

QUARTERLY ACTIVITIES REPORT FOR PERIOD ENDING 30 SEPTEMBER 2019

Predictive Discovery Limited ("Predictive" or "Company") is pleased to provide an update on its activities for the September 2019 Quarter. The Company's focus during the reporting period continued to be on advancement of its West African gold projects in Cote d'Ivoire, Guinea and Burkina Faso.

HIGHLIGHTS FOR THE SEPTEMBER 2019 QUARTER INCLUDED:

- Results from a 91-hole reconnaissance Reverse Circulation (RC) drilling program and over 6,000m of trenching at Boundiali North were released. Better results from the drilling on the Boundiali North permit included¹:
 - BNRC012 - **5m at 3.49g/t gold** from 28m
 - BNRC014 - **7m at 1.43g/t gold** from 18m
 - BNRC015 - **8m at 1.80g/t gold** from 35m
 - BNRC016 - **3m at 6.61g/t gold** from 45m
 - BNRC031 - **11m at 1.20g/t gold** from 4m
 - BNRC031 - **30m at 1.08g/t gold** from 32m
 - BNRC032 - **10m at 3.14g/t gold** from 53m
 - BNRC032 - **32m at 1.46g/t gold** from 80m
 - BRNC047 - **3m at 4.73g/t gold** from 34m
- Better results from infill RC drilling on the Boundiali South permit included²:
 - BRC208 - **3m at 14.97g/t gold** from 9m
 - BRC206 - **13m at 1.92g/t gold** from 68m
 - BRC209 - **16m at 1.64g/t gold** from 7m
 - BRC209 - **10m at 2.32g/t gold** from 146m
 - BRC202 - **4m at 3.56g/t gold** from 109m
 - BRC201 - **5m at 2.31g/t gold** from 29m
 - BRC202 - **6m at 2.48g/t gold** from 71m
 - BRC206 - **6m at 2.68g/t gold** from 116m
 - BRC213 - **7m at 1.92g/t gold** from 112m
- Better results from the Boundiali North Trenching included:
 - BNTR002 - **2m at 4.96g/t gold**
 - BNTR003A - **14m at 1.01g/t gold** within a 162m long section averaging 0.42g/t gold
 - BNTR004 - **2m at 5.09g/t gold** within a 60m long section averaging 0.48g/t gold

¹ ASX Announcement - RC AND TRENCH RESULTS GROW BOUNDIALI POTENTIAL IN COTE D'IVOIRE
<https://www.investi.com.au/api/announcements/pdi/015d9749-2be.pdf>

² ASX Announcement - BOUNDIALI RC DRILL RESULTS CONTINUE TO IMPRESS
<https://www.investi.com.au/api/announcements/pdi/88fe5057-01a.pdf>

- BNTR005 - **14m at 1.80g/t gold** within a 34m long section averaging 0.92g/t gold
 - BNTR007 - **24m at 2.29g/t gold** within a 58m long section averaging 1.10g/t gold
 - BNTR008 - **10m at 2.24g/t gold** within a 66m long section averaging 0.50g/t gold
- The Company announced results from a soil sampling program at its 100%-owned Nonta Project³, located in Guinea. 446 soil samples were collected with **peak values of 1250ppb and 325ppb gold** in two separate zones.
 - The Company announced that it has been granted a Reconnaissance Authorisation⁴ covering 100km² over the Kaninko area near the town of Kouroussa in the Siguiiri Basin, located in Guinea.
 - Results were announced from 12 vertical channel samples collected on the new Kaninko Authorisation from a large and active artisanal mine site. 7 samples were collected from workings in strongly weathered bedrock (saprolite) and returned an average value of **1.5g/t gold with a peak value recorded of 4.6g/t gold**.
 - The Company was also granted a new exploration permit in Cote D'Ivoire, Bocanda North, covering a total area of 368 km².

CORPORATE

- Post reporting period, the Company undertook a well-supported placement with binding subscription agreements to raise \$1,750,000 (before costs). The Placement was backed by a \$250,000 cornerstone commitment by Capital DI and supported by several Australian stockbroking firms and some current shareholders.
- Predictive remains well-funded with cash at \$859,000 at 30 September 2019 before receipt of funds from the recent placement, the first \$730,000 tranche of which was received on 24 October.
- Predictive welcomed Resolute Mining Limited (ASX: RSG) as the Company's new joint venture partner on its Cote D'Ivoire Joint Venture following RSG's takeover of Toro Gold Limited (Toro)⁵.

DECEMBER QUARTER 2019 – PLANNED ACTIVITY

Resolute Joint Venture, Cote D'Ivoire

Ferkessedougou North

In June, Predictive announced discovery of the Ouarigue South deposit), a mineralised body up to 100m wide and at least 210m-long from a nine-hole diamond drilling (DD) program, with a best intercept of 45.3m

³ AX Announcement - ENCOURAGING EARLY SOIL SAMPLING RESULTS, NONTA PROJECT, GUINEA

<https://www.investi.com.au/api/announcements/pdi/e6aa9259-19c.pdf>

⁴ ASX Announcement - LANDHOLDING GROWS IN GUINEA'S SIGUIRI BASIN

<https://www.investi.com.au/api/announcements/pdi/6f5f84dc-014.pdf>

⁵ ASX Announcement - PREDICTIVE WELCOMES RESOLUTE TO COTE D'IVOIRE JV

<https://www.investi.com.au/api/announcements/pdi/4d72c766-a05.pdf>

at 3.16g/t gold from 45.9m including 9m at 10.31g/t gold. Diamond drilling is scheduled to begin in November, 2020.

Boundiali

20km of gold-in-soil anomalies were recently tested by a 10,000m drilling program, including infill drilling at the 1.6km-long Nyangboue prospect where past drilling returned 20m at 10.5g/t gold and 30m at 8.3g/t gold. Exploration programs including drilling are expected to begin soon.

100%-owned new Bocanda North Permit, Cote D'Ivoire

Reconnaissance exploration will begin in the December Quarter, commencing with geological mapping and a BLEG stream sediment geochemical program.

100%-owned Guinea Projects

Kaninko

The exploration effort will accelerate at Kaninko over the next three months to follow up encouraging dump sample results. Work programs will include soil sampling, BLEG stream sediment sampling outside of the known mineralised areas, geological mapping, some additional dump sampling and trenching. A ground magnetics survey may also be undertaken. All this work is aimed at understanding the geology and narrowing down the most promising targets for a reconnaissance drilling program in the March Quarter, 2020.

Kankan

Follow-up infill geochemical sampling will be undertaken on the Kankan grid during the quarter, commencing in the next 1-2 weeks. Ground magnetics to help define subsurface rock structure will also be carried out during the December Quarter to assist with targeting for the planned March Quarter drill program.

Nonta

A power auger drilling program to test the newly discovered soil anomalies will be carried out at Nonta, commencing in early December. Given sufficiently encouraging results from this work, drilling will also be planned at Nonta for the March Quarter.

1. PREDICTIVE DISCOVERY WEST AFRICAN PROJECTS, APPLICATIONS & INTERESTS

With exposure to over 6,000km² of highly prospective ground on the West African Birimian greenstone belts of Guinea, Cote d'Ivoire and Burkina Faso, Predictive is focused on both its 100% owned and Joint Venture gold projects.

PDI's has a pipeline of early stage exploration opportunities, including partnering with experienced and respected companies to fund ongoing exploration and leveraging their expertise to realise shareholder value. The Company's present intention is to advance to the drilling stage on one or more of its Guinea properties.

