GoGreen®
Think green, Be green

Customer Sector: Utilities

Project: Sewerage Works Restoration

Date range: 21st March 2022 – 1st March 2023

Cost Saving: £80,000+

Our customer works within the Utilities sector and is an industry leader in maintaining existing treatment plants, and installing new equipment, the customer completes projects to the highest standards with a full understanding of the regulatory environment in which their clients operate.

Scope of Works

As part of an ongoing maintenance contract, the customer contacted Go Green to assist with finding an innovative restoration solution to treat and dispose of a high volume of sewage treatment material stored in various tanks on site.

Problem

To gain acceptance into a restoration scheme, the relevant testing had to be in place to ensure the material was physically suitable for acceptance into a restoration facility. Go Green's Material Specialist visited site and completed a Waste Sampling Plan and Classification Suite.

The Soil Analysis and Waste Acceptance Criteria testing noted Total Organic Carbon (TOC) and Loss of Ignition (LOI) levels, Hazardous TPH levels along with High Iron levels. The analysis concluded that there were approximately 500 tonnes of material which should be disposed under EWC/LOW 19-02-05* as hazardous sludges. If landfill was utilised as the last resort, 19-10-05* could also have been considered as 'other fractions containing hazardous substances' from materials from waste and water treatment.

Solution

Go Green engaged with our Supply Chain Partners to source an alternative solution to landfill; not only would this be a significant cost saving, but it would also offer an environmentally friendly alternative to landfill. After reviewing the Waste Sampling Plan, Go Green visited site with their Supply Chain Partner to visually inspect the material and to discuss the process with the customer's site team.

It was agreed that after excavation, the material would be screened to eliminate as much rag and grit as possible. Via the on-site Centrifuge, the material was then mixed with up to 50% organic cake mixture to ensure its consistency was to an acceptable level for transportation; keeping the rag and grit to minimal amounts was also fundamental to acceptance to the facility. Once at the facility, due to the high hazardous soil inputs the process would involve diluting the material 1:10 with soils on site in order to dispose of the substance.

Outcome

Go Green worked in partnership with the customer to fully understand the requirements of the project which also involved effective communication with our Supply Chain. This ensured all parties worked together in getting the material to its final destination for processing and achieving 100% diversion from landfill for all material removed from site. By sourcing an alternative solution to landfill, Go Green saved the customer £98.60 per tonne landfill tax, which is a cost saving of £80,753.

819
Tonnes Removed

74
Tonnes Recycled

745
Tonnes Recovered

100
Diversion Rate
Diversion From Landfill