



CASE STUDY

Landfill System Upgrade

DESCRIPTION

Conducting a major system upgrade on an EPA Superfund Site north of Los Angeles which contains the toxic vapors and liquid waste that resulted from a former hazardous waste disposal facility. This Landfill System Upgrade was a complex project that included the installation of landfill vapor recovery wellheads, leachate pumping wells, and multiple HDPE and PVC lines – all while navigating extensive reporting and compliance requirements associated with Superfund Sites.

MAIN TASKS

- Landfill vapor recovery well heads.
- Multiple PVC lines and custom fittings to accommodate hillside angles, including 1,000ft of 24-inch PVC lines for vapor collection with 4-inch lateral lines connected to gas wells for Methane recovery.
- Treatment components for a Leachate Pumping and Treatment System.
- Multiple HDPE lines, including Dual Contained HDPE Leachate Conveyance Lines, HDPE Micro Turbine Lines, and HDPE Compressed Air Lines.
- Large vaults that tied into existing double-contained leachate lines
- New well boots that tied into existing HDPE lines.

CHALLENGES

Multi-Party Coordination – By their very nature, EPA Superfund Site Projects are uniquely challenging because of the significant oversight and the hazardous nature of the materials. This involved the added complexity of being a multi-company project that required high levels of coordination, teamwork, and extensive communication.

Active Lines with Hazardous Materials –

The greatest direct challenge of this project involved tying into active leachate lines. At each stage of this process, including line flushing, the highest levels of precautions were maintained due to the toxic nature of the leachate. Additionally, the system needed to remain in working order on a daily basis, so our team needed to ensure limited downtime when performing all tie in tasks.

INTERESTING POINTS

The project required digging up portions of the old landfill and relocating the buried debris to facilitate a future development project. This resulted in unknown components of the project that required intense monitoring and teamwork to ensure compliance to the highest standards of Health & Safety.



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