



(Left) Kamoakakula Project team members celebrate achieving 14 million hours worked without incurring a lost-time accident, and (right) Platreef's construction team members celebrate 365 days without incurring a lost-time accident – two highly significant achievements reflecting Ivanhoe's commitment to ensure all workers and contractors 'go home without harm' every day.

Building what will be **3 of the world's best mines** and exploring for the **next copper giant** in Southern Africa's legendary mineral fields

**WESTERN FORELAND**

Copper exploration

Democratic Republic of Congo's  
Central African Copperbelt

**KAMOA-KAKULA**

Copper mine development  
and exploration

Democratic Republic of Congo's  
Central African Copperbelt

**PLATREEF**

Mine development at  
platinum-group elements, gold,  
nickel and copper discovery

South Africa's  
Bushveld Complex

**KIPUSHI**

Zinc, copper, silver  
and germanium at historic,  
high-grade mine

Democratic Republic of Congo's  
Central African Copperbelt





**May 2, 2019:** Drilling extends strike length of the new, shallow, thick Kamoa North Bonanza Zone to at least 350 metres, with an implied strike length of at least 2.7 kilometres. Assays confirm copper grades up to 18.48% over 13.6 metres in the new discovery area.

Click [here](#) to read the news release.



Drilling a step-out hole at the Kamoa North Bonanza Zone. A fifth drill rig is being added to the Kamoa North drilling program to accelerate the delineation of this extremely high-grade discovery.







A crew from Titan Drilling Congo drilling hole 1522, a step-out hole located east of discovery hole 1450 at the Kamoa North Bonanza Zone.



Core from drill hole 1522, showing semi-massive to massive bornite at a drill hole depth of around 210 metres. Bornite is a valuable copper ore as it contains approximately 63% copper by weight.





Semi-massive chalcopyrite (high-grade copper mineralization) intercepted in a new hole in the Kamoa North Bonanza Zone. The core shown is from a drill depth of 206.8 metres.





Numerous minor construction activities are ongoing at the Kakula Mine and Kamoia camp. The focus is on the construction of accommodation units at both Kakula and Kamoia for employees and contractors.

Approximately 2,450 employees and contractors now are working at the Kamoia-Kakula Project as Ivanhoe and its partners fast track construction of the project's initial mine at the Kakula Deposit.





Construction of new accommodation for employees and contractors at the Kakula Mine. The work is being done by DRC-based MSAC Construction. The initial 1,000-bed 'Kakula Village' is expected to be completed in early 2020.



South Africa-based Master Drilling's raise-boring machine at Kakula's ventilation Shaft 1. The machine will drill a large-diameter vertical hole from surface to provide ventilation to the northern side of the underground Kakula orebody.



Constructing the concrete base for the large capacity ventilation fan that will be installed at Kakula's ventilation Shaft 1, once raise-boring is complete.





Drilling the pilot hole for ventilation Shaft 2 at Kakula, which will provide ventilation to the southern side of the Kakula orebody.





Kakula's newly commissioned security control room.



A jumbo drill rig in action at the bottom of the twin declines on the northern side of the Kakula underground orebody. The first two access drives (interconnected tunnels that provides access to ore zones) are approximately 220 metres from Kakula's initial, high-grade mining zone and are expected to intersect high-grade ore in August.





Excellent development progress is being made at Kakula's southern decline, that will provide access and ventilation to the southern side of the Kakula orebody.





Installation of supporting steel sets in Kakula's southern decline.



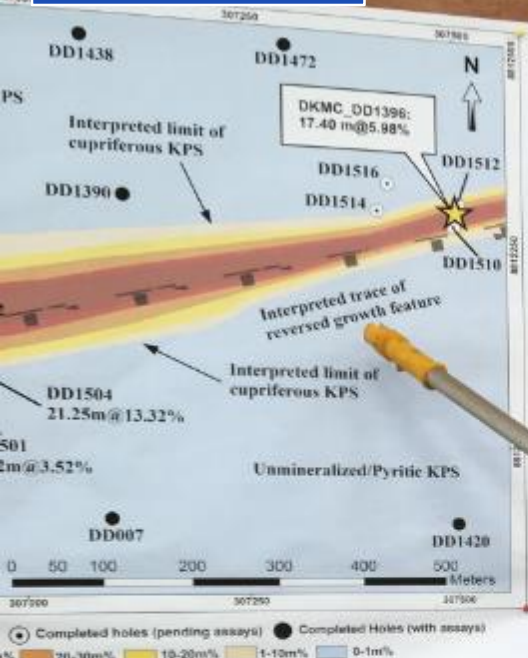


Nicolas Simard, Canada's ambassador to the DRC, visiting students at a school near the Kamoa-Kakula Project.

