

Repair Report



January To June 2020

What we are doing for people and the environment

Periodic statement of remedies and development actions carried out by Vale in the areas affected by the rupture of Dam I and in the evacuated territories.



Eduardo Bartolomeo
CEO

Message from the President

We are going through the most critical period in recent human history. The new coronavirus pandemic poses enormous challenges worldwide. Vale faces this moment with discipline and a sense of urgency, joining forces and learning together with communities to win the battle against Covid-19. At the same time, our commitment and efforts with Brumadinho's integral repair keeps its course during the pandemic with the same care and responsibility, as always. Soon, we will advance even further with the long-term actions foreseen in the Comprehensive Remedial Plan (CRP) of Brumadinho and the Paraopeba channel. Together with our partners and attentive to society's new choices, we are certain that we will overcome the virus and continue to contribute to the prompt recovery of the regions impacted by the rupture of the Córrego do Feijão Dam.

Message from the Director

The remedial actions in Brumadinho have taught us a lot. We understand that, in order to support the wishes of the communities and promote broad, fair and prompt redress, we needed to act with huge empathy, sensitivity and a sense of urgency. Despite the difficulties and urgencies of adaptation imposed by the new coronavirus pandemic, our spirit and our commitment with redressing are more alive and energetic than ever. After a little over a year dedicated to emergencies and the most immediate aspects of the needs of the people and the affected regions, we are now entering a new phase of redress: the delivery of structural projects that aim to promote lasting transformations to effectively recover communities and benefit the population. We have achieved important advances by working tirelessly and being aware that taking Brumadinho and other impacted territories to a new condition is what society expects of us all.



Marcelo Klein
Special Director of Repair
and Development

What you'll see in the next pages



Long-term actions: we are close to launching the Comprehensive Remedial Plan (CRP) of Brumadinho and Paraopeba channel, which will include all initiatives that will guide the redress and compensation works in the coming years.



Environment: we launched Marco Zero, a pilot project to rehabilitate the Ferro-Carvão stream channel and restore native vegetation, also contributing to the recovery of the Paraopeba River.



The Association of Family Members of Victims and People Affected by the Breaking of the Mina Córrego do Feijão Dam (Avabrum), in Brumadinho, chose architect Gustavo Penna's project for the Memorial to be built in the town.



We finished the connection of Copasa's two water supply systems in the metropolitan area of Belo Horizonte: the Paraopeba system and the Rio das Velhas system.



We did a broad public poll so the inhabitants of Barão de Cocais could have the chance to suggest the projects that would be part of Vale's Compensation Plan from the town.



Fight Against Covid-19: we have helped the Brazilian society, Minas Gerais' people and Brumadinho and the surrounding communities by relocating the people from their houses as a prevention method.

Timeline: monthly highlights





Action Status in the 1st semester of 2020

Collective building of the Compensation Plan for Barão de Cocais



Status: completed

Temporary structure of Escola Meridional de Conselheiro Lafaiete



Status: completed

Reactivation of wells in the north vector of Belo Horizonte



Status: completed

Promotional tourism campaign in Macacos



Status: completed

Building of pipeline in Pará de Minast



Status: in progress

Marco Zero – pilot project for environmental recovery



Status: in progress

Revitalization of São Sebastião Chapel in Macacos



Status: in progress

Building of the new municipal school Rubem Costa Lima in Macacos



Status: in progress

Donation of ambulance to Barão de Cocais city



Status: completed

Reform of Coronel Câncio school in Barão de Cocais



Status: completed

Water supply to affected cities



Status: completed

Restart of Macacos' Farmers' Market



Status: completed

Water filter implementation for riverside communities and rural producers



Status: in progress

New water collection system in Paraopeba River



Status: in progress

'Valorizar' Project in Brumadinho



Status: in progress

Territory-Park in Córrego do Feijão



Status: in progress

Support to Itabirito's Carnival



Status: completed

Silt removal at Itabirito River



Status: completed

Support to Macacos' Carnival



Status: completed

Technical reassessment of the sterile pile of Morro da Mina in Conselheiro Lafaiete



Status: completed

Tailing removal by the Fire Department



Status: in progress

São João River dredging in Barão de Cocais



Status: in progress

Ecological risks and damage to human health



Status: in progress

Fostering Agriculture Program in Brumadinho and Mário Campos cities



Status: in progress

Preventive measure on the Mello Small Hydroelectric Plant



Status: completed

Conclusion of the connection works in the supply systems of Paraopeba River and Rio das Velhas



Status: completed

Social and urban infrastructure works in Brumadinho



Status: in progress

Sports court reforms in José Estevão Braga and Padre Antônio Cândido municipal schools in Engenheiro Correa and Itabirito cities



Status: in progress

Memorial for the victims in Brumadinho



Status: in progress

Supported Incubation of Kairós Project in Córrego do Feijão



Status: in progress





Time has come to start our deliveries of structuring projects that aim for lasting transformations in the long run to recover communities and effectively benefit the population”.

Marcelo Klein,
Special Director of Repair
and Development



Comprehensive Repair Plan (CRP) for Brumadinho and Paraopeba channel

Throughout 2019 and in the first months of 2020, Vale commissioned independent studies from renowned professionals and institutions specialized in: public management, environmental recovery and preservation, policies of defense of human rights and mental health and psychosocial support. The results of all studies developed, with participation of the public authorities and active listening in the affected territories, were incorporated and consolidated in the Comprehensive Repair Plan (CRP) for Brumadinho and Paraopeba channel.

CRP

Repair, compensate and develop Brumadinho and region

We recognize our responsibility to repair in a quick and fair way the damage caused to families, to communities' infrastructure and to the environment in Brumadinho and its region. Since the collapse of Dam I, we have taken several actions to mitigate, repair and redefine the communities and the lives of people affected.

To structure this work for the coming years, we prepared the Comprehensive Repair Plan (CRP) for Brumadinho and Paraopeba channel, which brings Vale's public commitment of implementing the actions provided for in the legal agreements with the Public Ministry of Minas Gerais; the Federal Public Ministry; the Union; the government of the State of Minas Gerais; the city halls of impacted municipalities; other Brazilian authorities and government agencies; and private institutions representing communities and society as a whole. Soon, we will present the list of projects and programs contemplated in the CRP, which will be an active plan, that is, other initiatives will continue to be inserted so that all those affected by the broken dam get to be contemplated by decisions that effectively produce growth opportunities for themselves and their communities.



Tailings removal

Meanwhile...

Since the dam broke, we have acted on several fronts of emergency assistance to the needs of the people, the government and the environment. Donations, emergency aid, civil and labor indemnities, water distribution, medical and psychosocial services, emergency works, animal rescue, among other initiatives, make up our current efforts, with priority being given to meeting the most urgent needs of the populations affected.

UN Fundamental Principles

Aware of our responsibility and the violation of Human Rights resulting from the breach of B1 Dam, we adopted as the main reference for the CRP the "UN Guiding Principles on Business and Human Rights", which is structured on three

pillars (Protecting, Respecting and Repairing), and on decree nº 9.571/2018 of the federal government of Brazil, which determines the following steps for redress:



Public apology

Make a public apology to all those affected



Rehabilitation

Acting in the rehabilitation of damages that cannot be directly recovered



Legal sanctions

Fully comply with final decisions related to fines and legal sanctions defined by the government



Restitution

Restore all possible damages to the affected people and territories



Compensations

Promote fair compensation for damages that cannot be restored or rehabilitated



Prevention measures and guarantees of non-repetition

Improve Vale's policies and processes to reduce the likelihood of emergency situations as much as possible and mitigate impacts related to dams

External diagnostics CRP is based on

Studies and diagnoses

We have commissioned studies from acknowledged external independent institutions to listen to those directly impacted and prepare a diagnosis that covers all aspects of comprehensive repair. These studies supported the actions proposed in the CRP.

In addition to the specialized external studies, we considered, in the preparation of the CRP, the recommendations of the Independent Advisory Committee for Extraordinary Support and Repair, established by the Board of Directors of Vale in February 2019, and composed by independent professionals renowned and internationally recognized in their areas of expertise, with extensive experience in emergencies.

Socioeconomic actions aimed at Brumadinho's productive recovery

Source: National Institute for Science and Technology in Public Policies, Strategies and Development (Instituto Nacional de Ciência e Tecnologia em Políticas Públicas, Estratégias e Desenvolvimento – INCT/PPED)

Strategy for Transformation in Brumadinho

Socio-environmental Recovery Plan for the Paraopeba River Basin

Preparation & reparation for the future

External Evaluation in Mental Health and Psychosocial Support

Social impacts after indemnity, social participation and governance

Source: Fundação Dom Cabral

Socio-environmental actions for damage repair in Brumadinho and Paraopeba River basin

Source: Arcadis

Program for Family Reference, Mental Health and Psychosocial Support for those affected

Source: Consultant Carla Satie

Strategy for Transformation in Brumadinho

A study was created by the National Institute for Science and Technology in Public Policies, Strategy and Development [Instituto Nacional de Ciência e Tecnologia em Políticas Públicas, Estratégias e Desenvolvimento (INCT/PPED)]. The document shows that the strategy for the transformation in Brumadinho is conditioned to interconnected and integrated actions of development of the territory as a whole, bearing in mind the disconnection among the different regions of the municipality, mobility and communication issues, as well as lack of adequate urban infrastructure.

Preparation & reparation for the future

The socioeconomics aspects were evaluated and diagnosed by the Dom Cabral Foundation, an accredited institution for its academic excellence. The study was made between October and December of 2019, covering the directly affected area by the disruption of the Dam I, the Paraopeba river channel and the towns with evacuated areas. For its construction, inhabitants (leaders and affected ones), public power, besides Vale employees and outsourced were heard.

Socio-environmental Recovery Plan for the Paraopeba River Basin

The environmental aspects and the recovery of the biotic and physic ambiance were analyzed by Arcadis international consulting. The document was issued in January 2020 and brings a set of initiatives, projects and actions with implementation and conclusion estimate up to 5 years.

External Evaluation in Mental Health and Psychosocial Support

The study led by the psychiatric doctor Carla Satie Kamitsuji, with a wide experience in mental health and psychosocial support, sought to identify the priority gaps in the activities and active strategies to ensure Mental Health and Psychosocial Support (MHPSS) to the population affected by the dam breaching, as well as the public affected and resources for the MHPSS response plan.

Action Fronts

Our plan consists in programs that will unfold in projects and actions to be established in the diverse spheres of recovery acting and compensation. The actions are due short, medium and long term and they are focused on recovery and compensation of all impact and consequences from Dam I breach.

Socioeconomics

Humanitarian assistance and indemnification

Guarantee of the human rights, humanitarian assistance, access to health and indemnifications

Education

Investments in educational infrastructure, educational programs and funding

Health and well-being

Improvement in basic healthcare, training and prevention

Employment and income

Programs that promote economic retake of the affected areas focused on training, generation of employment, income and tourism stimulus

Farming

Emergency supply of water and financial assistance to farming activities

Land

Land regularization for the construction and indemnification works

We considered all recommendations and contributions from the diverse sources involved in the process, besides to actively listening to the needs and demands of those directly impacted.

CRP's actions are grouped into three pillars: Socioeconomics, Environment and Infrastructure and Institutional Management.

