



Innovations in
**Fluid
Management
& Extraction**

By Charlie Petrie & Ricardo Holt





Why innovate?

- Depth limitations
- Inefficient material transfer
- High cost of extraction
- Health and safety risks
- Environmental impact
- Traditional methods.

Innovation makes life easier

- Optimise resource
- Minimise handling & movements
- Cost of extraction
- Operational safety
- Environmental sustainability
- Technology.

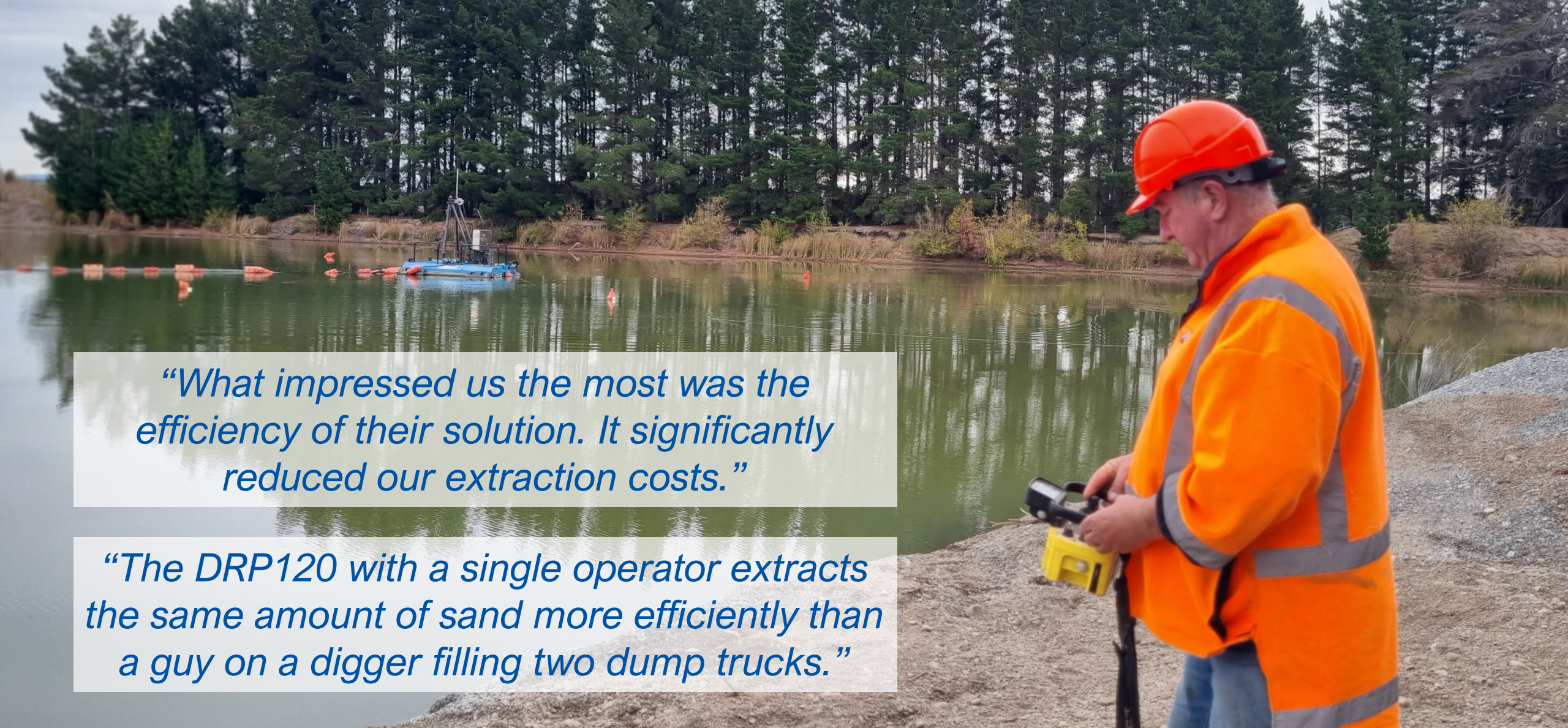


How does this help you?