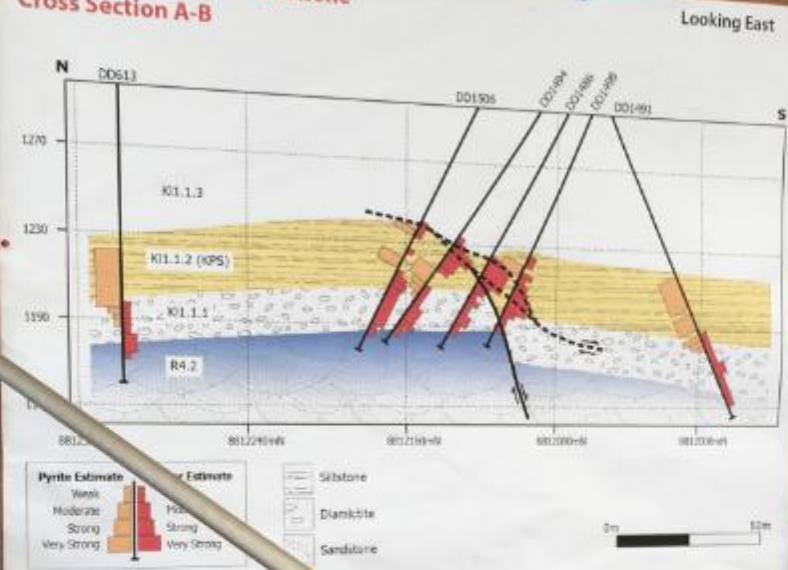


Donation of hand-washing buckets to students in the village of Musokantanda, near the Kamoa-Kakula Project. Proper hand-washing is one of the most effective strategies to prevent the spread of microbial infections and illnesses. The initiative is part of Kamoa-Kakula's community support program.





## Kamoa North High Grade Zone Cross Section A-B



David Edwards, Kamoa-Kakula's Geology Manager, explaining the geology of the Kamoa North Bonanza Zone to international investors during a recent site visit.

