

Scope of works for the ARK area hydrogeological investigation

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1. BACKGROUND

The **ARK** deposit is a significant, near-mine, high-grade resource located approximately 4 km from the existing processing infrastructure at Kibali Gold Mine. Mining operations are currently scheduled to commence in 2029.

As part of the Pre-Feasibility Study (PFS), detailed hydrogeological and geotechnical investigations are required to inform the mine planning, optimize mine design, assess risks, and ensure compliance with international best practice.

Groundwater data collection is required to improve our understanding of the groundwater system and inform geotechnical and hydrogeological modelling.

This Scope of Work defines the services required to:

- Characterize aquifer systems;
- Provide information for the calibration of hydrogeological models and hydrological risk assessments and
- Support mine water balance assessments;

Data collection must consider (and target) features that influence the hydrogeology of the area and could adversely impact on the future Mine, such as:

- Flooded old Agbarabu pit and underground workings;
- The Kombakolo pit lake;
- Pond around Agbarabu;
- The stream network that passes very close or crosses the area to be mined.

We are starting from a very low baseline, there are three dewatering bores and 2 standpipe piezometers at Rhino and one dewatering bore and 2 standpipe piezometers at Kombokolo. currently there is no groundwater monitoring around ARK.

2. PURPOSE

This scope of work is intended to deliver sufficient hydrogeological information for the ARK project as in anticipation of mining start.

In addition to data collection, a review of dewatering strategy will be proposed at Rhino cutback after risk re-evaluation to help stabilise the saprolite slopes.

The Scope of Work describes the activities required for the hydrogeological investigation, including the construction of a groundwater monitoring network, packer testing and dewatering bore drilling.

3. SITE LOCATION

The Project is located within Kibali mining complex in Haut-Uélé province of the DRC. The ARK project area is shown in Figure 1.