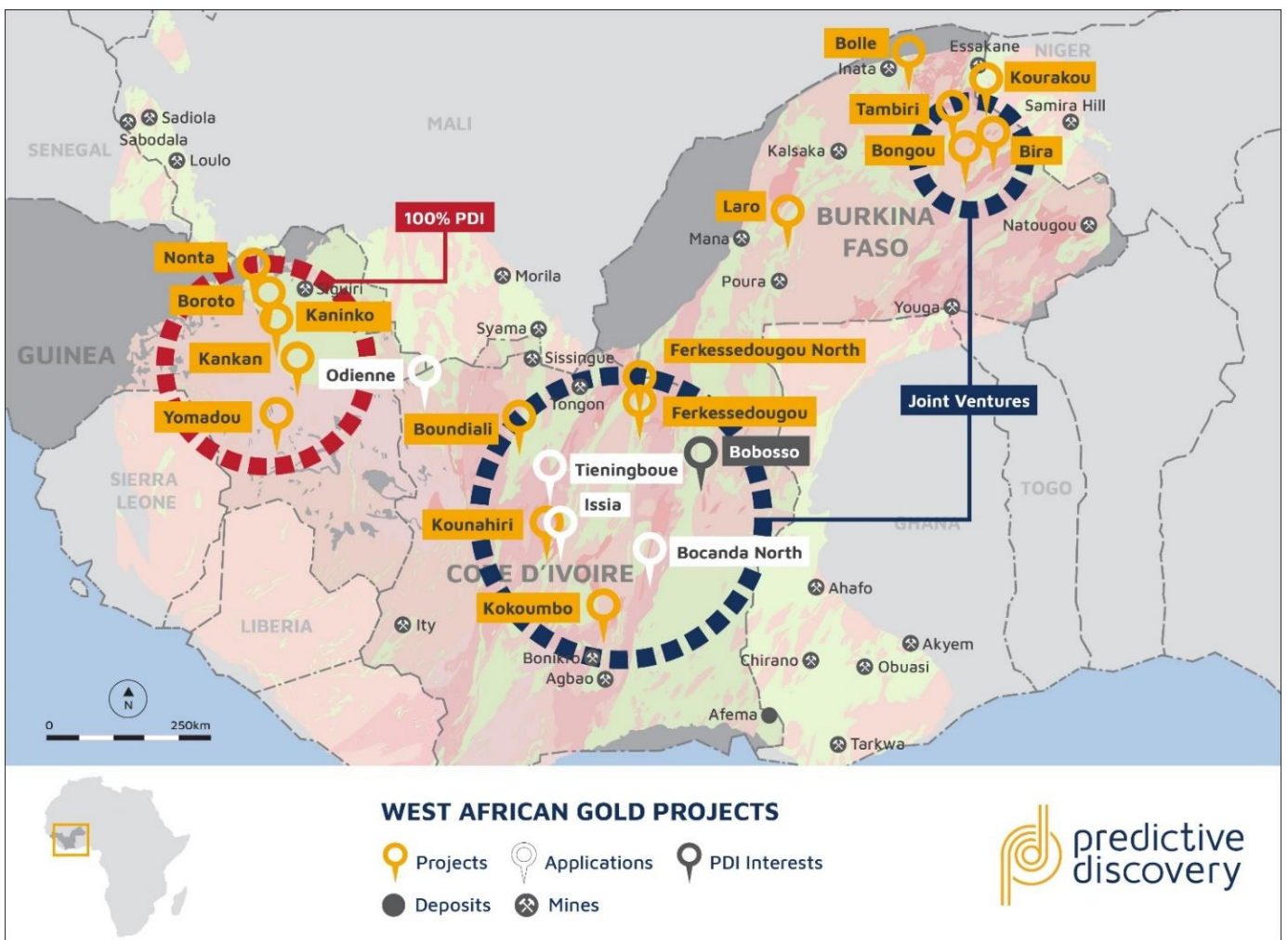


Figure 1 – Predictive Discovery projects, applications and interests in Guinea, Cote d'Ivoire and Burkina Faso

2. GUINEA – NONTA, BOROTO, KANKAN AND KANINKO

The Company now has four 100%-owned projects in Guinea covering 500km² (Figure 2).

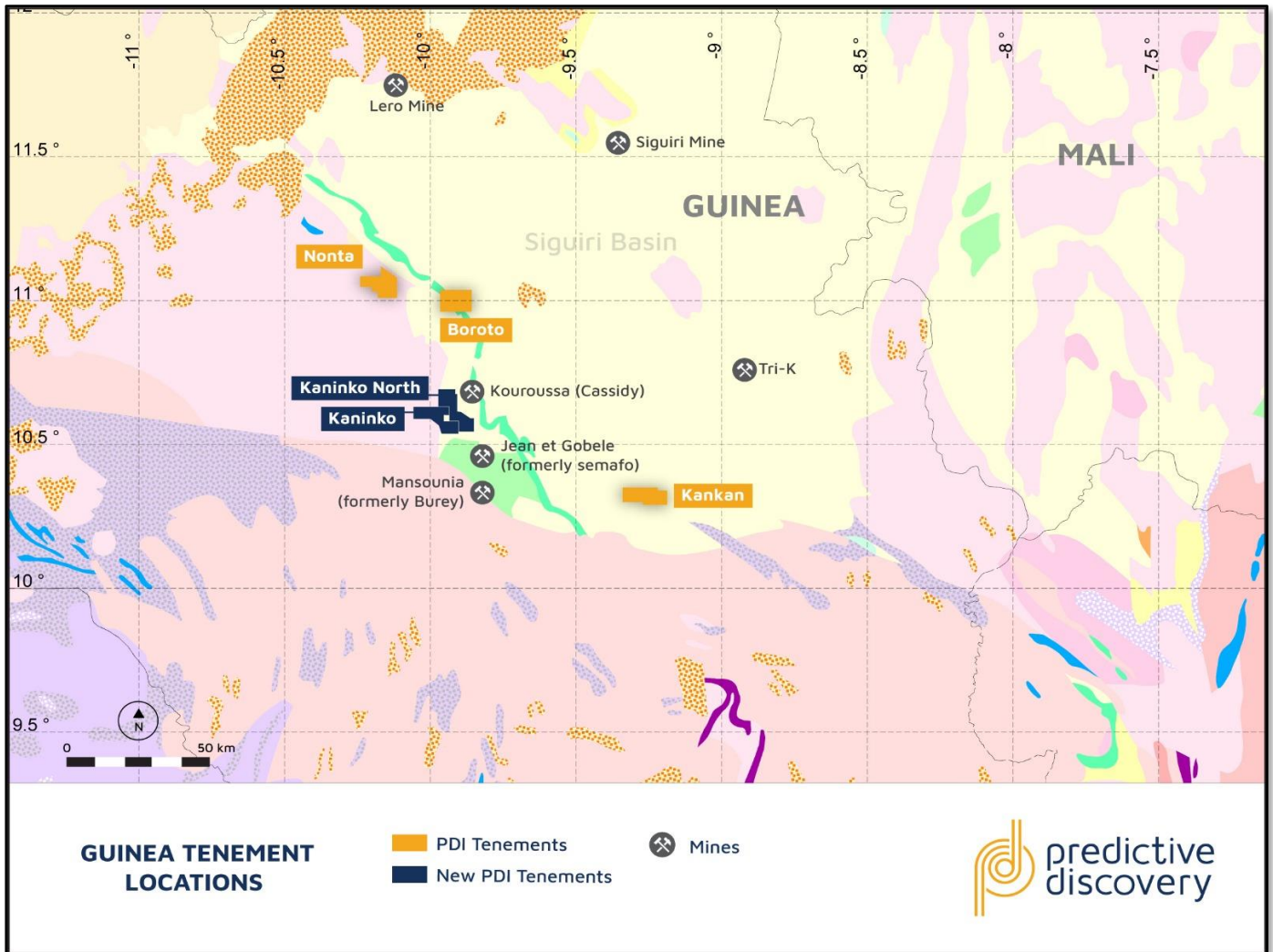


Figure 2 - Locality Map of three new Reconnaissance Authorisations in Guinea, across the Siguiri Basin

CHANNEL SAMPLING IDENTIFIES NEW GOLD AT KANINKO PROJECT IN GUINEA

The Company obtained 12 vertical channel samples from artisanal pits on the Kaninko Project. 7 samples were from artisanal workings in strongly weathered bedrock (saprolite) and returned an average value of 1.5g/t gold with a peak value recorded of 4.6g/t gold. The zone of saprolite exposure extends for 300m (Figure 3) in a north-easterly direction but extensive surrounding surficial (laterite) workings suggest that potential area of bedrock mineralisation may be much larger.

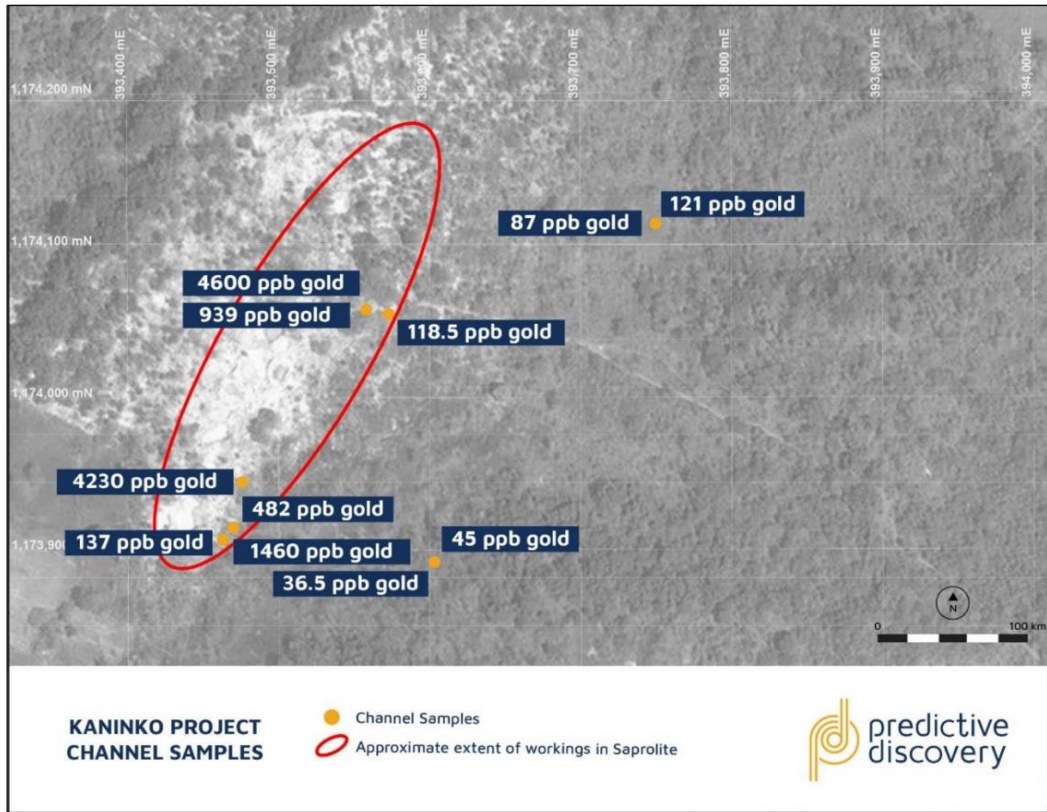


Figure 3 - Kaninko artisanal mine channel sample gold sample locations/results on satellite imagery



Figure 4 - Artisanal workers on the Bankan Creek prospect (see above for gold results), Kaninko Permit Guinea

KANINKO – NEXT STEPS

Predictive's team undertook detailed sampling of mine dumps during September, producing more encouraging results which were reported on 8 October 2019. In the December Quarter, additional dump sampling and a large soil grid will be completed, the latter over an area covering the three prospects which have been identified so far. BLEG stream sediment sampling outside of the known gold mineralised area will also be undertaken once stream levels have fallen sufficiently. Geological mapping of the new soil grid will also be carried out.

