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**RELIC SLIP VERIFICATION STUDY  
TAURANGA DISTRICT COUNCIL ENVIRONS**

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**Report prepared for:**

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## INTRODUCTION

1. This study has been carried out for Tauranga District Council (TDC) to verify the location of relic slips within the environs of Tauranga. The project has involved the following tasks:
  - Review of relic slips shown on TDC's present Geographical Information System (GIS) system
  - Photogeological interpretation using 1943 to 1997 aerial photographs to check above and identify further areas of slip activity
  - Transfer of information to GIS system
  - Review of geotechnical implications of new landslide data
 TDC's project reference is File 6518-3 and 1880-45-00. The contract details are contained in TDC's letter from Paul Baunton dated 27 June 2000.
2. A previous 1980 study by Houghton & Hegan<sup>1</sup> using vertical aerial photographs available at that time had identified about 250 relic slips and plotted these on to a 1:40 000 scale map of the city (Appendix 1). Others subsequently transposed these slip locations on to the TDC GIS system and there are significant anomalies up to and over 50m between the plotted and the physical location of the slip features. Tonkin & Taylor made further additions to the GIS information in 1994.
3. For this present report, Royden Thomson used aerial photographs provided by TDC covering the period from 1943 to 1997 to carry out a comprehensive photogeological interpretation. Field checks on the aerial photo interpretation were carried out by David Bell and Royden Thomson during the period from 7 to 9 September 2000. The information provided by TDC for this study is listed in Appendix 2 and a 1:20 000 plan of the new relic slip data is included in Appendix 3. A glossary of technical terms is included in Appendix 4.

## GEOLOGICAL BACKGROUND

4. Oliver's 1997 thesis<sup>2</sup> and a University of Waikato report<sup>3</sup> include useful summaries of relevant geological information. Figure 1 shows the main physiographical and geological features of the Tauranga area in relation to the TDC boundaries and Figure 2 summarises the general stratigraphy of the ashfall sequence areas at the Maungatapu Peninsula. The geological materials are of variable engineering quality as can be seen from the test results compiled by Oliver (see Table 1 below)

**Table 1: Properties of Tauranga soils from Oliver thesis**

|                  | Bulk density<br>- kg/m <sup>3</sup> | Direct shear strength<br>(effective parameters) |            |
|------------------|-------------------------------------|---|------------|
|                  |                                     | Cohesion kPa                                    | Friction ° |
| Post Rotoehu Ash | 1299                                | 0 - 1   | 40 - 42    |
| Rotoehu Ash      |                                     | 0 - 0.5   | 37 - 42    |
| Palaeosol        | 1402                                | 6   | 31         |
| Hamilton Ash     |                                     | 6 - 9   | 32 - 33    |

*Note: These results are based on limited soil testing in the Maungatapu area and should not be used for general design purposes as they may not be applicable to the lithologies throughout the city*

5. The Tauranga Basin contains a number of terraces that are generally preserved as peninsulas trending in a NE or NNE direction (e.g. Omokoroa, Tauranga City and Greerton, Matua, Matapihi and Maungatapu) with terrace levels at 80m, 30-60m, 12-22m, 5m and 0.5 to 1m above present sea level.

<sup>1</sup> Houghton BF & Hegan BD. *Preliminary assessment of geological factors influencing slope stability and landslipping in and around Tauranga City* NZGS Engineering Geology Report EG348, October 1980

<sup>2</sup> Oliver R. *A geotechnical characterisation of volcanic soils in relation to coastal landsliding on the Maungatapu Peninsula, Tauranga, New Zealand*. MSc Thesis in Engineering Geology, University of Canterbury, 1997

<sup>3</sup> Briggs RM et al. *Geology of the Tauranga area*. Occasional Report No 22, Dept of Earth Sciences, University of Waikato, 1996

The age and the origin of these terraces has not been well defined but have been related to four principal origins<sup>3</sup>:

- Volcanic constructional surfaces, e.g. lobes of pyroclastic flow deposits
- Volcanic and/or fluvial degradation surfaces modified and covered with airfall tephra
- Fluvial terraces formed by aggradation or lateral erosion
- Lower terraces formed by marine aggradation as a consequence of higher than present sea level

The higher terraces are thought to be the result of terrestrial aggradation during interglacial periods between 2 Ma and 150 ka.

6. The landscape is relatively old in New Zealand terms with the Hamilton Ash sequences of about 100,000 to 350,000 years old being draped across the older Tauranga Group sequences. The Tauranga coastline has been subject to major changes during recent geological times when global sea level changes have caused large coastal migration of many kilometres. Figure 3 from Davis and Healy<sup>4</sup> shows the changes in sea level and coastal geometry over the last 10,000 years. Sea level stabilised about 6500 years ago and the coast achieved its present geomorphological character about 4000 years ago.
7. Previous assessments of landsliding in the general Tauranga area have concentrated on specific problem locations such as the Minden Area<sup>5</sup> and may not be directly applicable to the TDC area. The Minden study indicated a total of 74 slips in an area of 92 km<sup>2</sup> over the period from 1943 to 1986 with an average frequency of 0.04 slips per km<sup>2</sup> per year. The same study indicated that during the March 1979 storm, there were 116 slips in one week in the 37 km<sup>2</sup> of high-density urban development in Tauranga. No useful information has been located which allows landslide dates to be correlated with specific rainfall events.

## REVIEW OF PREVIOUS INVESTIGATION AND CONSULTANCY WORK

8. The following sections review previous guidelines for defining hazard lines in the TDC area, consider these with respect to the particular type of failure mechanisms that occur in the relevant soil types and provide some comments on the validity of the hazard line approach in these circumstances.

### Hazard Lines

#### Omokoroa

9. The 1980 Tonkin & Taylor (T&T) studies<sup>6</sup> were initiated after a number of landslips along the western coastline of Omokoroa in early August 1979, immediately following a period of heavy rainfall. The largest of these landslips involved a 20m recession of a 34m high cliff along a 60m length and subsequent removal of five endangered houses. T&T noted that the failures produced distinctive slip profiles with aspect ratios as shown in Figure 4. 60% of all the major failures had ratios between 1V:1.8H and 1V:2.2H<sup>7</sup>. They defined a failure limit for landslips of 1V: 2.25H (24°) beyond which they would not expect landslips to occur. This limit applies only to one-time landslips, and toe undercutting by sea, or piping erosion at seepage exits, may subsequently cause further landslips and further cliff erosion. T&T state that *In applying the ratio 1:2.25 (2.25H:1V) to define the failure limit, cliff heights used were those assumed to exist after possible failure (e.g. in the case of land sloping towards the cliff edge). The horizontal depth chosen was measured from the toe of the cliff, with allowance for any debris or marine erosion since slippage occurred.* For new areas of subdivision or on those lots not yet built on, T&T recommended that no dwelling should be allowed within 6m of the 2.25H:1V risk zone.
10. T&T's preferred failure model is shown in Figure 5a and the slope profile at Section 6 Bramley Drive in Figure 5b. The back surface of the failure regressed from near vertical on 9 August 1979 to about 13m further inland by 21 August 1979. The exit point of the failure appears to be defined by the lower part of the old ash sequences or the top of the Tauranga Formation for all the slides in the Omokoroa report.

<sup>4</sup> Davis RA, Healy TR. *Holocene coastal depositional sequences on a tectonically active setting: south-eastern Tauranga Harbour, New Zealand*. Sedimentary Geology, 84, 1993

<sup>5</sup> Western Bay of Plenty District Council. *Minden Geotechnical Review 1992*. Compilation of reports dated 13 March 1992

<sup>6</sup> Tonkin & Taylor. *Omokoroa Point land stability investigation*. Report to Tauranga District Council, May 1980

<sup>7</sup> The text of their report is confusing since horizontal measurements as referred to as depths



## 1980 NZGS study

11. The 1980 NZGS study<sup>1</sup> noted that *Analysis of 17 deep-seated failures at Omokoroa reveals that there is a close approximation to a height/depth ratio of 2:1*. They suggest that this relationship should be used to delineate a zone of high risk adjacent to the coastline. However, this erroneously reverses the Horizontal and Vertical parts of the ratio, as well as rounding the ratio from 1V:2.25H to 1V:2H, compared with the original information in the 1980 T&T report.

## Failure mechanisms: Tauranga

12. Rob Oliver's 1997 thesis includes a review of failure mechanisms that have been applied to Tauranga landslides. Much of the following information has been abstracted from this thesis.
13. The T&T failure model considers an active-passive wedge (Figure 5a). This can be analysed by graphical procedures<sup>8</sup> or by the Sarma non-vertical slice method of slope stability analysis<sup>9</sup>. Although this failure mechanism is relatively common and readily analysable, it does not appear to fit the observations made by T&T. Their failure model in Figure 5a shows the back wedge providing an active load onto the basal or passive wedge. This is contrary to their observation (see for example Section 6 in Figure 5b) that the back surface of the failure is initially subvertical and subsequently degrades to a flatter angle after the initial failure. An active wedge driving the failure therefore seems unlikely.
14. Bird<sup>10</sup> concluded that conventional circular failures were not applicable and used non-circular failure surfaces as shown in Figure 6, analysing these by means of the Bishop and Janbu slope stability routines. These analyses suffer from two problems. Firstly the assumption of the driving force from the wedge of material in Soil 1 and Soil 2 in Figure 6 does not accord with T&T immediate post-slip observations as above. Secondly, the analyses consider only water pressures from a phreatic surface on the base of Soil 5 and take no consideration of water pressures that may be present in tension cracks and other features.
15. Hegan<sup>11</sup> considered that failure was initiated by a "blow out" in the loose sands (Unit TG3), which undermined the slope above and resulted in a steep circular failure (Figure 7). Similarly Oldham<sup>12</sup> also used circular failure surfaces to analyse the stability of slopes in the same area (Figure 8). Oliver agreed with the triggering of the slope failures by piping and/or erosion but noted that the large circular failure mechanisms of Hegan and Oldham were inappropriate in this area.
16. Oliver's thesis includes descriptions of two failure models triggered by piping within an aquifer sandwiched between two aquitards with the Upper Matua Group sediments (Figure 9a) and by wave erosion at sea level (Figure 9b). His analytical model involved large block movements on the lower bounding aquitard and was analysed by the Galena program (Figure 10). As with the other failure models described above, the analysis considered only phreatic water pressures.
17. Oliver's failure mechanism is one that often occurs; for example, in horizontally bedded coal deposits where blocks of material slide along weak clay seams of low residual shear strength. In these cases, failure through the "intact" material is unlikely. This does not appear to be a particularly appropriate mechanism for Maungatapu. However, his analyses (see Figure 10) show that he has used inclined failure surfaces on the base rather than sliding on the horizontal interface. The back slopes of his failure do not relate well to the exfoliation defects that were suggested as a controlling feature in this mechanism. The analysis does not therefore accord with the proposed mechanism.

<sup>8</sup> Richards LR, Atherton D. *Stability of slopes in rock*. Ch 12 in *Ground Engineers Reference Book*. Ed F G Bell, Butterworths, 1987

<sup>9</sup> Hoek E. *General two-dimensional slope stability analysis*. Ch 3 in *Analytical and computational methods in engineering rock mechanics*. Ed ET Brown, Allen & Unwin, 1987

<sup>10</sup> Bird GA. *The nature and causes of coastal landsliding on the Maungatapu Peninsula, Tauranga, New Zealand*. MSc thesis, University of Waikato, 1981.

<sup>11</sup> Hegan BD. *Landslip damage at 85 and 89 Te Hono Street, Maungatapu, Tauranga*. Tonkin & Taylor report, 1995

<sup>12</sup> Oldham, 1995 – quoted in Oliver thesis

18. Profiles of three slips at 85 & 89 Te Hono Street and at 330 Maungatapu Road based on Oliver's thesis are shown on Figure 11. A comparison between Figures 4-5 and 11 shows that the slide geometry at Maungatapu is significantly different to that at Bramley Drive where the 2H:1V relationship seems to have emerged. The Maungatapu landslides have much steeper backslopes, being in excess of 60° almost five years after the slides. Based on the Bramley Drive history and general experience, the backslopes at the time of the landslide may well have been about 80-85°.
19. Oliver's work indicates that the Maungatapu slides are initiated by erosion of an aquifer layer with the Upper Matua Group sediments (see Figure 9). The erodible layer consists of loose medium-coarse sand between two clayey silty layers about 5m below the top of the Matua Subgroup. An important factor in the landslide development is the prevalent subvertical defects in the peninsula parallel to the cliff edges. Oliver refers to these as *exfoliation defects* (see Figure 9) although the more common engineering term is *tension crack*. They have a significant influence on slope failures since their orientation precludes any significant frictional resistance along the features, and the open joints contain water exerting horizontal pressures on the slide mass.
20. This failure mechanism is quite different to that described by T&T where the toe of the failure generally seems to have exited at the top of the Tauranga Formation. The Omokoroa slopes are notable for the fact that the lower slopes (Zone A in Figure 4) are much flatter than the lower slopes at Maungatapu, which are generally in excess of 60° except where mantled with landslide debris. The difference in the slopes is probably due to the fact that the Omokoroa slopes are more sheltered from wave action than those at Maungatapu. A comparison of the suggested failure mechanisms in the Tauranga ashfall sequences is shown in Figure 12.

#### Hutchinson failure model

21. Hutchinson<sup>13</sup> has described the details of a chalk cliff failure that is induced by the undercutting action of the sea – this has been reanalysed by Hoek<sup>14</sup> and seems to provide a good model for the Maungatapu failures (both piping and sea erosion cases). The analytical model is shown in Figure 13 and the Joss Bay example in Figure 14. The failure was not associated with heavy rain and the slope has been assumed to be well drained. Calculations can be carried out to determine the geometry of the next cliff failure with further undercutting as shown in Figure 15.
22. Important features in the Hutchinson failure model are the presence of a tension crack at the most critical location behind the slope crest and the basal failure along a critically oriented surface through previously "intact" material. Both of these features are considered to be applicable to the Maungatapu failures. Failure resistance in this failure model is limited to the basal surface since there is no resistance along the tension crack. Water in the tension crack also provides a larger driving force to the failure than the phreatic surface assumption in the other models.

#### Comments on failure mechanisms

23. The circular mechanisms often considered for failures in the Tauranga area may have been selected to suit available slope stability computing programs rather than according with field observations. Examples of classic circular soil failures seem to be quite rare in Tauranga. The failures described in Oliver's thesis are very similar to the detailed observations made by Hutchinson on the failure of chalk cliffs that are mainly caused by sub-vertical tension cracks. However the Tauranga failures are obviously affected by rainfall and water pressures in the tension cracks and the Hutchinson/Hoek method (which is based on a drained slope) would need some modification to suit the Tauranga situation.
24. A comparison of different methods of analysing the slope shown in Figure 7 is given in Figure 16 which shows the results of analyses using the Rocscience program *Slide* (ver 3) by the following different methods (all with the same breakout point at the bottom of TG3):
- Circular failure analysis on grid
  - Path search for critical failure surface
  - Inclined failure surface through TG3, 45° to 85° failure surface in other materials

<sup>13</sup> Hutchinson JN. *Field and laboratory studies of a fall in upper chalk cliffs at Joss Bay, Isle of Thanet*. Proc Roscoe Memorial Symposium, Cambridge, 1970

<sup>14</sup> Hoek E, Bray JW. *Rock slope engineering*. Institution of Mining and Metallurgy, London, 1981.

These have similar factors of safety in the range from 1.0 to 1.1 but with different failure geometries. For the critical failure surfaces with the lowest factor of safety, the predicted geometries are reasonably similar to those on the Maungatapu Peninsula (Figure 7) and Omokoroa (Figure 4). The deep circular failure surfaces suggested in some studies (e.g. Figure 8) are not realistic and may result from an inadequate number of trial surfaces in the analyses.

25. Some of the stability analysis methods used by designers may be inadequate. The Geotechnical Engineering Office in Hong Kong requires that slope stability programs are checked and approved by them before they can be used on any jobs over which they have control. Where stability calculations are critical to the site approval process, an independent check on the calculations should be carried out.

## RELIC SLIP VERIFICATION STUDY

26. The Houghton & Hegan study identified about 250 relic slips in the Tauranga City area. With the benefit of more detailed and recent aerial photographs and better topographical base maps, the present study has identified a larger number of geomorphological features in the area. Reduced scale versions of the two sets of plans are contained in Appendices 1 and 3 to this report – these are included only for the purposes of this report and only the full sized plans or the TDC GIS system should be used for assessing the geomorphological conditions at specific sites.
27. TDC provided the study team with aerial photographs taken from 1943 to 1997 and sets of maps at 1:5000 scale showing topographical contours, roads and the locations of relic slips based on the Houghton and Hegan work. Appendix 2 summarises the reference numbers, dates, scales and colour of the photographs. Geomorphological features were identified from the aerial photographs and transposed on to the base maps by Royden Thomson. A limited number of field checks were then carried out by David Bell and Royden Thomson in early September 2000 and refinements made to the classification of the geomorphological features.
28. The classification system used to describe scarp and debris features is given in Figure 17 with the earlier Houghton and Hegan terminology shown for comparison. The geomorphological features identified by the aerial photography interpretation have been classified as;
- Possible headscarps and debris lobes with poorly defined morphology
  - Probable headscarps and debris lobes with clearly defined morphology
  - Active slope debris lobes with evidence of recent or current activity.
29. Most of the escarpments and embayments that have been identified as headscarps do not have obvious associated landslide debris. Most of these features are not considered to be active but to have developed in times when the coast was well off the present shore, the terrain was not as incised as it is today and the groundwater levels were very high. The slides were therefore formed under different physical, climatic and slope stability conditions to the present ones and are thus true relic features.
30. There are also interpreted mass movement features that are defined by hummocky terrain alone. Examples occur south of Bethlehem. Such features have generally been classified as *probable* occurrences but the subsurface geology and likely failure modes have not been studied.
31. There are very few active geomorphological features indicated by the present study. These are largely confined to steeper terrain to the east of the city, but local failures are known in the Welcome Bay area and Matua.
32. Sections through a number of interpreted slips are given on Figures 18 and 19. Most of these slides have vacated scarps where the top of the slope debris has moved away from the headscarp feature.