Relationship with Communities

Relationship and commitment building with affected communities

Sustainable Development

Promotion of activities directed to well-being and development, guided by sustainability principles

Culture

Promotion of the cultural tourism

Integrated Support Program to the Affected People

Support and assistance program for the use of resources granted and productivity retake



Workshop for improvement of basic health service – Ciclo Saúde Program



Monitoring

Environment

Biotic environment

Preservation of the affected biomes focused on the protection of fauna and flora, monitoring, environment management, recovery and preservation

Physic environment

Contention, removal and management of the residues from the breaching, monitoring, environmental management, recovery and environment preservation

Support to structure decommissioning activities

Support to the operation in the process of structures decommissioning in Córrego do Feijão mine



Implementation of the Water Collection System pipeline of Paraopeba River

Infrastructure and Institutional Management

Architecture and urbanism

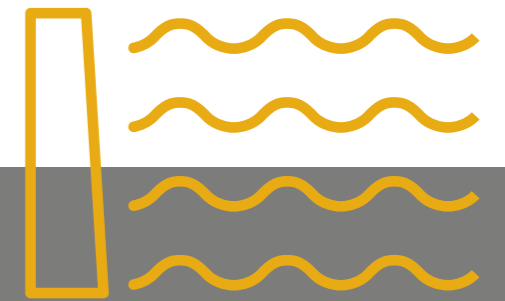
Several interventions for the improvement of urban conditions

Infrastructure and sanitation

Investment in public and road infrastructure, sanitation and works for hydric safety

Territorial resignification

Strengthening the belonging and identity bonds of the affected communities



Non-repetition commitment

In addition to all actions that the company is proposing to the affected areas and communities, CRP encompasses actions of guarantee of non-repetition of disasters, with the development and improvement

of internal policies, as well as participation in the strengthening of public policies and debating regulatory questions.

Expected results

Through CRP we expect to provide resources and instruments necessary to allow people, communities and affected territories to retake their lives autonomously and within normality standards. That way, Vale commits to achieve this objective until 2025, when it will be about to complete the referred recovery from the damage caused by the breaching of Dam I.

Final Objective

By reaching the conclusion of this plan, we expect to go beyond the recovery and compensation for the consequences of the breaching, leaving a positive legacy for all involved. We have worked to recover the affected areas as well as to rebuild the socio-environmental and socioeconomic dynamics found there. There is no way to bring back the lives taken, but the company is effectively responsible for doing the best throughout the territory, establishing the necessary means so that each town may continue its journey with quality of life, income generation and respect for each other.



The complexity of the remedial actions shows us that we must walk at the pace of the needs of those affected, without leaving aside a policy which is common to the whole community of Brumadinho and Paraopeba channel”.

Fernanda Victorio,
Socioeconomic Development
Analyst



What are we doing for people in Brumadinho and region?

All projects and initiatives developed in the affected regions take in account the principle of respecting people. For that end, a constant dialogue with the affected communities and a partnership with institutions committed to a fast, fair and comprehensive redress have been essential.

Social

Dialogue and relationship

Since the dam rupture, the affected families have been assisted and heard in the field by a team of specialized professionals, the “CR”, community relations professionals.

From the worsening of the situation of the Covid-19 pandemic, in the week of March 16th, following the health authorities’ recommendations to comply with distance and social isolation, CR’s assistance began to be done remotely and steadily. If necessary, a personal contact is scheduled, being carried out with all the care the moment requires.



Reparation must not be imposed or promoted unilaterally. Dialogue is the backbone for carrying out actions in the territories”.

Juliana Figueiredo,
CR who operates in Parque da Cachoeira region



Juliana Figueiredo (RC) conduz o diálogo com a comunidade de Parque da Cachoeira

Health and psychosocial support

Actions to reinforce health in the communities

A constant concern for communities is regarding physical and mental health. To strengthen the municipal network of Basic Health Care, financial transfers were made to the Brumadinho City Hall for the purchase of emergency equipment and hiring of health and psychosocial professionals. We also implemented, in the second half of 2019, the Ciclo Saúde Program to support public management, strengthen community groups for this theme and qualify professionals. In the second half of 2020, another 14 cities will receive the program. In these pandemic times, this support has been essential for better service to the population. The program also includes the equipping of Basic Health Units (UBS) in the cities, providing instruments and furniture for the purpose of improving diagnosis and clinical practice.

Psychosocial support of families

Created to guarantee psychosocial support to the people and families directly affected by the rupture, the Family Reference program brings together a specialized team to assist families and contribute to the redress process individually. The program encompasses three strategies:

- Psychosocial follow-up through systematic and continuous care of families;
- Punctual psychosocial care through Service Points (PAs);
- Intersectoral articulation, which allows an integrated and shared management of the monitoring of people and families with the public authorities and repair areas.

In times of combat to Covid-19, care service will continue to be done remotely. But they will, whenever necessary, count with the physical presence of professionals.



The program counts with specialized multidisciplinary teams that deal daily with objective demands related to material losses, such as housing and income, as well as with subjective and mental health issues, allowing for the resignification of family and community bonds”.

Denise Garófalo - Family Reference and Psychosocial Support Analyst in Brumadinho

Entities involved

- Municipal Secretaries of Health of the cities involved



Claudia and Claudio, from Brumadinho, have been followed-up by professionals from the Family Reference Program since 2019

Indemnification

Understanding that it is necessary to bring financial security to families directly impacted by the rupture, we have acted since the beginning not to leave people helpless. See a hypothetical case, created to illustrate the support actions:



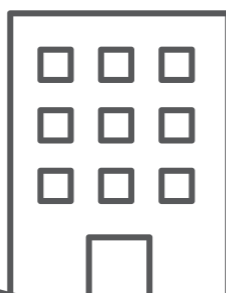
Their support was essential in guaranteeing the acquisition of the property. We had all clarity of what the consultancy's service would be about, both in terms of habitability and in the rigor of verifying the legality of the documentation on the seller's side and the professionalism in complying with the schedules”.

Nairo Almeri, participant of the support front for the purchase of residential, rural or commercial properties offered by the Program of Comprehensive Support for Affected People (Paia)

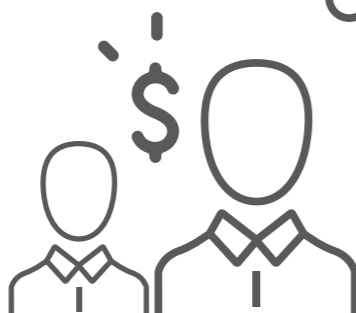
Mr. João received a **voluntary donation** (1) from Vale soon after the rupture to cover his most immediate expenses. Then, he had to leave the house where he lived with his wife and children in Parque da Cachoeira.



Then, he was **relocated by Vale to a hotel.** (2)



Some time later, he negotiated an **amount to be indemnified** (4), supported by the Public Defender's Office of Minas Gerais.



and he started to be sent a **monthly emergency aid** (3) of 1 minimum wage per adult, ½ per teenager and ¼ per child offered by Vale



And finally, by joining the **Program of Comprehensive Support for Affected People** (5), he was helped in choosing the house where he then moved.



Vale
Q&A

Instead of spending energy and money on marketing, why don't they fulfill their obligation to indemnify people for the damage caused by the rupture of their dam?

Assisting the population is our main objective in this reparation. Since January 2019, we have been committed to indemnifying all those who have been directly harmed. For that end, we have dedicated teams to seek understanding with families, always with the participation of the Public Defender's Office and the Public Ministry of Minas Gerais. By June, more than 7,000 people had already been compensated. We also assist people who have been indirectly impacted. There are over 100 thousand people who receive a monthly emergency aid in cash from the company.

Question sent via Instagram

Entities
Involved

- Public Ministry of Minas Gerais
- Public Defender's Office of Minas Gerais
- Public Ministry of Labor and Employment

1) 466 families received donations: R\$ 100 thousand to 276 families of victims of the rupture; R\$ 50 thousand for 100 families who lived in the Self-Rescue Zone (ZAS) of Dam I; and R\$ 15 thousand for 91 rural producers and traders with productive activities at the ZAS.

2) Currently, there are 102 families from Brumadinho residing in hotels, inns or relatives' homes.

3) About 108 thousand people, from Brumadinho and cities along the Paraopeba river channel (up to the Retiro Baixo Dam), receive a monthly emergency aid.

4) In April 2019, Vale and the Public Ministry of Labor and Employment formalized a final agreement to indemnify survivors and workers stationed in Córrego do Feijão on the day of the rupture.

5) 3,140 civil and labor agreements have already been signed.

6) The Program of Comprehensive Support for Affected People supports individuals and families who have received individual indemnification so that they can plan their future in the face of the new economic conditions, according to their wishes and choices. Over a thousand people have already participated.

The Memorial will be built on a site chosen by Avabrum and acquired by Vale, which is also responsible for contributing technically and making feasible the construction of the space. The families chose the monument's architectural design in an election involving four architecture companies.

Photo: Gustavo Penna Arquitetos



Active listening

One of the most important aspects of the process of recovery is regarding symbolic value: respecting the feelings and memories awakened in the people impacted by the rupture of the dam. The rescue of memories and respect for the victims are important actions taken with the along with communities. It relies mainly on the active participation of the families of those who are gone.

Memory Rescue and Preservation

Another important action towards the memory of the victims is being taken by Museu da Pessoa, which intends to transform the history of the community and the victims' families in a sort of tribute. The memories will be collected using the organization's own methodology, which, since 1991, has been transforming the story of many lives in humanity heritages. There will be interviews with the victims' families and the inhabitants of the community to create this collection of stories that will be used in the Memorial, besides being part of the Museu da Pessoa collection and part of other public spaces determined by the communities. The field work will start soon as the public authorities decrease the social distancing restrictions.

Memorial

One example of active and genuine listening is the Memorial that will be built in Córrego do Feijão as a homage to the victims. All the choices involved in the project will be made exclusively by the families, through the association created to represent them, Avabrum.



Memorial Monument - **Photo:** Gustavo Penna Arquitetos

Entities Involved

- Avabrum
- Museu da Pessoa
- Gustavo Penna Arquitetos
- Minas Government through the Pro-Brumadinho Committee
- Public Defender's Office of Minas Gerais
- Public Ministry of Minas Gerais



The Territory-Park Project was developed and thought for the well-being and improvement of quality of life of the inhabitants foreseeing, for instance, an important investment in basic sanitation works and repair of the water supply. **Photo:** Mach Arquitetos

Vale Q&A

Why are the works in progress in other locations whereas here in Córrego do Feijão we are still waiting?

Because of the relevance and complexity of the project, we chose to actively listen the community, who built the idea together with us. This listening process happened from February to July 2019. Since then, according to the inhabitants' guidance, the project was designed, presented and changed.

Question made to a Community Relations professional (CR)



Territory-Park

The dialogue kept with the community allowed for the implementation of a relevant project: the resignification of one of the districts most affected by the rupture, Córrego do Feijão. After a process of listening to the main claims of the community, we started the implementation of the urban requalification project called territory-park, in a concept that includes actions of infrastructure improvement (renewal, paving and urbanization of streets, houses and structures), economic reactivation and development of local tourism.

The project serves two main objectives. The first, with human focus, is to allow that Córrego do Feijão families can go back to their routines, contributing for the improvement of life conditions and the well-being of people.