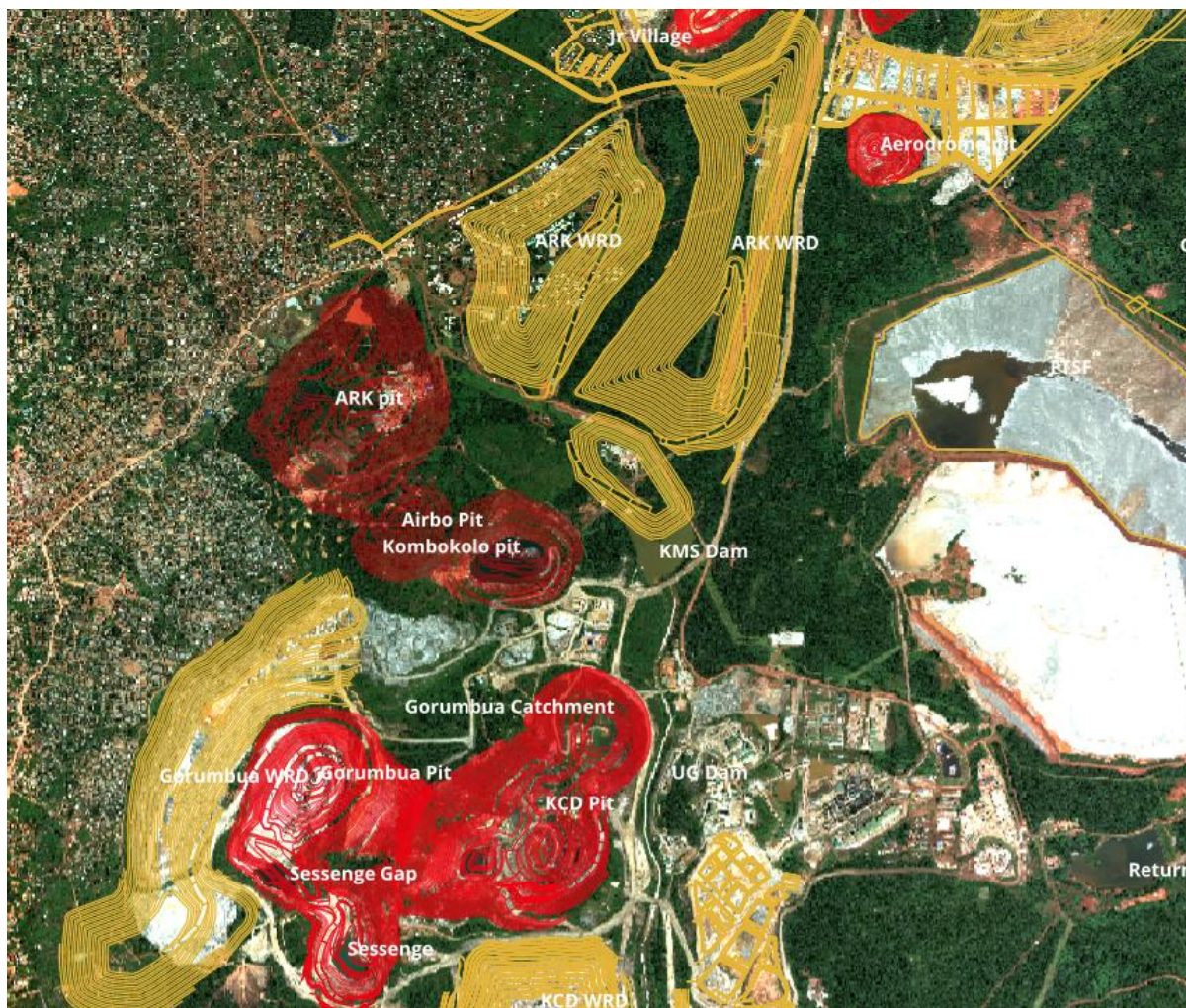


Figure 1. Project location map

4. SERVICES

Overview

The Services relate to borehole drilling for hydrogeological research. A combination of different drilling methodologies will be required for optimum results. The work is divided into the following categories:

- 1) Inclined hydro-geotechnical boreholes. Boreholes to be cored (DDH) from ground surface to base of the borehole, minimum core diameter is HQ.
- 2) Standpipe piezometers to be installed with 100 mm PVC for groundwater level monitoring and groundwater sampling.
- 3) Dewatering boreholes to be installed with 200 mm steel.

4) Packer testing and VWP installation (in the inclined DDH boreholes)

Figure 2 shows the approximate location of the different types of borehole (locations are indicative at this stage and will be confirmed prior to drilling).