## Analysis of landslide and runout geometry

33. The relic slip plans have been overlain on 1:5000 plans from TDC showing the land areas within the 2H:1V zone and slopes at an angle greater than 26.5° (these being the slope angles currently used to assess whether Category 1 or 2 specialists are required). A large proportion of the slips were found to lie outside these two zones. As a further check on the geometrical characteristics of the head scarps and slope debris features, a detailed characterisation of all the identified features was undertaken and is described below.
34. Figure 20 shows the head scarp and slope debris attributes that were recorded for each feature. These data have been taken off the original mapping sheets and put into an Excel spreadsheet as shown on

the figure. There are over 2000 head scarps and 400 slope debris features for which attributes have been obtained.

35. Figure 21a shows the slope height versus angle relationships for the head scarp features and Figure 22b is a frequency distribution for the slope angle. The average angle of the scarp features is quite low at about  $15^\circ$  and most of the scarps are at less than  $20^\circ$ . The relationship between slope height and angle is significantly different to that which would normally be found based on either empirical observations or theoretical predictions. Such relationships invariably show a trend of decreasing slope angle with increasing slope height. For example, Figure 22 shows results of empirical observations on NZ greywacke rocks that display the normal height versus angle relationship. A theoretical relationship between height and angle for the Tauranga ash materials can be obtained by carrying out slope stability analyses using different slope geometries for given groundwater and material properties. Figure 23 shows the results of a set of analyses for typical properties of Tauranga ashes and these data are superimposed on Figure 21a for Factors of Safety equal to 1.0 and 1.5.
36. The observed pattern of the observed scarp height versus angle relationship is such that no simple interpretations can be made on the basis of the present attributes of the landslides. The present practice is to use a 2H:1V criterion (slope angle =  $26.5^\circ$ ) to delineate sites requiring specialist geotechnical assessment. This slope angle is also just below the limiting angle for a high slope with typical ash properties (see Figure 21a) and there is therefore some basis for using this for preliminary screening purposes. The 2H:1V criterion has the advantage of being a simple check for preliminary site assessment and Tauranga experience has shown it to be a prudent guideline for undeveloped property. Figure 24 shows the 2H:1V criterion in relation to stability analyses on the Hegan section of Figure 7. The 2H:1V line encompasses all the failure surfaces with a factor of safety of less than 2 and can be seen to be conservative in this particular case.
37. A similar exercise to the above has been carried out for the slope debris runout. Figure 25 shows the height versus angle relationship and the frequency distribution for the slope angle. The overall mean angle of runout is about  $15^\circ$  corresponding approximately to a 3.75H:1V slope. Four examples of sections with slope debris below the headscarp are given on Figures 18 and 19. These show that the debris runout extends beyond a 3H:1V line in all cases except one where the runout is stopped by rising ground.
38. The travel angle of landslides (the inclination of the line joining the tip of the debris to the crest of the landslide scarp) is generally related to the apparent angle of friction of the slide material<sup>15 16</sup>. For the Tauranga ashes, the friction angle can be as low as  $30^\circ$  and therefore a travel angle of about 1.7H:1V should be applicable. The field evidence from the TDC slides is that debris runout is much greater than the predicted value and can be about 4H:1V or more, typical of the runout for a material with an apparent friction angle of about  $15^\circ$ . The reason for the higher mobility of the TDC slides is likely to be related to the low densities of the ash materials. The ashes can have densities of about  $1200 \text{ kg/m}^3$  which is significantly lower than the range for typical soils of  $1700$  to  $2300 \text{ kg/m}^3$  and the ashes are therefore likely to flow more readily than high density soils where slides are induced by rainfall or high water pressures.

#### PROPOSED MANAGEMENT FOR RELIC SLIP AREAS

39. The geomorphological features identified in Appendix 3 have been used to assess the appropriate level of investigation for further development in the area and do not constitute hazard zones.
40. The verification exercise has identified the following number of geomorphological features:
- |   |  |       |
|---|--|-------|
| 1 | Poorly defined headscarps with no associated debris: | > 800 |
| 2 | Poorly defined headscarps with associated debris:    | >100  |
| 3 | Clearly defined headscarp with no associated debris: | >700  |
| 4 | Clearly defined headscarp with associated debris:    | >250  |

<sup>15</sup> Australian Geomechanics Society, Sub-committee on Landslide Risk Management. *Landslide risk management concepts and guidelines*. NZ Geotechnical Society, Geomechanics News, Issue 60, December 2000

<sup>16</sup> Wong HN, Ho KKS. *Travel distance of landslide debris*. Landslides. Balkema, 1996

5 Features with evidence of recent or current movement: 13

41. Based on the identified and interpreted geomorphological features, the requirements for specialist advisors (according to the TDC system of accreditation) are summarised in Table 2 below. Assessment of the potential hazard to development in each of the zones is primarily an engineering geological one. As a guideline only for developers and consultants, Table 3 gives details of the typical requirements for investigation and reporting in each of the zones.

|            |   |
|------------|---|
| Category 1 | Site includes probable slope movement feature with clearly defined headscarp and hummocky debris and with indications of recent or current activity   |
|            | Site includes possible slope movement feature with either or both of the following <ul style="list-style-type: none"> <li>• clearly or poorly defined headscarp</li> <li>• hummocky debris</li> </ul> or<br>Building is located within 2H:1V slope line or 4H:1V runout distance from slope<br>or<br>Water seepage from slope at any height |
|            | Category 2  |
| Category 2 | No evidence of landslides within or in close proximity to development area<br>and<br>Building is located outside 2H:1V slope line and 4H:1V runout distance from slope crest  |
| Category 3 | No requirement for assessment by engineering geologist or geotechnical engineer   |

## CONCLUSIONS

42. The geomorphological features identified in this study 3 have been used to assess the appropriate level of investigation for further development in the area and do not constitute hazard zones or building line restrictions.
43. The present study has identified a number of geomorphological features of different characteristics throughout the TDC area. On the basis of the aerial photography interpretation, the majority of these features show no evidence of active movement. Less than 1% of the identified features show indications of recent or current activity.
44. Recommendations have been made to indicate where specialist advice is required on the basis on slope angle and runout distance.

## RECOMMENDATIONS FOR FURTHER WORK

45. Further work is recommended to supplement the mass movement database with geological information acquired from all sources, including exposures within development areas and experiences within the territories of adjacent councils.
46. Suggestions for additional work are listed below:
  - Extend study beyond the TDC boundary into adjacent regional council territories
  - Update relic slip map by identifying which slips have been earthworked out and are not longer relevant
  - Collect information on all future landslip and debris flow events
  - Compile database of soil properties from site investigations in the area
  - Carry out field checks and assessment on all active areas identified by this study
  - Encourage geomorphological research in TDC area (e.g. student postgraduate theses).

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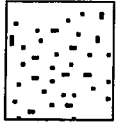
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- Richards LR, Atherton D. *Stability of slopes in rock*. Ch 12 in *Ground Engineers Reference Book*. Ed F G Bell, Butterworths, 1987
- Tonkin & Taylor . *Omokoroa Point land stability investigation*. Report to Tauranga District Council, May 1980
- Western Bay of Plenty District Council. *Minden Geotechnical Review 1992*. Compilation of reports dated 13 March 1992
- Wong HN, Ho KKS. *Travel distance of landslide debris*. Landslides. Balkema, 1996

**Table 3: Description of geomorphological zones and assessment guidelines**

| Description  | Assessment guidelines   |
|--|---|
| <p><b>Active feature</b><br/>                     Probable landslide feature</p> <ul style="list-style-type: none"> <li>• Clearly defined headscarp</li> <li>• Hummocky debris</li> </ul> <p>Indications of recent or current activity<br/>                     Requires detailed engineering geological and geotechnical assessment. Intensive investigation may be required and development may not be economically feasible</p>   | <ol style="list-style-type: none"> <li>1. Initial assessment to be carried out by Category 1 Geologist/geomorphologist</li> <li>2. Examination, on foot, of the surface of the site and the surrounding ground, with the assistance of existing topographical maps</li> <li>3. Examination of available aerial photographs of the area (include selection from early to present time)</li> <li>4. Assessment of available geological data (IGNS and other maps, publications, university theses and any other published or unpublished data)</li> <li>5. Review of relevant files and other historical records</li> <li>6. Check with local residents and other sources for evidence of past instability, particularly during periods of heavy rainfall</li> <li>7. Prepare preliminary report including geomorphological map of site, detailed cross sections showing site stratigraphy, preliminary conclusions on site characteristics and recommendations for additional investigation, mapping and monitoring. Report to include specific reference to all aerial photographs and other sources of information used for the study.</li> <li>8. Geomorphological assessment to provide conclusion on characteristics of any landslide present and the history of movement (historical or current)</li> <li>9. If landslide with recent movement affects the site, further topographical surveys, ground investigations and stability analyses will be required to demonstrate that the site can be made adequately safe by remedial works</li> <li>10. Undertake investigations to determine the nature and distribution of the soils that may be prone to slip and develop engineering geology site model</li> <li>11. Measure groundwater pressures in the soils strata and evaluate the transient pressures that may develop under extreme rainfall conditions</li> <li>12. Produce engineering geological report with details of mass movement features and other ground failure hazards</li> <li>13. Carry out geotechnical evaluation, using Category 1 Engineer and including further sampling, laboratory testing, assessment of ground properties, groundwater monitoring, etc. If strength assessment has been made by reference to test data from other sites, provide detailed rationale for the use of such data</li> <li>14. Undertake slope stability evaluation using approved methods</li> <li>15. Make recommendations for use of site and provide design for remedial measures if appropriate</li> </ol> |
| <p><b>Probable or possible feature with no evidence of recent or current activity</b><br/>                     Interpreted slope movement feature with either or both of the following:</p> <ul style="list-style-type: none"> <li>• Clearly or poorly defined headscarp</li> <li>• Hummocky debris</li> </ul> <p>No evidence of recent or current activity<br/>                     Building within 2H:1V slope line or within 4H:1V runout distance.<br/>                     Some sites may require detailed engineering geological and geotechnical assessment</p> | <ol style="list-style-type: none"> <li>1. Assessment to be carried out by Category 1 Specialist Advisor (Geologist/geomorphologist or Geotechnical Engineer)</li> <li>2. Examination, on foot, of the surface of the site and the surrounding ground, with the assistance of existing topographical maps</li> <li>3. Examination of available aerial photographs of the area (include selection from early to present time)</li> <li>4. Assessment of available geological data (IGNS and other maps, publications, university theses and any other published or unpublished data)</li> <li>5. Review of Council files and other historical records</li> <li>6. Check with local residents and other sources for evidence of past instability, particularly during periods of heavy rainfall</li> <li>7. If absence of recent or current landslide activity is confirmed, prepare report confirming this with appropriate documentation (map and representative sections)</li> <li>8. If ground hazard identified, follow Steps 7 to 15 of Zone 1 procedures</li> </ol>   |
| <p><b>No evidence of landslides</b></p> <ul style="list-style-type: none"> <li>• No indications of scarp or slide debris</li> </ul> <p>Buildings not within 2H:1V slope line or 4H:1V runout distance<br/>                     Does not require engineering geological and geotechnical assessment</p>   | <ol style="list-style-type: none"> <li>1. Site to be inspected by competent Category 2 person (Registered Engineer or Geologist with equivalent experience)</li> <li>2. Provide written confirmation of inspection and judgement that there is no landslide hazard at the site</li> </ol>   |
| <p><b>No requirement for engineering geology or geotechnical engineering expertise</b></p>   | <ol style="list-style-type: none"> <li>1. Site to be inspected by competent Category 3 person</li> </ol>  |

LEGEND



Holocene: Alluvium & dunes, plus early to mid Pleistocene sediments with interbedded airfall & redeposited pumice & tuffs



Mamaku Ignimbrite



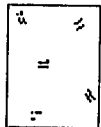
Hinuera Formation: (Fluvial sediments derived from volcanics) and subordinate Holocene alluvium



Minden Rhyolite



Waiteariki Ignimbrite

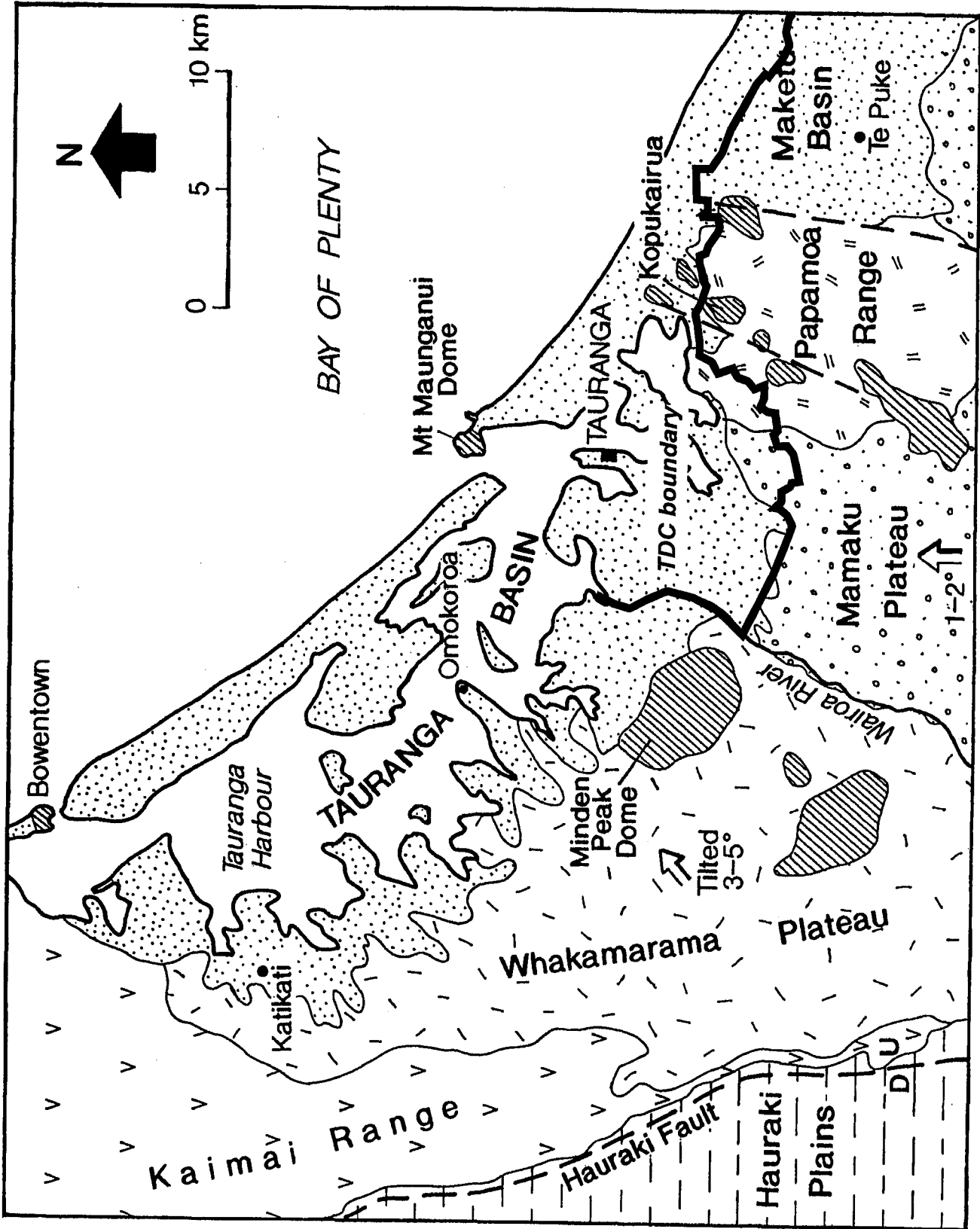


Te Puke Breccias: Pumice breccias and tuffs with interbedded fine freshwater sediments



Beesons Island Volcanics

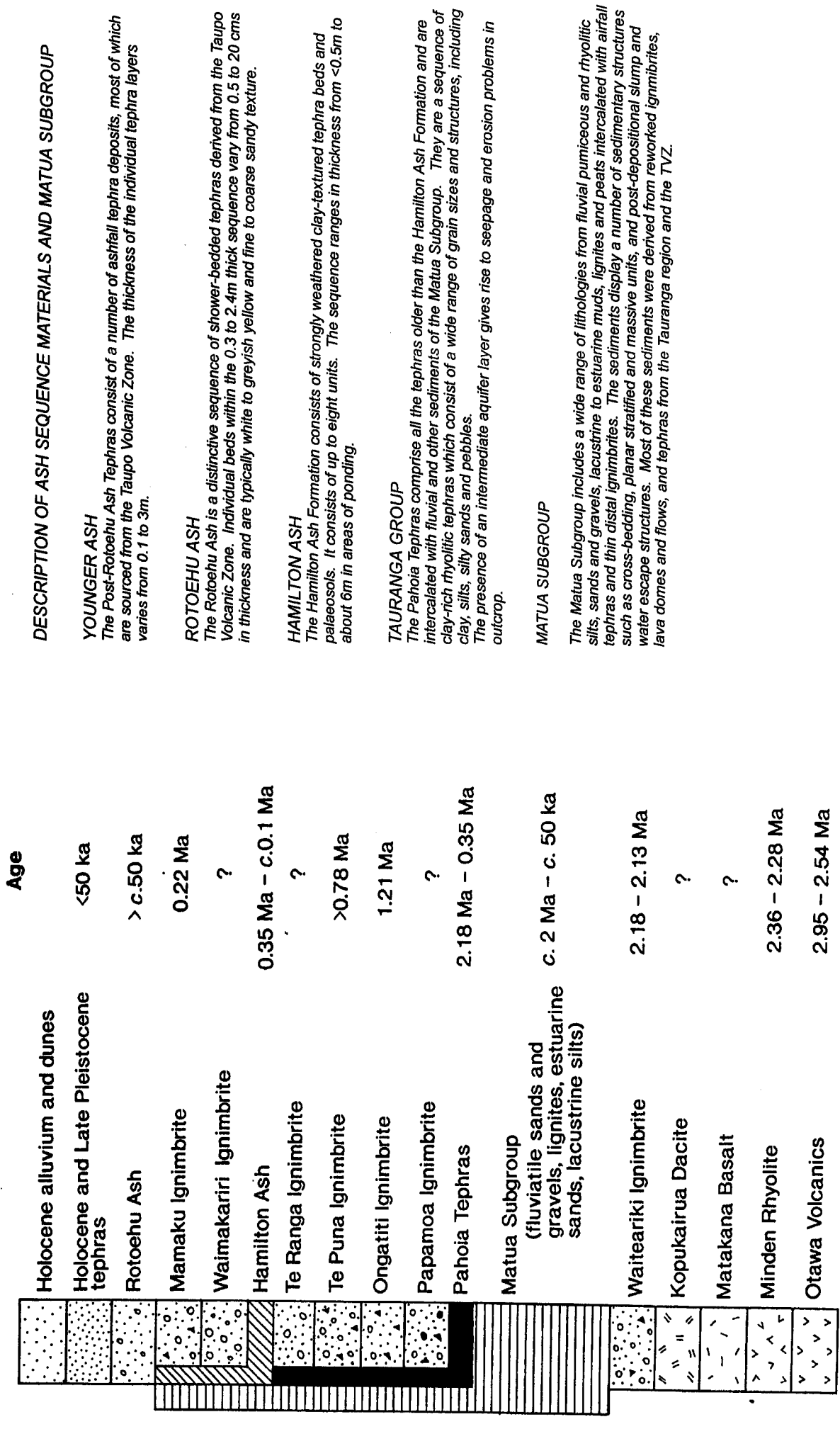
Legend derived from NZGS 1:250 000 map, Rotorua, Sheet 5, First Edition