The second objective is to promote economic development in the location. To ensure that, we are implementing an Urbanization Plan for the central area, adding value to its touristic profile. There will be interventions in public assets, after necessary authorization, and improvements in the road infrastructure.

Social Dialogue

In December 2019, a fair took place in Córrego do Feijão so that the inhabitants could visualize and get informed of all details of the project, being able to suggest changes and adaptations to the team in charge.

Presentation of the project to the community



Next Steps

We are finishing the details of the executive project during the pandemic. The equipment expected for the beginning of the works, in 2020, are the revitalization of the central square, the community market, renewal of the Community Center and the Culture and Crafts Center.

20%

Status: in progress

Employment and income

On November 20th, the inhabitants of Córrego do Feijão and Parque da Cachoeira participated in a first class of a professional learning project conceived and led by the Yara Tupynambá Institute in those communities. Its goal was increasing local employment, serving the needs of qualification demanded by the construction industry and gardening areas.

Likewise, the communities of Pires and Parque da Cachoeira may now count on an initiative that will provide an important professional and vocational orientation. It is about mapped work developed by Civil Association for Socio-environmental, Cultural and Sports Reference (Associação Civil de Referência Socioambiental, Cultural e Esportiva - Acresce).

Two other projects must be highlighted: Quintais Produtivos (Productive Backyard) – Córrego do Feijão inhabitants get support for production of vegetables in their own backyards – and Horta Cheiro Verde (Parsley Garden), built before the rupture, which allows Córrego do Feijão inhabitants seek resignification in their lives. Both projects will be part of an incubation action Kairós Project will implement in the district area over the next months.

Social Dialogue



The inhabitants of Córrego do Feijão and Parque da Cachoeira were informed about the Yara Tupynambá Institute project during a meeting in the community and they have the opportunity to ask questions to get better informed before subscribing.



Talk with Córrego do Feijão community



There's really no doubt that in a moment of anxiety, being very afraid, having to stay home worried about the others and with the future, the possibility of focusing our minds using plants is a great benefit. Not to mention the assistance fund, which is much appreciated. One day, when I was incredibly sad about the deaths, I started to watch the video on planting. I went to practice some exercise then I got calm. My thanks to all of you from the Yara Tupynambá Institute”.

Maria Regina – 56 years old, student in the gardening course. Message sent through the group of activities from home on WhatsApp in response to the instructor's stimulus for continuous learning



One of the goals of a fair reparation is providing development, allowing people and businesses to economically rearrange. In this regard, actions were proposed in order to promote sustainability in these regions, promoting employment and income to their population. Developing businesses in Brumadinho is one of the best ways to enable a genuine increment for the region, leaving positive legacies in these communities”.

Flávia Soares, Socioeconomic Development Manager



We are investing in actions that promote income and allow families to recover their self-esteem in the affected district areas.

Incubation

Small businesses in Córrego do Feijão will have support from Kairós project so they can keep themselves economically in the long run. To this end, businesses are being mapped – even if they are informal – which will go through a consultancy process and development of their main potentialities.

One example is Cravo e Canela grocery store in Córrego do Feijão community. Its opening allowed the neighbors to shop without having to go to the city center and reinforced the feeling of belonging to the owner, Ana Paula Assis.



“ I like Córrego do Feijão very much, and the place deserves to blossom. I do this for the ones who are gone, if they were here they would be fighting together with me. As people started to get demotivated to stay here, I thought of doing something. I didn't understand anything, but I've taken the risk and it worked.”

Ana Paula Assis, owner of the Tempero da Chef restaurant and Cravo e Canela grocery store, an initiative supported by the incubation project of local businesses

For more information on agricultural products traceability, access:



Agriculture

Farmers from Brumadinho and Mário Campos who were affected by the rupture are being followed-up by a multidisciplinary team so they can expand their productive activities, thus promoting more jobs and income. It is the Agriculture Development Program, that seeks to develop rural activity, mainly the family based one, in those locations. Other towns that part of the Paraopeba channel may join initiative.

Among the actions there is the expansion of knowledge and traceability and technical improvement, organizational and infrastructure. The proposal intends to expand the access to retail groups from Belo Horizonte's metropolitan region.

Entities Involved

- Seapa
- Brumadinho and Mário Campos City Halls
- Emater
- IMA
- ASPRUB
- Agriculture Farmers and Tradicional Communities Associations (Associações de Agricultores e Comunidades Tradicionais)
- Sanitary Surveillance



'Valorizar' Project

Many social entities in Brumadinho are facing a qualification process through the 'Valorizar' Project. Over 50 projects submitted by the first half of June will be evaluated, and the selected ones will receive social investment so they can develop their activities and contribute to improve the quality of life of their communities.



Media release

For more information on 'Valorizar' Project, access:



Tourism

A partnership with the Agency for Regional Development of Tourism in Vale do Paraopeba (Agência de Desenvolvimento Regional do Circuito Turístico do Vale do Paraopeba) is enabling businesses qualification, such as tourism agencies and tour guides, big generators of employment and income to the towns.

Entities Involved

- Association of Tourism of Brumadinho and Region (Associação de Turismo de Brumadinho e Região – ATBR)
- Brumadinho Culture and Tourism Bureau (Secretaria de Cultura e Turismo de Brumadinho)
- Circuito Veredas



Social Dialogue

Planning alternatives for tourism development is being made through a hearing process with business people from tourism sector, who brought all their demands and difficulties during the workshops that were held between October and November 2019.



Tourism workshop in Casa Branca

“ e made a flu vaccination campaign in April, in which more than 90% of the villagers participated. The Indian chief and the health workers helped us to raise awareness about the importance of preventive measures for fighting Covid-19. We are keeping daily contact, monitoring symptoms and giving instructions.”

Ana Cláudia Duarte Castro, Coordinator of Health Diagnosis to Naô Xohã village

Indigenous People Support

We are providing support for the Pataxó indigenous people from Naô Xohã village who live on the margins of Paraopeba and are prevented from fishing and using water from the river. The 211 indigenous received a monthly emergency aid, the sum of a basic food package per household and R\$110 referred to the freight to shop for food. For access to drinking water, a water tank and a distribution network were installed for the entire village.

Entities Involved

- Indigenous National Foundation (Fundação Nacional do Índio)
- Indigenous Health Special Bureau (Secretaria Especial de Saúde Indígena)



Taking care of impacted animals is a commitment engaged we go to great lengths to fulfill”.

Magda Castro,
Coordinator of the Abrigo de Fauna Shelter Farm and Veterinary Hospital



What are we doing to restore the environment?

The recovery of the environment in areas impacted by the rupture is Vale's commitment to society. We are in the midst of an environmental restoration process, understanding the impacts, planning and implementing restoration actions. In this work, the containment and removal of tailings, the recovery of the hydrographic basin of Paraopeba River, its surroundings and the affected biome are priorities, as well as respect for the original characteristics of the areas.

Environment

Marco Zero: a pilot project for environmental recovery

Launched in January 2020, the Marco Zero project aims to rehabilitate the Ferro-Carvão stream channel and restore vegetation with plants native in the region, in addition to contributing to the recovery of the Paraopeba River.

Vale
Q&A

Do we have any results/ proof that the underground water in Brumadinho was not contaminated? And up to when will Vale continue to distribute water to impacted families?

The tailings from Dam I are essentially formed by ferrous minerals and are non-toxic, according to the standard (NBR nº 10.004) of the Brazilian Association of Technical Standards (ABNT). We've monitored water quality along 465 km of Paraopeba River, and our analyses show that the tailings did not reach the São Francisco River. Water supply to the entire impacted population has been in place since January 2019 and will continue indefinitely.

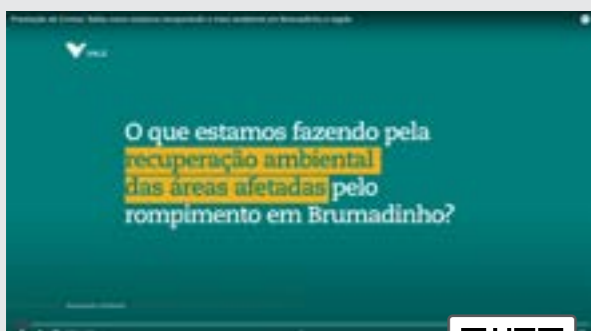
Question sent via Contact Us

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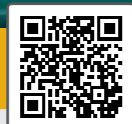


Marco Zero Area in February 2019

BEFORE



Para assistir ao vídeo, acesse:



Media release



80%

Status: In progress



AFTER

Marco Zero Area in February 2020

1

The project goes from the area of metal piles curtain, installed next to the new bridge of the road to Alberto Flores, to a stretch of, approximately, 400 m in the Ferro-Carvão stream.

2

One of the challenges was rebuilding the channel of Ferro-Carvão stream, considering its layout prior to the rupture.

3

The restoration process is taking place in three steps. In the first, we put fertile vegetable soil and sow the first species.

4

In the second step, we plant native trees' medium-sized and fast-growing seedlings in the region. In the third and final step, other native species will be planted to enrich the local vegetation and increase biodiversity.

Emergency works

Tailings containment

One of the first actions initiated in favor of environmental recovery was the implementation of a set of structures to contain the tailings. Along the Ferro-Carvão stream, we built 25 small barriers and four large containment structures (two hydraulic barriers, a dike, and a plank-pile curtain). These works are 100% completed and, since May 2019, the Paraopeba River no longer receives sediment.



Barreira hidráulica BH1

Water treatment

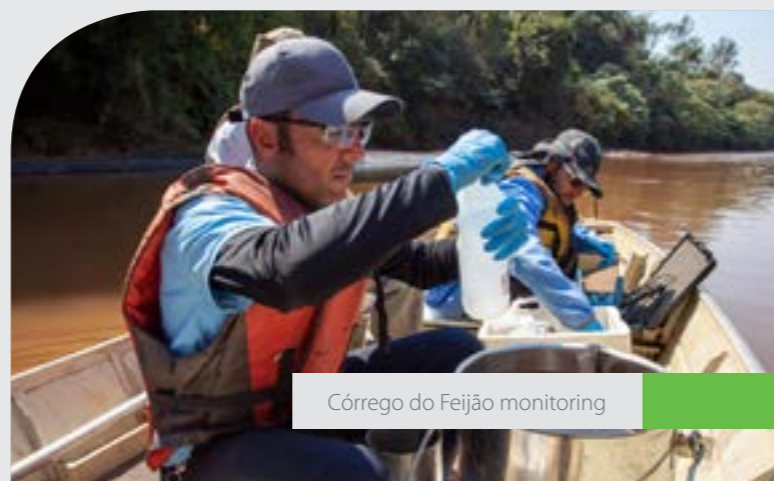
As part of the emergency works for the rehabilitation of Ferro-Carvão and the Paraopeba River, we implemented two River Water Treatment Stations (ETAFs). So far, more than 10 billion liters of water have

been treated at the stations and returned to the Paraopeba River. Another important action is the tailing dredging from the silted section of the river. Through this action, it is possible to remove the solid material and drain the water to one of the treatment plants, returning it cleanly to the Paraopeba River.

Monitoring

Implemented soon after the rupture, monitoring water quality is essential to understand the impacts and determine recovery strategies. Besides the Paraopeba River, we monitor ten of its tributaries, the São Francisco River and the reservoirs of the Retiro Baixo and Três Marias powerplants. The activity is audited by the Public Ministry and is being transferred to Igam, according to the Term of Commitment signed last year. To date, we have performed 6.4 million water,

soil and sediment analyzes on approximately 44 thousand samples for analysis of several parameters, such as the presence of metals in the water, pH and turbidity.



