



DRAINTUBE®



GEOCONDUCT®



ALVEODRAIN®



NOTEX C®



NOTEX®



GEOTER®



MINING
INDUSTRY



ENVIRONMENTAL
ENGINEERING



BUILDING
CONSTRUCTION



PUBLIC
WORKS

Sunshine Canyon Landfill

Sylmar, California – LFG Collection

CONTEXT

The Sunshine Canyon Landfill, located northwest of Los Angeles, California, has served multiple municipalities since 1958 and currently handles approximately one-third of the daily waste from Los Angeles County. It receives roughly 8,300 tons of waste per day, or more than 2.3 million tons annually. The technical team at Republic Services inc. wanted a simple and cost-effective solution for odor mitigation and collecting landfill gases that would eventually accumulate under the geomembrane liner in a new cell.

ISSUES

In 2012, a class action lawsuit was filed by neighborhood activists citing odors from garbage and landfill gas as a nuisance affecting the health and well-being of residents. Instead of prescribing specific mitigation measures, it was agreed that a performance requirement that the odor be abated would be implemented. The Sunshine Canyon Landfill has made many improvements over the years to address these issues and satisfy the performance requirements. In 2020, landfill operations were planned in active areas that were anticipated to produce odors. As such, an LFG collection system was required to be installed in a specific area of concern.

RETAINED DESIGN

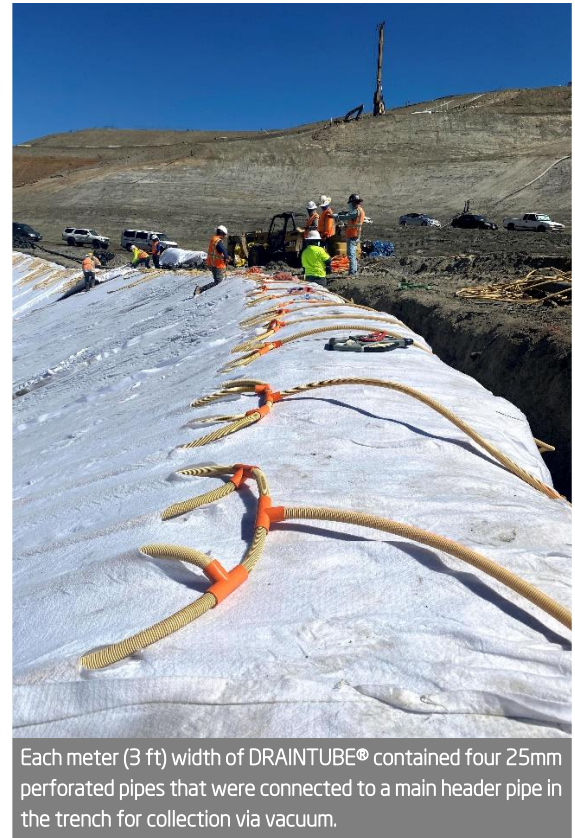
It was recommended by the engineer to use DRAINTUBE 303P FT4 D25 to collect fugitive LFG from beneath a liner to be placed. DRAINTUBE 303P FT4 D25 was selected due to its high flow capacity. DRAINTUBE® comes with accessories to tie the perforated mini-tubes into a 25 mm diameter solid pipe which can then be plumbed into the header pipe. This design reduces the penetrations in the header pipe to maintain vacuum on the system beneath the liner.

ADVANTAGES

- The DRAINTUBE 303P FT4 D25 tied directly into the header system to pull a vacuum on the entire lined area.
- The product will remain in place and in service even after waste is eventually placed atop the lined area.
- Fast delivery and installation to meet deadlines.
- Safe and efficient installation.
- 100% MQC testing passed.
- Onsite technical support.



Installation of DRAINTUBE 303P FT4 D25 for gas venting below the liner. Each DRAINTUBE® panel is connected to the next one using Couplers.