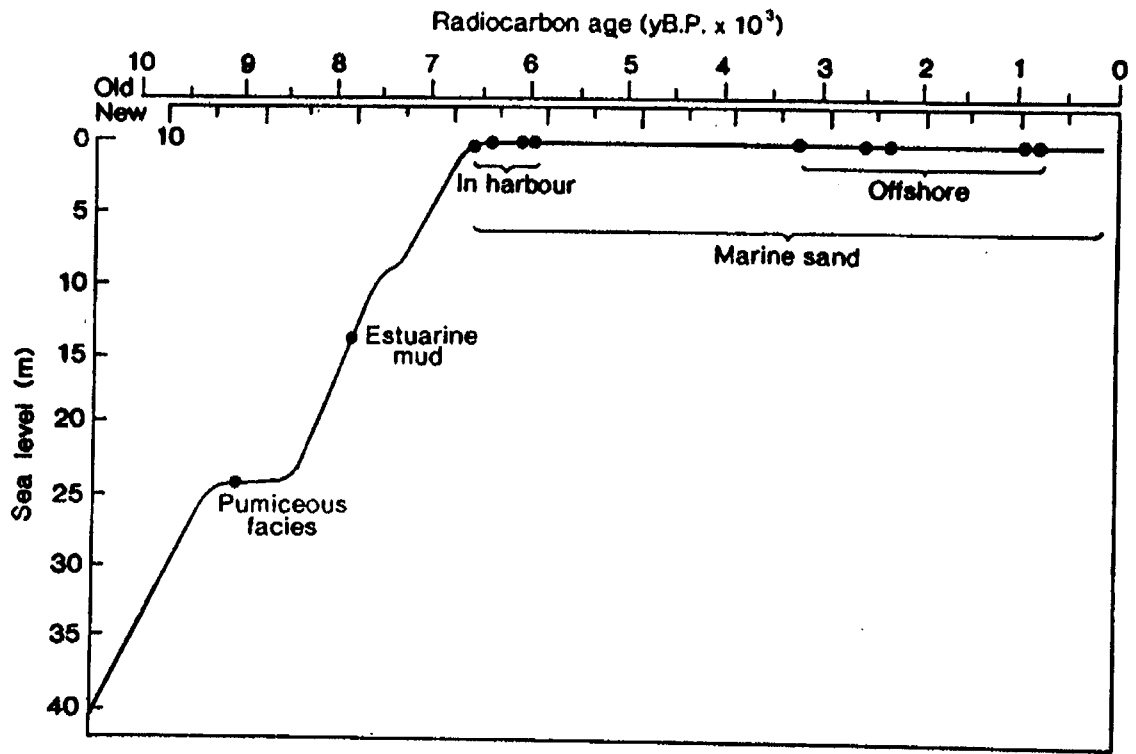
TAURANGA RELIC SLIP VERIFICATION STUDY

Figure 1: Main physiographical and geological features of Tauranga area in relation to TDC boundary

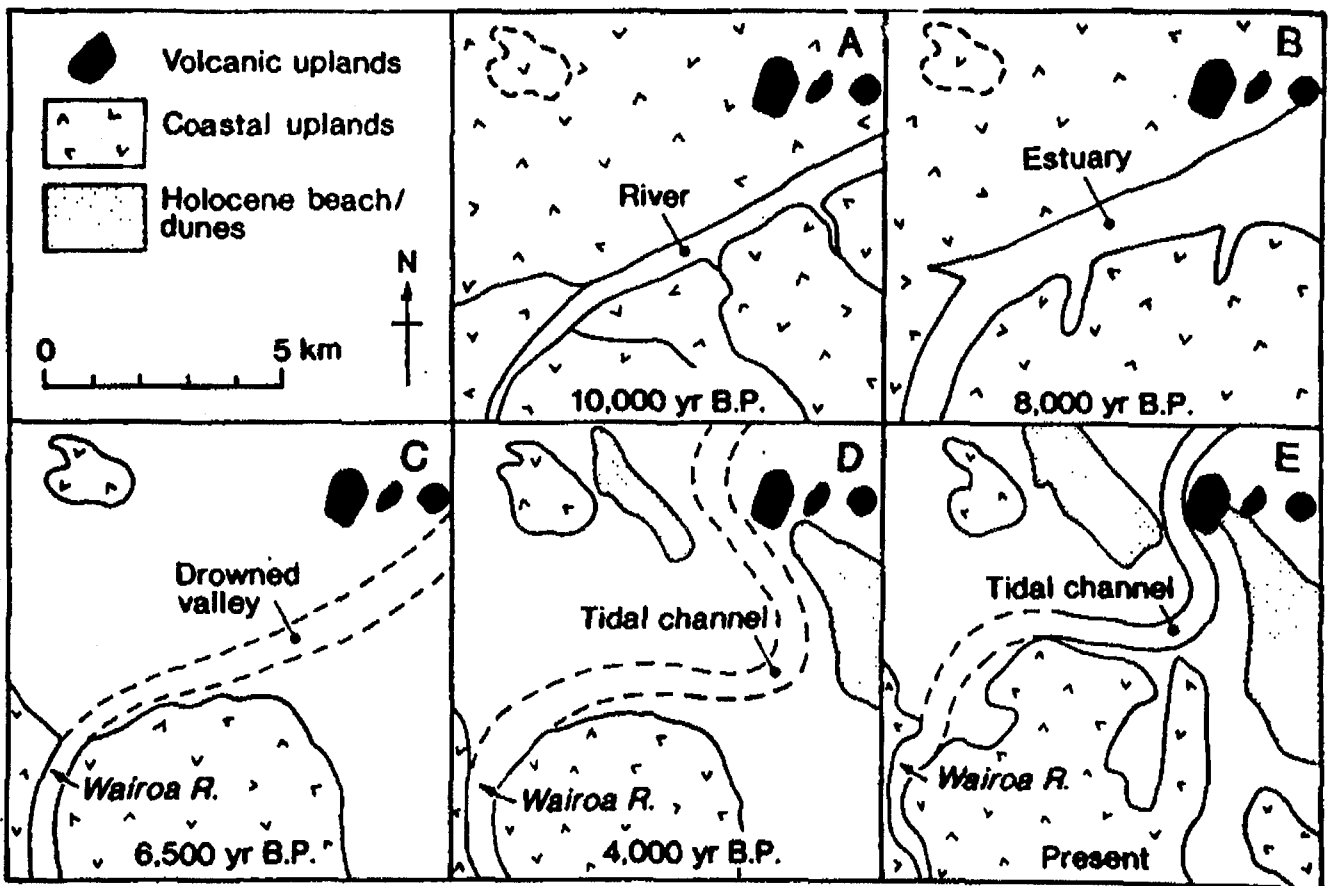




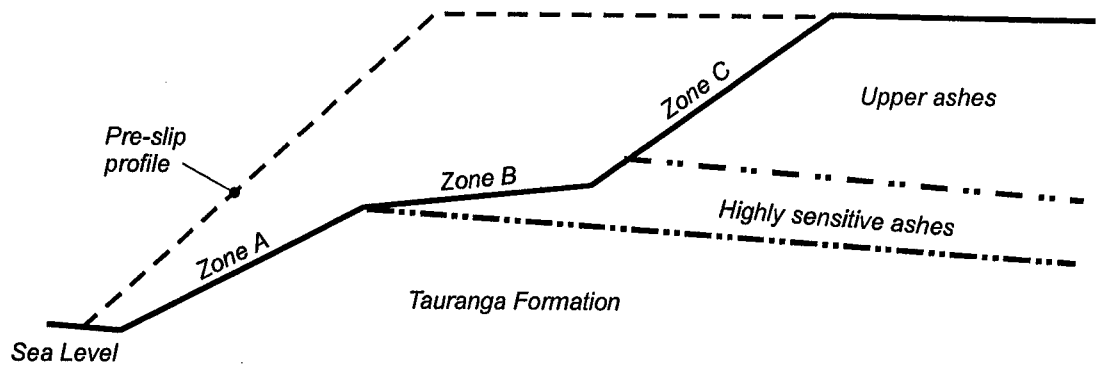
**TAURANGA RELIC SLIP VERIFICATION STUDY**  
 Figure 2: Generalised stratigraphy of the Tauranga area



HOLOCENE SEA LEVEL CURVE



DEVELOPMENT OF TAURANGA HARBOUR

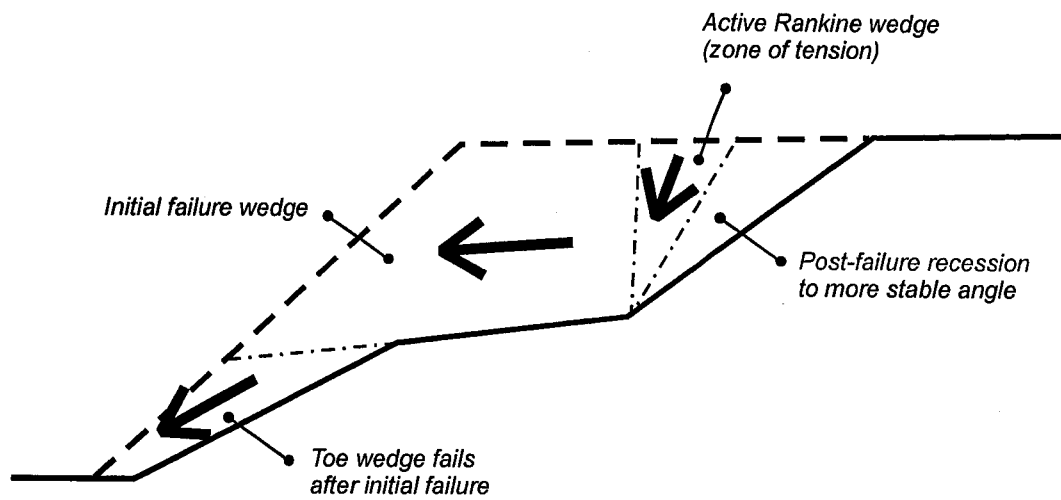


TYPICAL LANDSLIDE PROFILE

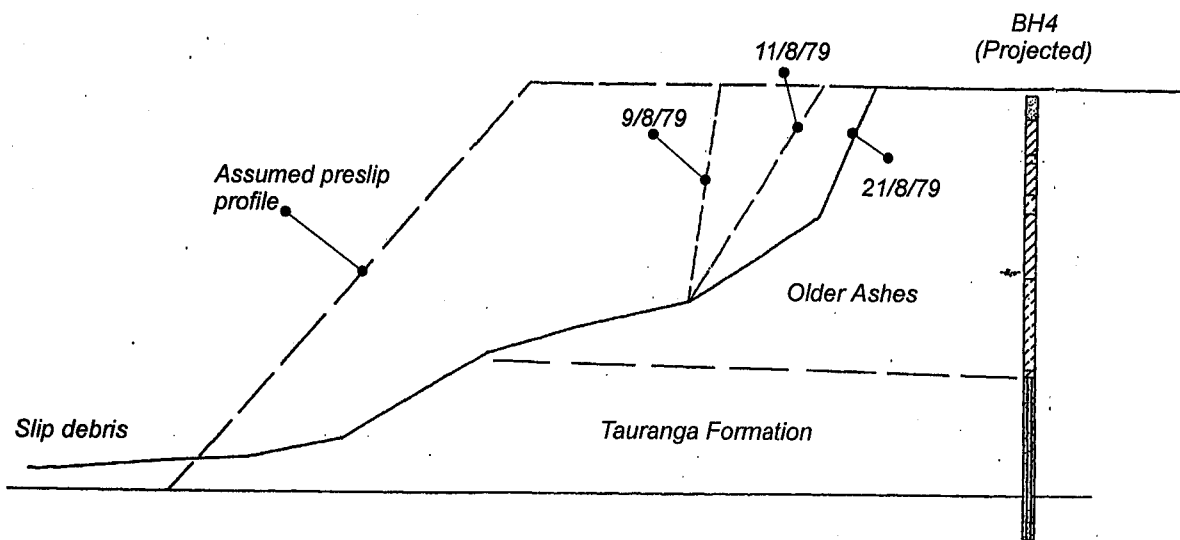
| Geometry of Bramley Drive landslides |                        |     |     |                                     |                                   |
|--------------------------------------|------------------------|-----|-----|-------------------------------------|-----------------------------------|
| Section                              | Average slope of zones |     |     | Vertical height to horizontal depth |                                   |
|                                      | A                      | B   | C   | Slip zone in Zones B&C              | Overall slip shape (Zones A, B&C) |
| 1                                    | -                      | 11° | 33° | 1:2                                 | 1:1.8                             |
| 2                                    | 28°                    | 12° | 34° | 1:1.7                               | 1:1.8                             |
| 3                                    | 25°                    | 16° | 39° | 1:2                                 | 1:2.1                             |
| 4                                    | 30°                    | 7°  | 39° | 1:2.5                               | 1:2.0                             |
| 5                                    | 23°                    | 13° | 49° | 1:2                                 | 1:2.1                             |
| 6                                    | 22°                    | 15° | 50° | 1:1.5                               | 1:1.8                             |

| Geometry of major slips along the western coastline |                    |   |                           |
|---|--------------------|---|---------------------------|
|   | Slip no.           | Overall slip shape:<br>Vertical height: Horizontal distance | Remarks                   |
| Crapp subdivision                                   | 1                  | 1:2.1   |                           |
|   | 2                  | 1:1.8   | Section 1 (Bramley Drive) |
|   | 3                  | 1:1.8   | Section 6                 |
|   | 4                  | 1:1.6   |                           |
|   | 5                  | 1:1.5   |                           |
|   | 6                  | 1:1.8   | Section 2                 |
|   | 7                  | 1:1.6   |                           |
|   | 8                  | 1:1.7   |                           |
|   | 9                  | 1:1.9   |                           |
|   | 10                 | 1:2.2   |                           |
|   | 11                 | 1:2.1   | Section 3                 |
|   | 12                 | 1:1.4   |                           |
|   | 13                 | 1:2.0   | Section 4                 |
|   | 14                 | 1:1.6   |                           |
|   | 15                 | 1:1.6   |                           |
|   | Cooney subdivision | 16  | 1:2.1                     |
| 17  |                    | 1:2.0   |                           |

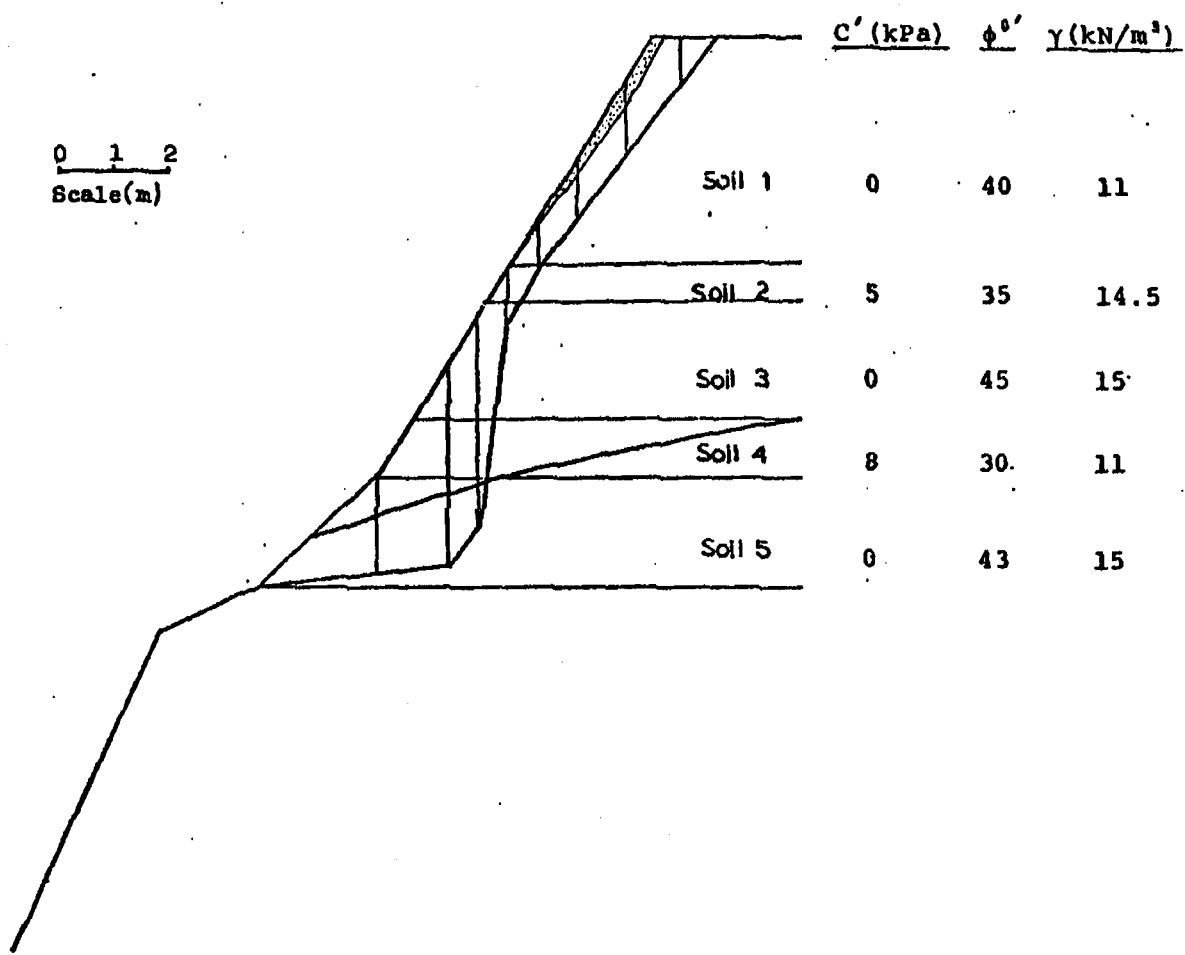
TAURANGA RELIC SLIP VERIFICATION STUDY  
Figure 4: Landslide geometry from 1980 T&T study at Omokoroa