Reconnaissance mapping, artisanal mine sampling and BLEG stream sediment sampling will be undertaken on the new Kaninko North Reconnaissance Authorisation during the December Quarter.

ENCOURAGING EARLY SOIL SAMPLING RESULTS, NONTA PROJECT, GUINEA

The Company completed a soil sampling program at the Nonta Project in May 2019, with 446 samples collected on two grids – a reconnaissance 800m x 100m grid covering all of the gold-anomalous areas covered by the earlier BLEG survey and a tighter 100m x 25m grid to test the "Nonta prospect".

During the Quarter the Company released results from the soil sampling program which included a plus 5km-long anomalous zone (mostly 20-50ppb gold) oriented north-south with a peak value of 1250ppb gold (1.25 g/t gold) and a north-north-west oriented 400m-long zone, open to the north, with numerous elevated values (>50ppb gold) and a peak value of 325 ppb gold. This is coincident with the "Nonta prospect" from which earlier rock chip sampling obtained up to 29g/t gold

The soil sampling program identified two distinct areas for follow-up exploration - a plus 5km-long north-south zone of anomalous gold (20-50ppb) on the broad spaced grid and a 400m-long north-northwest trending higher tenor zone on the tightly spaced grid (Figure 4); the latter remains open to the north. Both zones returned elevated gold values, including peak values of 1250ppm and 325ppb gold respectively.

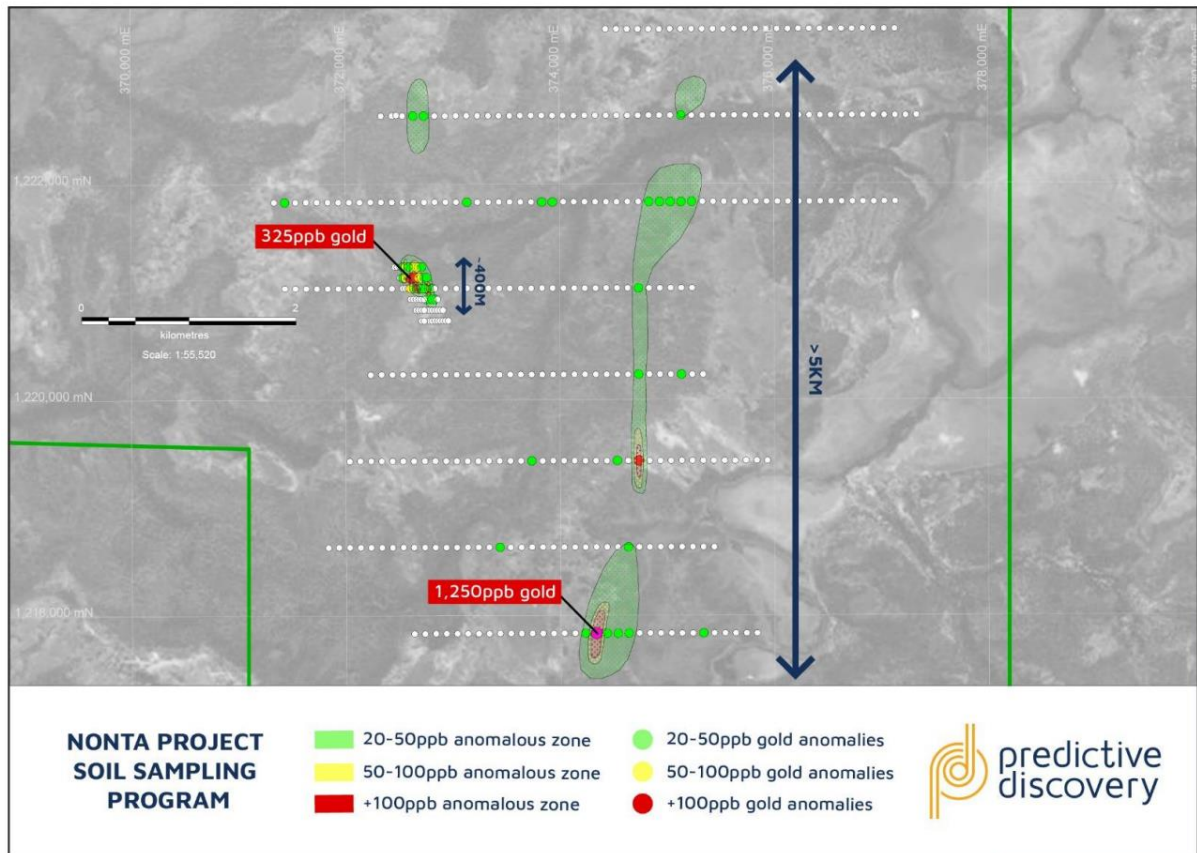


Figure 5 - Nonta soil sampling grid, highlighting gold anomalies

Recent work has been focused on understanding the distribution of gold in the regolith profile using regolith mapping, re-sampling of anomalous sample sites, testing different size fractions to try and improve the repeatability of gold results and vertical channel sampling of an artisanal open pit working to determine gold variability from the surface to depth. Gold distribution appears to be quite variable (“nuggetty”) in the near surface indicating that follow-up regolith sampling should be carried out using a different method.

NONTA PROJECT – NEXT STEPS

A modest power auger drilling program, totalling approximately 1,000m, to follow up the new Nonta gold-in-soil anomalies, is planned to start in early December.

LANDHOLDING GROWS IN GUINEA’S SIGUIRI BASIN

During the period the Company announced that it had been granted a new Reconnaissance Authorisation covering 100km² on the Kaninko Project near the town of Kouroussa in the Siguiiri Basin, located in Guinea. The tenement is located approximately 10km from the Cassidy Gold Kouroussa gold deposit and has since been converted into an Exploration Permit.

Utilising the Company’s Predictore™ system, the Kaninko area was highlighted by Predictive during its terrain-scale assessment of the Siguiiri Basin in late 2018.

Grant of a second Reconnaissance Authorisation directly to the north of Kaninko was announced on 8 October 2019.

3. COTE D'IVOIRE – BOUNDIALI, BOUNDIALI NORTH, FERKESSEDOUGOU NORTH KOUNAHIRI, FERKESSEDOUGOU, KOKOUMBO, BOBOSSO AND BOCANDA NORTH PROJECTS & INTERESTS

Predictive has a ground position in Cote D'Ivoire of over 4,000km² with the country covering about one third of the world-class Birimian gold belt, more than any other country in West Africa. Core D'Ivoire remains largely underexplored for gold due to political instability which resulted in the exploration investment boom bypassing the country in the decade to 2012.

Predictive has a joint venture agreement with Resolute Mining Limited (ASX: RSG). It also has two permit applications and one granted permit in the name of its 100% subsidiary, Ivorian Resources SARL.

During the period, the Company announced significant results and planned activity on its Boundiali and Ferkessedougou North Projects (Figure 6).

