEFP)	145 days	02/02/14	22/08/14										
Hydrogeology Phase 1 - Completed	50 days	02/02/14	11/04/14										
Environmental base line study	49 days	02/02/14	11/04/14										
Hydrogeology Phase 2 - Water sampling	12 days	14/04/14	29/04/14										
Hydrogeology Phase 3 - Wells inventory	44 days	02/06/14	31/07/14										
C.A Mining exploitation - Preparation	35 days	14/04/14	31/05/14										
C.A Mining exploitation - Approbation	60 days	02/06/14	22/08/14				<b>*</b>		<u> </u>				
C.A Sanitary water - Preparation	10 days	01/05/14	15/05/14										
C.A Sanitary water - Approbation	20 days	15/05/14	11/06/14										
C.A Potable water - Preparation + pumping test	25 days	01/05/14	04/06/14										
C.A Potable water - Approbation	20 days	05/06/14	02/07/14				<b>*</b>						
Roche (@ MRN)	201 days	03/02/14	10/11/14										
Rehabilitation and Mine closure plan	22 days	02/06/14	01/07/14					<b>_</b>					
Approval of stockpiles and concentration areas permit	22 days	01/07/14	30/07/14										
Approval of new mining lease	94 days	02/07/14	10/11/14					<b>—</b>					
Public lands lease obtention	76 days	16/05/14	29/08/14			<b>*</b>			:	H			
Public information sessions with the community	196 days	03/02/14	03/11/14	:					:	:		-	
START OF MINING ACTIVITIES	100 days	01/09/14	16/01/15								1	1	1

## EXISTING OPENINGS