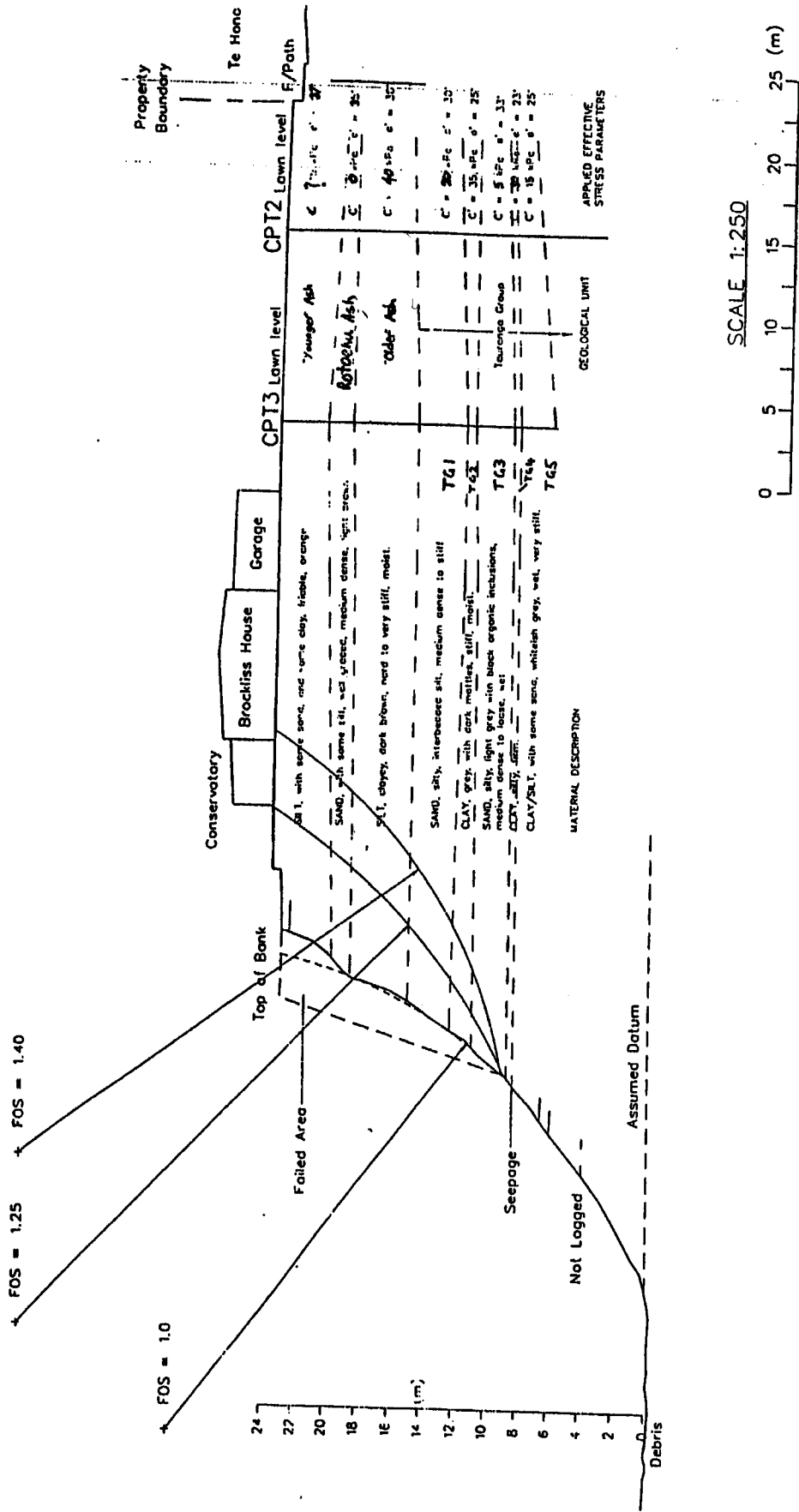
(a) T&T MODEL FOR WEDGE FAILURE



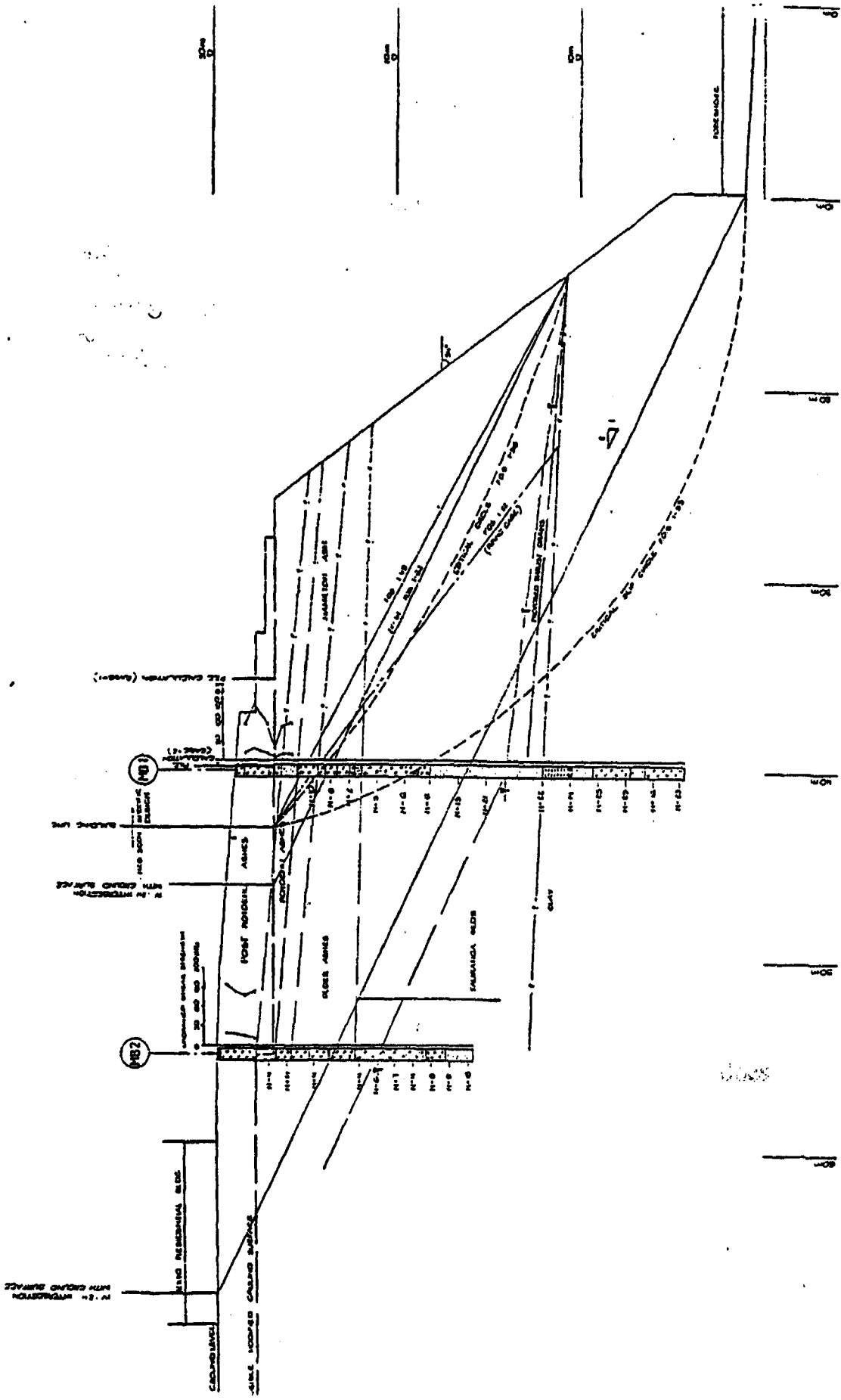
(b) SECTION 6 BRAMLEY DRIVE LANDSLIDE



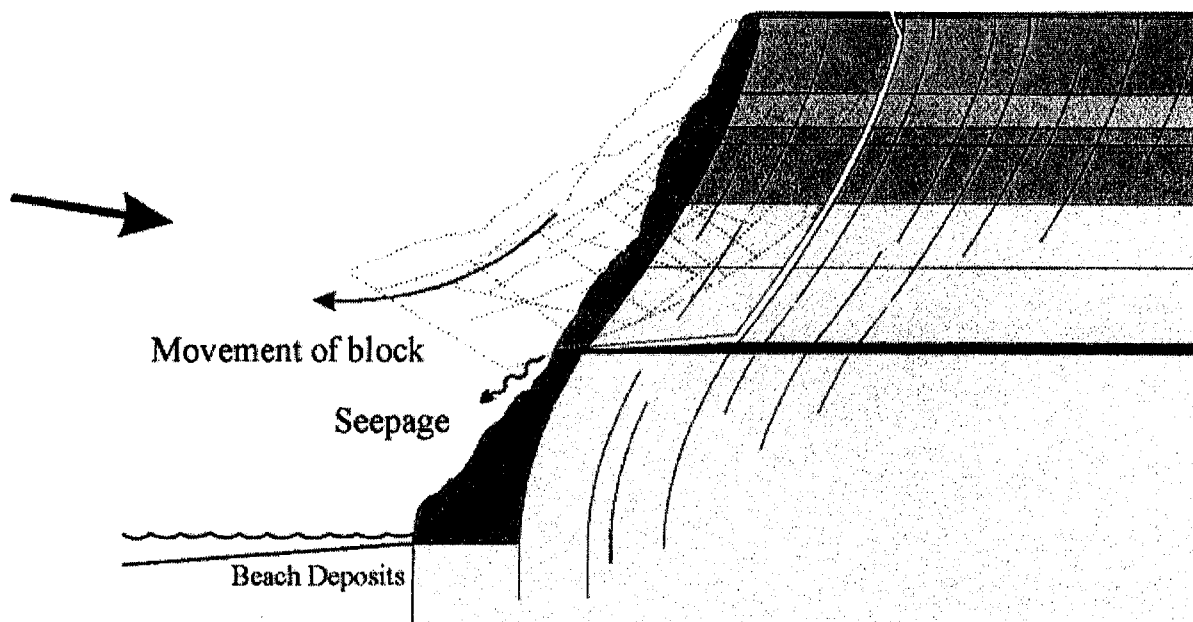
**TAURANGA RELIC SLIP VERIFICATION STUDY**  
**Figure 6: Landslide failure mechanism assumed by Bird, 1981**



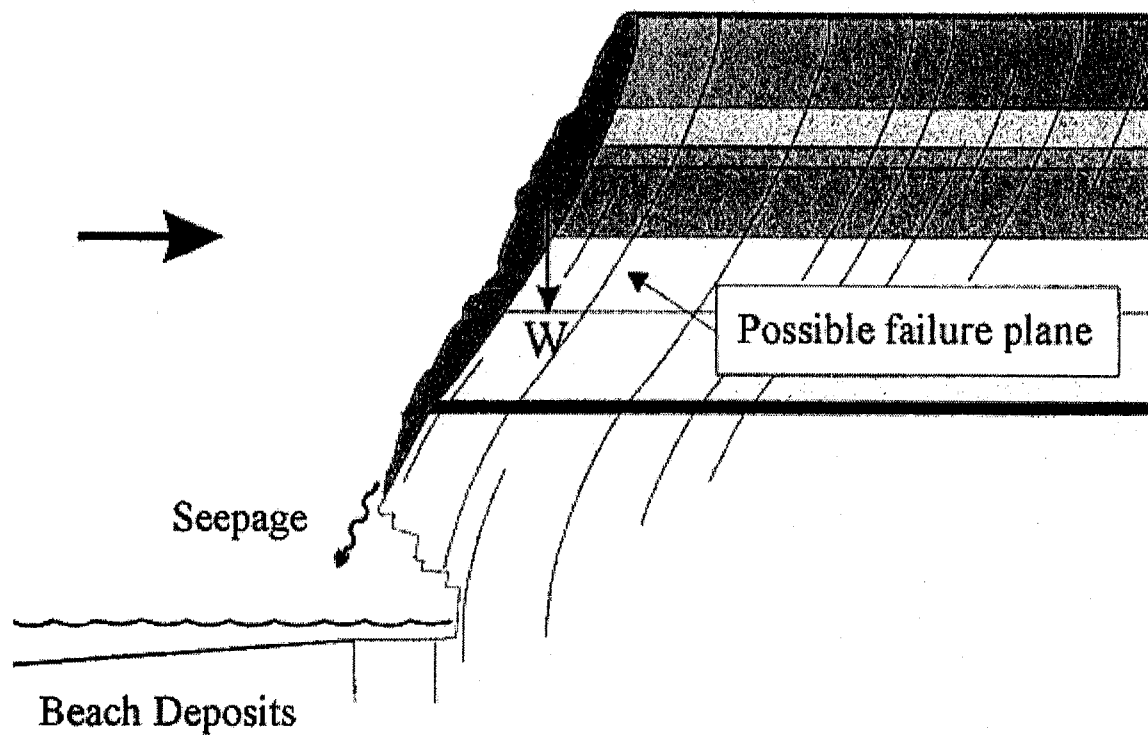
**TAURANGA RELIC SLIP VERIFICATION STUDY**  
 Figure 7: Landslide failure mechanism assumed by Hegan, 1995



TAURANGA RELIC SLIP VERIFICATION STUDY  
 Figure 8: Landslide failure mechanism assumed by Oldham, 1995



(a) PIPING TRIGGERED BLOCK FAILURE



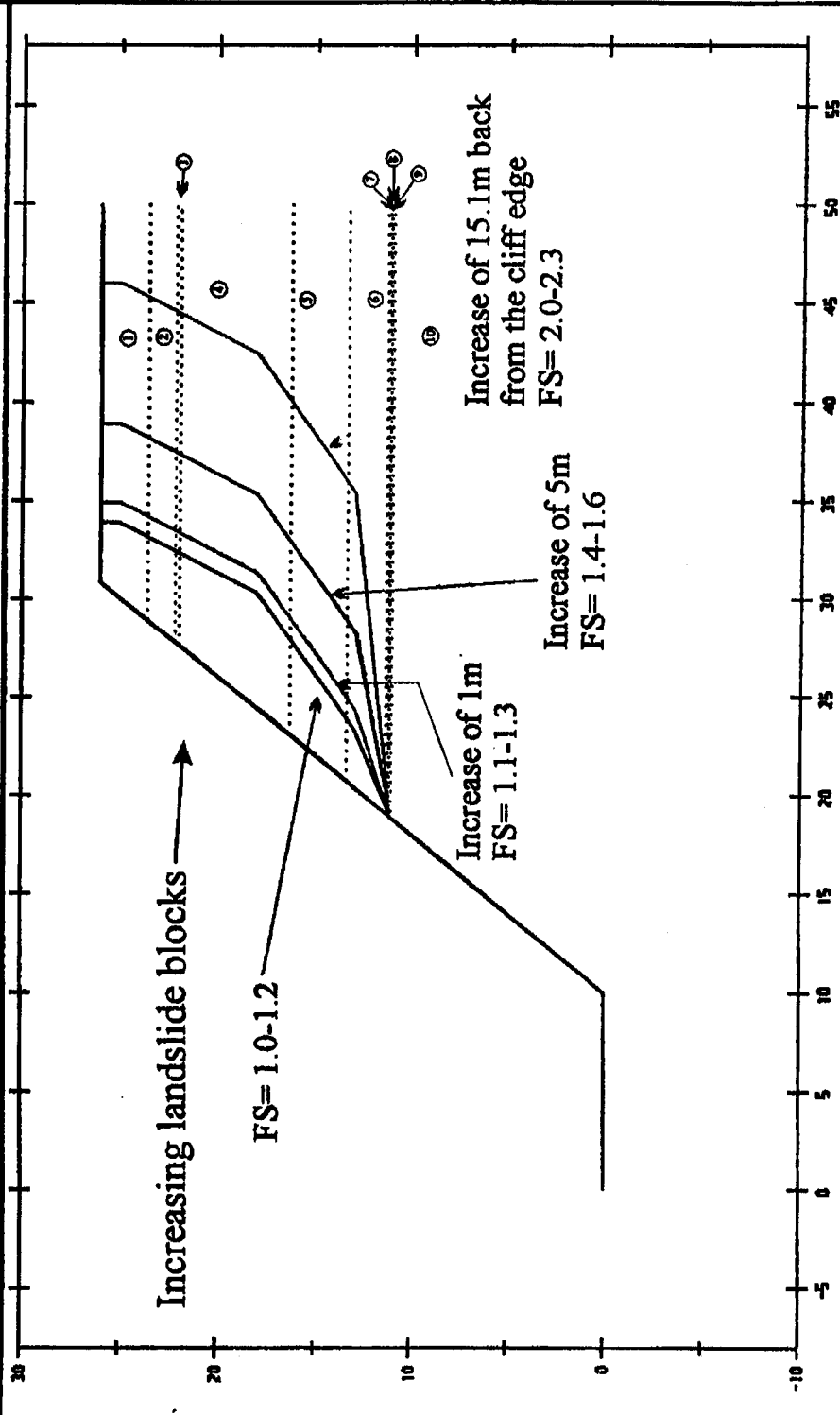
(b) WAVE EROSION TRIGGERED BLOCK FAILURE