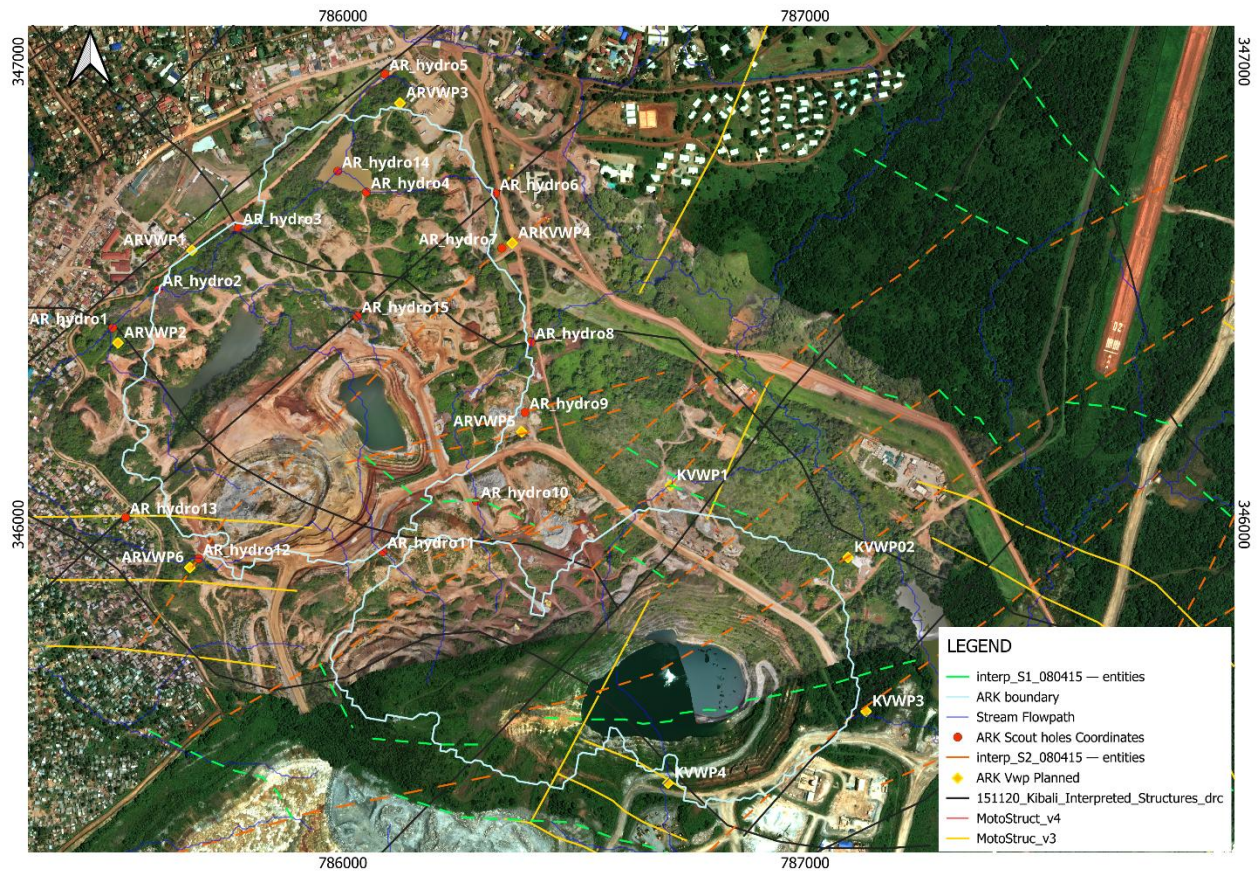


Figure 2: Planned drill hole locations for standpipes, VWP (geotechnical) holes.

The scope of work for the four categories of work are described below.

Cored boreholes

Inclined boreholes cored PQ through the oxide zone and HQ through the rock are planned at ten (10) locations, Table 1 (coordinate reference system is EPSG: 32635 – WGS84 UTM Zone 35)

Table 1: cored boreholes – provisional details (for locations see 'VWP_PROPOSED' in Figure 1)

ID (PROVISIONAL)	X	Y	Description	Length (m)
ARVWP1	785673	346592	ARVWP01 (West wall near stream)	220
ARVWP2	785513	346392	ARVWP02 (West wall near stream)	280
ARVWP3	786123	346910	ARVWP03 (West wall near stream)	380
ARKVWP4	786366	346608	ARVWP04 (Northern shearing)	380
ARVWP5	786387	346200	ARVWP05 Eastern shearing)	380
ARVWP6	785669	345907	ARVWP06 Southern shearing)	220
KVWP1	786709	346084	KVWP1 Northern shearing)	250
KVWP2	787093	345929	KVWP2 Northeastern shearing)	290
KVWP3	787132	345596	KVWP3 Eastern shearing)	290
KVWP4	786703	345441	KVWP4 Southern shearing)	250

Assume oxide zone is an average of 50 m thick (40 m saprolite soil and 10 m saprock).

Azimuth and dip to be confirmed together with Geotech to align with the targets.

Standpipe piezometers

Considering the complexity of the geological shear structures, fifteen (15) deep vertical probe boreholes (approximately 200 m depth each) are planned to assess the intrinsic permeability of the structural zones and to differentiate the hydrogeological units controlling the streams and springs network across the ARK project area, as well as the deeper fractured rock aquifers.

Of these, two (2) pilot boreholes will be completed as dewatering bores. The remaining thirteen (13) boreholes will be completed as standpipe piezometers for long-term groundwater monitoring, they shall be constructed using 50 mm diameter PVC casing, with a minimum pressure rating of 16 bar, and installed with an appropriately graded gravel pack and cement grout seal to ensure proper hydraulic isolation of monitored intervals.

