



## 1.0 General Appearance

The tip is conical in appearance but with a flat plateau area. The northern end of the tip is married into the natural contours of the hillside with two fenced and stone filled shafts, the western, southern and eastern flanks are steeply to moderately dipping with housing located at the toe to the west and a watercourse at the toe in the east (Figure 10). The entirety of the tip is densely vegetated with self-set trees and thick undergrowth. A footpath runs across the northern boundary of the site, a masonry retaining wall ~ 50m in length and 4m in height runs alongside the footpath. An Armco culvert conveys flows arising from the watercourse (Nant y Groes) on the eastern side of tip – the culvert has perished and caused the footpath to collapse (currently heras fencing in place). Evidence of human interaction across the whole site, a series of footpaths and mountain bike trails cross the plateau and the eastern flanks.

## 2.0 Drainage

An unlined cut-off ditch is located along the toe of the western flank adjacent to Cenarth Drive and Conway Drive. The ditch was conveying flows from the flat area of ground to the north which appears to be boggy / wet. The watercourse (Nant y Groes) runs along the eastern flank / toe has caused some localised scouring, but the watercourse has found rock head and is generally confined to a narrow conduit.

## 3.0 Any slumping, bulging, cracks or fissures indicating movement of the tip

There was no obvious visible surface features pertinent to recent instability at the time of the inspection; however, the tips flanks are densely vegetated which could obscure any existing features.

Overall the flanks appeared to be of a uniform angle from the crest to the toe. A historical feature on the western flank was observed (Plate 13), potentially an area of previous instability as a localised area of the flank has been benched. Typically this is done as a remedial measure and

could have occurred at the time of active tipping. Below this area many of the trees displayed distorted trunks potentially indicating longstanding / on-going creep (Plate 15).

## 4.0 Seepage

Seepage from the tip itself was not evident at the time of the inspection. The unlined cut-off ditch located on the western toe was conveying flows. Flows arising from the flat boggy ground to the northwest were being drained by the western cut-off ditch.

## 5.0 Areas of Concern

- No form of protective fencing running along the top the masonry retaining wall to the north (Plate 5 & Plate 6).
- Area of potential historical movement on the upper section of the western flank (Plate 13).
- Evidence of slow on-going creep (Plate 15).



Figure 1: Location plan – approximate inspection / tip boundaries.



*Plate 1: Nant y Groes conveyed by culvert on the eastern side of the tip – localised scour.*



*Plate 2: Collapsed section of footpath above dilapidated culvert conveying Nant y Groes.*



*Plate 3: Head wall of Nant y Groes culvert on eastern side of the tip.*



*Plate 4: View from the Nant y Groes of the eastern tip flank.*



*Plate 5: Masonry retaining wall alongside the footpath to the north.*



*Plate 6: Masonry retaining wall alongside the footpath to the north.*



*Plate 7: Evidence of mountain bike trails on the eastern flank of the tip.*



*Plate 8: Evidence of mountain bike trails on the plateau of the tip.*



*Plate 9: View looking down the steeper section of the eastern flank.*



*Plate 10: View from the crest looking down the flank to Conway Drive – dense heather growth and mature trees.*



*Plate 11: View from the crest looking down the flank to Conway Drive – dense heather growth and mature trees*



*Plate 12 View from the crest looking down the flank to Conway Drive – dense heather growth and mature trees*





*Plate 13: Benched area from the crest to mid flank on the western side of the tip.*



*Plate 14: View looking down the western flank at Cenarth Drive.*



*Plate 15: Distorted tree trunks on steep section of western flank above Cenarth Drive.*



*Plate 16: Unlined cut-off ditch running along the toe of the western flank.*



*Plate 17: Unlined cut-off ditch running along the toe of the western flank.*



*Plate 18: Unlined cut-off ditch running along the toe of the western flank.*