**TAURANGA RELIC SLIP VERIFICATION STUDY**

**Figure 9: Landslide failure mechanisms described by Oliver, 1997**



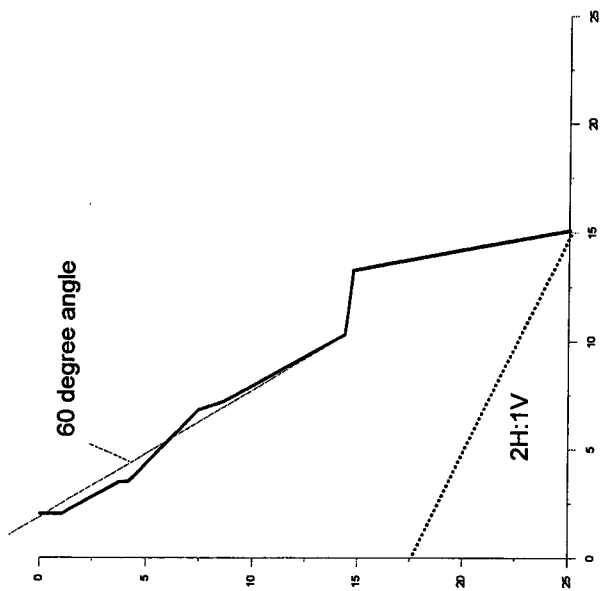
# Stability Assessment of 89 Te Hono Street Using Sarma



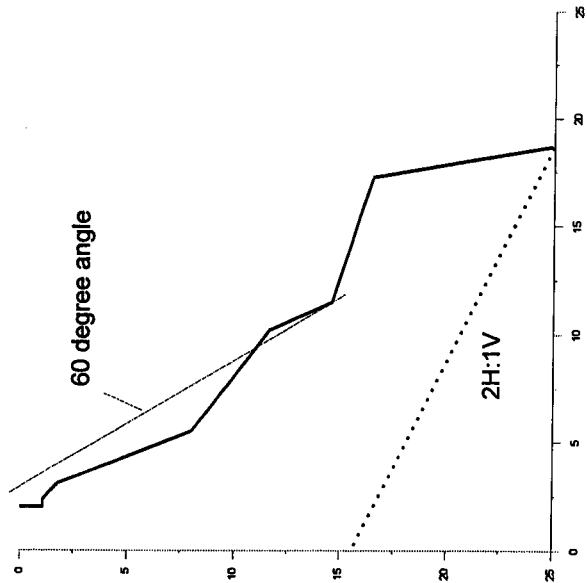
BHP Engineering GALENA 2.0

Lic. to: Lincoln Uni - Nat Resources Eng

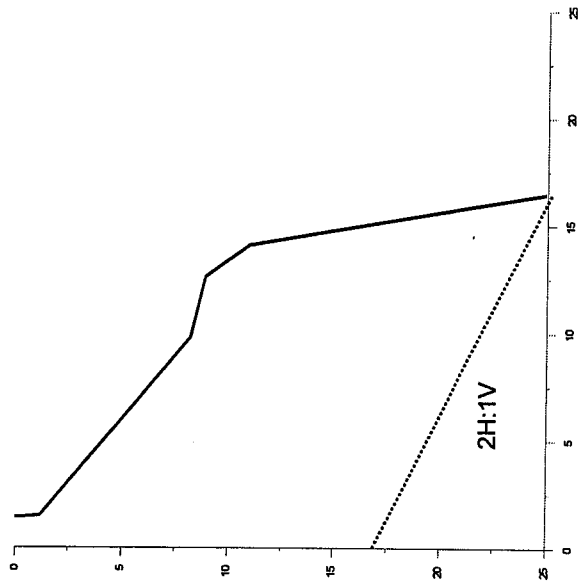
TAURANGA RELIC SLIP VERIFICATION STUDY  
 Figure 10: Landslide failure mechanism analysed by Oliver, 1997



(a) NO 85 TE HONO STREET

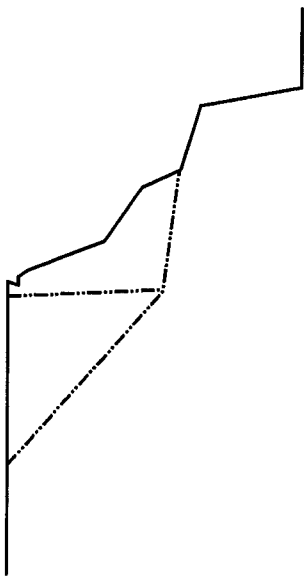


(b) NO 89 TE HONO STREET

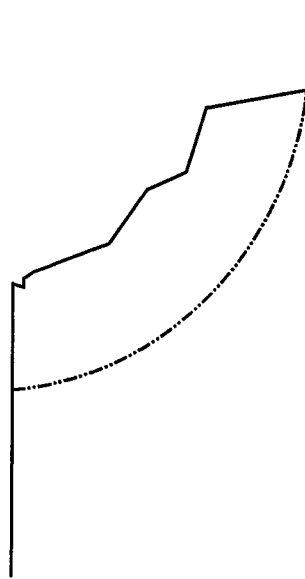


(c) NO 330 MAUNGATAPU ROAD

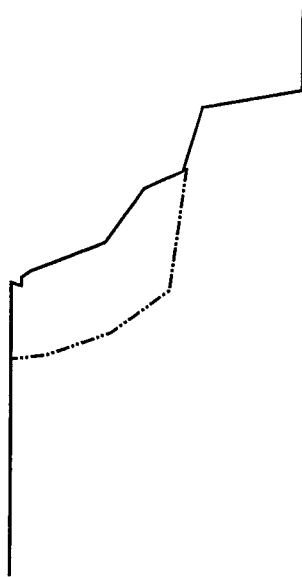
**TAURANGA RELIC SLIP VERIFICATION STUDY**  
**Figure 11: Slip profiles on Maungatapu Peninsula**



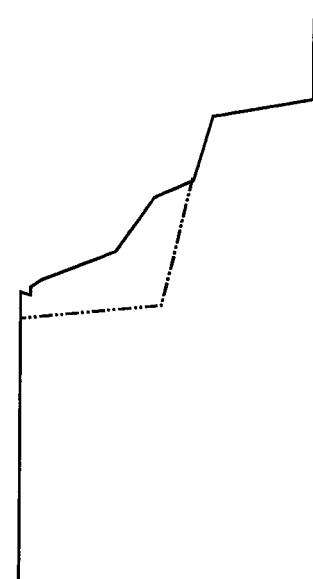
(a) ACTIVE-PASSIVE WEDGE FAILURE



(b) DEEP SEATED CIRCULAR FAILURE

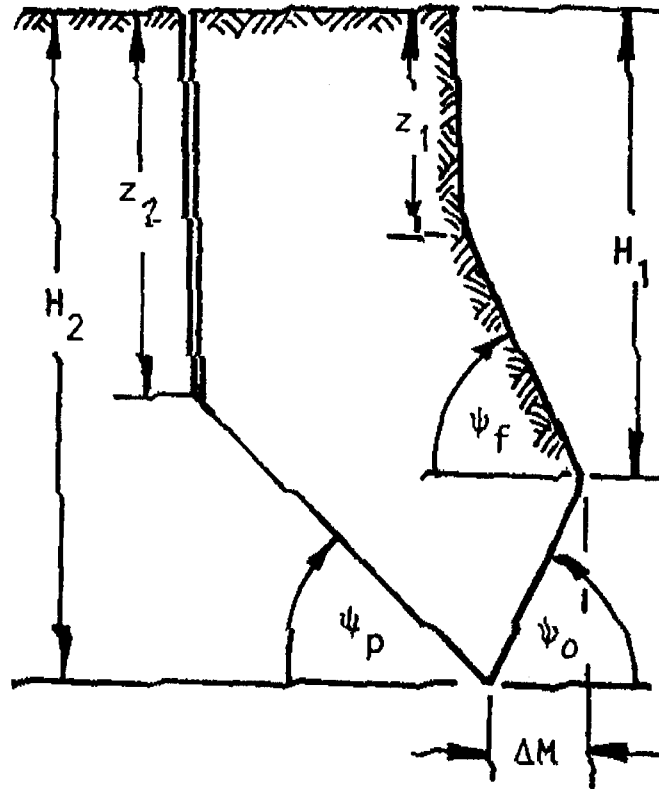


(c) NON-LINEAR FAILURE SURFACE



(d) CRITICALLY ORIENTED TENSION CRACK AND FAILURE PLANE

**TAURANGA RELIC SLIP VERIFICATION STUDY**  
**Figure 12: Comparison of failure mechanisms**



For  $\psi_o > 0$ ,

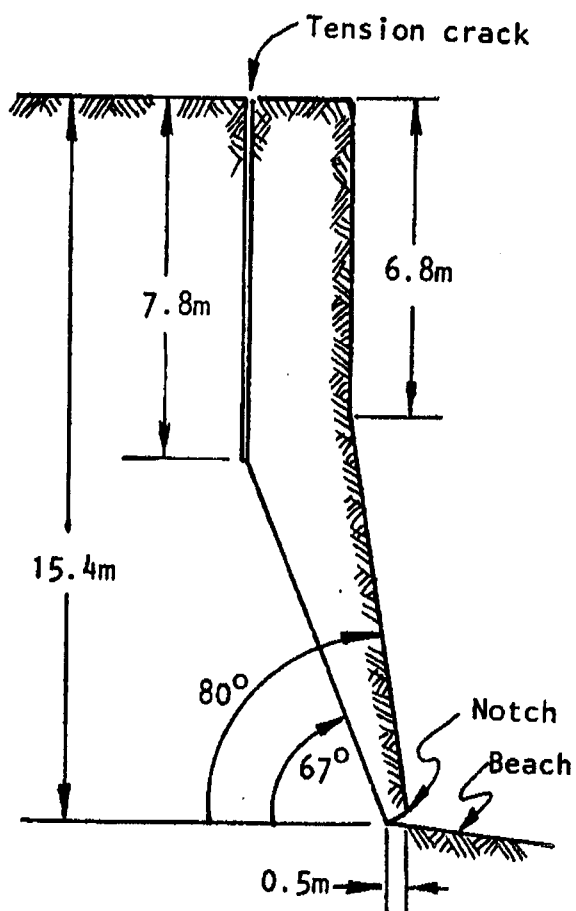
$$\Delta M = (H_2 - H_1) \cot \psi_o$$

The critical tension crack depth, for a dry under-cut slope, is given by:

$$z_2 = \frac{c \cdot \cos \phi}{\gamma \cdot \cos \psi_p \cdot \sin(\psi_p - \phi)}$$

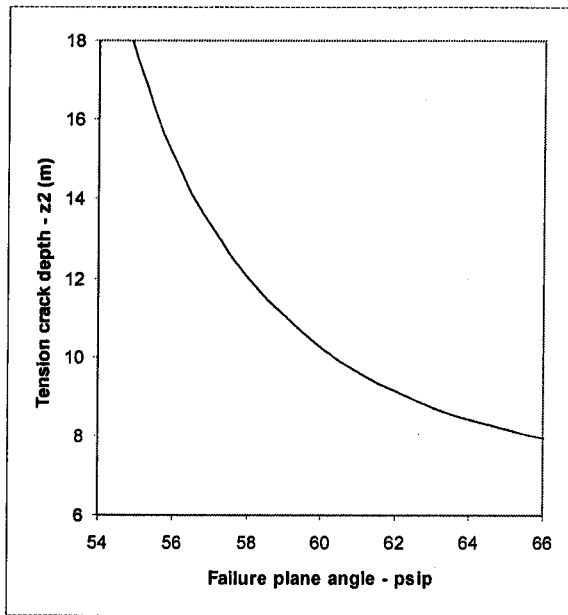
The critical failure plane inclination is:

$$\psi_p = 0.5 \left( \phi + \arctan \frac{H_2^2 - z_2^2}{(H_1^2 - z_1^2) \cdot \cot \psi_f - (H_1 + H_2) \cdot \Delta M} \right)$$



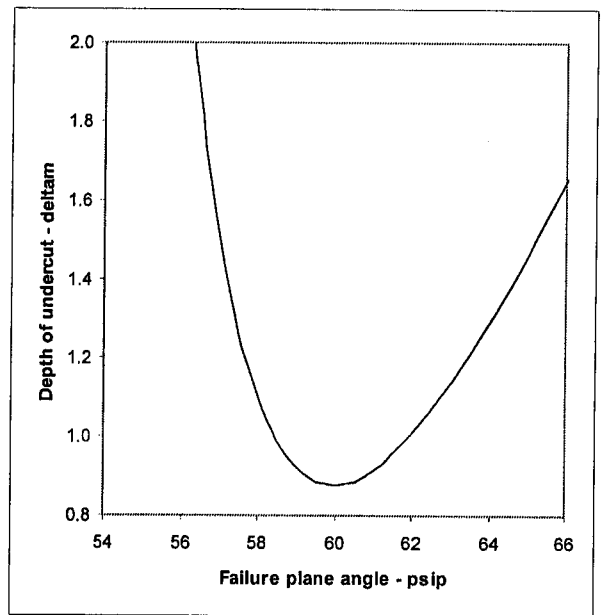
**TAURANGA RELIC SLIP VERIFICATION STUDY**

**Figure 14: Cross section of chalk cliff failure at Joss Bay (from Hutchinson)**



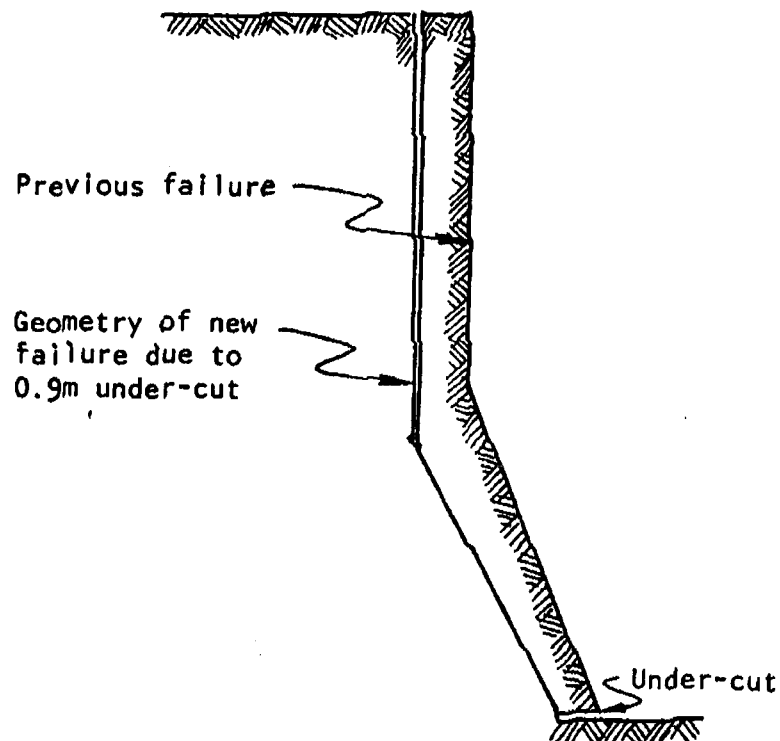
(a) TENSION CRACK DEPTH AT FAILURE

$$z_2 = \frac{c \cdot \cos \phi}{\gamma \cdot \cos \psi_p \cdot \sin(\psi_p - \phi)}$$



(b) DEPTH OF UNDER-CUT AT FAILURE

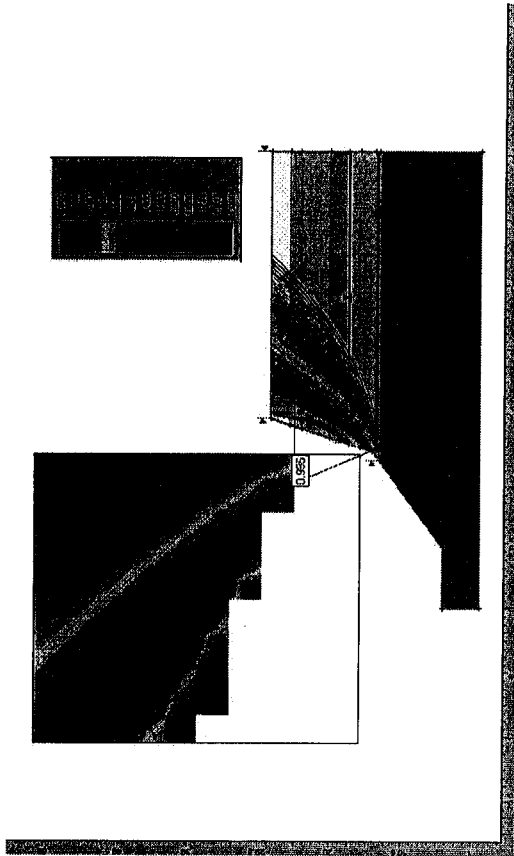
$$\Delta M = \frac{(H^2 - z_1^2) \cdot \cot \psi_f}{2H} - \frac{H^2 - z_2^2}{2H \cdot \tan(2\psi_p - \phi)}$$