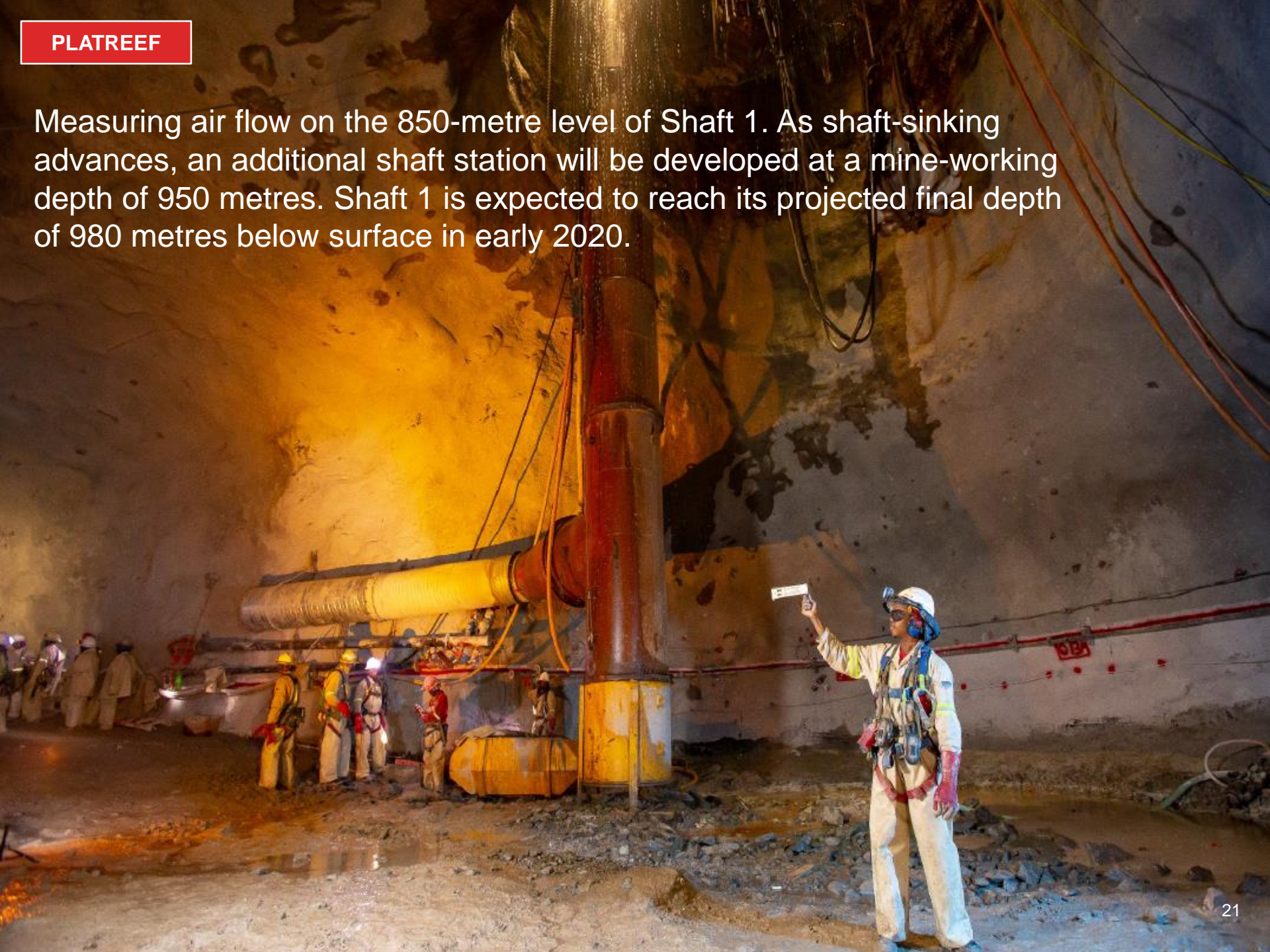




Shaft-sinking crew at Shaft 1's 850-metre level celebrating the completion of planned station development ahead of schedule.