Córrego do Feijão monitoring

Social Dialogue



Since February 2019, we have had meetings with the communities on the emergency construction works. During the dialogue sessions, our field staff presents the planned construction and the ones in progress, their importance, impact mitigation measures and clear all questions brought by the inhabitants. All these actions are reported monthly to the Public Ministry and to the State System for the Environment of Minas Gerais (Sistema Estadual de Meio Ambiente – Sisema), which have the knowledge of the social dialogues agenda expected each month.



Meeting at Pires community

We make available on-line data on the monitoring of the emergency construction works

Brumadinho inhabitants and other stakeholders may follow on-line the development of tailing contention structures implemented along the Ferro-Carvão section, the Water Purification and the dredging Stations on Paraopeba river.

The monitoring actions are executed 24/7 and the data, such as rainfall volume and water turbidity, can be checked at Vale's website. That information is the same as that informed, on a daily basis, to the competent authorities.

Open Doors

The River Water Purification Plant is constantly visited by the community and schools, public agencies and other institutions. Through the visits, it is possible to know how the plant works and how it contributes for the environmental recovery of Paraopeba River. Up to the moment, about 230 people, among inhabitants and students, visited the location.

To know more about our visits, get in touch with our Contact Center: 0800 031 0831.



I was really amazed by what I saw. Besides knowing all the process and seeing the clean water getting back to the river, I confirmed how much the staff is committed with doing a serious and well-done job”.

Tereza Caetano, Parque da Cachoeira inhabitant after visiting the plant

Place your phone over the QR code and have access to our monitoring panel





Tailing removal being carefully made and followed by the firefighters

Tailings removal will be concluded until 2023

Total volume from B1 dam:
11.7 million m³

Spillage Volume:
9.7 million m³

Volume already removed:
1.6 million m³

Digging capacity:
27 million m³

Tailings handling:
exclusive road **without impacting local roads**

Area Affected: 295 hectares

Removal deadline: 2023



- Entities Involved
- Firefighting Department
 - Public Ministry of Minas Gerais
 - National Mining Agency (Agência Nacional de Mineração – ANM)
 - State Bureau for the Environment and Sustainable Development (Secretaria de Estado de Meio Ambiente e Desenvolvimento Sustentável)

Social Dialogue

Impact produced by the tailing removal and transportation activities were the subject of meetings with the communities to understand the trouble caused and define the actions to be taken to mitigate it. Besides monitoring noise, dust and vibration levels, we also opened new access channels, used tank-truck to reduce dust in the air and enclosed generators to reduce noise.

Dialogue with the Parque da Cachoeira Community



Tailing removal

Tailings removal and destination

The procedure for tailings removal is carefully planned and executed in partnership with the firefighters, responsible for the operation of victims search. After each tailings fraction being checked and released by the firefighters, possible remaining materials, such as metals, rubber, and

wood, are separated and discharged, according to environmental legislation. This way, the tailings acquire adequate conditions for final discharging on Córrego do Feijão mine digging, according to recommendation of the National Policy for Solid Waste (Política Nacional de Resíduos Sólidos).

Studies for the evaluation of ecologic risks and damage to human health

In partnership with many public and private entities, we are going to start a series of studies to evaluate ecologic risks and damage to human health that may have been produced after the breaching.

Some questions will be evaluated, such as dust exposition and water consumption, in 29 towns by the Paraopeba River channel. The programs is in its validation phase by competent authorities.

- Entities Involved
- Ministry of Health (Ministério da Saúde)
 - State Foundation for the Environment (Fundação Estadual do Meio Ambiente – Feam)
 - Minas Gerais Institute of Water Management (Instituto Mineiro de Gestão das Águas – Igam)
 - State Department of Health (Secretaria de Estado de Saúde)
 - State Department of Planning and Management
 - City Halls and City Departments of Health and Environment (Prefeituras e Secretarias Municipais de Saúde e Meio Ambiente)
 - Public Ministry of Minas Gerais



Status: in progress
Estimated conclusion: 2022



We have already held three adoption fairs that gave new owners to over 160 dogs and cats. The adoptions will continue, but now on-line due to Covid-19. Access:



Protection and care with the animals

We will continue to take care of the animals, pets and wild, hit by the rupture, rescued by being at risk in the communities or given voluntarily by their previous tutors. Among 1,050 dogs, cats, horses, oxen, hens, pigs and wild animals that passed by Abrigo da Fauna Shelter Farm and by Field Hospital, 600 ones are still in our custody.

Fish protected reproduction

The spawning season, reproduction time of fishes, happened between November 2019 and February 2020. In this period, we made some adjustments in our cleaning procedures, so we don't affect the natural cycle of reproduction of species in Paraopeba River. We also monitored the fishes for a long way – 46km between Juatuba and Brumadinho. The initiative collaborated for the preservation of, at least, four migratory species: dourado (*salminus maxillosus*), curimatá piao (*prochilodus lineatus*), piau-verdadeiro (*leporinus freiderici*) and mandi-amarelo (*pimelodus maculatus*).



When will Paraopeba river be ready for fishing and water use?
The river liberation for water collection and fishing is responsibility of Minas Gerais Institute of Water Management (Instituto Mineiro de Gestão das Águas - Igam). Vale will keep working on search for solutions that bring rehabilitation to Paraopeba river and its biodiversity as soon as possible.
Question sent through Facebook

Bees preservation

We are cataloging, monitoring, and rescuing the native bees in Brumadinho. These bees will be fundamental in the reforestation process. The action started in 2019 and it is part of an agreement with City Department of Environment (Secretaria Municipal de Meio Ambiente).

195 hives cataloged

25 species already identified in Brumadinho (there are 200 in Brazil)

Building adequate place for beekeeping



Knowing that building a legacy will be possible thanks to our work gives us the energy and gratitude to continue working for the well-being of communities. I hope that the works can really serve and improve the lives of many people, and that's what we are here for".

Ilton Zamprogno,
Social Works
Implementation Engineer



Infrastructure

What are we doing for Brumadinho and impacted regions' infrastructure?

Infrastructure works in Brumadinho and impacted regions are an important pillar of the redress and compensation program. The recovery and improvement of the water supply system, the urban mobility and the construction of public facilities are some of the initiatives in this area.



Implementation of Copasa's water intake structure on the Paraopeba River

Supply and sanitation works

The supply and sanitation actions have a remarkable relevance in our reparation efforts, since we have a duty to guarantee the supply of water to people in the regions affected by the rupture. With the prohibition on the use of water from the Paraopeba River in the stretch between Brumadinho and Pompéu, we have worked with a series of solutions.

New water intake system in the Paraopeba River

The Paraopeba River basin accounts for almost half of the water consumption in Belo Horizonte and its metropolitan region. Given the impact from the dam rupture, Copasa was prevented from continuing to operate the collection from the river. For that reason, we are building a new system, at a non-impacted point, to guarantee supply to the Metropolitan Region of Belo Horizonte.

40%

Status: in progress
Estimated conclusion: September 2020

Social Dialogue



Before starting the works, we started a dialogue with the communities and with the owners of the areas under the direct influence of the project to present the activities' planning, the importance of the new system, the actions to mitigate impacts and answer residents' questions. In addition to the meetings, our field team remains dedicated and open to dialogue. This relationship also has the participation of the Public Ministry of Minas Gerais.



Dialogue with the Ponte das Almoreimas community



Implementation of the new supply system pipeline

Organs involved

- Copasa
- Public Ministry of the State of Minas Gerais
- Federal Public Ministry
- Cemig
- Government of Minas

Conclusion of Interconnection work connecting Paraopeba and Rio das Velhas' water supply system

This month We concluded a project that connected two of Copasa's water supply systems in the Metropolitan Area of Belo Horizonte: Paraopeba River and Rio das Velhas. The construction work happened in Novo Glória neighborhood, in Belo Horizonte. Now Copasa has now more flexibility to operate according to the availability of reservoirs and demand from served population.

Entities Involved

- Copasa (Water company)
- Public Ministry of Minas Gerais
- Federal Public Ministry
- Minas Gerais Government

100%
Status: concluded



Implementation of basins' interconnection

Fevereiro de 2020

Vale Informa

Vale inicia obras de adutora em Belo Horizonte

A Vale se comprometeu a construir uma adutora com 2 km de extensão no bairro Glória, em Belo Horizonte, que vai interligar os sistemas de abastecimento hídrico da bacia do rio Paraopeba ao da bacia do rio das Velhas.

A nova estrutura, que começa a ser construída na próxima semana, visa aprimorar o atual sistema de distribuição da Copasa, contribuindo para garantir o abastecimento de água em toda Região Metropolitana de Belo Horizonte.

As obras têm previsão de serem concluídas em março e, posteriormente, o sistema de interligação será entregue para o município e operacionalizado diretamente pela Copasa.

As medidas constam no Termo Aditivo ao Termo de Compromisso firmado em 08 de julho de 2019 pela Vale com os Ministérios Públicos Federal e Estadual, Estado de Minas Gerais, Copasa e Cemig, após o Rompimento da Barragem I, da mina Córrego do Feijão, em Brumadinho.

— Traçado da adutora
● Interligação no Sistema rio das Velhas
● Interligação no Sistema bacia do rio Paraopeba

Mais informações: www.vale.com/prestacaodecontas
Central de Atendimento 0800 031 0831

Newsletter sent to construction work neighbors on first phase of the project

Pará de Minas' water pipeline

The *circa* 100 thousand inhabitants of Pará de Minas will have their water supply regularized in July with the beginning of the new collection system operation we built at Pará River. More than that, the town will double its capacity of supply as soon as the water collection stopped in Paraopeba river returns to operation.

80%

Status: in progress
Estimated conclusion: July 2020



To watch, access:



Entities Involved

- Pará de Minas City Hall
- Águas de Pará de Minas Concessionaire
- Public Ministry of Minas Gerais
- Igam

Next steps

After the conclusion, the enterprise will be delivered to Pará de Minas City Hall and it will be operated by Águas de Pará de Minas Concessionaire.

Media release



Vale Q&A

Is it true that Pará River might get dry with the new collection system that is being built?

No. The new collection system doesn't threaten the river, according to the study developed and registered at Minas Gerais Institute of Water Management (Igam).

Question sent through Estado de Minas newspaper

Reactivation of wells in the north vector in Belo Horizonte

Around 81 thousand inhabitants in Lagoa Santa, Vespasiano and São José da Lapa will benefit from the reactivation of the underground wells on the region. This action allows Copasa to use water from the wells instead of reservoir volume, reducing the risks of water shortage.

100%

Status: concluded

Entities Involved

- Copasa
- Public Ministry of Minas Gerais
- Federal Public Ministry

Installation of water filters for the riverside communities and local farmers

Riverside people who are unable to use Paraopeba River will have a definite solution to access drinking water. 250 high performance filters are being installed to treat the water from underground wells, serving around 10 thousand people from 22 cities.

60%

Status: in progress
Estimated conclusion: December 2020

Media release



For further information, Access:



Water supply

Since the interruption of water collection in Paraopeba River, in January 2019, we have been guaranteeing water supply of drinking water to the people through the delivery of bottled mineral water and daily distribution through tank trucks. We also developed a hydric structure with water tanks to guarantee storage and transportation of water. We have already distributed over 750 million liters of water in 16 affected cities.