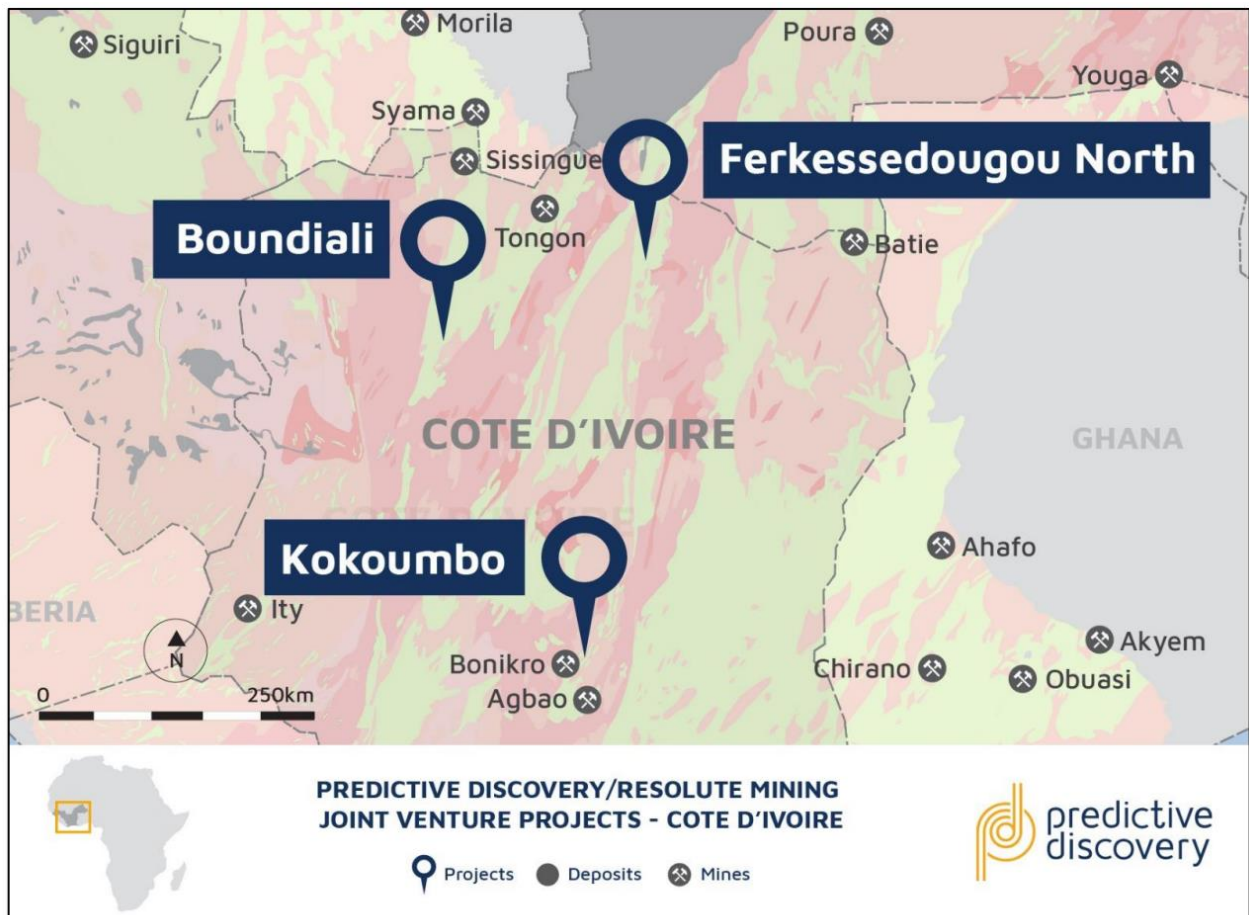


Figure 4 - Predictive Discovery/Resolute Mining key Joint Venture Projects

PREDICTIVE WELCOMES RESOLUTE TO COTE D'IVOIRE JV

In August, Predictive welcomed Resolute Mining Limited (ASX: RSG) to its Cote D'Ivoire Joint Venture following RSG's takeover of Toro Gold Limited (Toro) as announced on Wednesday 31 July, 2019. The current Toro Joint Venture covers 2,344km² in granted permits including the key gold exploration projects of Ferkessedougou North, Boundiali and Kokoumbo.

Ferkessedougou North and Boundiali have enjoyed recent drill success including 45.3m at 3.16g/t gold from Ferkessedougou North and 27m at 2.42g/t gold from Boundiali with new zones of gold mineralisation discovered on both projects. Resolute will hold a 70% stake in the joint venture with Predictive holding 30%.

BOUNDIALI NORTH DRILLING AND TRENCHING RESULTS

The Boundiali Project consists of two permits – Boundiali North and Boundiali South - which cover 29km of strike length within a very well-mineralised greenstone belt. The southern portion of the belt remains underexplored with a significant opportunity to discover new, large gold deposits.

Predictive's first exploration program on the permit was a BLEG stream sediment survey in 2014 which discovered a series of gold stream sediment anomalies, the strongest of which was downstream of the Nyangboue prospect. Subsequent soil sampling by joint venture partner Toro Gold Limited in 2015-16 revealed the 6km-long Nyangboue gold geochemical anomaly.

A 2016 RC drilling program then identified gold mineralisation extending over at least 1.2km of strike in the southern part of the anomaly. In 2015 reconnaissance sampling across the permit resulted in the discovery of three drill targets, Nyangboue (a 6km-long soil anomaly), Nyangboue South (a 2.5 km-long soil anomaly) and Gbemou (a 3km long soil anomaly). Initial RC drilling in 2016/17 on the Nyangboue Prospect returned a series of excellent drill results including 30m at 8.3g/t gold from 39m and 28m at 4.04g/t gold from 3m.

In 2018 the Joint Venture undertook a soil geochemistry program comprising 6,338 samples on the Boundiali North permit, identifying a series of gold anomalies extending for 14km which are clustered around the inferred north-south Nyangboue structure which also passes through the Nyangboue gold mineralised zone further south. Higher gold values include 1,185, 806 and 626 ppb gold.

Following the soil sampling program, the Toro joint venture completed a 6,809m trenching program over the Boundiali North permit. In March 2019, an RC drill rig began work on an infill drilling program at Boundiali South (Nyangboue) and in April it was moved to Boundiali North where a substantial reconnaissance RC drill program was completed, testing targets identified from the trenching and soil geochemistry.

During the quarter, the Company announced results from A 91-hole reconnaissance Reverse Circulation (RC) drilling program, totalling 6,229m, which was carried out in April and May 2019 on the Boundiali North permit as part of the 2019 Toro Joint Venture exploration program. The Company also announced assay results in August from the Boundiali South permit, from a 16-hole step-out drilling program completed in June, which completed infill drill testing of a 920m-long section of the Nyangboue gold mineralised zone.

BOUNDIALI NORTH – RC DRILLING

The Joint Venture completed a 91-hole (totalling 6,229m) reconnaissance RC drilling program, testing targets BN1 (Figure 1), BN2 (Figure 8,9) and BN3, which were identified from soil sampling in 2018 (Figure 5). Results received to date from the drilling have confirmed the discovery of primary gold mineralisation beneath BN1 and BN2 with some holes returning wide zones of lower grade mineralisation including multiple intercepts above 0.5g/t gold, the reported cutoff grade. The geology encountered was similar to Boundiali South (Nyangboue) including sandstones, siltstones, argillites and very minor granite. The depth of weathering is variable but averages approximately 40m. Results confirm the discovery of primary gold mineralisation beneath two of the soil anomalies so far, with better intersections including:

- BNRC012 - **5m at 3.49g/t gold** from 28m
- BNRC014 - **7m at 1.43g/t gold** from 18m
- BNRC015 - **8m at 1.80g/t gold** from 35m
- BNRC016 - **3m at 6.61g/t gold** from 45m
- BNRC031 - **11m at 1.20g/t gold** from 4m
- BNRC031 - **30m at 1.08g/t gold** from 32m
- BNRC032 - **10m at 3.14g/t gold** from 53m
- BNRC032 - **32m at 1.46g/t gold** from 80m

Drilling was completed on variable section spacings, typically between 160 and 320m, on selected areas. The RC holes were angled at -50° and typically drilled to 60m downhole. Some holes were drilled deeper with a maximum downhole depth of 120m (vertical depth 77m). The drill program was carried out by West African-based contractor Geodrill and drill samples were assayed by bottle roll cyanidation at Bureau Veritas in Abidjan. Gold mineralised intercepts obtained by this method will be re-assayed later by fire assay at ALS, Loughrea in Ireland. This may result in higher values as bottle roll cyanidation is a partial leach method.

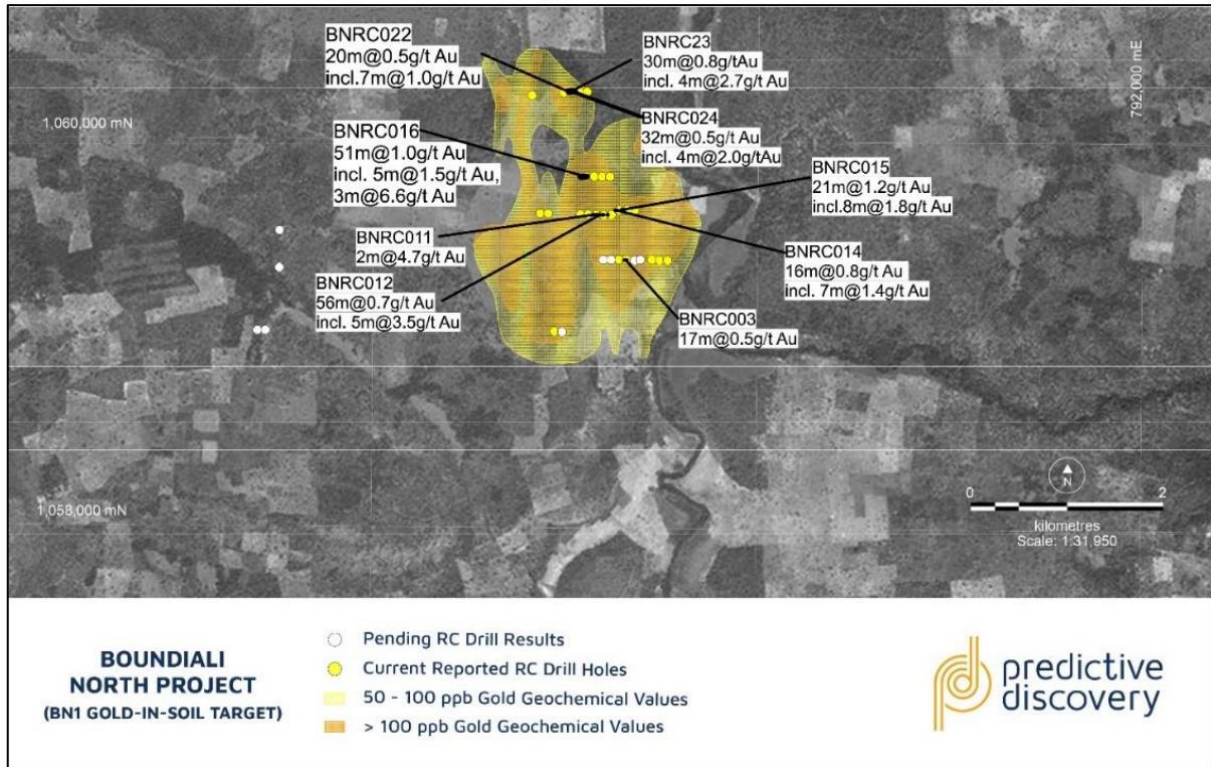


Figure 5 - Current and pending RC Drill holes beneath the BN1 gold-in-soil geochemical anomaly

