Non-Operated Joint Ventures and Renova Foundation update

Bryan Quinn  Asset President Joint Ventures
Dan McLaughlin  Senior Manager HSE
Melinda Buckland  Senior Manager Community

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Minerals Non-Operated Joint Ventures (NOJVs)

Created
1 November 2016

Strategy
Actively steward BHP’s reputation and social licence to operate as a shareholder in Minerals Non-operated Joint Venture operations

Objective
Enhance the governance and overall performance of the NOJVs
NOJV progress on actions

**Accountability and people**
- Redefined BHP’s role in NOJV governance and the competencies needed to be successful
- Established a single point of accountability and a team of functional experts
- Implementing NOJV excellence (training, prioritization, planning, process improvement)
- Agreed on Key Focus Areas for each entity to sharpen focus

**Risk and assurance**
- Completed a review of all material risks to BHP and monitoring maturation of NOJV Asset risk management
- Developing a new fit for purpose ‘Three-lines-of-defence’ Assurance Model

**Governance**
- Developed and implementing a BHP NOJV Standard to be consistently applied across the NOJVs
- Facilitated and hosted a Minerals, Oil/Gas and Chemical Industry Round Table to share NOJV governance experiences and learnings
- Actively working with other shareholders to modernise governance frameworks based on risk
Negotiation with prosecutors continues

Preliminary Agreement

- On **18 January 2017** the Federal Prosecutors Office entered into a Preliminary Agreement with Samarco, Vale and BHP Billiton Brasil outlining process and timeline to settle the BRL 20 billion\(^1\), BRL 155 billion\(^2\) and other related collective claims (Public Civil Claims).
- The Preliminary Agreement includes provision for technical advisors to the Prosecutors to perform impact studies and review the adequacy of the existing programs. In addition, the Agreement includes additional community consultation and technical support to communities in all impacted regions.
- On **20 December 2017** an Amendment to the Preliminary Agreement was signed. The Amendment Agreement provides for the State Prosecutors to become a party to the Preliminary Agreement. It also provides for additional community participation.
- The Amendment Agreement includes a process for seeking to agree new socioeconomic experts to advise the Federal Prosecutors, and contains some further requirements as to how those experts would conduct their work.

Prosecutors’ experts

- Four entities have been selected to provide expert services to Prosecutors as per the Preliminary Agreement: Ramboll, review Renova’s Programs; Lactec, environmental damage assessment: Getulio Vargas Foundation, socio-economic impact assessment; and Fundo Brasil, coordinate participation and technical support to communities. The first two organisations started providing their services to Prosecutors in 2017 and the latter two have not yet commenced.

Negotiations

- Prosecutors and companies continue negotiations for the settlement of the Public Civil Claims before 20 April 2018.

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(1) US$ 6.2 billion based on the February 2018 closing exchange rate R$/US$ 3.24
(2) US$ 47.8 billion based on the February 2018 closing exchange rate R$/US$ 3.24

BHP NOJV and Renova Foundation update

March 2018
Renova Foundation is building momentum but still faces challenges

Staffing has grown to 500 (with over 2000 contractors) to meet the demands of the 42 remediation and compensation programs

- Roberto Waack continues as CEO
- Executive Team expanded to include a third director with responsibility for planning and management
- Critical systems and processes are maturing including safety, risk and compliance
- 7 Board Committees established to improve effectiveness
- IUCN Panel established in October 2017 and finalising 2018 priorities
- Extensive external governance and participation remains a challenge and is resulting in some delays
- Federal and State elections this year could add further complexity
- 2018 Program Budget – BRL 2.12 billion (1) (69% socioeconomic; 31% environmental)

(1) US$ 643 million based on the future exchange rate projection

BHP NOJV and Renova Foundation update
March 2018

Roberto Waack
Renova programs cover 39 municipalities
BHP continues to support Renova

BHP provides professional and technical expertise through its team in Belo Horizonte

• 3 Board nominees
  – Wilson Brumer (former BHP Billiton Brasil President)
  – Flavio Bulcao (current BHP Brasil executive)
  – Ian Wood (former BHP executive)
• Representatives on all Board Committees
• 4 full-time BHP employees seconded to Renova – 2 in resettlement, 1 on tailings management and 1 on aquatic biodiversity and water quality
• Cross-functional teams working alongside Renova on priority programs
• Direct and frequent engagement in key functional areas such as compliance, risk and safety
• In early March, Daniel Malchuk, Minerals Americas President, spent two days in Belo Horizonte and Mariana with the BHP and Renova teams

Fernanda Lavarello, BHP secondee in the Renova resettlement team
Program expenditure to date is US$1.04 billion\(^{(1)}\)

The majority of program expenditure to date has been for environmental remediation.