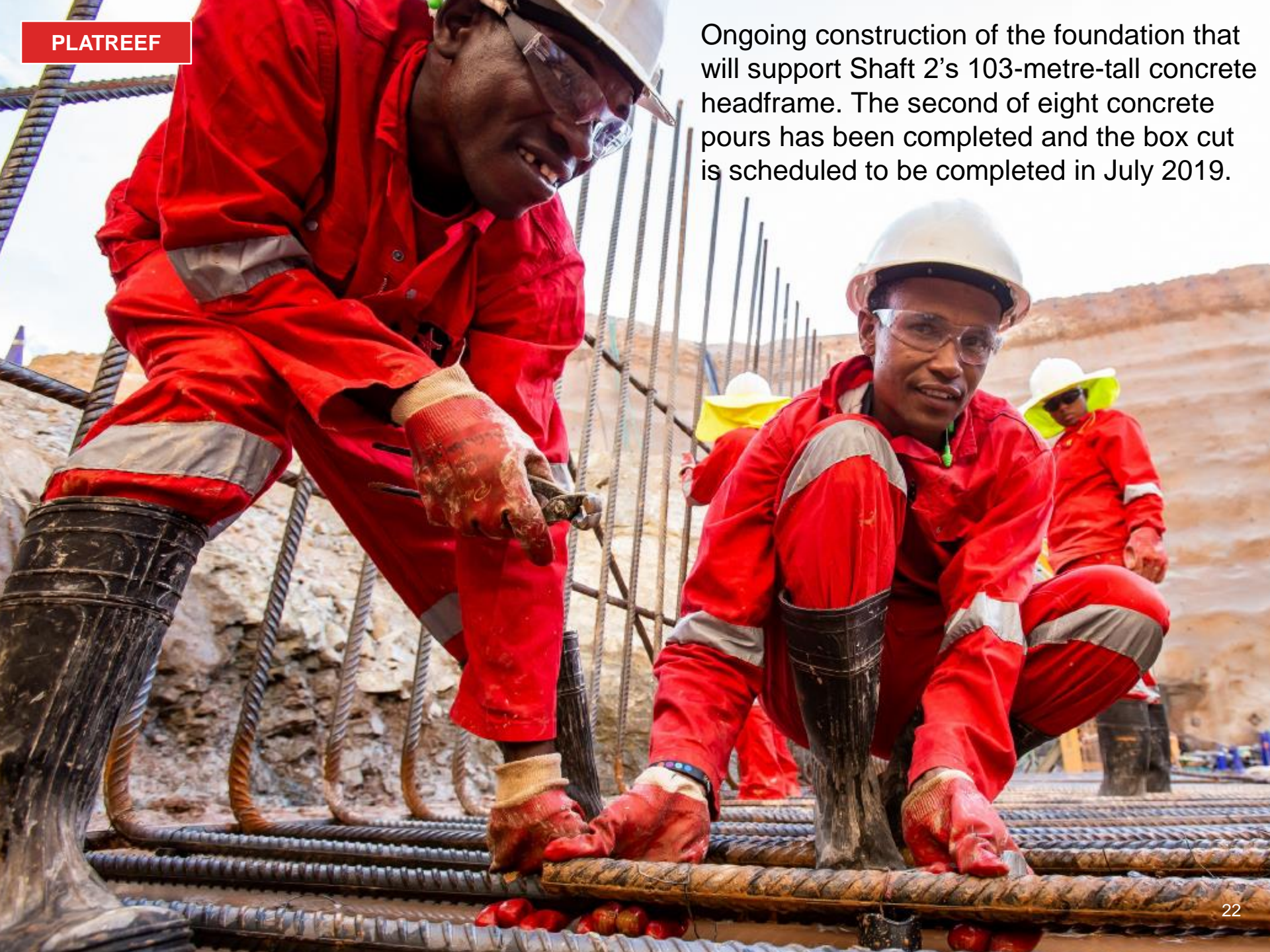


Measuring air flow on the 850-metre level of Shaft 1. As shaft-sinking advances, an additional shaft station will be developed at a mine-working depth of 950 metres. Shaft 1 is expected to reach its projected final depth of 980 metres below surface in early 2020.





Ongoing construction of the foundation that will support Shaft 2's 103-metre-tall concrete headframe. The second of eight concrete pours has been completed and the box cut is scheduled to be completed in July 2019.







Workers securing the reinforcing steel rods that will help support Shaft 2's concrete headframe, prior to the next concrete pour.





New hoist (winder) that will be installed in Kipushi's P2 Shaft. The new hoist will replace the original one that has been in service since 1924.





Cheridan Kasongo (left) and Alpheus Molepo cut out old components from the 1924 hoist as part of the P2 Shaft upgrading.





Ilunga Kabinga, Kipushi's engineering foreman (front), removing a component from the old P2 cage.





Kipushi's electricians undergoing training on the new electrical software being installed at the Kipushi Mine as part of the mine's comprehensive upgrading program.



April 25, 2019 – In recognition of National Malaria Day, Greg Hillen, a paramedic from International SOS, a leading medical and travel security services firm, presents a malaria prevention session to Kipushi's employees.





Kenny Mukendi, Kipushi's mine superintendent, inspecting the new water pipes at the mine's 850-metre level.





The official inauguration of the fourth potable water well at Bonne Semence, a small village near the Kipushi Mine. Approximately 70 families will collect their daily water at the new well, which was constructed as part of Ivanhoe's community support program.





Lars-Eric Johansson, Ivanhoe's President and CEO, at Kipushi's Big Zinc deposit. After more than 12 years of leading Ivanhoe's transformation from a pure exploration company to one that is poised to become a leading producer of copper, zinc, nickel and platinum-group metals, Mr. Johansson will retire on June 30, 2019.