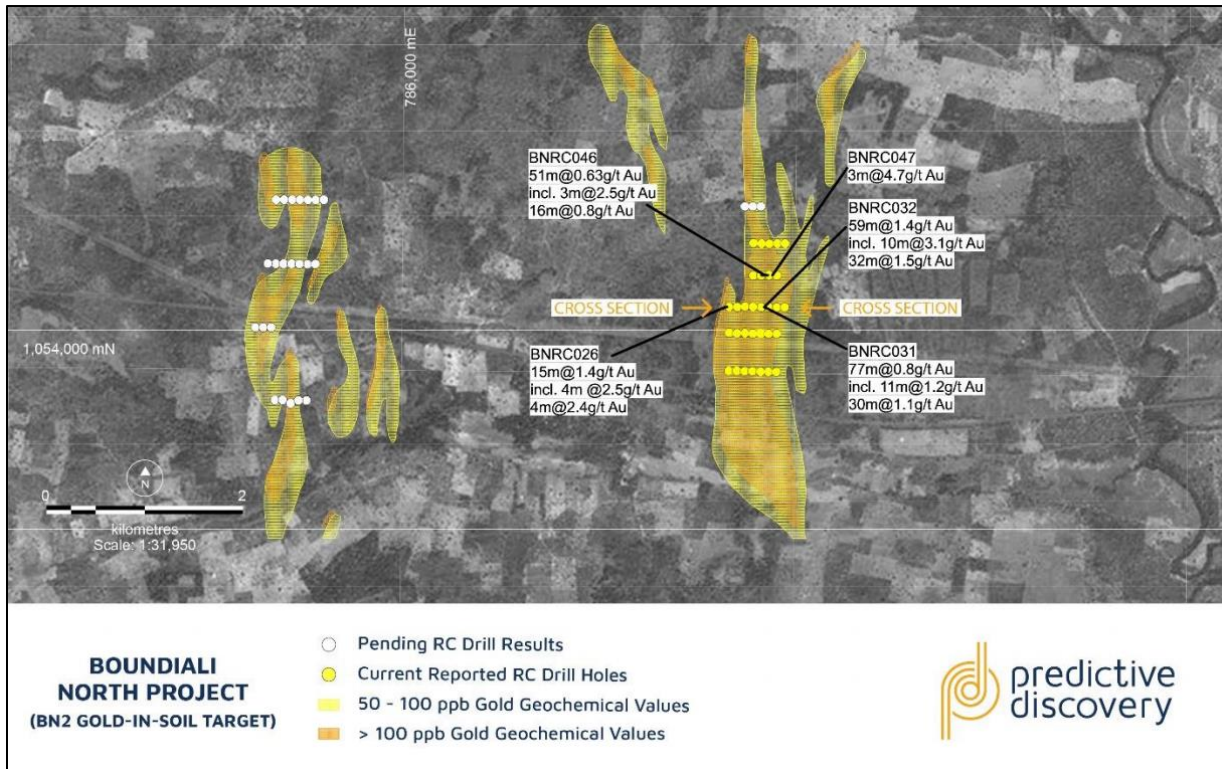


Figure 6 - Current and pending RC Drill holes beneath the BN2 (at right) and BN3 (at left) gold-in-soil geochemical anomalies

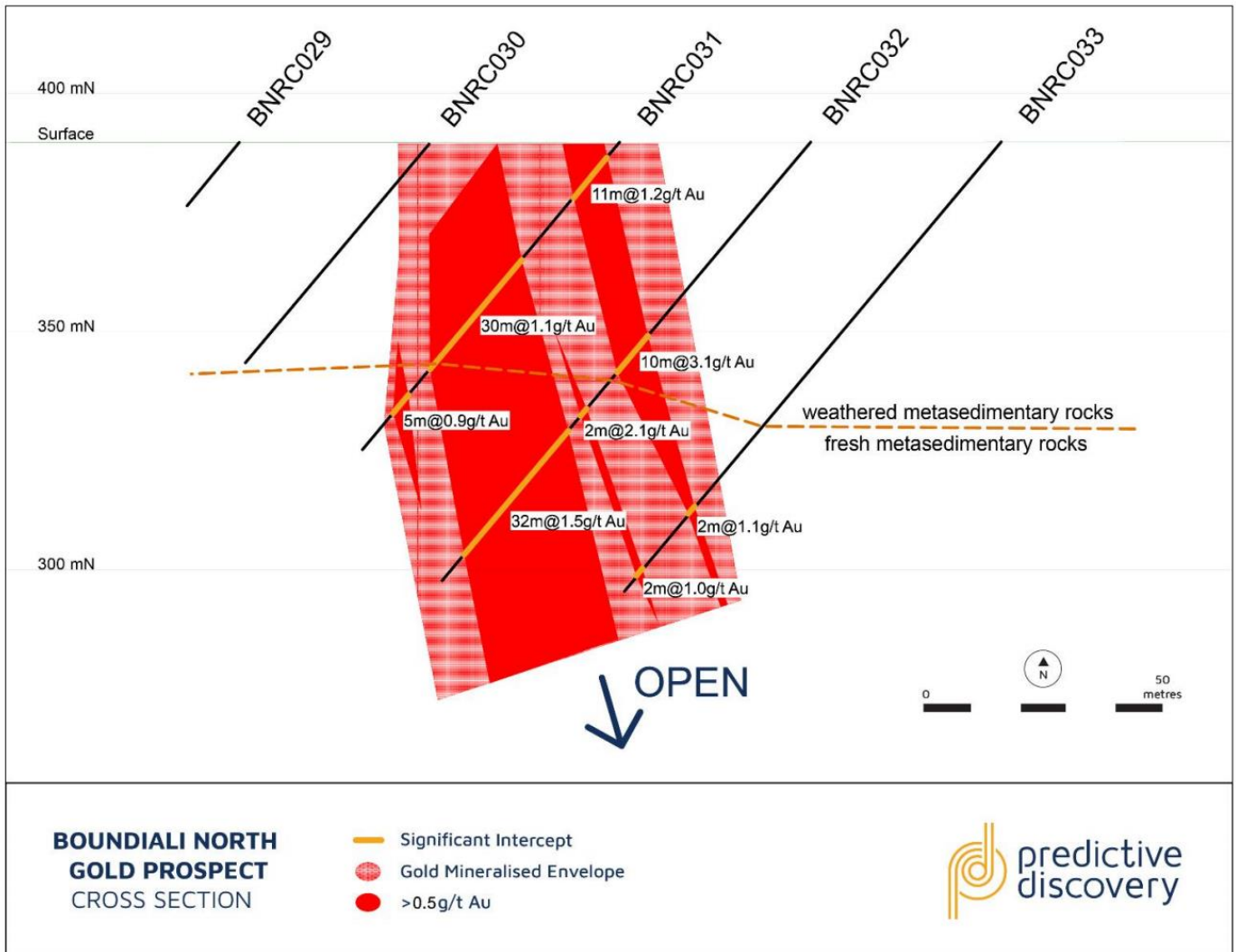


Figure 7 - Cross section through prospect BN2 (See figure 8 for location)

BOUNDIALI NORTH – TRENCHING

During the quarter, the Joint Venture completed 22 trenches (totalling 6,809m) with the highest values recorded from zones coincident with soil anomalies BN1 (Figure 10) and BN2. As with the drilling, the trenches encountered broad zones of lower grade mineralisation containing multiple intercepts above 0.5g/t gold, the reported cut-off grade. Better results included:

- BNTR002 - **2m at 4.96g/t gold**
- BNTR003A - **14m at 1.01g/t gold** within a 162m long section averaging 0.42g/t gold
- BNTR004 - **2m at 5.09g/t gold** within a 60m long section averaging 0.48g/t gold
- BNTR005 - **14m at 1.80g/t gold** within a 34m long section averaging 0.92g/t gold
- BNTR007 - **24m at 2.29g/t gold** within a 58m long section averaging 1.10g/t gold
- BNTR008 - **10m at 2.24g/t gold** within a 66m long section averaging 0.50g/t gold

The trenching program was designed to identify new targets in shallow mineralisation for follow up drill testing. The trenching will also assist in understanding the geometry of gold mineralisation reported from the most recent RC drilling program.