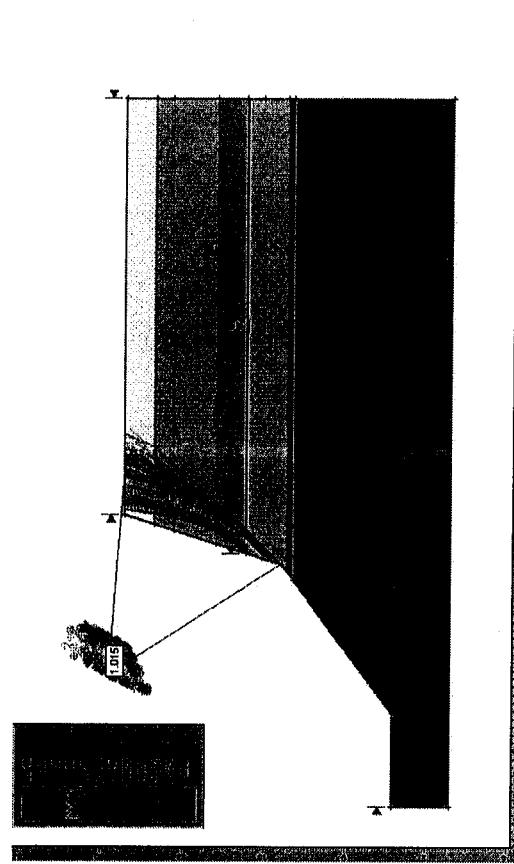
(c) PREDICTED GEOMETRY OF NEXT CLIFF FAILURE DUE TO UNDER-CUTTING

**TAURANGA RELIC SLIP VERIFICATION STUDY**

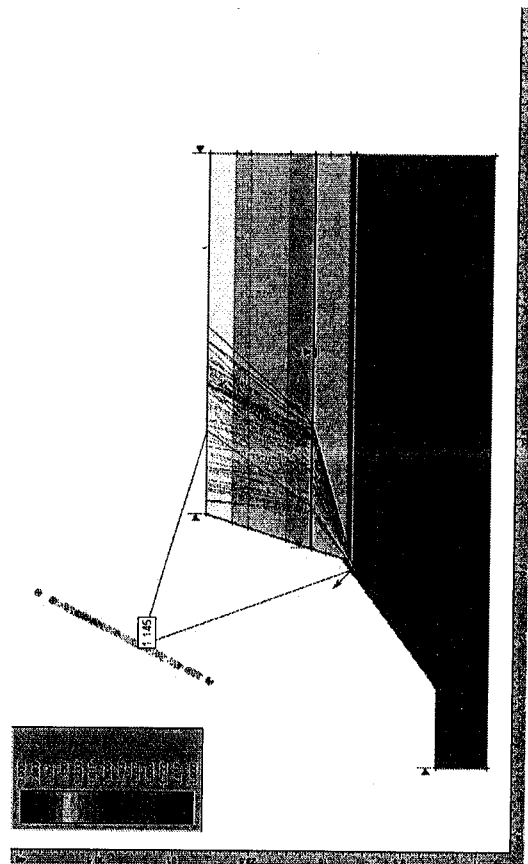
**Figure 15: Predicted geometry of next slope failure due to undercutting**



CIRCULAR FAILURES SURFACES USING GRID SEARCH

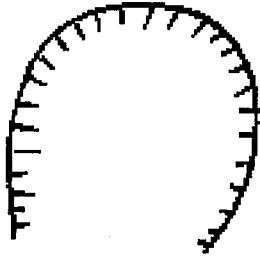


PATH SEARCH FOR CRITICAL FAILURE SURFACE

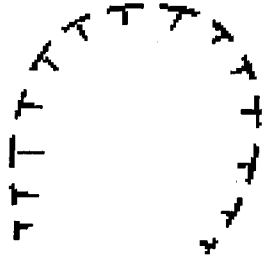


**TAURANGA RELIC SLIP VERIFICATION STUDY**

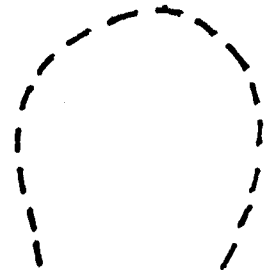
**Figure 16: Comparison of different methods of finding critical failure surface**



**Probable**



**Possible**

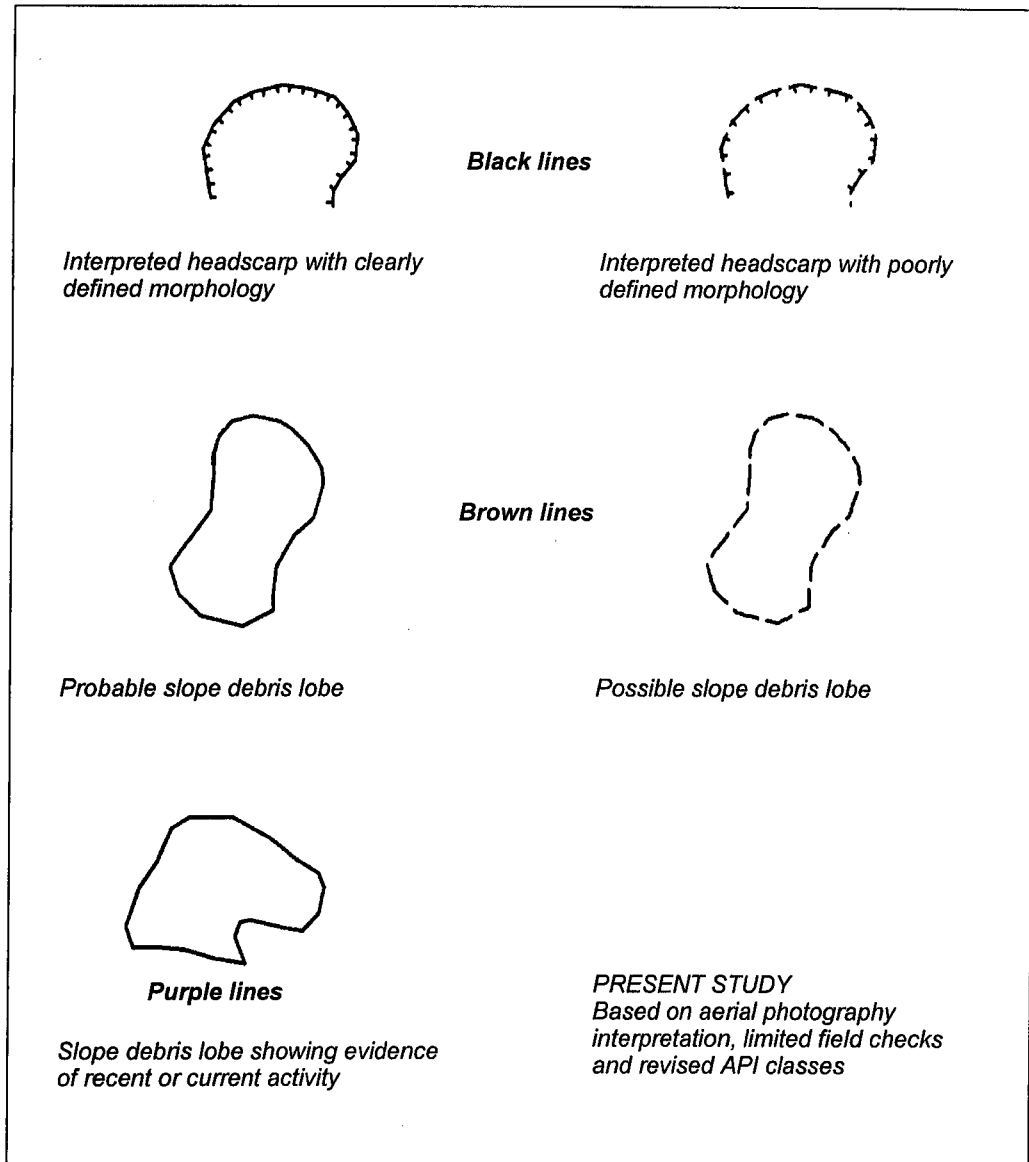


**HOUGHTON & HEGAN 1980**

Possible and probable landslides inferred from arcuate main scarps at the head of the slide and/or hummocky topography of the slumped material. Based on vertical aerial photographs up to 1977/78. No field checks were carried out.

**CURRENT TDC GIS INFORMATION**

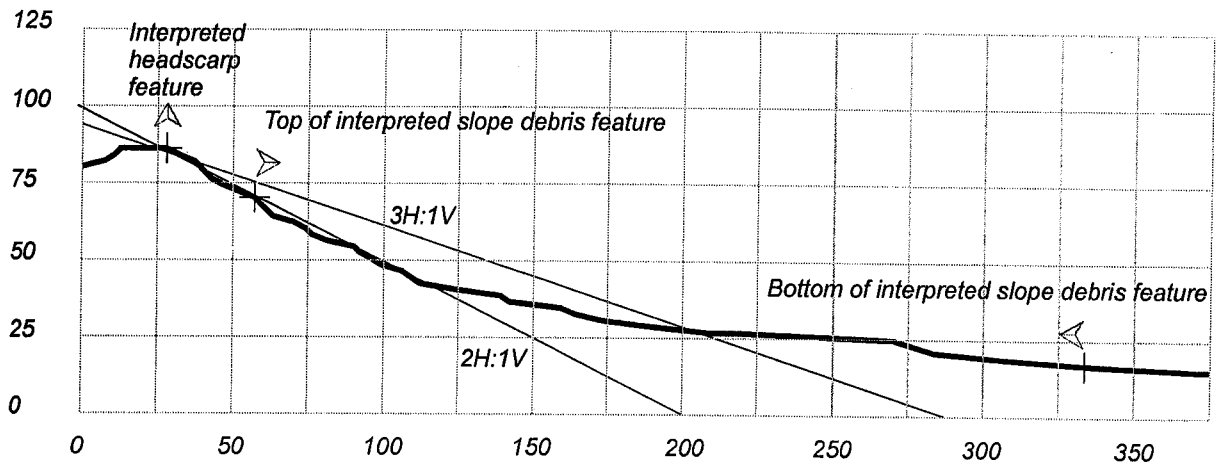
Locations of relic slips from Houghton & Hegan study. Significant location errors of about +/- 50m resulting from transposition of data from aerial photography interpretation on to GIS system.



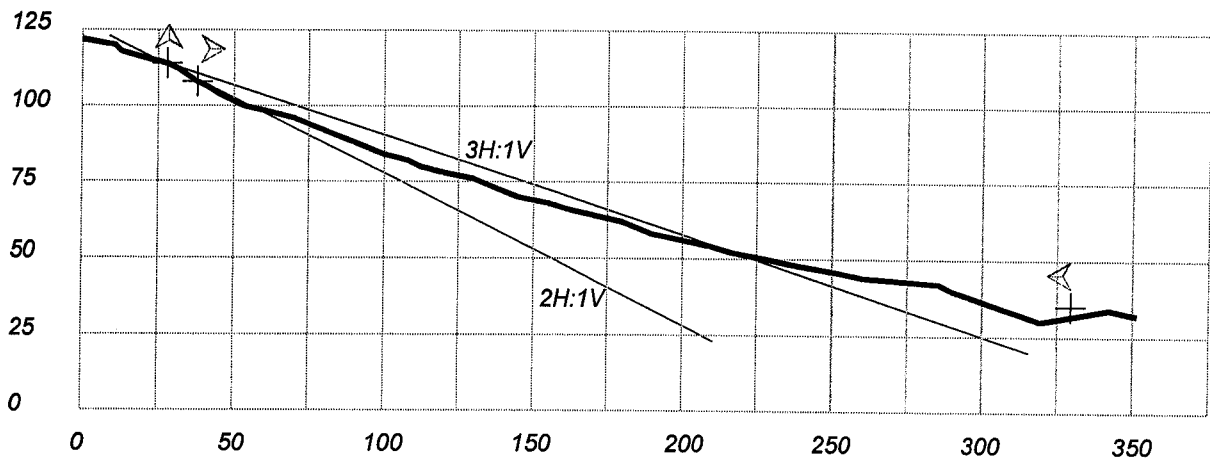
**TAURANGA RELIC SLIP VERIFICATION STUDY**

**Figure 17: Geomorphological symbols used for different studies**

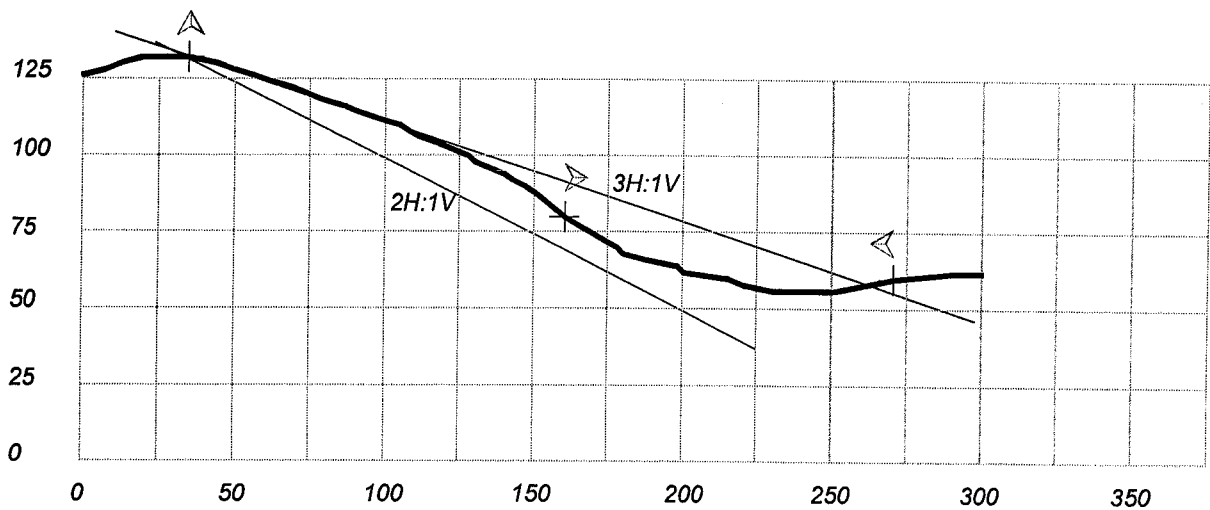




SECTION 1: SOUTH OF WELCOME BAY ROAD

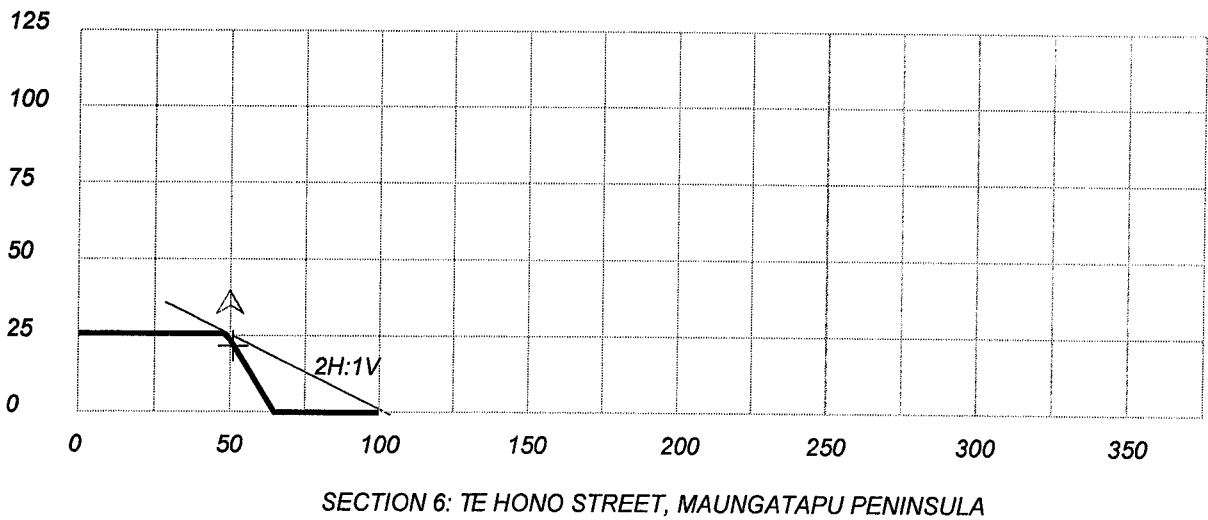
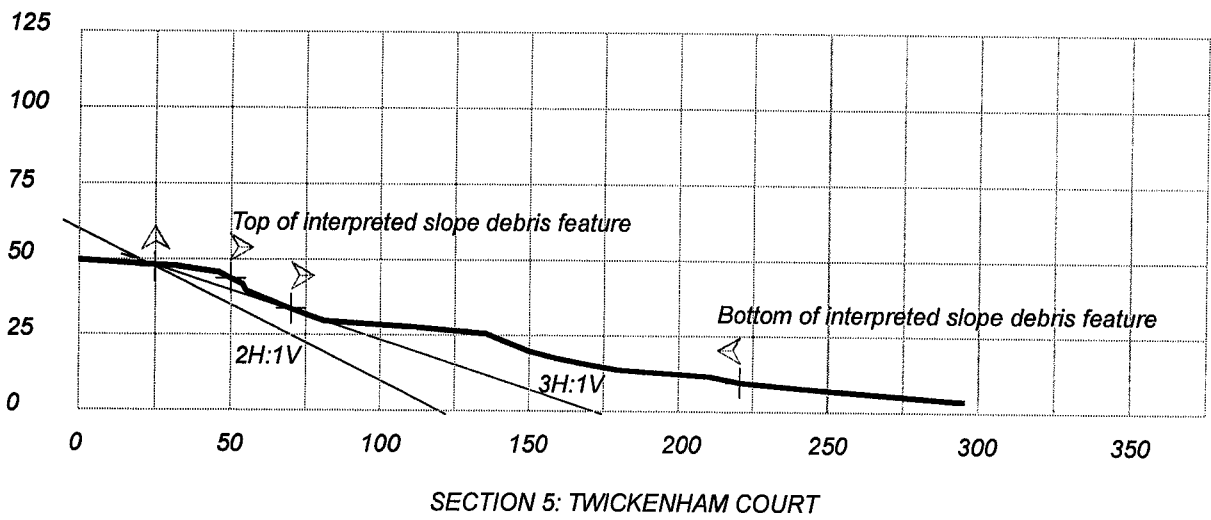
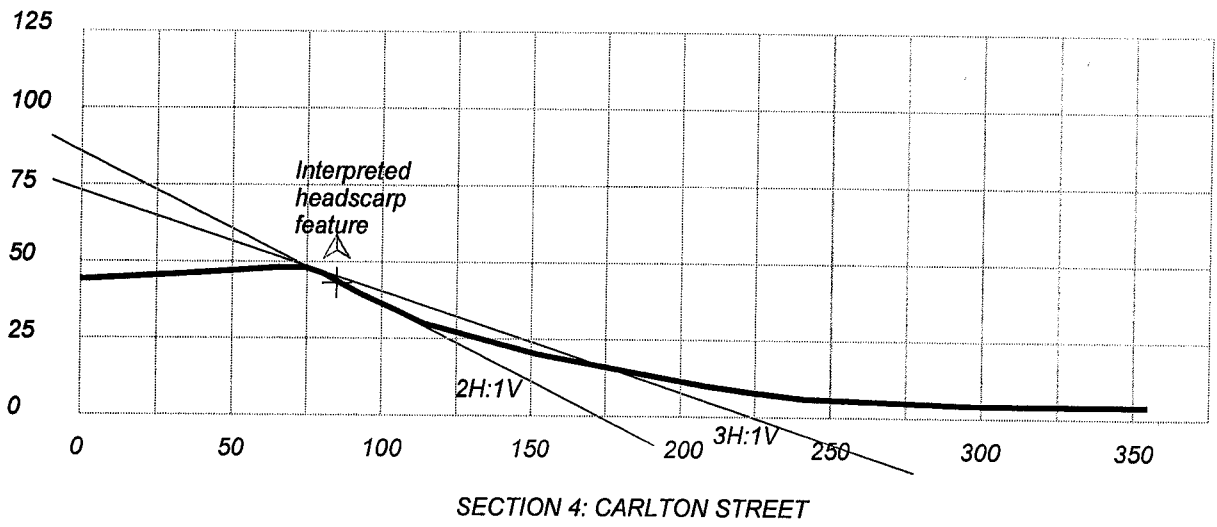