Detailed scope of groundwater exploration boreholes:

- 15 x 200 m vertical holes drilled reverse circulation, nominal 6"
- 13 boreholes to be installed with 50 mm standpipes.
- Include provision for the following installation:
 - 750 m blank PVC PN16
 - 2250 m 1 mm machine slotted PVC PN16

- 15 PVC end-caps
- Borehole installed with 2 – 5 mm sub-rounded gravel across the screened interval
- 3 m of bentonite pellets
- Boreholes backfilled above the bentonite
- Sanitary seal at ground surface: cement grout from 0 – 2 m below ground level
- Concrete plinth (0.3 m x 0.5 m x 0.5 m) and lockable steel cover

Driller to record water strikes and airlift flow rate after each water strike

Table 2: Standpipe piezometers. – provisional details (for the approximate locations see ‘Standpipe_PROPOSED’ in Figure 1)

ID (PROVISIONAL)	X	Y	Description	Depth (m)	Length slotted PVC (m)
AR_hydro1	785502	346425	East structure-controlled stream	200	134
AR_hydro2	785601	346507	East structure-controlled stream	200	134
AR_hydro3	785774	346641	East structure-controlled stream	200	134
AR_hydro4	786051	346718	In-pit structure-controlled stream	200	134
AR_hydro5	786091	346973	structure controlled stream	200	134
AR_hydro6	786330	346715	structure controlled stream	200	134
AR_hydro7	786344	346597	structure controlled stream	200	134
AR_hydro8	786407	346393	structure controlled stream	200	134
AR_hydro9	786394	346242	structure controlled stream	200	134
AR_hydro10	786289	346050	structure controlled stream	200	134
AR_hydro11	786087	345941	structure controlled stream	200	134
AR_hydro12	785688	345926	structure controlled stream	200	134
AR_hydro13	785530	346015	structure controlled stream	200	134
AR_hydro14	785989	346763	structure controlled stream	200	134
AR_hydro15	786031	346450	structure controlled stream	200	134

Dewatering boreholes

Depending on the results of the probe drilling, two dewatering bores are planned, drilled to approximately 200 m below ground and installed with 200 mm PVC, minimum pressure rating 16 bar, gravel pack bentonite seal at depth and cement seal near surface. Refer to Table 3 and the schematic drawing for further details. The locations are preferably one inside the pit and another one outside the pit boundary.

Table 3: Dewatering bore. – provisional details (for the approximate locations see ‘Standpipe_PROPOSED’ in Figure 1)

ID (PROVISIONAL)	X	Y	Description	Depth (m)	Length slotted PVC (m)
ARGW01	786394	346242	Dewatering bore - north wall structure	200	134

ARGW02	786031	346450	Dewatering bore - west wall thick saprolite	200	134
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Packer testing and VWP installation

At this stage we plan to undertake packer testing and VWP installation in 10 inclined geotechnical boreholes. The details are summarised below and in Table 4.

Packer Testing

Contractor to perform packer test for 10 diamond cored holes (inclined 65 – 80 degrees). System capable of single and double (straddle) testing in PQ and HQ cored boreholes. Refer to Table 4 for more information.

Single packer – drill stem testing during drilling of the overburden (saprolite and saprock material), nominal 10 m intervals and five (4) tests per borehole, total of twenty-five (40) tests. A low-pressure test system is required to avoid damage to the borehole wall.

Straddle packer 5 - 15-meter test intervals (as required by KGM), approximately 5 – 7 tests per borehole depending on the borehole depth, nominal total of (60) tests.

Vibrating wire piezometers (VWPs)

boreholes will be installed with three (3) VWPs at approximately 35, 75 and 200 m down hole.