- Speed
- Safety
- Cost / ROI
- User friendly
- Maximizes resource
- Minimize downtime
- Environmental compliance
- Enhanced Technology.



Christchurch Ready Mix Concrete



“What impressed us the most was the efficiency of their solution. It significantly reduced our extraction costs.”

“The DRP120 with a single operator extracts the same amount of sand more efficiently than a guy on a digger filling two dump trucks.”

Kingscliff Sands


"We think everyone should be using these, the more people that know about these, the better."

"It delivered 120,000 tons in the first 600hrs of production."



Advantages of Technology

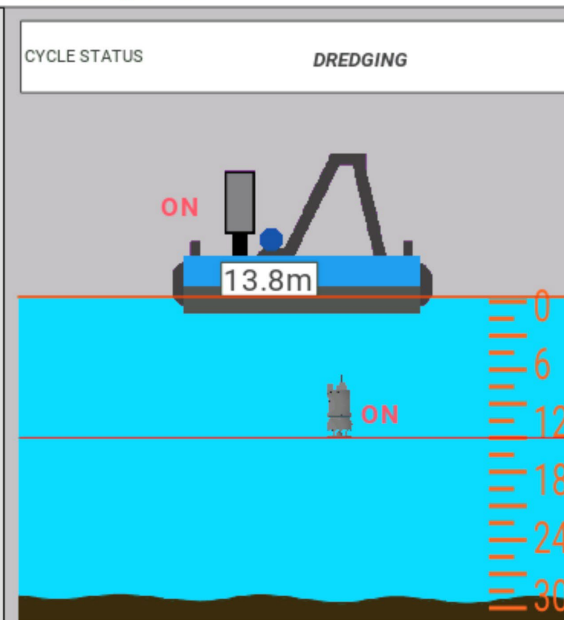


08/07/2024 13:10:58 logged as **DRAGFLOW** Remote Online Settings  1
PAGE: Automatic Cycle View operator **ULTIMATE EFFICIENCY**

CYCLE STATUS **DREDGING**

Pause/ Stop AutoCycle	
Pause	Stop
PUMP WEIGHT	2577 kg
PUMP CURRENT	208.5 A
BOTTOM REACHED	14.1 m
ACTUAL DEPTH	13.8 m
TARGET DEPTH	17.1 m
VERTICAL STEPS	53 /9999
DENSITY	0.0 %
FLOW	607.2 m ³ /h

X: 1.6 °
Y: 0.9 °
GPS
Automation parameters
>

A diagram illustrating the dredging cycle status. It shows a dredger at a depth of 13.8m and a pump at a depth of 12m. The dredger is labeled "ON" and the pump is also labeled "ON". A vertical scale on the right indicates depths from 0 to 30 meters. The diagram is set against a blue background representing water and a brown background representing the seabed.

Remote Monitoring

Daily Customer Breakdown [Today so far](#)



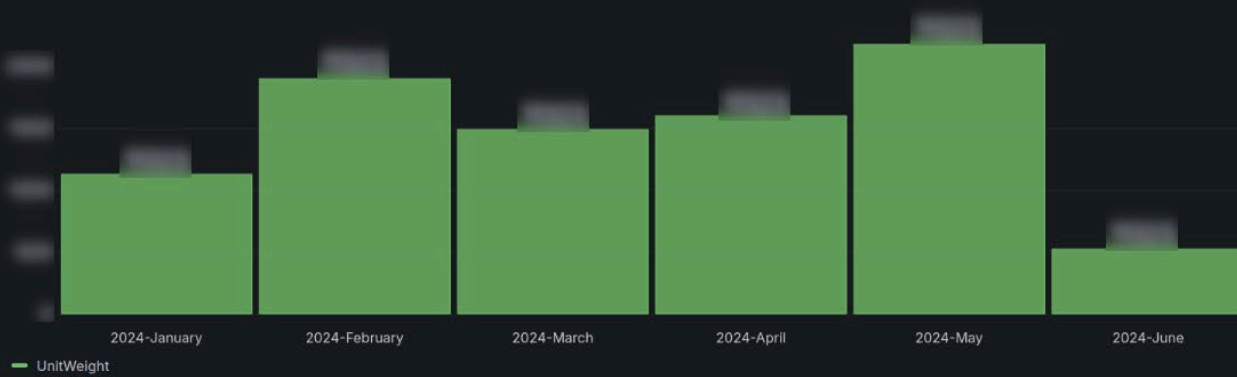
Weekly Customer Breakdown [This week so far](#)