100%

Status: concluded



Water distribution

Drilling and reactivation of wells

The population of 15 cities received around 120 deep wells for local water supply

Pará de Minas	Betim	Papagaios	Barão de Cocais	Mário Campos
Paraopeba	Esmeraldas	Pequi	Brumadinho	São Joaquim de Bicas
Caetanópolis	Fortuna de Minas	Pompéu	Maravilhas	São José da Varginha

Social and urban infrastructure construction works

As part of the process of recovery and from the beginning of conversations with the communities and public authorities, we are investing in the construction of social facilities, such as Family Health Center, Day Cares, Health Center for Children with Special Needs, a multi-sport court and a community center. Infrastructure construction works are being made as well, such as roads maintenance and paving, public lighting and sewage system installation.



Day Care and Family Health Center – Parque da Cachoeira Community

90%

Status: in progress
Estimated conclusion: July 2020

Construction works progress in Brumadinho:

- **Alberto Flores Bridge** – concluded
- **Alberto Flores Walkway** – concluded
- **Drain and paving of pathway in Tejuco** – concluded
- **Well drilling, distribution line and treatment systems / Parque da Cachoeira** – concluded
- **Water pipeline / Córrego do Feijão** – concluded
- **Health Center for Children with Special Needs / Bela Vista** – in progress
- **Day Care – Cohab** – in progress
- **Day Care – Palhano** – in progress
- **Sewage Treatment System / Pires** – in progress
- **Paving and signaling of road connecting Córrego do Feijão to Alberto Flores** – in progress

Social Dialogue



In Parque da Cachoeira, during the participative social talks, a list of demands was defined with a priority order established by the community. Currently, we are about to finish two of the solicited demands presented: A Day Care and a Family Health Center. A new Community Center and a soccer field will also be built.



Dialogue with Parque da Cachoeira community



Road between Córrego do Feijão and Alberto Flores

Roads Maintenance Actions

Maintenance of non-paved roads

960 km of roads received maintenance.

1.218 km of the roads receive regular maintenance.

Coverage: Brumadinho, Nova Lima, São Joaquim de Bicas, Mário Campos, Betim, Esmeraldas, Juatuba, Florestal, Pará de Minas, São Gonçalo do Pará, Pequi, São José da Varginha, Fortuna de Minas, Maravilhas, Papagaios, Paraopeba, Curvelo, Pompéu e Três Marias.

Maintenance of paved roads

6,350 tons of asphalt placed in “patching” operations and corrections.

54.544 m² of área covered.

Coverage: Brumadinho, Juatuba, São Joaquim de Bicas e Pompéu.

Road Humidification

54 thousand km of roads humidified

Coverage: Brumadinho, Mário Campos e São Joaquim de Bicas.

VALE Q&A

Works have caused much bothering because of heavy-weight traffic of trucks and heavy machinery. What is Vale doing to reduce those issues?

We know every construction work brings discomfort for the neighborhood. Based on that, we have adopted a series of measures aiming to reduce impact from the activities, such as maintaining the trafficways humid to reduce the dust levels, enclose equipment engines to muffle the sound and concentrate the noisiest actions during the day.

Question sent via Contact Center

Vale Informa

14 de agosto de 2019

ACOMPANHE AS AÇÕES DA VALE EM BRUMADINHO E REGIÃO

Novo acesso vai reduzir trânsito de caminhões nas comunidades

Já está em uso novo acesso construído pela Vale para trânsito exclusivo dos caminhões envolvidos na remoção do rejeito, em Brumadinho.



Com essa ação, haverá uma redução significativa de trânsito de veículos pesados nas vias locais, diminuindo o impacto de poeira e ruído para as comunidades e usuários.

A via, implantada onde funcionava o antigo ramal ferroviário, tem cerca de 3,6 quilômetros de extensão e começa próximo à ponte da Avenida Alberto Flores e vai até a área da mina Córrego do Feijão

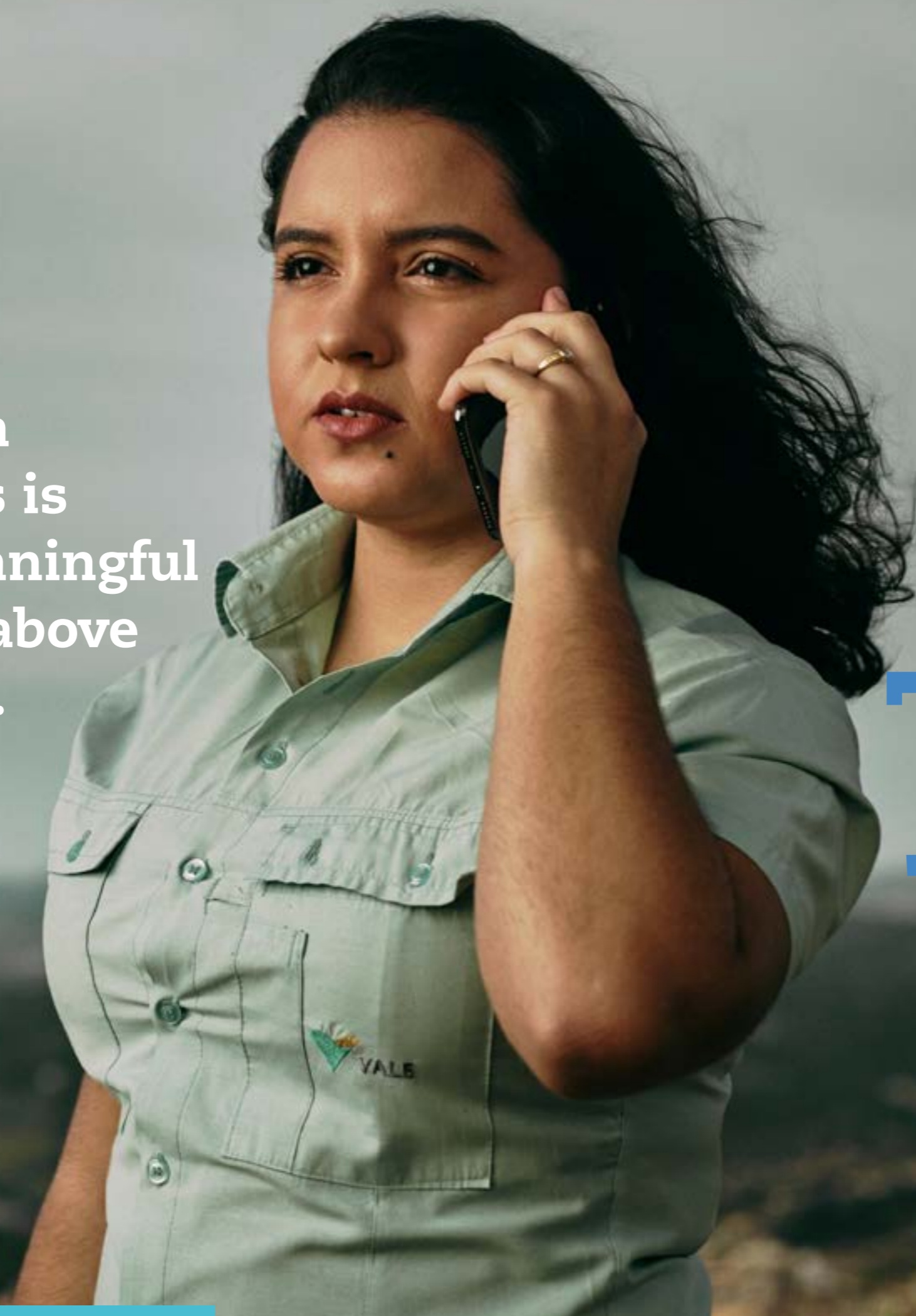
Mais informações: www.vale.com/brumadinho
Central de Atendimento 0800 031 0831





Relating with communities is building meaningful stories and, above all, legacies”.

Débora Ribeiro,
Community Relations
Analyst (CR)



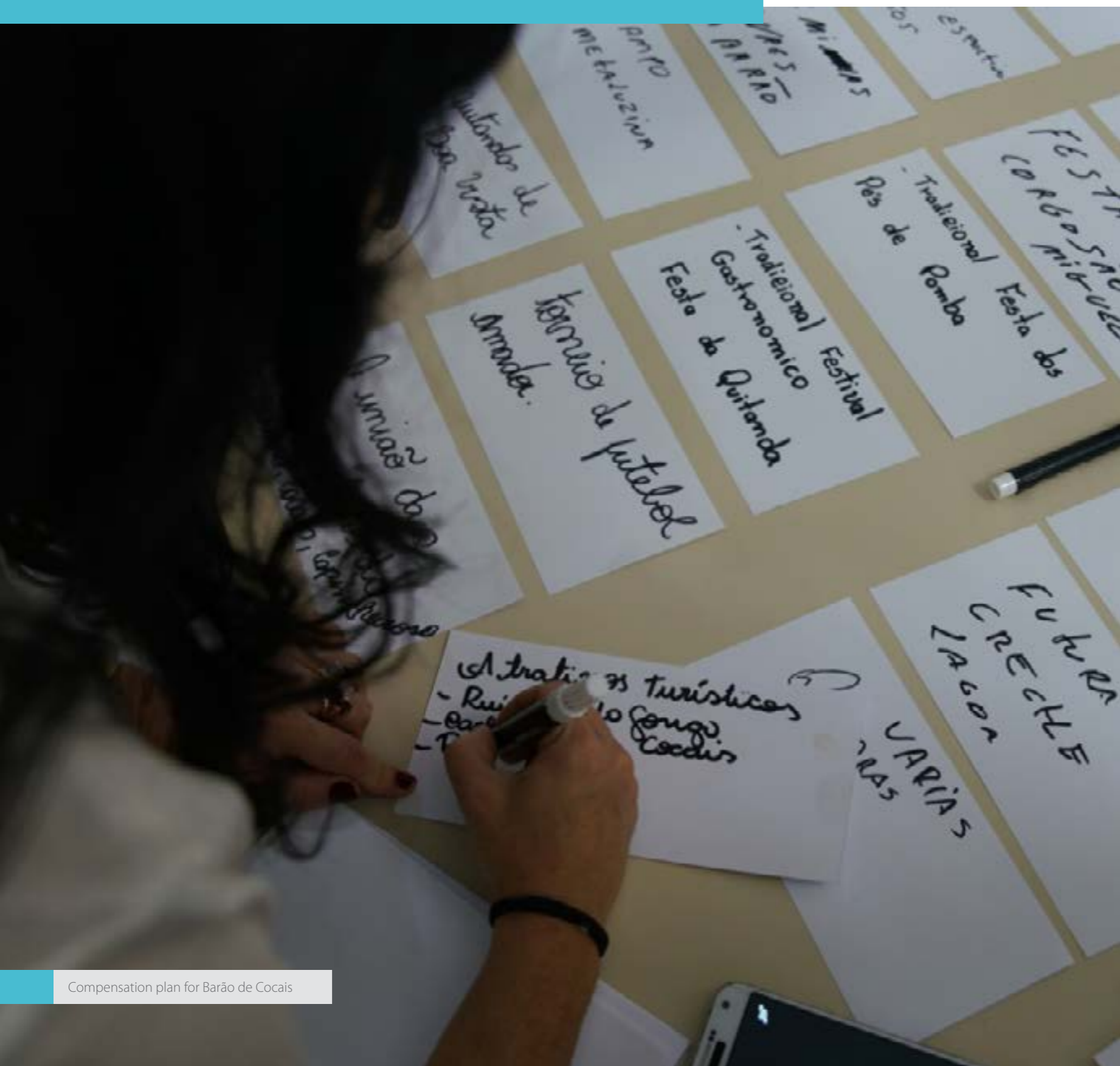
Evacuated Territories



What are we doing to bring evacuated communities back to normalcy?

