



From: [Oakes, Ian](#)
To: [Roberts, Anthony](#)
Cc: [Wright, Paul](#); [Bradford, Julie](#)
Subject: FW: CAR Report ID: PP3139GB/0216250
Date: 15 September 2014 09:25:56

EDRM / PR

From: ICraven@coryenvironmental.co.uk [mailto:ICraven@coryenvironmental.co.uk]
Sent: 12 September 2014 09:49
To: Oakes, Ian
Subject: CAR Report ID: PP3139GB/0216250

Ian

In the above CAR report there is a requirement for Cory to submit a programme of works to resolve the issues of high leachate head readings and blockages by 12th September 2014, and also that the works should be complete by 31st October 2014. As a response Cory propose to undertake the following items:

1. The blockage in re-drilled leachate monitoring point MP1a was removed using a high suction pressure vacuum tanker on the 8th July. This well has subsequently been used for monitoring and has shown similar levels to LC1. Cory believe that this is due to perched levels within the chamber but we will install a small electric pump within the chamber to quickly pump down any perched levels and undertake regular monitoring thereafter. This pump will be installed before the end of September 2014.
2. The re-drilled monitoring point MP1b already has a pneumatic pump installed within the chamber but suffers from stalling possibly due to gas pressure. This pump will also be replaced with a small electric pump to remove any perched leachate levels quickly, so that a more accurate monitoring of actual levels is available. This pump will also be installed before the end of September 2014.
3. Within both of these monitoring points we will attempt to install separate dip tubes so that we can still dip whilst pumps are in position. Trying to dip in chambers with pumps already installed often leads to entangled dip meters and blockages in the pipe.
4. A new electric submersible pump will be also be installed within the intercell bund of Cell 3, in effect replacing the current diesel unit. This will have the benefit of being completely automated and remove the necessity of having to fuel up the diesel pump so close to the surface and ground water collection point. We will also be redesigning the collection point in order that we can get a gas tight seal around it when we complete the rest of the temporary capping in this area.

5.

Finally, but not really in relation to leachate monitoring, we are proposing to collect the ground water produced via the middle sidewall collection pipe on the Eastern Flank, within a contained storage vessel. This will segregate this clean water from any surface or ground water collecting at the main ground water sump, and allow us to pump it directly to the North East lagoon. At the moment this water is collected within a small clay bunded lagoon and pumps via an electric submersible to the North East lagoon. However, when it rains the lagoon can become silty so we have to switch off this pump let the lagoon drain directly into the main ground water sump and then pump all the way round to the North West lagoon. Obviously this will result in a more efficient pumping operation and a smaller volume of water collecting in the base of the quarry. To explain the idea more fully I can show you at our site meeting on Tuesday 16th September 2014.

Thanks

Kind regards

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