Each meter (3 ft) width of DRAINTUBE® contained four 25mm perforated pipes that were connected to a main header pipe in the trench for collection via vacuum.

PROJECT SUMMARY

Products	DRAINTUBE 303P FT4 D25		
Quantity	18,800 m² (202,421 sq ft)	Design	Geo-Logic Associates
Application	Gas collection	Installation	D&E Construction
Owner	Republic Services	Year	Installed Summer 2020



DRAINTUBE®



GEOCONDUCT®



ALVEODRAIN®



NOTEX C®



NOTEX®



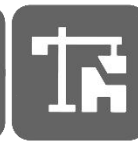
GEOTER®



MINING
INDUSTRY



ENVIRONMENTAL
ENGINEERING



BUILDING
CONSTRUCTION



PUBLIC
WORKS

AFITEX-TEXEL GEOSYNTHETICS ADDED VALUE

The expertise of the AFITEX-Textel team provided the designers with all the necessary information and technical support to choose the most suitable solution based on the project's parameters.

« What AFITEX-TEXEL has to offer »

AFITEX-Textel will be pleased to assist you in the evaluation and design of your next projects, because our approach has always been and always will be the same: the right product, in the right place, well installed with rigorous quality control.

In case you need technical support? Feel free to refer to the AFITEX-Textel team. Expert services will be provided free of charge:

- Technical Assistance
- Assistance During Design
- Technical Training
- Technical Documentation
- Calculation Tools
- Specification & Bid Documents
- Installation Guidelines
- Onsite Technical Support



YOU NEED MORE INFO?

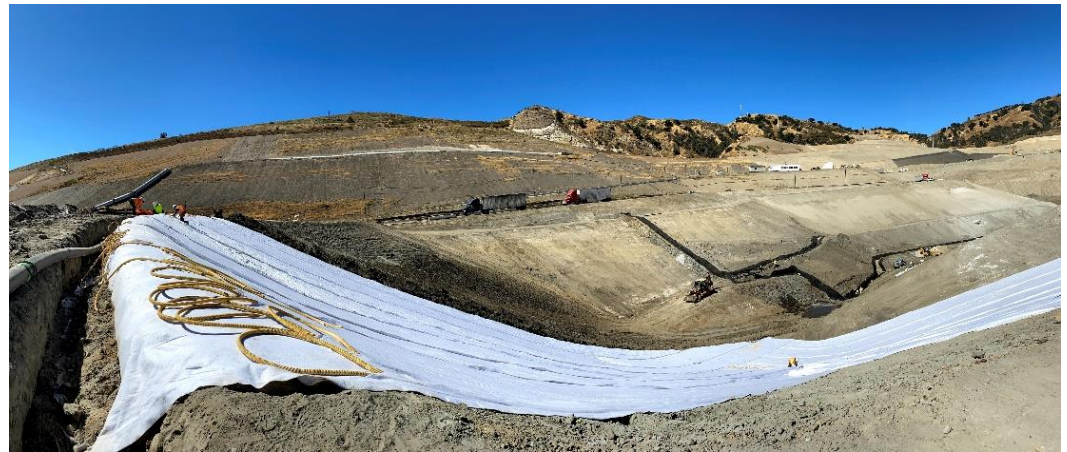
Never hesitate to contact one of our specialists in order to know more about the benefits you can get from your projects

1-800-463-0088

Available documentation

- Technical data sheets
- Installation guidelines
- Standards & Studies
- List of projects
- Design Software

www.afitextexel.com



Sunshine Canyon Landfill, California, 2020



REPUBLIC
SERVICES

1300, 2^e rue, Parc Industriel
Sainte-Marie-de-Beauce (Québec)
G6E 1G8 CANADA

afitex • Texel
GEOSYNTHETICS

Important notice - The information contained in this document is provided for promotional purposes only. Thus, not all the characteristics of the project have been mentioned. No guarantee is offered by AFITEX-Textel or its partners with regard to the information contained in this document.