Since the collapse of the B1 Dam, in Brumadinho, we have adopted more conservative standards in the assessment of our dams. Thus, we are reacting to the slightest sign of interference in the territories, carrying out preventive relocations or emergency evacuations when recommended.

Aware of the effects that these actions have on people, we seek to welcome them with the highest care and permanent dialogue to minimize impact on communities and being able to offer the best assistance possible, always respecting the particularities and desires of each family.



Compensation plan for Barão de Cocais

Territories

Barão de Cocais

Since February 2019, when the emergency evacuation of the Vila do Gongo, Socorro, Piteiras and Tabuleiro communities took place, due to the elevation of the emergency level of the Sul Superior Dam, of the Gongo Soco mine, we have sought to respond, with agility, to the demands of population.

Joint Constitution of the Barão de Cocais Compensation Plan

With the purpose that the entire community and public authorities in Barão de Cocais could effectively participate in the choices of compensation actions in the city, we conducted a wide public consultation process in May 2020. More than 1,200 residents participated and suggested initiatives to improve living conditions, bring social well-being and promote sustainability to the local economy.





Construção do Plano de Compensação de Barão de Cocais



The action is part of the Impacted Territories Development Plan, presented in September 2019 with investments in the order of R\$ 190 million for three territories (Barão de Cocais, Itabirito and Macacos).

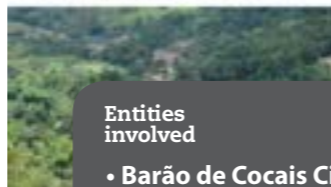


Comprehensive Support

Currently, 156 families in the Self-Rescue Zone (ZAS) live in houses rented by the company in a process that had the active participation of population.

Another 41 families in the Secondary Security Zone (ZSS) were relocated to hotels and family homes, but have now returned to their original homes. Evacuated families receive 1 minimum wage per adult per month, ½ per teenager and ¼ per child. Altogether, 574 residents are guaranteed assistance. We maintain regular assistance to all of them

Media release



Entities involved

- Barão de Cocais City Hall
- City Council
- Local associations

Next steps



The proposals are being analyzed by a Participatory Monitoring Committee, composed of representatives of the civil society, public authorities and Vale and based on technical criteria.



through specialized teams. To date, we have completed over 11,000 requests and made 13,000 medical visits and psychosocial care.

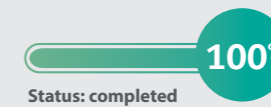
Those interested in discussing their indemnification will continue to be heard by the company. Due to the Covid-19 pandemic and with the objective of preserving the health of the population and their workers, attention service will be made by videoconference, as long as the person agrees, and their lawyer participates.

Health improvements

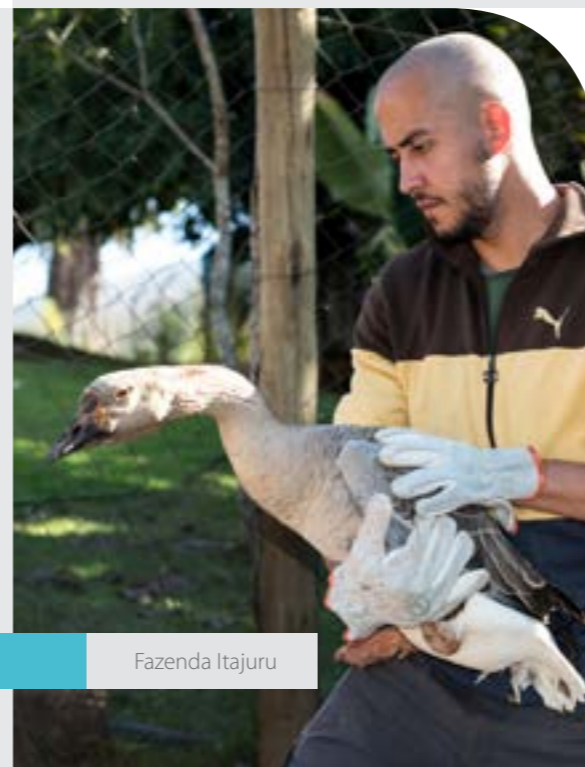
In April, we donated an ambulance in the amount of R\$ 200,000 to the City Hall, which has also been helping the municipality to cope with the Covid-19 pandemic. We also donated equipment and operational supplies to the Barão de Cocais Mobile Emergency Service (Samub). We transferred over R\$ 6.2 million to the city for the temporary hiring of over 30 servers for the SUS network, in addition to the monthly transfer of R\$ 350 thousand to the Municipal Hospital and to the structuring of the Basic Health Unit (UBS) in Serra Vila neighborhood.



Reformed Emergency Unit (UPA) – Barão de Cocais City Hall



- ### Entity Involved
- Barão de Cocais City Hall



Fazenda Itajuru

Animal Care

A total of 1,792 animals we rescued from relocated communities are in structures rented by the company, in addition to hotels for pets and veterinary clinics. They are receiving all care by our specialized team and can receive regular visits of their tutors. As a whole, we have already supplied 1.5 tonnes of food and administered 49 thousand doses of vaccines and 14 thousand doses of medicines.

- ### Entities Involved
- Barão de Cocais City Hall
 - State Department for the Environment
 - Ibama
 - Public Ministry

Vale Q&A

When will the residents of Vila do Gongo be able to return to their homes?

The return of the Vila do Gongo community may occur after final evaluations of the newly built containment structure, respecting the wishes of each family unit. **Question asked to a Community Relations professional (CR)**

Siren System Monthly Test

To check the operation of the siren system and ensure the safety of the population and workers, we carry out a monthly siren test for the Sul Superior and Sul Inferior Dams. The action is recommended by the Ministry Public of Minas Gerais' audit.

São João River Dredging

An old claim of the population of Barão de Cocais, we negotiated with the city government the dredging of the São João River and the São Miguel and Corta Goela streams. The work is being funded by Vale and carried out by the city hall, in accordance with the Term of Commitment signed between the parties.

Approximately R\$ 7.5 million will be invested. The action includes the cleaning of accumulated sediments, silt removal, enlargement, unblocking and removal of materials, which will reduce the risk of flooding and carrying sediment along water courses, increasing the safety of the population and the environment.



Dredging - Barão de Cocais City Hall



Status: In progress
Estimated conclusion:
November 2020

Entity Involved
• Barão de Cocais City Hall

School reform

We have already completed the renovation of the Coronel Cândia School, which covers 400 pre-school children, as agreed with the school community in the municipality. Among the interventions, which required investments of R\$406 thousand reais, painting of classrooms, the kitchen and the wall, installation of doors in the bathrooms, glass replacement, in addition to the provision of water tanks and restructuring the Data Network.



Status: completed

Entities Involved
• Barão de Cocais City Hall
• Municipal Secretary of Education



Social Dialogue

This work was requested by a committee of students' parents after the Sul Superior Dam raised its level, and children were transferred to Universidade Antônio Carlos (Unipac). In addition to the renovation, it was also requested to build a new school in the city. The request will be granted by Vale, and the details for the execution of the work, such as the location to be built the new unit, are under discussion with the community and the public authorities.



New School in Macacos

Macacos (Nova Lima)

The rise in the emergency level of the B3 / B4 Dams of the Mar Azul mine required the evacuation of 125 families living in the Self-Rescue Zone (ZAS) in February 2019. In January this year, we conducted three more families living in the region to other preventive housing, after preliminary studies on the review of the potential impacts from the dam rupture.

Comprehensive Support

Those families currently live in hotels and temporary housing funded by Vale. Since April, these families and the other residents of the region have received 1 minimum wage per adult, 1/2 minimum wage per teenager and 1/4 per children monthly, being deposited in their savings accounts. In total, 3,131 people are being covered by the benefit. Before that date, the community received daily vouchers of R\$ 40 per person to be used exclusively in local food establishments.



Our comprehensive support includes monitoring by a multidisciplinary team, which has already carried out over 10,000 psychosocial care visits and medical care referrals. Basic health demands, in turn, are promptly met when accompanied by an opinion issued by a specialist in the area, whether from the public or private service network, to ensure the safety and well-being of the people involved. Indemnities for material and moral damages are negotiated individually. Due to the social distancing recommendations, service is being done by videoconference.

Vale Q&A

Why was the aid amount reduced?

The substitutive payment implemented in Macacos considers the same values practiced in Brumadinho and other territories, as a result of the agreement executed with the Public Defender's Office and the Public Ministry in 2019. After the adoption of the payment, it was possible to stop the distribution of food vouchers, which had an inefficient operation and came to represent a high risk of agglomeration of up to 3,000 people, every Monday – an unthinkable situation in these pandemic times.

Question sent to the press, on March 25, by Record Minas

Animal Care

About 330 animals rescued from ZAS remain under the care of a team of 90 veterinarians, biologists and assistants. Tutors can make regular visits to Fazenda do Engenho and the hotels and veterinary clinics where the animals are accommodated. Altogether, we have already performed over 30 thousand visits, including exams, surgeries, application of medicines and vaccines, and we distributed 142 tons of food and supplies.

Entities Involved

- Nova Lima City Hall
- State Department for the Environment
- Ibama
- Public Ministry

Local development

Based on the constant dialogue with the community, we launched the Urban Requalification Plan of Macacos to meet the demands and deficiencies of the region. It integrates the Affected Territory Development Plan, which funds surpass R\$190 million, covering for Barão de Cocais and Itabirito.

Social Dialogue

The construction work is fruit of a commitment established with the Commission of Mothers and with the Department of Education of Nova Lima after the interruption of classes in consequence of emergency level elevation of B3/B4 Dam.

Although the old school was not inserted in the ZAS, the community asked for, as a preventive measure, the transference of children to the highest part of the town. In May 2019, over 190 children ages between 4 and 11 got back to school in a temporary structure built by Vale in a land provided by Instituto Kairós to fully serve the students' needs.

The process of building a new school demanded five meetings with the Commission of Mothers, which decided for a safe land in Capela Velha neighborhood, donated by the City Hall. The subject was once again brought to discussion in three territorial meetings in Capela Velha with local community presence, Vale, City Hall and Public Ministry and four public hearings were held.

Launched in August, last year, the project was adjusted to the requirements of the Ministry of Education (MEC) and to the claims of the district inhabitants, the school principal, Vânia Baia, the teachers, servers and students who even had the chance of visiting the works.

Building the new school

One of the main demands from the community, the new Rubem Costa Lima Municipal School, located in Capela Velha district, will be inaugurated in August, with expanded capacity from 190 to 400 students, from nursery to middle school. The structure was conceived to receive, in the future, high school and Education for Adults and Young People (Educação de Jovens e Adultos – EJA), according to Nova Lima Education Department. The school was totally elaborated on sustainable principles of recycling resources, which will allow reduction of costs with electric power and water.