The widest zone of low-grade mineralisation was encountered in trench BNTRC003A (162m at 0.43g/t Au including 14m at 1.01g/t) and was terminated on a deep, artisanal open-pit gold working (Figure 8).

The trenches were dug to an average downhole depth of 2m. The trenching program was carried out using a backhoe and the samples were assayed by bottle roll cyanidation at Bureau Veritas in Abidjan.



Figure 8 - Boundiali North target BN1 with trench lines and significant results



Figure 9 - Boundiali North targets BN2 and BN3 (at right and left respectively) with trench lines and significant results

BOUNDIALI SOUTH – INFILL DRILLING (NYANGBOUE PROSPECT)

During the period, additional results from the Company's highly encouraging 31-hole (totalling 3,324m) infill RC drilling program at the Nyangboue Prospect were received. Numerous significant gold results were previously returned including good widths and high grades, including 27m at 2.42g/t gold (Figure 12). Multiple +1g/t gold intercepts were recorded in every hole and the mineralisation remains open at depth.

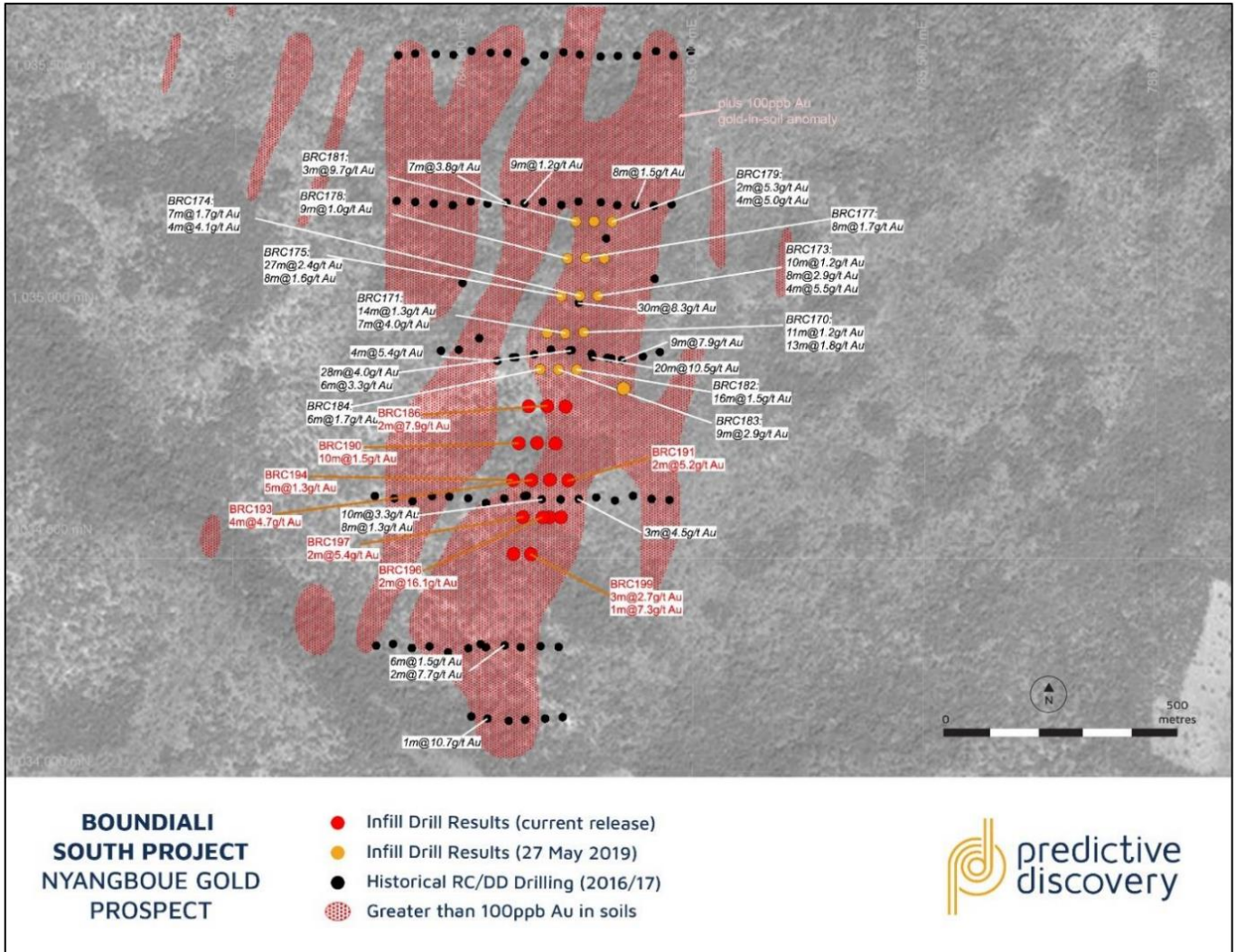


Figure 10 - Boundiali South, Nyangboue Prospect with current and historical RC and DD holes

BOUNDIALI SOUTH – STEP-OUT DRILLING (NYANGBOUE PROSPECT)

The joint venture completed a 16-hole step-out program (totalling 1,874m) in June 2019 to follow-up the 31-hole infill RC drilling program completed in March-April. This new program extended infill drill coverage to approximately 920m of mineralised strike on the Nyangboue gold prospect (Figure 3). The RC holes were designed to explore for mineralisation both up-dip and down-dip of earlier intercepts and along strike of the earlier infill drill lines.

Reportable gold drill hole intersections are represented in Figures 13 and 14. The new drilling encountered broad zones of anomalous gold mineralisation with multiple gold higher-grade intercepts recorded. The geology encountered included conglomerates, sandstones, siltstones and shales. Depth of weathering averages approximately 40m.

The RC holes were angled at -60° and drilled to a maximum downhole depth of 192m (vertical depth 166m). The drill program was carried out by West African-based contractor Geodrill and the drill samples were

assayed by bottle roll cyanidation at Bureau Veritas in Abidjan. Gold mineralised intercepts will be re-assayed later by fire assay.

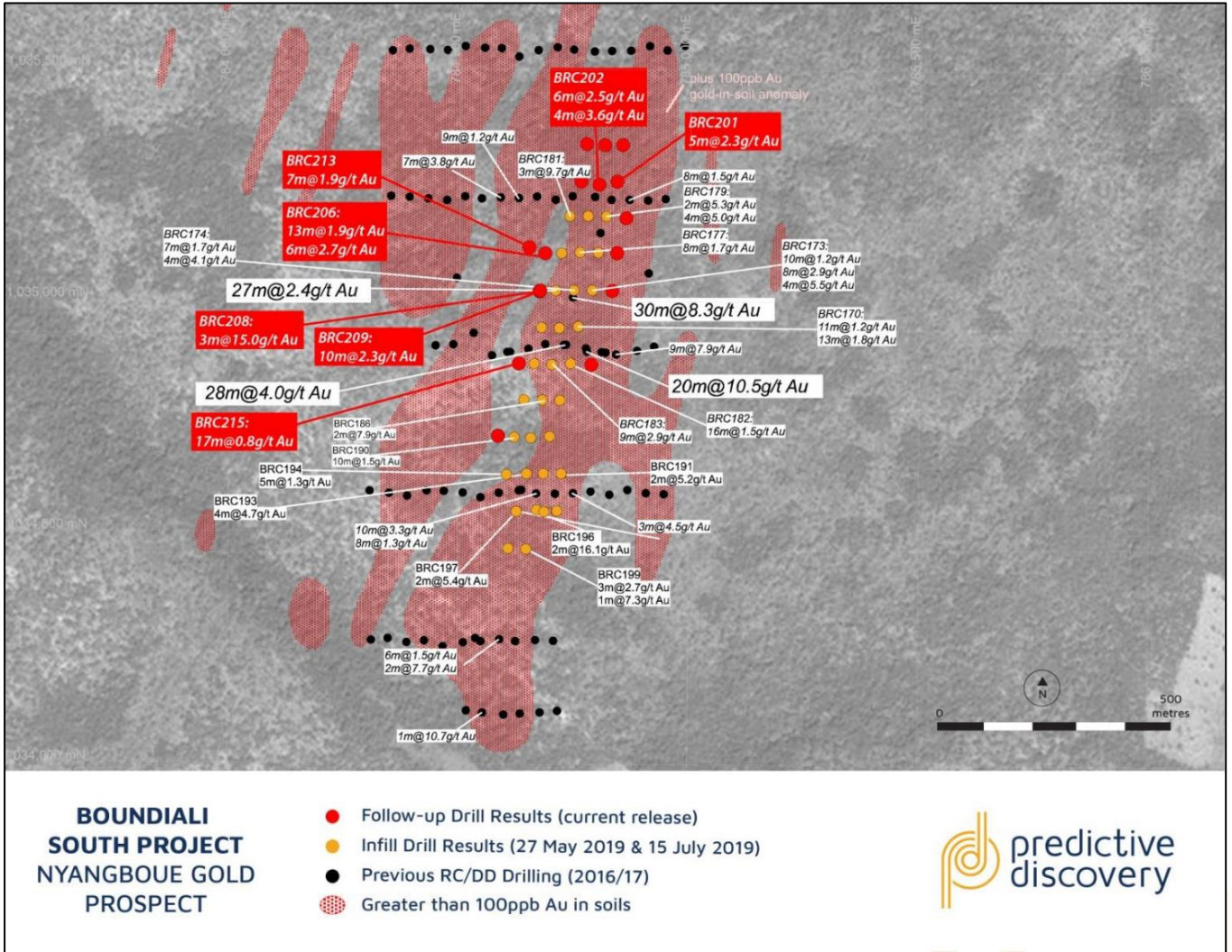


Figure 11 - Drill-hole locations from follow-up drilling at the Nyangboue gold prospect, including significant intercepts from previous drill programs

