Outlook

Phibion's Real-Time Density Sensor

From David Frazer <david.frazer@phibion.com>
Date Tue 12/24/2024 11:06
To Marcelle Watson <Marcelle.Watson@lynasre.com>
Cc Timothy Doherty <tim.doherty@phibion.com>

Hi Marcelle,

I just wanted to reach out and thank you again for hosting us and keeping an eye out on Josh during his surprise extended visit.

Despite the setback from MM16's hydraulic leak and the destruction of the Antenna shroud during Qantas transit, I would consider the trials conducted at your dam a major success.

What does this mean? Here is a brief summary:

- We conducted a shear-vane exercise and collected values from random points (of known GPS coordinates)
- We ran the Real-Time Density Sensor during the entire exercise, collecting data at each shear-vane point and every other point in between
- We used a Neural Network to correlate the data between the SV results and the Density Sensor data
- We have been able to present a reasonably accurate map of density data across the entire dam

Please keep in mind that this is the first trial of its kind at this capacity ... further validation and future trials are still required but this has certainly boosted my confidence in our technology.

Please find a visual (only) of the results at 200mm, 500mm & 800mm depths. You can see that the left panel presents the shear-vane results and the right panel presents sensor values.

I'm hopeful that we can get out your way again and conduct further validation trials sometime in Q1 2025.

Thanks again

kind regards,
David

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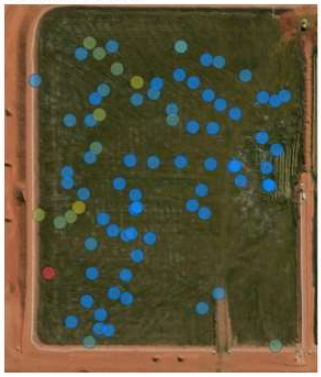
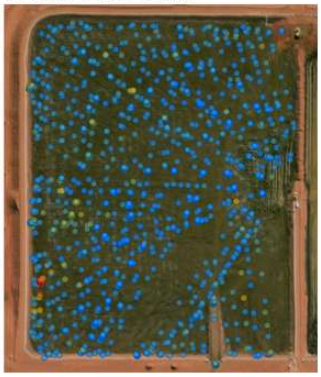
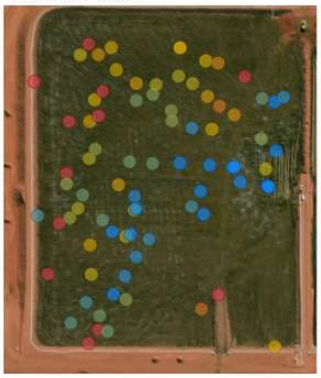
200mm SV values



200mm Predicted values



500mm SV values



500mm Predicted values

800mm SV values

800mm Predicted values