It was a project built by many hands. It will be a model school teaching the future within Minas Gerais state”

Vânia Baia, School Principal at Rubem Costa Lima Municipal School

Entities Involved

- Nova Lima City Hall
- Public Ministry

80%

Status: in progress
Estimated conclusion: August 2020

New school works in Macacos

Fazenda do Engenho



Chapel Revitalization

Thirty-two years after going through the last renewal, São Sebastião Chapel, built in 1718, is being completely revitalized by Vale. The project covers roof maintenance, removal of the old plaster and renewal of the external wall, besides internal and external painting, electric and hydraulic revision, landscaping, lighting and renewal of the men and women restrooms, made accessible.

80%

Status: in progress
Estimated conclusion: August 2020

Entities Involved

- Nova Lima City Hall
- Iphan
- Public Ministry

Social Dialogue



The whole work has been followed by the parish community and by the Estate Council of Nova Lima. At the community's request, the opening will happen during the traditional festivities in homage to patron São Sebastião in August.



Revitalization of São Sebastião Chapel

Tourism Development

Under request of Macacos' Traders Commission, which rely on the flow of visitors to keep their businesses, we enabled a broad promotional campaign to promote tourism in the region (access www.vempranovalima.com.br). We also supported the Carnival 2020 in Macacos, with infrastructure and Carnival groups' funding and more attractions.

The support to the Carnival was a City Hall claim, which was promptly done by Vale. Data from the Department of Tourism of Nova Lima have shown an occupancy rate of nearly 80% in inns and hotels during the period, the best rate over the whole last year of tourism resumption in the city.

100%

Status: concluded

Entities Involved

- Nova Lima City Hall
- Department of Tourism of Nova Lima
- Public Ministry



Carnival and advertising campaign in Macacos



Return of Macaco's fair – Promotion by Instituto Mani

Return of the local fair

Over 30 local exhibitors have returned to their activities at the traditional Producers Fair of Macacos, with homemade sweets and greengroceries, handcrafts, and countryside products.

The event is held one Saturday per month and contributes to income generation of approximately 120 households. We helped the event by providing infrastructure support.

100%

Status: concluded

Entity Involved

- Nova Lima City Hall

Itabirito

The elevation of emergency level of Forquilhas Dam, at Fábrica mine, had as a consequence evacuation of five families from Self-Rescue Zone (ZAS) and other seven families from Secondary Security Zone (ZSS) in February 2019.

The families from the ZSS will remain in rented houses and will be able to return to their homes as soon as the contention works in Itabirito end.

Integrated assistance

All the families from the ZAS have been indemnified based on the Term of Commitment celebrated by Vale with the Public Defender's Office of Minas Gerais. Previously, the families received R\$5,000 for emergency spending and accommodation in housing rented by the company.

Nine people indemnified are receiving help to plan the future in their new socioeconomic realities through the Program of Comprehensive Support for Affected People, launched in November 2019. We created the program to guide people interested in a conscientious use of the grants paid for buying property, financial education, rural technical assistance and psychosocial care.

Animal care

Over 50 professionals take turns in the care of the 300 animals remaining from the 648 rescued and sheltered in Fazenda Matute, located in the rural area of Itabirito. Among them there are chicken, ducks, horses, donkeys, oxen, cows, geese and turkeys. Altogether, we have performed almost 2,500 veterinary care services and have served 7 tonnes

of animal food and supplies. Fazenda Matute is constantly improving. This year, we have set up new coops and horse arena so they can exercise, besides doing adequation of storage locations and building a parking lot.



Itabirito River Dredging

An old claim of the community, the dredging of parts of Itabirito River was executed in partnership with the City Hall, in the end of 2019, with resources summing up to R\$350 thousand. The action was fundamental to restrain the water volume and to avoid floods during the pouring rain which devastated Minas Gerais this year in January.

ENTITY INVOLVED

- Itabirito City Hall

100%

Status: Concluded

Sports Court Renewal

Over 100 children will benefit from the sports court renewal in José Estevão Braga and Padre Antônio Cândido municipal schools, in Engenheiro Corrêa, a district in Ouro Preto, and São Gonçalo do Baçõ, in Itabirito, respectively. The works will continue to obey all the safety recommendations in the fight against Covid-19. Both will be concluded before classes are back, according to a municipal decree.

Entities Involved

- Itabirito City Hall
- Education Department of Itabirito

90%

Status: in progress
Estimated conclusion: July 2020

Social Dialogue

The sports court renewal was indicated as priority by community committees organized by local leaders, school principals and students' parents. In Engenheiro Corrêa, for instance, three meetings were carried out before the investment.



Support to the Carnival

In the beginning of this year we established a partnership with Itabirito City Hall, where inhabitants and tourists could enjoy the traditional festivity of Carnival. Besides support with infrastructure, we took care of revelers' safety by stopping vehicles so civil defense could take action and by distributing folders on prevention of risks and other useful information.

Entities Involved

- Itabirito City Hall
- Civil Defense
- Public Ministry



Ouro Preto

To start the works of decommission of Doutor Dam, it was necessary to ensure, in first place, the safety of 76 families from Self-Rescue Zone (ZAS) and the next 30 meters in the communities of Antônio Pereira and Vila Antônio Pereira. In April, obeying the Emergency Action Plan for Mining Dams (Plano de Ação de Emergência de Barragens de Mineração – PAEBM), the reallocations were intensified, once the structure was declared under a level 2 emergency.

Those residents received grants from Vale in the value of R\$5,000 for emergency expenses and have counted on a monthly assistance of 1 minimum wage per adult, ½ minimum wage per teenager and ¼ per child. There is no prediction for the return of the families to their homes.



Press conference



People had active participation in choosing their housing so the impact on the changes could be reduced. The properties were handed over renewed, clean, disinfected and supplied with food and hygiene products.

Social Dialogue



The announcement of decommission works and the process of removing families was done in association with the City Hall and Municipal Civil Defense in a press conference in February. There were also meetings with leaders and announcement of stages through booklets and WhatsApp. During the whole process, residents could clarify their issues in Information Points installed in the communities and the Customer Care as well. Those interested in seeking consensual solution for compensation are being assisted virtually. As soon as the recommendations of social distancing finish, a physical office will be opened in Ouro Preto.

Vale Q&A

Will Vale buy the properties from the families that were relocated?

The families are being contacted by the staff in charge of talking about the subject individually. Until the process of indemnification is concluded, these families will remain in temporary housing.

Question asked by resident to our Community Relations (CR) team



Temporary structure of the school in Conselheiro Lafaiete

Entities Involved

- Conselheiro Lafaiete City Hall
- Civil Defense
- Public Ministry

Vale Q&A

Is Vale interested in using the land of Meridional School for other purposes?

We emphasize that Vale has no intention of using the area of Meridional School for expansion of operations or for any other mining purpose.

Question asked by students' parents during meeting

Conselheiro Lafaiete

In March, after technically reevaluating the stability of a waste dump in Morro da Mina, we preventively transferred the students from Meridional Municipal School, which is next to the structure. We handed the temporary school on the facilities of Presidente Antônio Carlos University Center (Unipac), with an area totally adapted to the necessities of 648 children and teenagers, with ages 4 to 15, including meeting accessibility concerns.

The classes were interrupted due to Covid-19. As the activities return, transportation of students and servers will also be provided by Vale that, in a partnership with the City Hall, improved the road paving between the old school and Unipac and revitalized the roundabout that is in front of the deactivated unit. Finally, meeting community requests, we also gave away our land and we will build a new school in the same neighborhood as the old one. The project is under a preparation phase.



Social Dialogue

The transference was discussed in three meetings with a commission of parents and students, teachers and servers, as well as the City Hall, Civil Defense and the Public Ministry. The representatives followed-up the building of a temporary facility by paying constant visits.

Dialogue with the community of Conselheiro Lafaiete

Rio Preto

Five families living in the Self-Rescue Zone (ZAS) of Mello Small Hydroelectric Plant (PCH), in Rio Preto (MG) and Valença (RJ), were advised to leave their homes and to stay in hotels after a possible uncontrolled water leakage which was detected in the PCH structure in February. The preventive measure lasted one day only, enough time for the technical inspections to confirm that the soil was only soaked due to the heavy rains in the region, which would not cause risks to the inhabitants. With Vale's assistance, the families could return to their houses.



Media release

- Entities Involved
- Rio Preto (MG) City Hall
 - Valença (RJ) City Hall
 - Municipal Civil Defenses
 - Firefighting Department
 - Military Police
 - Public Ministry

A study made by independent auditing, together with the Public Ministry of Minas Gerais, confirmed in May 2020, that the dam meets all the stability requirements recommended in the regulations. The structure remains stable.



Social Dialogue

Locals participated in security lectures, training and emergency drills. Over 300 people have already been involved. We also established a mobile point of information that travels between the two towns, answering the questions and providing support to specific demands of the inhabitants.



Simulado



Our preventive action in the face of the pandemic is in line with the company's new view on people's safety".

André Quintão,
Occupational M.D.



What are we doing to help the country fight the new coronavirus?

At a time when the world unites to fight the advancement of the new coronavirus, we also offer our help for the health and safety of Brazilian society, Minas Gerais' people, the communities of Brumadinho and the cities where people have been relocated from their homes preventively. The following is a summary of our contributions to date.

Covid-19

Covid-19

We contribute to the fight against Covid-19

Our help to Brazil

We donated 5 million rapid test kits to the federal government for Covid-19 detection and over 15 million masks, gloves and other protective equipment for healthcare professionals. In states where we operate, we donated 14.5 million units of test kits and protective equipment to those state governments.

We have also helped with the construction of three field hospitals, reforming health units and purchasing equipment, such as fans, hospital beds and monitors. We also donated 81 thousand cleaning material kits, in addition to 100 tonnes of gel alcohol.

We launched a US\$1 million dollar incentive project (about R\$ 5 million reais) in partnership with Hospital Israelita Albert Einstein and the Mater Dei Health Network. The money is being used to finance innovative solutions which will help reduce the impact of Covid-19 across the country. We currently support indigenous communities to achieve social isolation through the construction of quarantine centers, logistical support and donation of mobile tents. Besides that we delivered cleaning kits to 10,000 indigenous families from Minas Gerais, Espírito Santo, Maranhão and Pará and 475 Quilombola and fishermen families from Rio de Janeiro.



Covid-19 Kits Delivery

Media release





Hospital da Baleia

Our help to Minas Gerais

To help the government of Minas Gerais in the hard fight against the new coronavirus in the State, we negotiated the advancement of R\$500 million from the final agreement to redress the effects of Brumadinho's rupture, which is still being discussed. The resource is already being applied to fight the advances of the pandemic.

The government also received 7,200 personal hygiene kits and over 32,000 liters of cleaning supplies to help fight the pandemic in 14 state prisons. We helped two hospitals in Belo Horizonte (Eduardo de Menezes and Hospital da Baleia) with resources in the order of R\$ 10 million to expand the hospital wings. We donated 924 thousand units of protective equipment (masks, gloves and aprons) and 55 thousand rapid test kits from the company. We also thought of a way to support the local economy.

For that purpose, we hired 15 small clothing companies, uniform factories and social projects in seven towns to produce nearly 800 thousand fabric masks. The investment amounts to R\$3 million.