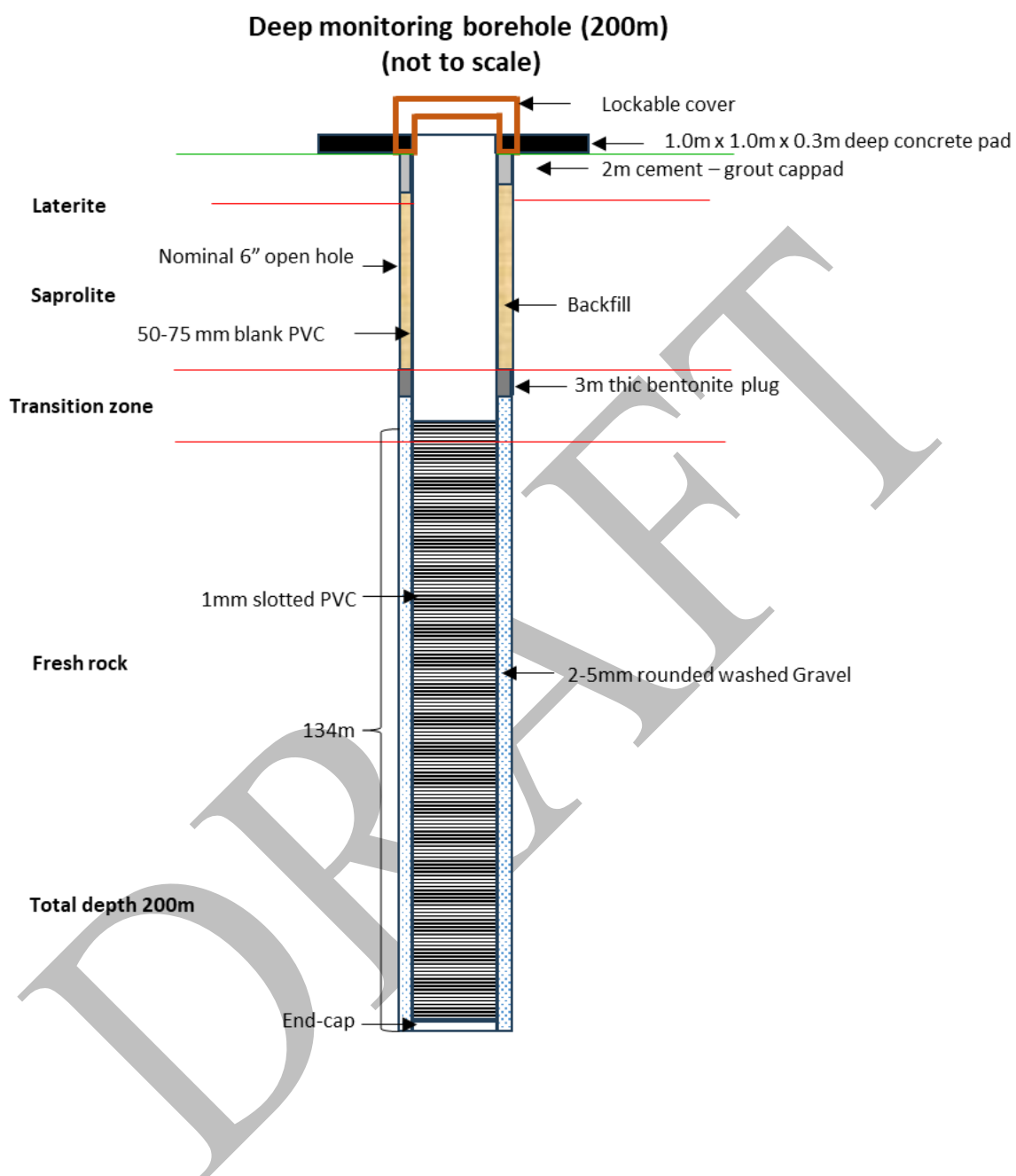
All distances are indicative, final installation depths to be decided by the supervising engineer.