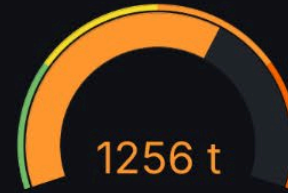
CA Numbers [This year so far](#)



Yearly Tonnage by Month [This fiscal year so far](#)



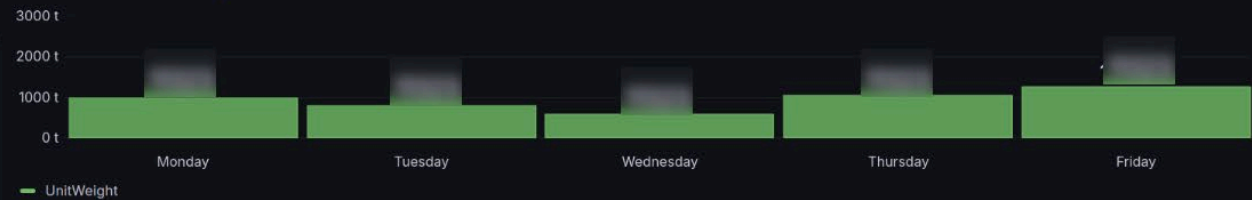
Daily Tonnage [Today so far](#)



Weekly Tonnage [This week so far](#)



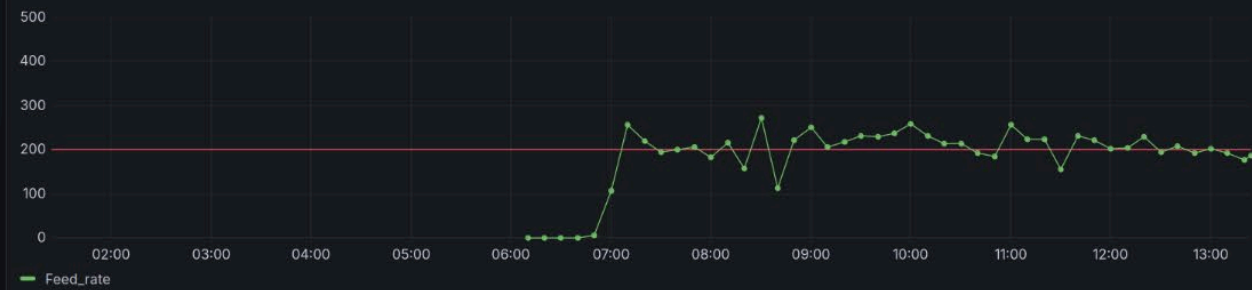
Weekly Sales Tonnage [This week so far](#)



Weekly Production Tonnage [This week so far](#)



Belt Weight Time Series [Last 12 hours](#)

