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# Nupower Resources Ltd

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## Standard Operating Procedure

### Collecting A Water Sample



Prepared By Ag Infocus Pty Ltd  
20<sup>th</sup> August 2007

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## AIM OF PROCEDURE

To Collect a water sample from a bore, windmill, solar (mono) and diesel motor.

## EQUIPMENT REQUIRED

- 20 Litre Bucket
- Reel and Balls (2 sized – Larger & Small)
- Beaker
- Funnel
- Cotton Wool
- 2 Bottles & Caps per sample
- Paint Marker

## COLLECTING FROM A BORE

### 1.1 Discovering If The Bore Has Water To Collect



1. Drop a marble down the bore. Ensure you LISTEN for a “hitting the water” thud sound.
2. If the bore has water proceed to collect a sample

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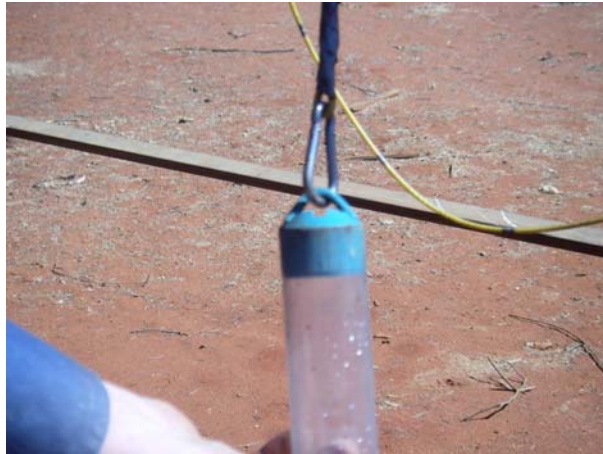
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## 1.2 Collecting a Water Sample Via A Reel and Bail

1. Select the appropriate size bail for the bore hole size.
2. Clip the bail onto the end of the reel cord



3. Lower the bail and LISTEN for when the bail takes water.



4. Note the distance on the cord (there are distance markers every half a metre).
5. Lower the bail for an extra 5 metres.
6. Raise the bail. (Handy Hint, Best to pull up the cord, not roll it up on the reel) as you may need to collect more than one bail).

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7. If the bail is not holding the water collection when you pull it up, it is suggested you clean the ball at the end of the bail with distilled water to remove any particles that maybe blocking the seal.
8. If the water is extremely dirty and the bail will not hold water, you may need to tape some cotton wool to the outside of the bail and have patience to let the bail take water as it will be filtering the water as it enters the bail.



9. Refer to step 5 Filtering (Optional), 6 Rinsing,, 7 Sampling, and 8 Labelling

## COLLECTING FROM A WINDMILL, SOLAR, DIESEL MOTOR



A closed bore will be connected to a windmill, solar system and/or diesel motor. Depending on the system, the diesel motor or solar system may have to be started or you may be lucky

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that the windmill is turning. Therefore a water sample will have to be collected via one of the options – the pipes leading to a tank, or disconnect the pipes at a junction.

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### 1.3 Ensure The Sample Is “FRESH”

1. Flowing water is essential.
2. NOT from a tank.
3. If a system was started, please let water flow for a period of time to ensure the sample is “FRESH” – to ensure the water has not been sitting in the pipes.

### 1.4 Collecting A Water Sample Into A Bucket



1. Rinse the bucket with the collection water and dispose of water.
2. Collect a sample of approximately 5-8 litres.

### 1.5 Filtering (Option)

1. If the collection water is dirty, the water sample will require filtering.
2. Place a section of cotton wool in the funnel and pour the water into a bottle/beaker via the funnel.

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## 1.6 Rinsing

1. All beakers, bottles and funnels need to be rinsed with the sample water.
2. Pour the sample water from the bucket into the beaker.
3. Rotate the beaker on an angle and swirl the sample to rinse the sides of the beaker.



4. Pour the rinse from the beaker into a bottle via the funnel. Get the water to rinse all areas of the funnel.



5. Remove the funnel from the bottle, place the cap on the bottle and shake the bottle.
6. Place the funnel in the second bottle, pour the rinse water into the bottle and repeat.
7. Dispose of the rinse water.

## 1.7 Sample

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1. Fill up the rinsed beaker; this will be used for testing the sample.
2. Fill up the rinsed bottles; two bottles are required per sample.

### 1.8 Labelling

1. Each sample has an individual number.
2. Write this number on the bottles using a paint maker – approximately 4 times on the outside, on the base, on the cap and an area on top of the bottle.



### 1.9 Control Samples

1. Every ten (10) samples collected, collect a duplicate sample in separate bottles and label as another individual number.

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