Table 4: Indicative packer testing and VWP details

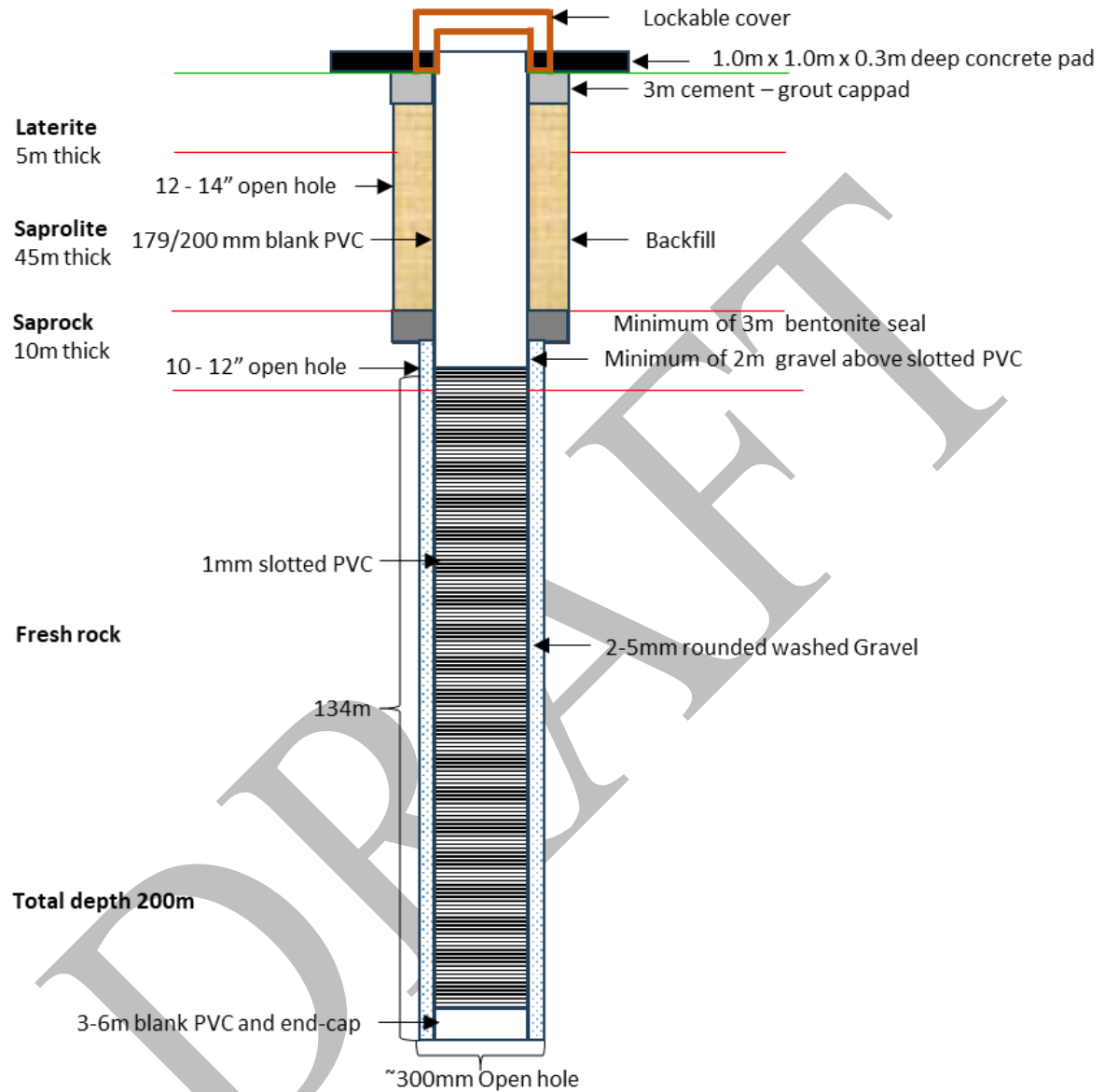
ID (PROVISIONAL)	Length (m)	No. Single packer test	No. Double packer tests	No. VWPs
ARVWP1	220	4	5	3
ARVWP2	280	4	5	3
ARVWP3	380	4	7	3
ARKVWP4	380	4	7	3
ARVWP5	380	4	7	3
ARVWP6	220	4	5	3
KVWP1	250	4	6	3
KVWP2	290	4	6	3
KVWP3	290	4	6	3
KVWP4	250	4	6	3

Appendix A: Indicative borehole construction drawings

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Typical pumping borehole (not to scale)



BOQ

Description	Quantity	Unit	\$/Unit	Total US\$
Site establishment, Mob. and Demob, Project Mgt	1	lumpsum	\$ -	\$ -
Packer Testing (4 single, 6 doubles per hole)	100	each	\$ -	\$ -
Supply of vwp's	30	each	\$ -	\$ -
Supply of Cellular dataloggers + solar pannel	10	each	\$ -	\$ -
Supply Blue pvc cable	4000	each	\$ -	\$ -
vwp Installation & Setup	10	each	\$ -	\$ -
Bentonite powder, cement and HDPE pipe for grouting, co	10	each	\$ -	\$ -
Analysis and preparation of the packer testing report	10	each	\$ -	\$ -
				0
Total				0