**Program expenditure to date (US$ million)**

<table>
<thead>
<tr>
<th>Year</th>
<th>Socioeconomic Programs</th>
<th>Socioenvironmental Programs</th>
<th>Reparatory Programs</th>
<th>Compensatory Programs</th>
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<td>655</td>
<td>936</td>
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Note: 1. To February 2018, illustrating cash disbursements under the 42 programs.
## Program expenditure to date (US$ million)

<table>
<thead>
<tr>
<th>Category</th>
<th>Expenditure</th>
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<td>Mediated Compensation</td>
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<tr>
<td>Financial Aid</td>
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<td>Candonga</td>
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<td>Environmental Recovery</td>
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<tr>
<td>Infrastructure</td>
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<td>Emergency measures</td>
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<td>Management expenses</td>
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<td>Water Monitoring</td>
<td>43</td>
</tr>
<tr>
<td>Others</td>
<td>154</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1,040</strong></td>
</tr>
</tbody>
</table>

**People and communities**
- Identification and indemnification
- Education and culture
- Health and wellness
- Traditional and indigenous communities
- Stimulus to the economy
- Engagement and dialogue

**Reconstruction and infrastructure**
- Resettlement
- Containment of tailings
- Treatment of water and tributaries
- Urban infrastructure and access

**Land and water**
- Use of soil
- Water management
- Tailings management
- Biodiversity
- Animal Assistance
- Innovation

Note: 1. To February 2018, illustrating cash disbursements under the 42 programs
Community resettlements

**Resettlements are progressing although there have been delays**

- The three communities of Bento Rodrigues (225 families), Paracatu de Baixo (140 families), Gesteira (20 families) and people living in homes that were severely impacted in other rural areas (55 families) are in various stages of the resettlement process
- A revised schedule for all resettlements is under development
- The impacted communities in Mariana, supported by Cáritas (technical assistants) and the Mariana Prosecutor, have prepared 82 resettlement principles
- These are currently being considered by the maintaining companies
- Extrajudicial meetings between State Prosecutors, relevant authorities, Cáritas, local committee, Foundation and maintaining companies have been taking place to discuss and address aspects of the resettlement projects, including the principles
- A conciliatory hearing for the Mariana CPA is scheduled for 27 March
Bento Rodrigues

Current
• 225 families
• Land purchased
• Bill approved to amend the Master Plan of Mariana
• Community assembly approved the Urban Plan on 8 February
• The meeting was attended by 80% of the community who voted 179 – 1 in favour of the option developed by Renova following extensive consultation

Next steps
• Community - complete the integrated registration process and commence individual house design with architects
• Licensing – three stage process - land regularization, urban rezoning and environmental licensing

BHP NOJV and Renova Foundation update
March 2018
**Paracatu de Baixo**

**Current**
- 140 families
- Site approved by local communities
- 100% of the 9 parcels of land for the new village has now been acquired
- Environmental studies on the productive capacity of the area and water availability
- Progress on the urban plan has been slow but it is hoped that the recent approval of the Bento Rodrigues plan may provide an impetus to accelerate

**Next steps**
- Community – finalise and approve Urban Plan, expected in April 2018
- Licensing – land regularization

**Gesteira**

**Current**
- 20 families
- Negotiations with the land owner for the preferred site continue to be difficult
- Request from AEDAS (technical assistant) and the community to review
  - the area to be acquired
  - the definition of people eligible for resettlement

**Next steps**
- Renova to assess recent requests regarding definitions for eligibility and area

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March 2018
Compensation for water interruption

Registration to claim compensation for interruption to water though the Mediated Indemnity Program (PIM Water) closed on 31 December 2017

- **260,000 cases** out of an estmative 450,000 impacted people were settled
- Overall expenditure of the PIM Water program is BRL 260 million (BRL 1,000 per person)
- **90,000 people** who decided not to participate in the PIM Water program have submitted small judicial claims

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(1) US$ 80.1 million based on the Feb’18 closing exchange rate R$/US$ 3.24
(2) US$ 308.2 based on the Feb’18 closing exchange rate R$/US$ 3.24

BHP NOJV and Renova Foundation update

March 2018
General damages compensation is progressing

**Working towards completing compensation payments for all other impacts through PIM General Damages program by 30 June 2018**

