LEAK DETECTION
SURVEY REPORT

Project Name:	
Location:	
Client:	
Contractor:	
Technician:	
Liner Type:	
Survey Date:	
Voltage:	

Stamp and Signature:

ELIS TECH
AUSTRALIA
GEOMEMBRANE LEAK DETECTION

LEAK DETECTION SURVEY REPORT

Project Name:	
Location:	
Liner Type:	
Contractor:	
Technician:	
Survey Date:	
Device:	

Distance:	Number of Leaks Detected:
483.95 m	7 leaks

Survey Map:

GPS Coordinates of the Discovered Leaks:

1	16° 24′ 33.85025″ S / 136° 5′ 16.24146″ E
2	16° 24′ 34.20044″ S / 136° 5′ 16.18652″ E
3	16° 24′ 33.54813″ S / 136° 5′ 16.29639″ E
4	16° 24′ 33.88458″ S / 136° 5′ 16.13159″ E
5	16° 24′ 33.91205″ S / 136° 5′ 16.07666″ E
6	16° 24′ 34.14551″ S / 136° 5′ 16.02173″ E
7	16° 24′ 34.11804″ S / 136° 5′ 16.02173″ E

Pictures of the discovered leaks can be found at the end of this report.

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1. Survey Background

Technician Tomas Barborjak carried out an electrical leak detection survey on 25. 09. 2025 in West D West Wall. Leak detection survey was carried out using eRaptor device capable of checking the integrity of geomembrane.

2. Picture of the Survey Site

3. Description of the Survey Performed

eRaptor ARC–Tester technology was developed specifically for quality control of exposed geomembrane liners in accordance with the ASTM D7953 standard. eRaptor electronically verifies the integrity of the entire surface of including welds. This allows technician to find all defects (e.g. defects caused by production, transport, elements and/or installation). Survey starts by connecting the transmitter to a grounded saturating electrode. The transmitter then sends modulated electromagnetic waves and pulses through the saturating electrode. Technician moves the eRaptor electrode over the inspected area. In case of liner damage the eRaptor electrode receives a modulated signal, which is transmitted to the receiver. The signal is subsequently processed and evaluated in the receiver. eRaptor immediately signals to the technician that the eRaptor electrode is close to some liner damage. Based on the signal technician performs a detailed area survey and determines the precise location of the damage. eRaptor is capable of detecting microscopic leaks with high precision.