SECTION 2: EAST OF OCEANIA DRIVE

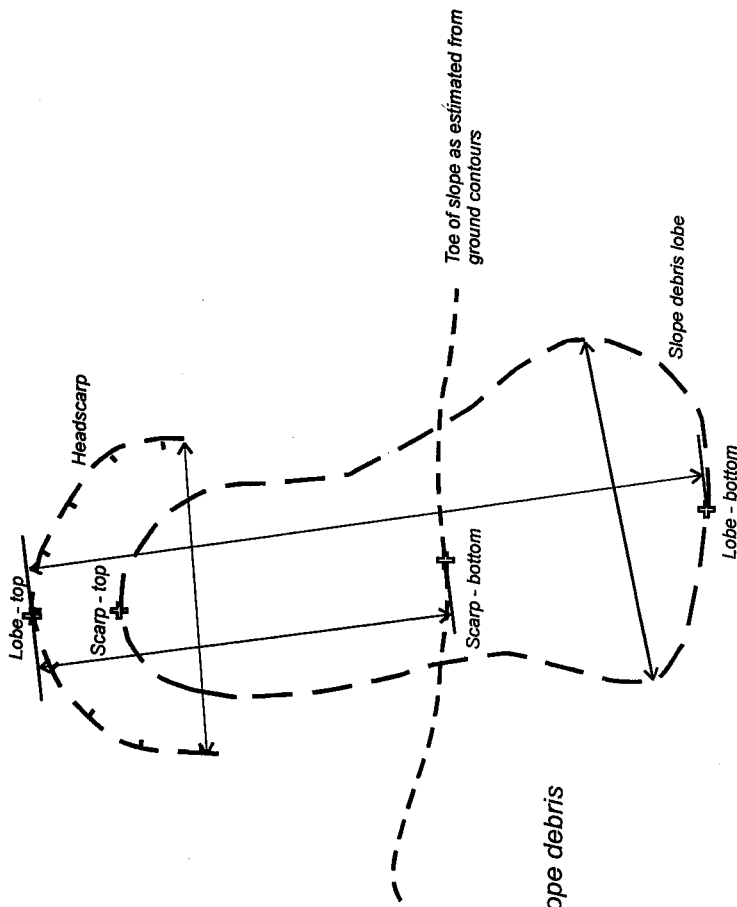


SECTION 3: EAST OF KAITEMAKO ROAD

**TAURANGA RELIC SLIP VERIFICATION STUDY**  
**Figure 18: Sections through relic slip areas**



**TAURANGA RELIC SLIP VERIFICATION STUDY**  
**Figure 19: Sections through relic slip areas**



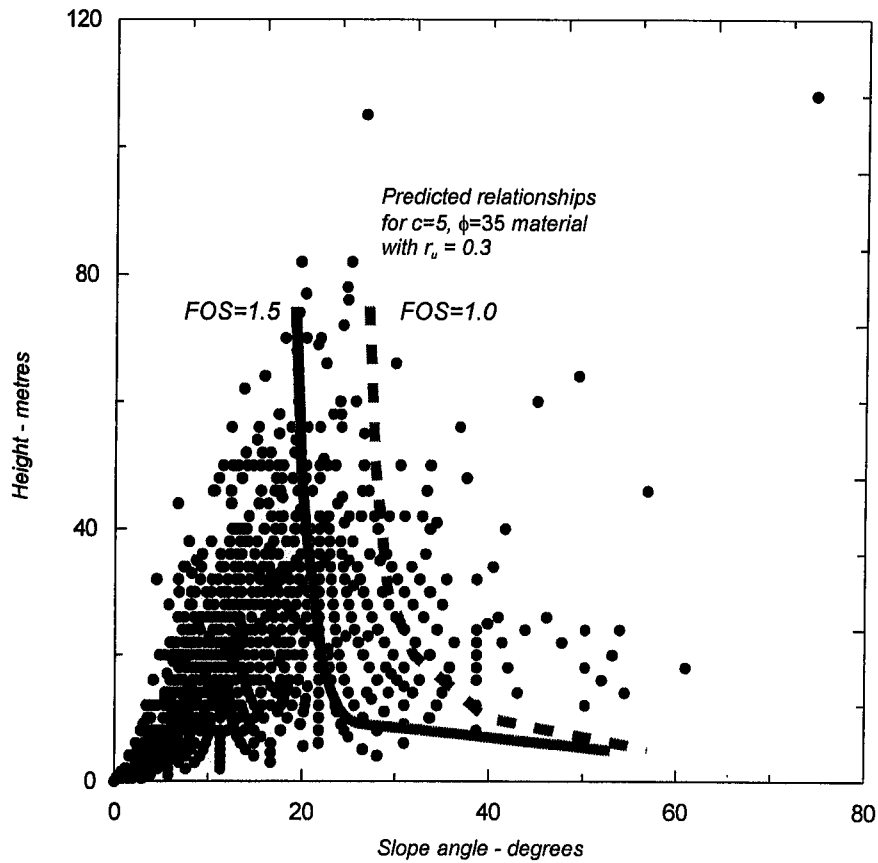
Plan of slide with associated slope debris

| Ref. No. | Coordinates | Height(m) | Scarp       |          | Width(m) | Bottom |    | Scarp       |     | Runout | Toe Top |    | Slope angle |        | Geology | Seepage | Geo. Symbol | Comment        |
|----------|-------------|-----------|-------------|----------|----------|--------|----|-------------|-----|--------|---------|----|-------------|--------|---------|---------|-------------|----------------|
|          |             |           | Distance(m) | Width(m) |          | RL     | RL | Distance(m) | RL  |        | RL      | RL | Scarp       | Runout |         |         |             |                |
| 1A001    | 2796769.2   | 8         | 117.5       | 80       | 4        | 12     | 4  | 12          | 110 | 50     | 5       | 10 | 3.89        | 3.64   | fs      | swampy  | 4           | wave cut cliff |
| 1A002    | 2796861.8   | 8         | 90          | 75       | 4        | 12     | 4  | 12          | 110 | 50     | 5       | 10 | 5.08        | 3.64   | fs      | swampy  | 3           | wave cut cliff |
| 1B003    | 2800020.5   | 82        | 175         | 130      | 40       | 122    | 40 | 122         | 250 | 160    | 35      | 90 | 25.11       | 19.19  | mr      |         | 2           |                |
| 1B002    | 2799851.2   | ?         | 110         | 70       | ?        | ?      | ?  | ?           | 300 | 70     | ?       | ?  | ?           | ?      | tm      | Yes     | 0           | no contours    |
| 1B003    | 2799311.4   | ?         | 35          | 60       | ?        | ?      | ?  | ?           | 300 | 70     | ?       | ?  | ?           | ?      | tm      |         | 2           | no contours    |
| 1B004    | 2796813.4   | 30        | 65          | 40       | 20       | 50     | 20 | 50          | 100 | 50     | 38      | 60 | 24.78       | 17.74  | tm      |         | 0           |                |
| 1B005    | 2797040.5   | 30        | 110         | 100      | 40       | 70     | 40 | 70          | 100 | 50     | 38      | 60 | 15.26       | 17.74  | tm      |         | 0           |                |

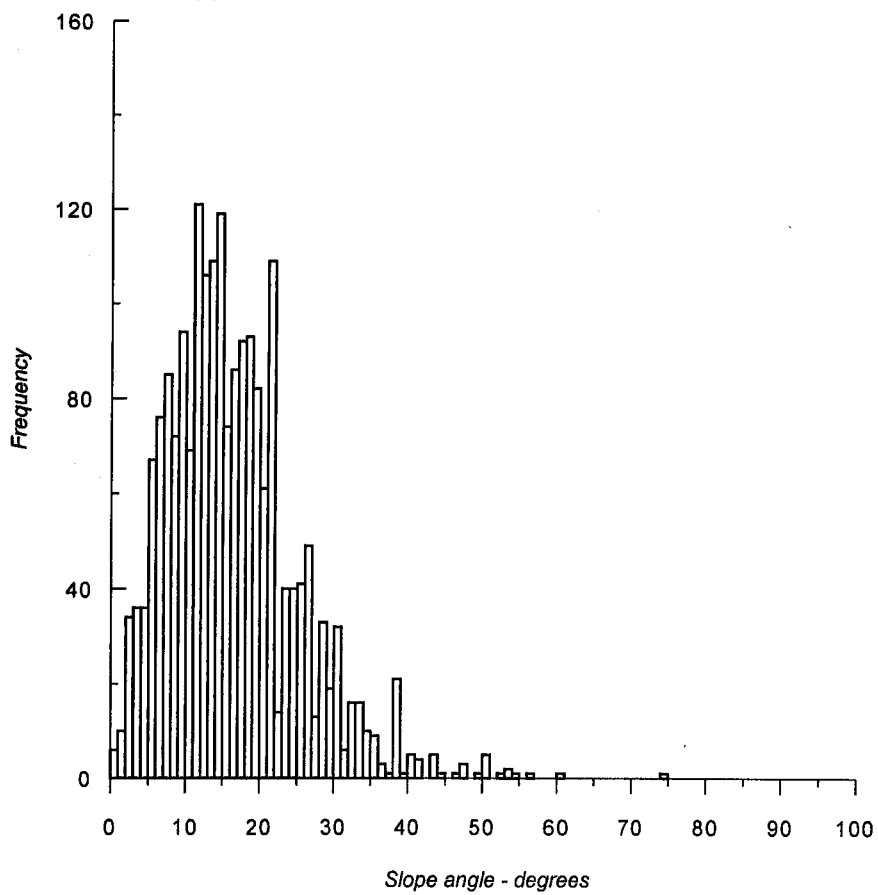
Slide attributes as coded on spreadsheet

### TAURANGA RELIC SLIP VERIFICATION STUDY

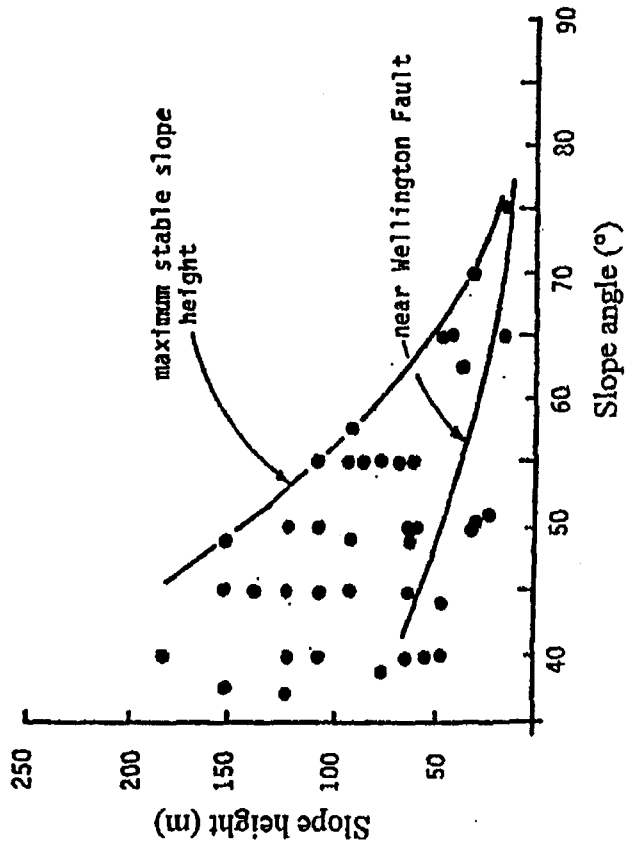
Figure 20: Definition sketches for landslide attributes



(a) SCARP HEIGHT VERSUS ANGLE RELATIONSHIP

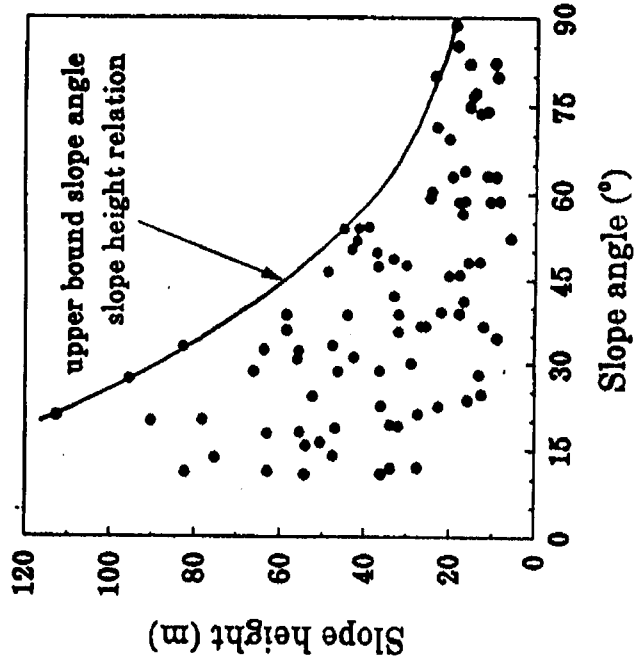


(b) FREQUENCY DISTRIBUTION FOR SCARP ANGLES



Slope height versus angle relationship for Wellington greywacke

Grant Taylor TL. Stable angles in Wellington greywacke  
New Zealand Engineering 19(4), April 1964

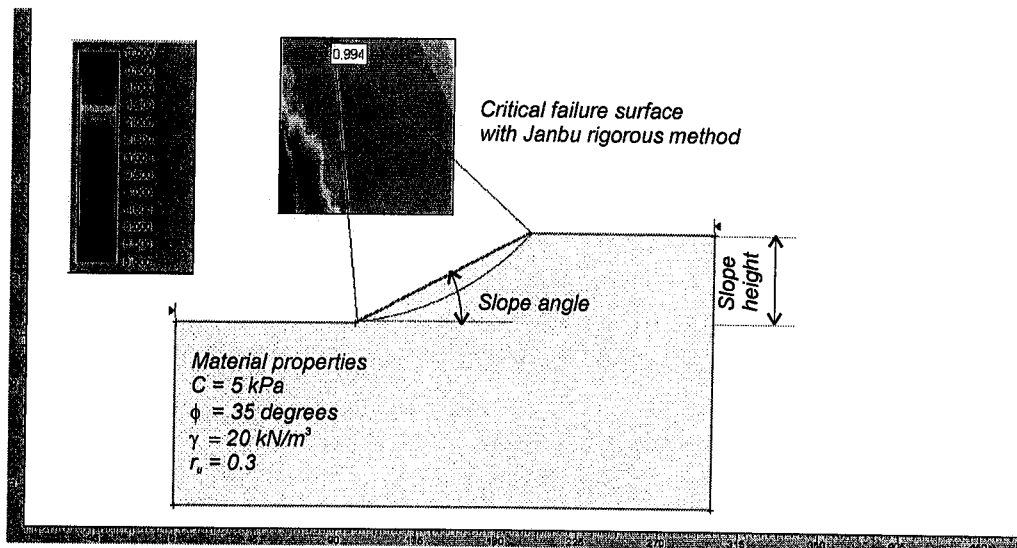


Slope height versus angle relationships for Kawakawa Bay greywackes

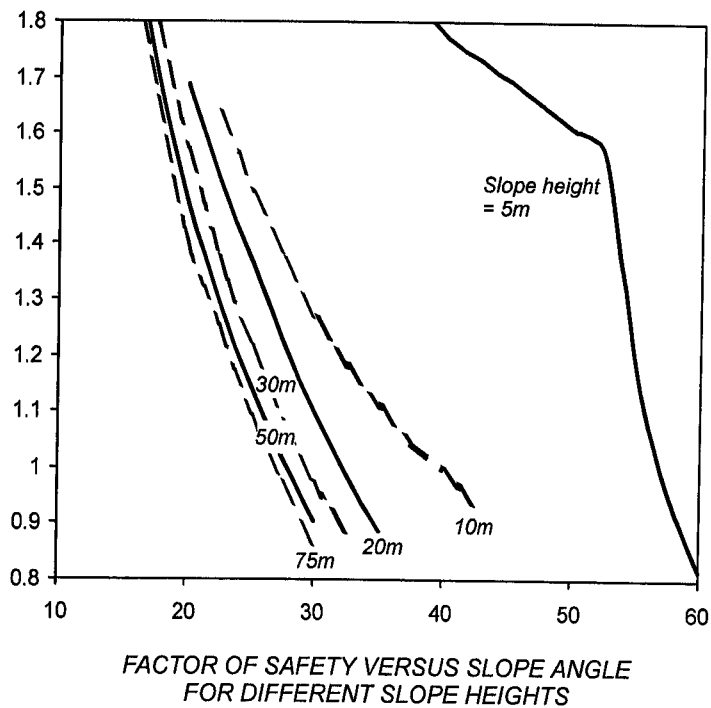
Free MW. Back analysis of closely fractured greywacke sandstone  
and argillite rock slopes  
MSc Thesis, University of Auckland, 1987