- Renova expects to settle most cases by this date, however a number of judicial claims are expected to follow after the PIM program is closed
- Compensation is being paid for **material** and **moral** damages in addition to **loss of income** to the current date
- Interfederative Committee ruled that additional loss of income compensation must be paid periodically until conditions for pre-event employment return
- It also advised that **financial assistance cards** must be paid until full employment is resumed. There are currently just over **9,000** active financial assistance cards
- Compensation is being implemented in 3 campaigns:
  - **21,092** properties/families registered on 1st and 2nd campaign, 13,512 (64%) of whom have had meetings with **3,918** (19%) settled.
  - **9,185** properties/families are currently registered on 3rd and final campaign
- Settlements have been reached with 96 of the 146 family members who lost relatives

BHP NOJV and Renova Foundation update
March 2018
Access and support is key

**Renova is making every effort to accelerate payments and support vulnerable people**

- Renova has established teams of people to resolve process issues and accelerate payments
- Access to the program is being facilitated by
  - standalone offices
  - a mobile unit which services isolated communities
  - staff who visit Residential Care facilities where people are unable to travel, are sick or bedridden
  - transport to centres in some localities
- Guidance on how compensation payments can be best used to restore livelihoods is available to people who express an interest
- Social assistance is provided to minimize possible health and other social risks
Supporting local economies

The Framework Agreement requires Renova to devise and execute a program to prioritise local contracting, with a view to stimulating use of local workforce and local supplier networks

- Funds have been established to support small companies to increase their competitiveness
- Renova is working in partnership with the Brazilian Support Service for Micro and Small Businesses (SEBRAE) for business guidance and consultancy services and the Minas Gerais Development Bank (BDMG) to operationalise the funds
- Prior to this initiative, in December 2017, Renova reached 50% local procurement through its contracting processes
Tailings contained

- The 2018 Wet Season has seen heavy rainfall but all structures in the Germano site remain stable. The monitoring system is working as designed.
- New Santarém dam commissioning started on 2 January 2018 and is progressing as planned. Close monitoring continues.
- No tailings remobilization out of Fundão Valley.
Turbidity at historical levels for 2018 wet season

S3 and S4 Dikes downstream turbidity levels over 100 NTU three times during February
River remediation is progressing well

BHP NOJV and Renova Foundation update
March 2018

Rio Doce bank stabilisation and revegetation
Managing tailings for long term sustainability (I)

Tailings management along the river will include a range of measures to remove, stabilise or monitor tailings deposits

- Renova is focused on remediation actions that provide the fastest and most sustainable path to recovery of river water quality and ecology
- Revegetation with fast growing species was completed in 2016 and ongoing work undertaken to monitor and maintain this vegetation cover
- The environmental regulatory agency reviewed this work in August 2017 and concluded that significant progress had been made in the effectiveness of these remediation actions
- A Tailings Management Plan was submitted in March 2017. A pilot study is being evaluated by Renova and is due for submission on 11 April 2018. It will have a significant influence on the tailings management actions for the rest of the river
Managing tailings for long term sustainability (II)

- Dredging activities in **Candonga Dam** involve the building of structures to manage and contain tailings, which requires proper design and construction to avoid risk of structural failure or ineffectiveness in reaching environmental outcomes.
- Technical studies for the definition of the volume of tailings to be removed from the reservoir are expected to be completed in March.
- BHP is working with a group of experts (Brazilians and International) to peer review these studies to provide independent assurance of the optimal remediation plan.

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**BHP NOJV and Renova Foundation update**

March 2018
Fishing bans remain in place

Our goal is to enable impacted people to return to pre-event livelihoods in the Rio Doce basin and the coast so they are no longer dependent on financial aid

- Two fishing bans are in place which do not allow fisherfolk in the river and the coast to return to their customary activities
  - a judicial ban on the Espírito Santo coast and
  - an administrative ban along the Rio Doce River in Minas Gerais,
- Existing evidence suggests that water quality is consistent with fish consumption and therefore with fishery activities
Working to lift the bans sooner

BHP is supporting Renova by assessing technical studies and other legal and regulatory actions and measures that could be taken to accelerate lifting of the bans

• **Espírito Santo (coastal)**
  – compile available data and undertake further studies to address information gaps and build a cohesive technical argument to lift the ban and communicate safe consumption of fish
  – obtain support from Brazilian ecological and toxicological experts

• **Minas Gerais (river)**
  – accelerate the definition of conservation/ecosystem function indicators to demonstrate ecosystem recovery

Fish species caught at Gasparini - Candonga