We also provided Mariana City Hall with three ambulances with an Intensive Care Unit (ICU) and Santa Casa de Ouro Preto with five air-conditioned containers and stretchers.

Media release



Our help to Brumadinho and towns in Paraopeba River basin and in evacuated areas

Support to health professionals

Health professionals will only be able to serve the population if they are also safe. To help with this, we donated thousands of rapid tests, masks, gloves and other items to be used by these professionals in Brumadinho and in the towns of Paraopeba river basin and in evacuated areas.



Delivery of PPE

Brumadinho

- 2,400 rapid tests
- 2,000 N95 masks
- 38 thousand surgical masks
- 6,200 aprons
- 200 thousand gloves

Nova Lima

- 9,600 rapid tests
- 4,000 N95 masks
- 100 thousand surgical masks
- 15,600 aprons
- 71 thousand gloves
- 100 goggles

Ouro Preto

- 4,800 rapid tests
- 6,000 N95 masks
- 160 thousand surgical masks
- 25 thousand aprons
- 600 goggles
- 29 thousand gloves
- 15 thousand liters of gel alcohol
- 2,000 liters of liquid alcohol

Barão de Cocais

- 2,400 rapid tests
- 2,000 N95 masks
- 46 thousand surgical masks
- 7,320 aprons
- 2,500 gloves
- 1,000 bottles of gel alcohol

Itabirito

- 3,600 rapid tests
- 4,000 N95 masks
- 96 thousand surgical masks
- 15,120 aprons
- 5,500 gloves
- 100 goggles

São Joaquim de Bicas

- 500 liters of liquid alcohol
- 500 liters gel alcohol
- 1,000 liters of bleach

Igarapé

- 1,000 liters gel alcohol

Bonfim

- 1,000 liters gel alcohol

Pompéu

- 1,000 liters of gel alcohol

Vale
Q&A

Many of Vale's outsourced companies bring in foreign workers, and I hear that they are bringing the new coronavirus to Brumadinho. It is true?

One of the main measures taken by the company during the pandemic is the application of mass tests on employees and service providers to identify those who have had contact with the Covid-19 virus and are asymptomatic. The measure allows everyone to be well-oriented on the necessary care, thus contributing to reduce the number of cases in the community. Testing is considered by the World Health Organization as one of the most efficient lines of defense against the new coronavirus. After the tests, results are reported to competent entities.

Question sent via Facebook

Adjustments in reparation work

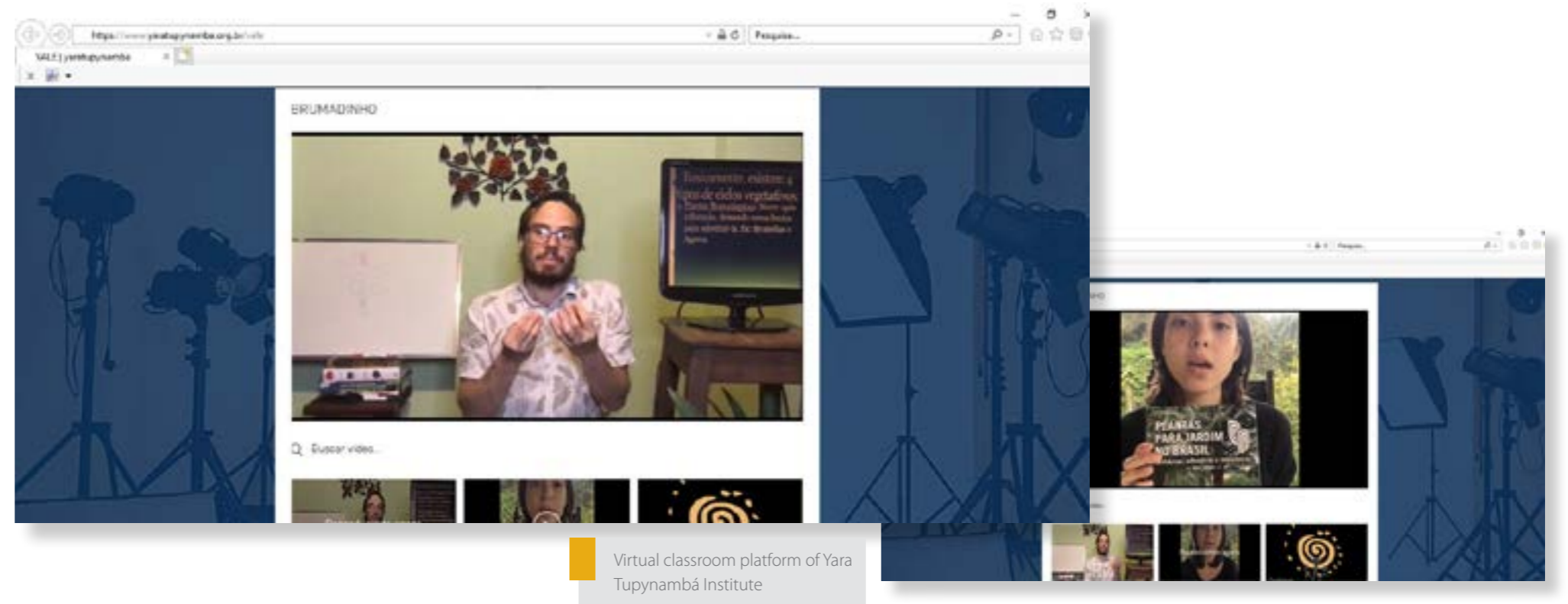
Our reparation work for the rupture of Dam I has also adapted to the reality imposed by the pandemic of the new coronavirus. Part of the administrative team has been working from home since March, also have the people who fall into Covid-19's risk group.

Activities considered essential will continue in progress, with a reduced number of workers and obeying strict regulations to protect professionals and communities.

Service to the community

In this scenario, we had to close the Service Points (PAs), individual indemnification offices and Emergency Indemnity Registration Points (PRIs). But people who seek information or help was not left without assistance:

Community Relations (CR) analysts are still available by phone, and opening protocol registry continues by calling 0800 031 0831. Meetings to address individual indemnities are being held online.



Virtual classroom platform of Yara Tupynambá Institute

Social projects

Social projects supported by Vale found alternatives to continue in action. The Confio ateliê, of manual arts of women from Córrego do Feijão, for example, created the campaign Quarantine of Affection (Quarentena do Afeto), which continued the project's classes virtually and opened vacancies for learning crochet. And the over 90 students from the gardening classes and construction of the Yara Tupynambá Institute, in Brumadinho, started to take classes by cell phone or computer.

Mask for All

Over 40 seamstresses from Brumadinho participated in the Mask for All project, which produced 30,000 reusable masks. Besides the extra income, the professionals received technical and legal advice on

formalizing the activity as a Individual Micro Businessperson (MEI). The project was designed by Vale in partnership with Yara Tupynambá Institute and Associação Talentos Regionais, and initially the items were distributed among Vale employees and outsourced in Brumadinho.



Interruption of Searches

Searches in Brumadinho were halted by the Firefighting Department, in compliance with the determinations of competent entities in the face of the Covid-19 pandemic. Vale will continue to support the Firefighters in this important activity.

Prevention against Covid-19 on work fronts

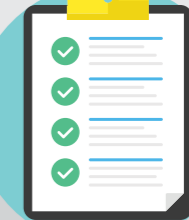
Given them being emergency or security actions, the repair and decommissioning and containment work fronts can't stop. For that reason, since the beginning of the Covid-19 pandemic in Brazil, workers operating in such locations have been subjected to a series

of precautions to prevent contamination by the new coronavirus. All measures to increase the protection of people are in line with the health authorities' recommendations. See below:

Arriving at work



All undergo an interview for screening and measurement of temperature, on a daily basis, before starting the work journey.



We test employees and contractors who are in the field every 21 days.

During work



The cleaning of facilities, tools and equipment was reinforced, and all events and actions promoting crowding were canceled.



If a person is confirmed with the disease, everyone who contacted the employee will also be automatically quarantined.



If any person has any symptoms or reports having had contact with someone symptomatic or positive for Covid-19, that person is immediately released from work to preventive quarantine and will be followed-up by Vale's health team.



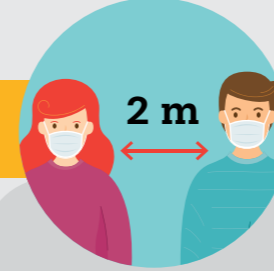
Bags and shoe soles are cleaned at the entrance of areas.



- On buses that transport workers, the capacity of vehicles was limited to 50%;
- There was an increase in the number of trips;
- Cleaning of the vehicle is made at each trip;
- Arrangement of passengers in diagonal and on identified seats;
- Availability of gel alcohol at the entrance of the vehicle is assured;
- Adoption of natural ventilation is granted;
- Guidance at bus stops for permanent reinforcement of the measures everyone should follow to protect their health and that of others.



- Nos refeitórios, foi adotado uso de:
- Marmitex;
 - Marcação no solo da distância na fila;
 - Aumento do horário de funcionamento para evitar aglomeração;
 - Uso de material reciclável;
 - Distância entre as mesas;
 - Mudança no atendimento, com apoio de uma pessoa específica para servir e controlar a higienização.



Face-to-face meetings were reduced and, when necessary, the minimum distance of 2 meters is respected.



Gel alcohol and guidance on the prevention of contagion were made available everywhere.



Vale also adopted the use of a fabric mask for its work fronts.

Read the QR Code and watch the video on the care taken during the pandemic in the works, in Brumadinho:



Business Team

Semesterly report on Vale's redress and development actions in the areas impacted by the rupture of the B1 Dam and in the evacuated territories.

Date: June 2020

President: Eduardo Bartolomeo

Special Director of Repair and

Development: Marcelo Klein

Communications Director: Julio Gama

Coordination, Editorial Project and

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Service Channels

Official Channels

Use these channels to clarify questions and stay informed about redress actions:

www.vale.com/reparacao

Customer Care: 0800 031 0831

Indemnification Channel: 0800 888 1182

Face-to-face service is suspended due to the new coronavirus pandemic. During this period, demands are received via digital channels or via the Customer Care.

Community Service Stations

Brumadinho

PA Central: Aurora Tênis Clube - Rua Presidente Vargas, 1.490

PA Parque da Cachoeira: Rua Francisco Jorge Diniz, 143

Barão de Cocais

Avenida Wilson Alvarenga, 535

Nova Lima (Macacos)

Praça 25 de Março, 1,010

Offices - Indemnity

Brumadinho

Public Defender's Office

Rua Oligisto, 197, Ipiranga

Opening hours: 10am to 12 pm & 1 pm to 5 pm,
Monday to Friday.

Vale Office

Rua Turquesa, 103, Planalto

Opening hours: 9am to 6pm,
Monday to Friday.

Nova Lima (Macacos)

Vale Office

Rua São Luiz, 181

Opening hours: 9 am to 6 pm
Monday to Friday.

Barão de Cocais

Vale Office

Rua José de Paula, 104 / 2nd floor, Vila Regina

Opening hours: 9 am to 6 pm
Monday to Friday.

Belo Horizonte

Vale Office

Rua Pernambuco, 1.077 / 4th floor, Savassi.

Opening hours: 9 am to 6 pm
Monday to Friday.

Interested parties must be accompanied by a Public Defender or lawyers.