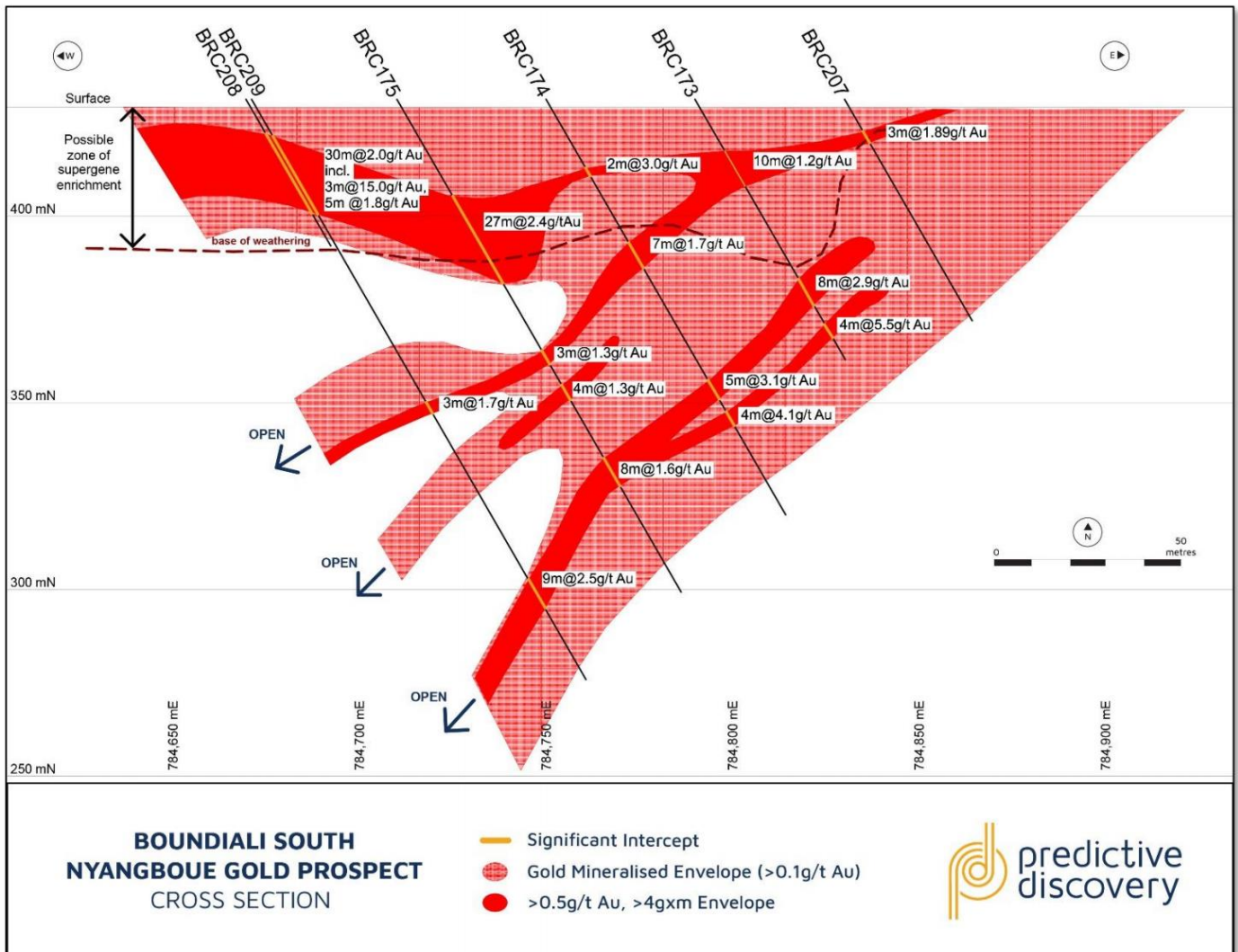


Figure 12 - Boundiali South (Nyangboue Prospect) cross section showing new intercepts in holes BRC207 and BRC208/209 (partly twinned)

BOUNDIALI NEXT STEPS

The latest drill results have provided additional positive indications of the growing scale of the Boundiali gold mineralised systems. The joint venture is currently reviewing results of the March to June drilling campaign prior to deciding on next steps. More drilling is expected in the upcoming field season, which begins in the December Quarter.

4. BURKINA FASO – BONGOU, BIRA, TAMBIRI, BOLLE AND KOURAKOU PROJECTS

No field work was completed on the Company's at Bongou, Bira, Tambiri, Bolle or Kourakou Projects during the Quarter.

5. CORPORATE

- Post reporting period, the Company undertook a well-supported placement with binding subscription agreements to raise \$1,750,000 (before costs). The Placement was backed by a \$250,000 cornerstone commitment by Capital DI, the Company's second largest shareholder, and supported by several Australian stockbroking firms and some current shareholders.
- Predictive held cash of \$859,000 at 30 September 2019, with the proceeds from the above placement to be received during the December Quarter, further strengthening the Company's cash position. A Share Purchase Plan targeted at raising a further \$500,000 was announced in October and will be completed in the December Quarter.
- Predictive welcomed Resolute Mining Limited (ASX: RSG) as the Company's new joint venture partner on its Cote D'Ivoire Joint Venture following RSG's takeover of Toro Gold Limited (Toro)⁶.

2019 SEPTEMBER QUARTER - ASX ANNOUNCEMENTS

This Quarterly Activities Report contains information extracted from ASX market announcements reported in accordance with the 2012 edition of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves" ("2012 JORC Code"). Further details (including 2012 JORC Code reporting tables where applicable) of exploration results referred to in this Quarterly Activities Report can be found in the following announcements lodged on the ASX:

24-Sep-19	Resolute JV Exploration Program to Commence in November
17-Sep-19	Channel Sampling Identifies New Gold at Kaninko, Guinea
22-Aug-19	Boundiali RC Drill Results Continue to Impress
05-Aug-19	Predictive Welcomes Resolute to Cote D'Ivoire JV
01-Aug-19	Encouraging Early Soil Sampling Results - Nonta Guinea
15-Jul-19	RC, Trench Results Grow Boundiali Potential In Cote D'Ivoire
04-Jul-19	Landholding Grows in Guinea's Siguiri Basin

These announcements are available for viewing on the Company's website www.predictivediscovery.com under the Investors tab. Predictive confirms that it is not aware of any new information or data that materially affects the information included in any original ASX announcement.

Competent Persons Statement

The exploration results reported herein, insofar as they relate to mineralisation are based on information compiled by Mr Paul Roberts (Fellow of the Australian Institute of Geoscientists). Mr Roberts is a full-time employee of the company and has sufficient experience relevant to the style of mineralisation and

⁶ ASX Announcement - PREDICTIVE WELCOMES RESOLUTE TO COTE D'IVOIRE JV
<https://www.investi.com.au/api/announcements/pdi/4d72c766-a05.pdf>

type of deposits being considered to qualify as a Competent Person as defined by the 2012 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Roberts consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

TENEMENT STATUS – SEPTEMBER QUARTER 2019

Name	Number	Location	Area (sq. km)	PDI equity	Changes in holding during September Quarter, 2019
Kalinga (formerly Fouli)	Arrêté 2014-294/MCE/SG/DGMGC	Burkina Faso	186	49%	None
Tantiabongou	Arrêté 2017-054 /MCE/SG/DGMGC	Burkina Faso	50	49%	Permit likely to be replaced by new permit (currently under application)
Tambifwanou (formerly Sirba)	Arrêté 2017-119/MCE/SG/DGMGC	Burkina Faso	136	49%	None
Bongou (formerly Madyabari)	Arrêté 2017-121/MCE/SG/DGMGC	Burkina Faso	171	49%	None
Tamfoagou	Arrêté 2017-132/MCE/SG/DGMGC	Burkina Faso	83	49%	None
Tangagari	Arrêté 2013-37 /MCE/SG/DGMGC	Burkina Faso	94	Earning 46.5%; current equity 0% (until final cash payment is made)	Permit likely to be replaced by new permit (currently under application)
Tambiri (formerly Bangaba)	Arrêté 2017-120/MCE/SG/DGMGC	Burkina Faso	127	46.5%	None
Bira	Arrêté 2016-129/MCE/SG/DGMGC	Burkina Faso	12	49%	None
Basieri	Arrêté 2017-133/MCE/SG/DGMGC	Burkina Faso	73	49%	None
Kokoumbo	Mining exploration permit No. 307	Cote D'Ivoire	300	Predictive CI earning 90%.	At 30 September, 2019, PDI owned 30% of Predictive CI but this is expected to fall to approximately 25% once the Toro expenditure for the June Quarter is approved and audited.

