

## Test Scenario

### Section 1: Site Summary

#### Contact Details:

Site Name: **Crescent Service station**, site number **112**. Is in Cape Town, Western Cape South Africa. The physical address is **88 Hertzog Street, Cape Town, 8001**. The site telephone number is **021 123 4567** and the fax code is **021 123 4455**.

#### People and Dates:

The owner of the site is **Mr Noor Khan**. The person who collected the assessment data is **Joy Dumayi** and she is the **Environmental and Quality Coordinator**. The Interviewee is the Site Operator, **Mr Edwin Lukas**. The date of the assessment is the **09<sup>th</sup> of March 2022**.

### Section 2: Environmental Concerns

In 2019 about 150 litres of petrol leaked from an old underground line which was later repaired. In Jan 2022 when reviewing the wet stock losses noticed a loss of 200 litres of diesel in tank 2. This was later reported to the Vivo Energy site Engineer. There has been no reported petrol or diesel odours by office staff or nearby homeowners located near the site.

There has been observed or noticeable fuel staining around the tank infrastructure and forecourt due to refuelling activities. All 4 fuel storage tanks are below the ground.

### Section 3: Site Facilities

The site has 4x 23 m<sup>3</sup> underground storage tanks.

Tank 1: Petrol (unleaded)

Tank 2: Diesel

Tank 3: Diesel

Tank 4: Paraffin

No other products are stored at the site. The general soil type where all tanks are situated is Sandy soil. The site is constructed with a hard surface, a concrete slab is available in the forecourt and paving around other parts of the site. Underground service lines like water lines and telephonic lines are found around the site.

There is an onsite interreceptor for water treatment prior to disposal to municipal sewer and there is no vehicle washing facilities available. No car workshops or lube bay for car repairing are available. The site is in a relatively flat area with no elevation or steep slope.

### Section 4: Surrounding Land-use

The site is located next to a 2-story commercial office with a basement and lift shaft. All water in the Hertzog area run into municipal sewers for further treatment. There are no construction or quarry buildings within 200 metres of the site and rivers or water bodies.

The site has a groundwater abstraction borehole for use of water for ablution activities only and no drinking by site personnel is allowed. The site makes use of municipal water for drinking. From time to time especially from wet season the site does experience flooding. There are no sensitive areas e.g.,

wetlands or protected nature reserves around the site. Due to the location of the site, there are no agricultural activities taking place within 100 meters.

#### **Section 5: Tanks and Lines (Corrosion)**

The site and tanks are adequately covered to prevent water ingress. The oldest tank 10years and product line 5 years. The site has 4x23 m3 underground tanks. The tanks are dipped daily. Engineering did confirm that the tanks are painted with a special corrosion resistant coating.

The backfill material used for compacting is the same general sandy soil found around the site. The lines have been previously repaired following a leak. No electrical lines are available, and the tanks are maintained every 2 years. Presence of water is checked as part of the daily tank dipping.