



Optimizing Waste Handling for Urban Pipeline Projects

MetaFLO delivers regulatory compliance and cost savings for TransCanada's Kings North project, offering a sustainable solution for waste management in high-traffic urban environments.

CASE STUDY



PROJECT

MF006 - TRANSCANADA KINGS NORTH PROJECT

Greater Toronto Area, Canada

MF006

MetaFLO Technologies

Challenge

TransCanada's Kings North pipeline project, located in a densely populated urban area, generated extensive waste from horizontal directional drilling (HDD). Managing this liquid waste presented unique challenges, as traditional liquid transport methods would increase costs and lead to significant disruptions on congested city roads. Additionally, strict environmental regulations required the project to minimize GHG emissions and adopt sustainable practices. Balancing these regulatory demands with the need to manage costs and avoid inconveniencing the local community was essential to ensure the project's smooth progress.

Solution

MetaFLO implemented an on-site solidification process, transforming the liquid HDD waste into a stackable, solid form suitable for reuse. The treated material could be repurposed as clean fill for local rehabilitation and landscaping projects, aligning with sustainable urban development goals. By treating the waste on-site, MF006 minimized the need for liquid transport, reducing transportation costs and lessening the project's impact on local traffic. This approach also streamlined regulatory compliance, as the solidified material could be stored and used in a way that met all environmental standards, reducing the risk of regulatory infractions and fostering community support.

Outcome

✓ **COST SAVINGS**

By solidifying the waste on-site and repurposing it locally, MetaFLO helped TransCanada achieve over 30% savings on disposal costs. The elimination of liquid transport fees allowed TransCanada to allocate resources more efficiently.

✓ **GHG EMISSIONS REDUCTION**

The reduced transportation requirements contributed to a 67% reduction in greenhouse gas emissions, reinforcing TransCanada's environmental commitments and helping to achieve sustainability goals.

✓ **COMMUNITY AND REGULATORY BENEFITS**

MetaFLO's solution minimized disruptions to local infrastructure and ensured the project met regulatory requirements, reinforcing TransCanada's reputation as a responsible urban developer and supporting positive community relations.