Ferkessedougou South	Mining exploration permit No. 310	Cote D'Ivoire	290	0%	Permit expired.
Boundiali	Mining exploration permit No. 414	Cote D'Ivoire	299	30%	At 30 September, 2019, PDI owned 30% of Predictive CI but this is expected to fall to approximately 25% once the Toro expenditure for the June Quarter is approved and audited.
Boundiali North	Mining exploration permit	Cote D'Ivoire	350	Predictive CI earning 90%. PDI now owns 30% of Predictive CI	At 30 September, 2019, PDI owned 30% of Predictive CI but this is expected to fall to approximately 25% once the Toro expenditure for the June Quarter is approved and audited.
Kounahiri	Mining exploration permit No. 317	Cote D'Ivoire	260	30%	At 30 September, 2019, PDI owned 30% of Predictive CI but this is expected to fall to approximately 25% once the Toro expenditure for the June Quarter is approved and audited.
Bassawa	Mining exploration permit No. 570	Cote D'Ivoire	400	0% (rights to bonus payments on production)	None
Wendene	Mining exploration permit No. 572	Cote D'Ivoire	400	0% (rights to bonus payments on production)	
Dabakala	Mining exploration permit application	Cote D'Ivoire	400	0% (rights to bonus payments on production)	
Beriaboukro (Toumodi)	Mining exploration permit No. 464	Cote D'Ivoire	400	Predictive CI can earn 85% in the permit. PDI currently owns 35% of Predictive CI.	At 30 September, 2019, PDI owned 30% of Predictive CI but this is expected to fall to approximately 25% once the Toro expenditure for the June Quarter is approved and audited.
Ferkessedougou North	Mining exploration permit No. 367	Cote D'Ivoire	400	Predictive CI can earn 85% in the permit. PDI currently owns 35% of Predictive CI.	At 30 September, 2019, PDI owned 30% of Predictive CI but this is expected to fall to approximately 25% once the Toro expenditure for the June Quarter is approved and audited.
Bocanda North	Mining exploration permit No. 844	Cote D'Ivoire	368	Predictive 100%	Acquired during the Quarter.

Nonta	Exploration Permit	Guinea	100	Predictive 100%	None
Kankan	Exploration Permit	Guinea	100	Predictive 100%	None
Boroto	Exploration Authorisation	Guinea	100	Predictive 100%	None
Yomadou	Exploration Authorisation	Guinea	100	0%	Surrendered
Kaninko	Exploration Authorisation	Guinea	100	Predictive 100%	Granted
Cape Clear	EL 5434	Victoria, Australia	63	25%	None

- END -

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About Predictive Discovery

Predictive Discovery is a West African focused gold explorer with a portfolio of 21 exploration projects and applications strategically located in the prolific Birimian greenstone belts of Guinea, Cote d'Ivoire and Burkina Faso.

The Company has begun work on its five 100%-owned exploration properties in Guinea with a 500km² landholding in the highly prospective but underexplored Siguiiri Basin, which contains AngloGold's world-class Siguiiri Mine (+10Moz). All permits are located close to widespread artisanal workings with drilling expected to begin in early 2020.



Appendix 5B

Mining exploration entity and oil and gas exploration entity quarterly report

Introduced 01/07/96 Origin Appendix 8 Amended 01/07/97, 01/07/98, 30/09/01, 01/06/10, 17/12/10, 01/05/13, 01/09/16

Name of entity

PREDICTIVE DISCOVERY LIMITED

ABN

11 127 171 877

Quarter ended ("current quarter")

30 SEPTEMBER 2019

Consolidated statement of cash flows	Current quarter \$A'000	Year to date (3 months) \$A'000
1. Cash flows from operating activities		
1.1 Receipts from customers	-	-
1.2 Payments for		
(a) exploration & evaluation*	(218)	(218)
(b) development		
(c) production		
(d) staff costs**		
(e) administration and corporate costs*	(100)	(100)
1.3 Dividends received (see note 3)		
1.4 Interest received	4	4
1.5 Interest and other costs of finance paid		
1.6 Income taxes paid		
1.7 Research and development refunds		
1.8 Other (provide details if material)	-	-
1.9 Net cash from / (used in) operating activities	(314)	(314)

*The company's accounting policy allocates staff costs to activities and are accordingly included in items 1.2 (a) and 1.2 (e)

2. Cash flows from investing activities		
2.1 Payments to acquire:		
(a) property, plant and equipment	-	-
(b) tenements (see item 10)		
(c) investments		

Mining exploration entity and oil and gas exploration entity quarterly report

Consolidated statement of cash flows		Current quarter \$A'000	Year to date (3 months) \$A'000
	(d) other non-current assets		
2.2	Proceeds from the disposal of:		
	(a) property, plant and equipment		
	(b) tenements (see item 10)		
	(c) investments		
	(d) other non-current assets		
2.3	Cash flows from loans to other entities		
2.4	Dividends received (see note 3)		
2.5	Other (provide details if material)		
2.6	Net cash from / (used in) investing activities	-	-
3.	Cash flows from financing activities		
3.1	Proceeds from issues of shares		
3.2	Proceeds from issue of convertible notes		
3.3	Proceeds from exercise of share options		
3.4	Transaction costs related to issues of shares, convertible notes or options		
3.5	Proceeds from borrowings		
3.6	Repayment of borrowings		
3.7	Transaction costs related to loans and borrowings		
3.8	Dividends paid		
3.9	Other (provide details if material)		
3.10	Net cash from / (used in) financing activities	-	-
4.	Net increase / (decrease) in cash and cash equivalents for the period		
4.1	Cash and cash equivalents at beginning of period	1,173	1,173
4.2	Net cash from / (used in) operating activities (item 1.9 above)	(314)	(314)
4.3	Net cash from / (used in) investing activities (item 2.6 above)	-	-
4.4	Net cash from / (used in) financing activities (item 3.10 above)	-	-
4.5	Effect of movement in exchange rates on cash held	-	-
4.6	Cash and cash equivalents at end of period	859	859

5. Reconciliation of cash and cash equivalents at the end of the quarter (as shown in the consolidated statement of cash flows) to the related items in the accounts	Current quarter \$A'000	Previous quarter \$A'000
5.1 Bank balances	657	672
5.2 Call deposits	202	501
5.3 Bank overdrafts		
5.4 Other (provide details)		
5.5 Cash and cash equivalents at end of quarter (should equal item 4.6 above)	859	1,173

6. Payments to directors of the entity and their associates	Current quarter \$A'000
6.1 Aggregate amount of payments to these parties included in item 1.2	67
6.2 Aggregate amount of cash flow from loans to these parties included in item 2.3	-
6.3 Include below any explanation necessary to understand the transactions included in items 6.1 and 6.2	

Fees paid to directors

7. Payments to related entities of the entity and their associates	Current quarter \$A'000
7.1 Aggregate amount of payments to these parties included in item 1.2	-
7.2 Aggregate amount of cash flow from loans to these parties included in item 2.3	-
7.3 Include below any explanation necessary to understand the transactions included in items 7.1 and 7.2	

Mining exploration entity and oil and gas exploration entity quarterly report

8. Financing facilities available <i>Add notes as necessary for an understanding of the position</i>	Total facility amount at quarter end \$A'000	Amount drawn at quarter end \$A'000
8.1 Loan facilities		
8.2 Credit standby arrangements		
8.3 Other (please specify)		
8.4 Include below a description of each facility above, including the lender, interest rate and whether it is secured or unsecured. If any additional facilities have been entered into or are proposed to be entered into after quarter end, include details of those facilities as well.		

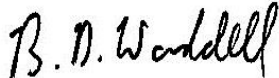
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9. Estimated cash outflows for next quarter	\$A'000
9.1 Exploration and evaluation	580
9.2 Development	
9.3 Production	
9.4 Staff costs	
9.5 Administration and corporate costs	210
9.6 Other (provide details if material)	
9.7 Total estimated cash outflows	790

10. Changes in tenements (items 2.1(b) and 2.2(b) above)	Tenement reference and location	Nature of interest	Interest at beginning of quarter	Interest at end of quarter
10.1 Interests in mining tenements and petroleum tenements lapsed, relinquished or reduced	Yomadou Exploration Permit, Guinea	Surrendered	100%	0%
	Ferkessedougou South Exploration Permit (Resolute Joint Venture)	Expired (not renewed)	30%	0%
10.2 Interests in mining tenements and petroleum tenements acquired or increased	Bocanda North Exploration Permit, Cote D'Ivoire	100% ownership	0%	100%

Compliance statement

- 1 This statement has been prepared in accordance with accounting standards and policies which comply with Listing Rule 19.11A.
- 2 This statement gives a true and fair view of the matters disclosed.



Sign here:

(Company secretary)

Date: 30 Oct 2019

Print name: Bruce Waddell

Notes

1. The quarterly report provides a basis for informing the market how the entity's activities have been financed for the past quarter and the effect on its cash position. An entity that wishes to disclose additional information is encouraged to do so, in a note or notes included in or attached to this report.
2. If this quarterly report has been prepared in accordance with Australian Accounting Standards, the definitions in, and provisions of, AASB 6: Exploration for and Evaluation of Mineral Resources and AASB 107: Statement of Cash Flows apply to this report. If this quarterly report has been prepared in accordance with other accounting standards agreed by ASX pursuant to Listing Rule 19.11A, the corresponding equivalent standards apply to this report.
3. Dividends received may be classified either as cash flows from operating activities or cash flows from investing activities, depending on the accounting policy of the entity.