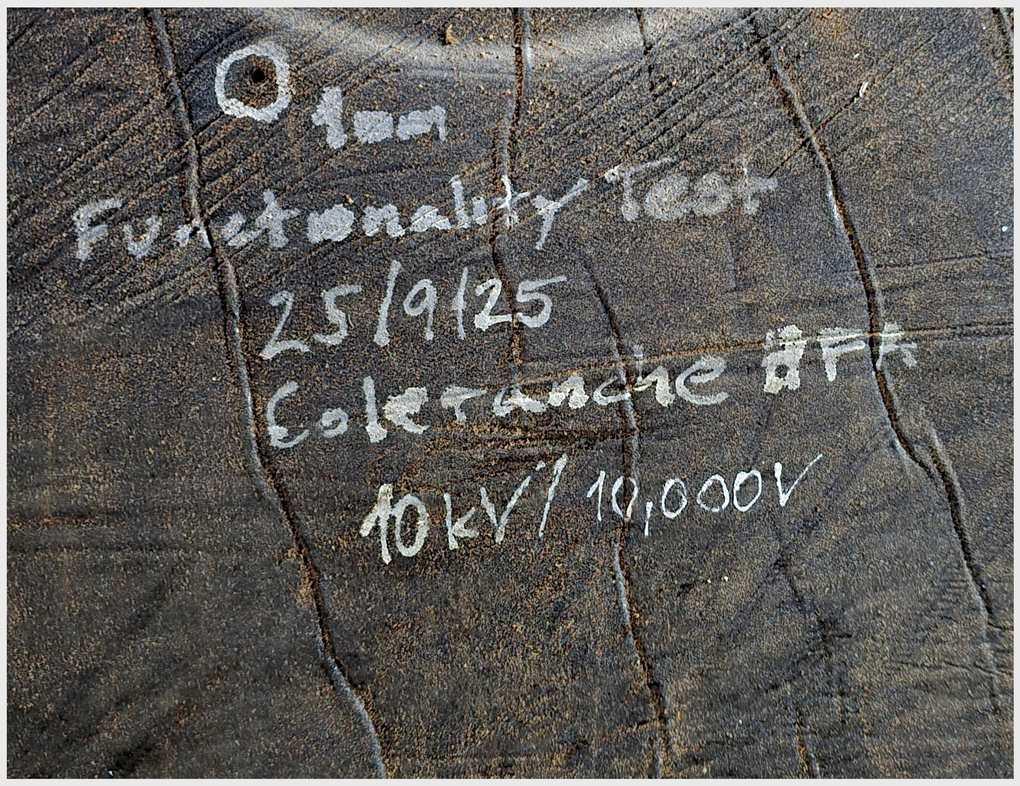
4. Results of the Survey Performed

The survey performed on 25. 09. 2025 with eRaptor device covered distance of 483.95 m. eRaptor device identified 7 leaks.

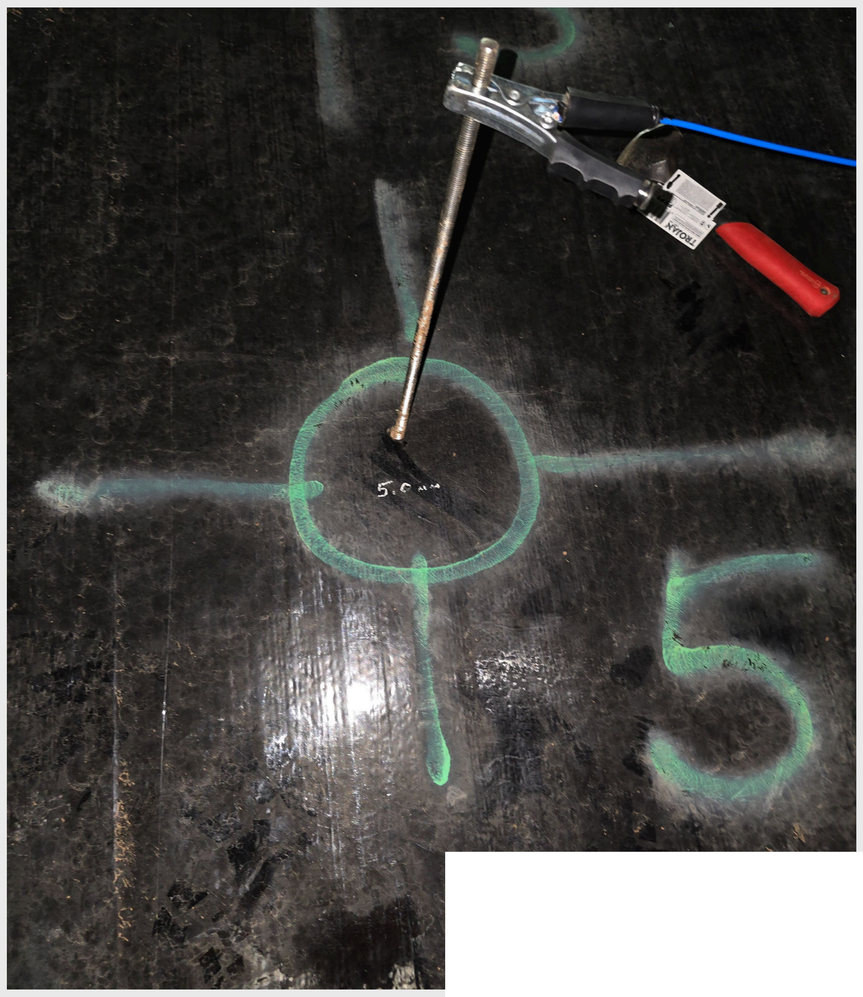
5. Technician’s Comments

LEAK DETECTION SURVEY REPORT

Functionality Test:



Grounding:



6. Pictures of the Discovered Leaks

1

damage

2

damage

3

damage

4

damage

5

damage

6

hole

6. Pictures of the Discovered Leaks

7

rock protrusion

7. As-built drawing of surveyed area (leaks detected marked as red X)