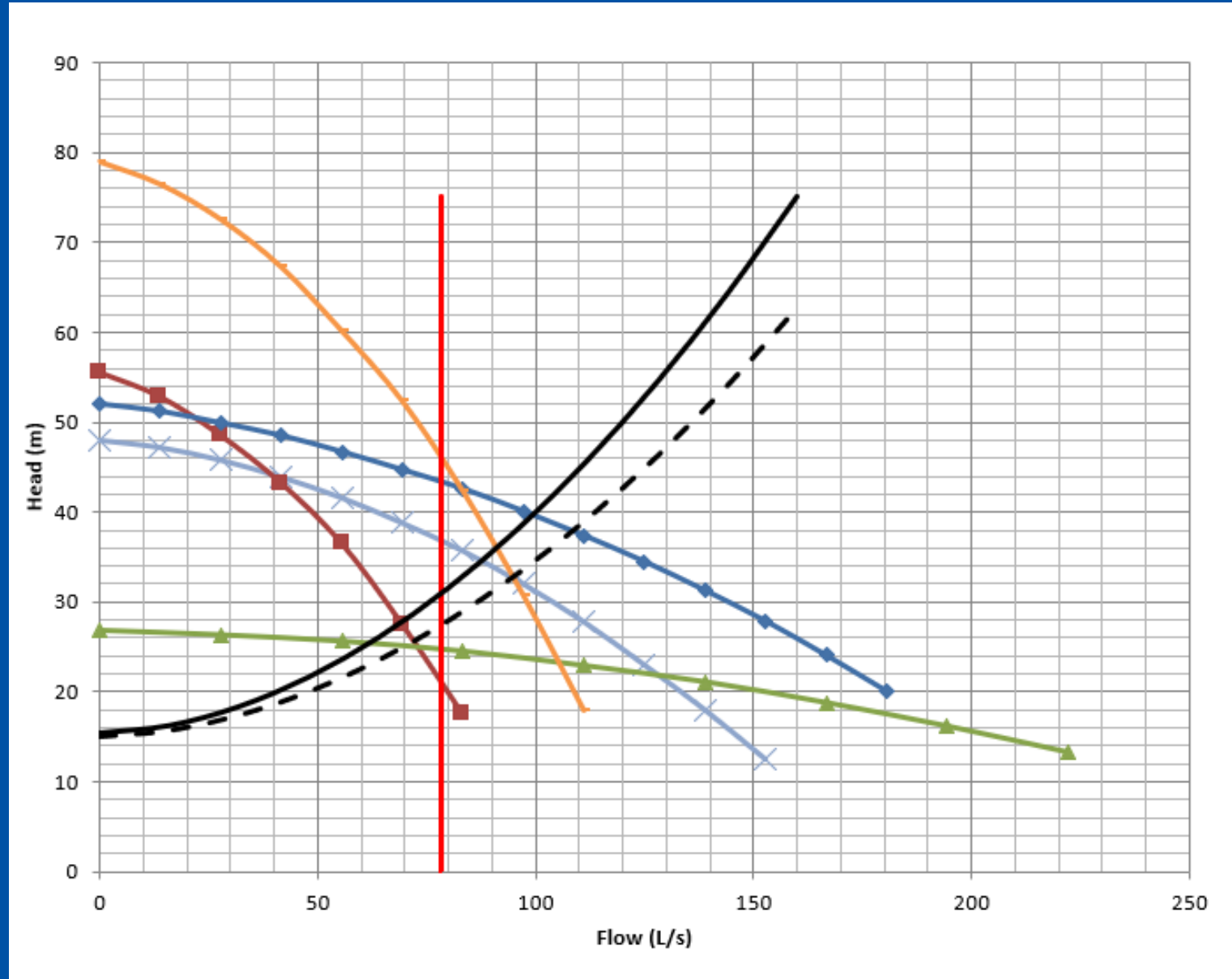
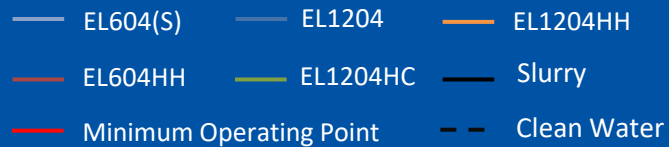




How are we different?

Capabilities & Expertise

- Slurry dynamics and calculations
- Selection and design
- Cost per ton or m³
- Calculated ROI
- On site installation, commissioning, and training.





Q & A





Stand 37