## TAURANGA RELIC SLIP VERIFICATION STUDY

Figure 22: Slope height versus angle relationships for NZ greywackes

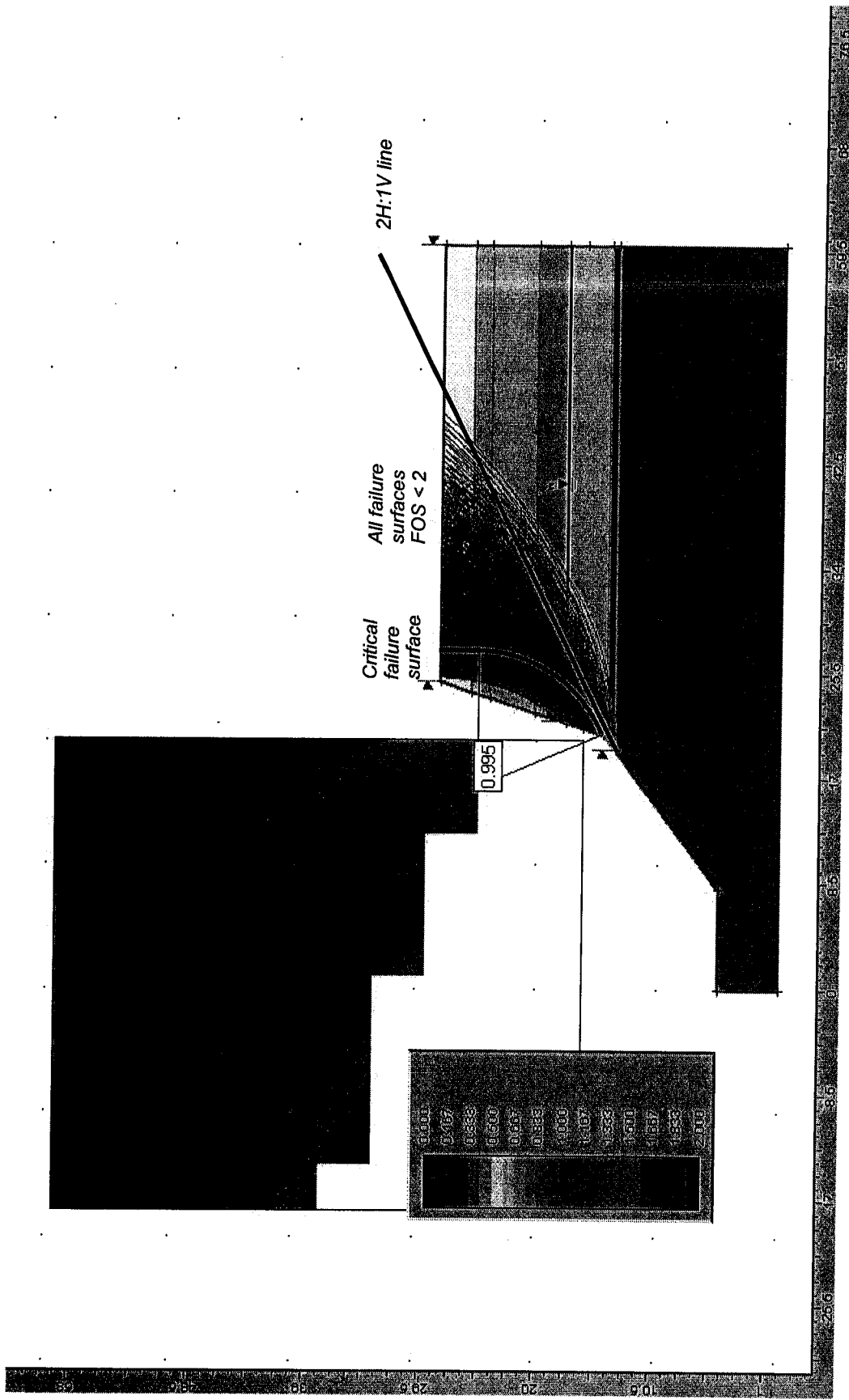


DEFINITION SKETCH FOR SLOPE STABILITY ANALYSES  
 USING SLIDE PROGRAM FROM ROCSCIENCE

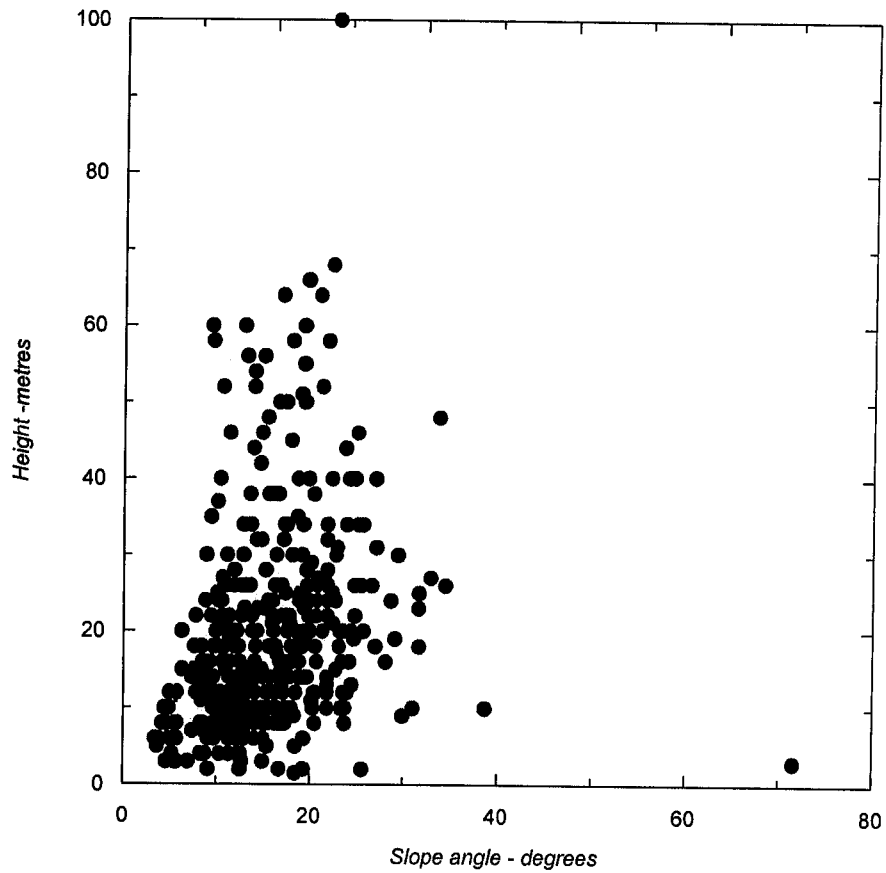


**TAURANGA RELIC SLIP VERIFICATION STUDY**

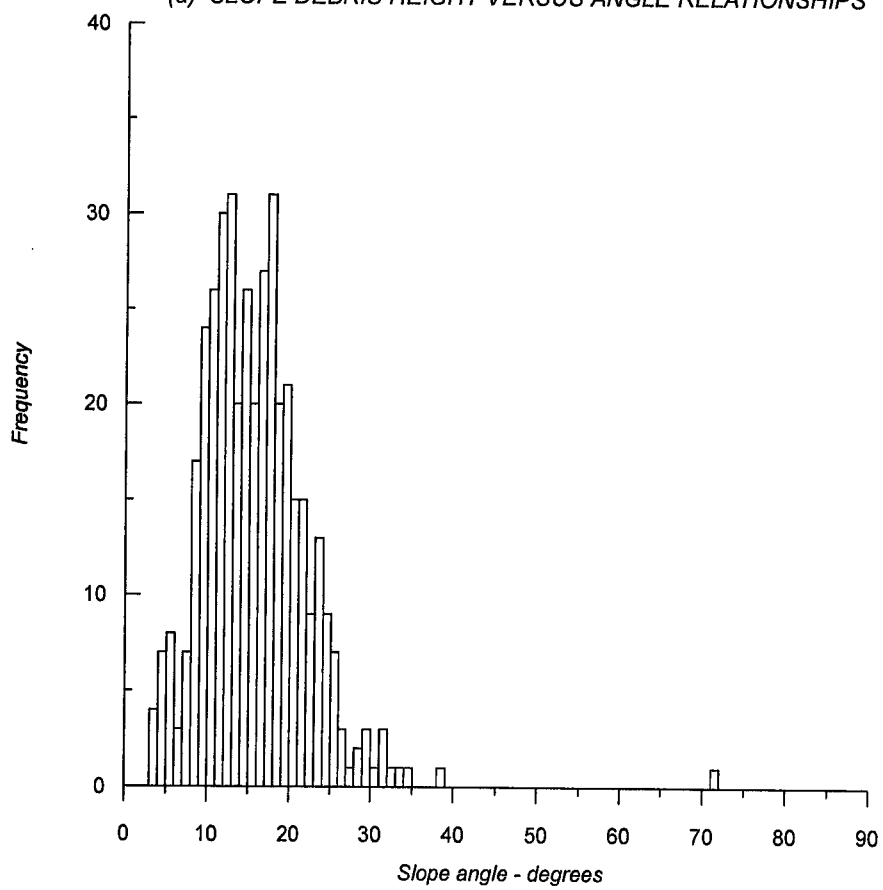
**Figure 23: Factors of safety related to slope height and slope angle**



**TAURANGA RELIC SLIP VERIFICATION STUDY**  
**Figure 24: 2H:1V line compared with factors of safety for circular failure surfaces**



(a) SLOPE DEBRIS HEIGHT VERSUS ANGLE RELATIONSHIPS



(b) FREQUENCY DISTRIBUTION FOR SLOPE DEBRIS ANGLES



**APPENDIX 1**

**HOUGHTON & HEGAN 1980  
RELIC SLIP PLAN**

**APPENDIX 2**

**INFORMATION PROVIDED BY  
TDC**

## REPORTS

Tonkin & Taylor. *Omokoroa Point land stability investigation*. Report to Tauranga District Council, May 1980

Houghton BF & Hegan BD. *Preliminary assessment of geological factors influencing slope stability and landslipping in and around Tauranga City* NZGS Engineering Geology Report EG348, October 1980

Tonkin & Taylor. *Stability assessment, residential land Minden and Maketu, Tauranga County*. Report to Tauranga County Council, July 1984

Tonkin & Taylor. *Geotechnical appraisal Minden area*. Report to Bruce Henderson Consultants for Western Bay of Plenty District Council, January 1992

Pender MJ, Taylor DK. *Geotechnical appraisal and review Minden area. Report of review panel 4 September 1991*. Report to Western Bay of Plenty District Council, February 1992

Briggs RM et al. *Geology of the Tauranga Area*. Occasional Report No 22, Dept of Earth Sciences, University of Waikato, 1996

## AERIAL PHOTOGRAPHS

|                         |                          |                                 |
|-------------------------|--------------------------|---------------------------------|
| <i>February 1943</i>    | <i>Black &amp; white</i> | <i>Scale:</i>                   |
| 09.02.43                | 502/52                   | 502/55-58                       |
|                         | 498/47                   | 499/39-44                       |
|                         | 500/43-47                | 501/55-57                       |
|                         | 500/60-62                |                                 |
| <i>January 1959</i>     | <i>Black &amp; white</i> | <i>Scale:</i>                   |
| 16.01.59                | 5153-5181                |                                 |
| <i>December 1971</i>    | <i>Black &amp; white</i> | <i>Scale: 200 ft to 1 inch</i>  |
| 24.12.71                | 203296-203307            |                                 |
| <i>September 1973</i>   | <i>Black &amp; white</i> | <i>Scale: 200 ft to 1 inch</i>  |
| 05.09.73                | 206615-206618            | 206626                          |
|                         | 206628-206631            | 206634-206644                   |
|                         | 206654                   |                                 |
| <i>January 1975</i>     | <i>Black &amp; white</i> | <i>Scale: 1:2500</i>            |
| 03.01.75                | 208024-208043            |                                 |
| <i>June 1975</i>        | <i>Black &amp; white</i> | <i>Scale: 1000 ft to 1 inch</i> |
| 05.06.75                | 208759-208783            | 208785-208792                   |
| <i>May 1977</i>         | <i>Black &amp; white</i> | <i>Scale: 1:15800</i>           |
| 11.05.77                | 212200-212203            | 212206-212264                   |
|                         | 212267-212278            |                                 |
| <i>October 1978</i>     | <i>Black &amp; white</i> | <i>Scale: 1:3800</i>            |
| 03.10.78                | 66721-66723              | 66725-66741                     |
|                         | 66746-66750              | 66752-66758                     |
| 25.10.78                | 66919-66931              |                                 |
| <i>March/April 1997</i> | <i>Black &amp; white</i> | <i>Scale: 1:2000</i>            |
| 14.03.97                | 419211-419213            | 419217-419219                   |
|                         | 419221-419234            | 419235-419240                   |
| 30.04.97                | 500621-500632            |                                 |

| <i>March-June 1997</i> | <i>Black &amp; white</i> | <i>Scale: 1:6000</i> |
|------------------------|--------------------------|----------------------|
| 14.03.97               | 419244-419266            |                      |
| 15.03.97               | 419267-419286            | 419293-419305        |
|                        | 419311-419322            |                      |
| 28.03.97               | 420280-420292            |                      |
| 30.03.97               | 420306-420341            | 420381-420470        |
|                        | 420352-420369            |                      |
| 22.04.97               | 500250-500254            | 500266-500272        |
|                        | 500274-500291            | 500315-500328        |
|                        | 500352-500344            |                      |
| 23.06.97               | 502545-502551            |                      |

**TOPOGRAPHICAL MAPS PROVIDED BY TDC**

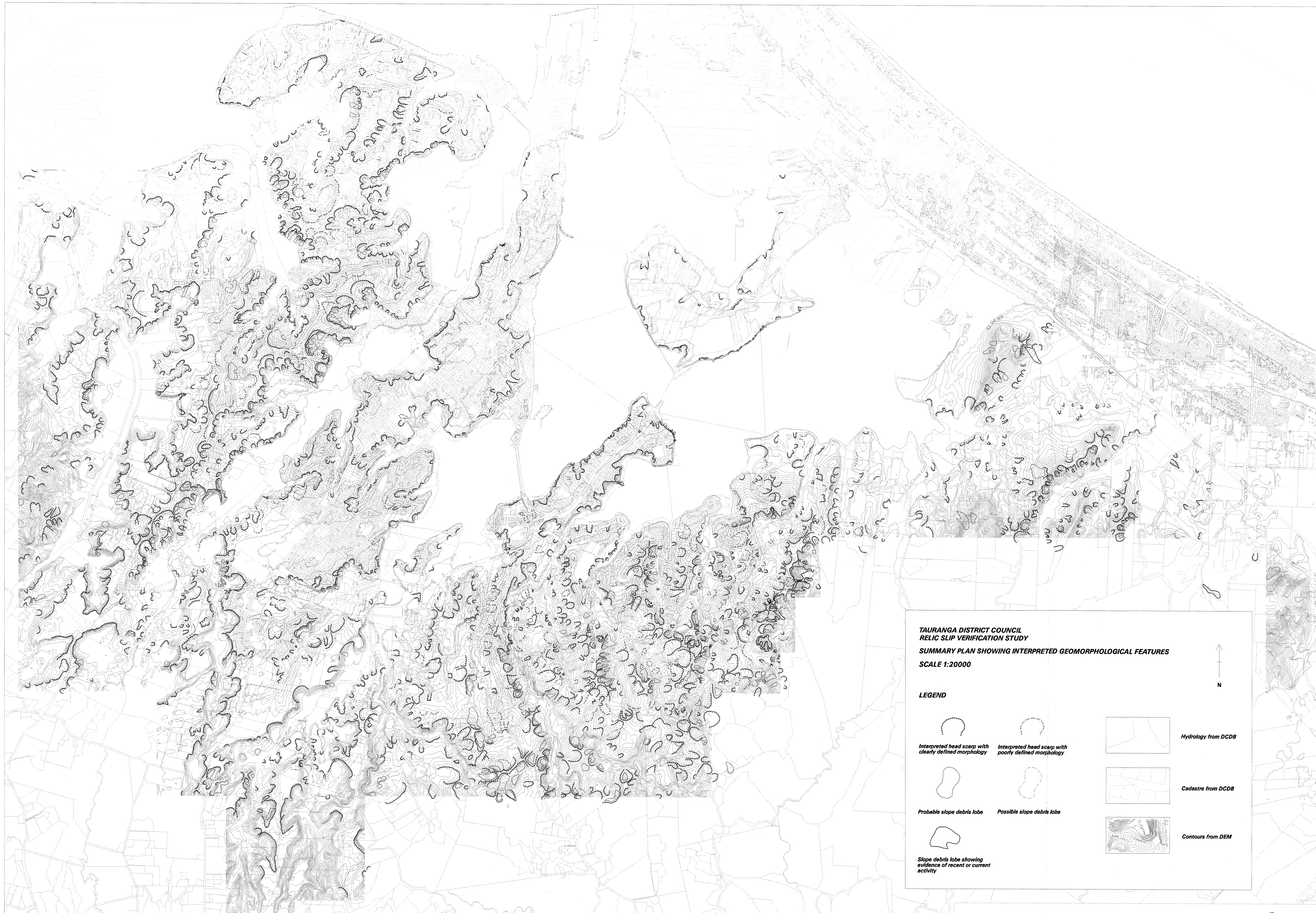
Scale 1:5000 GIS maps showing roads, lots, Council boundary, 2m contours and slip locations transposed from Houghton & Hegan plan

Scale 1:5000 GIS maps showing land within 2H:1V zone and slopes steeper than 26.5°.

**APPENDIX 3**

**REVISED RELIC SLIP PLAN**





**TAURANGA DISTRICT COUNCIL  
RELIC SLIP VERIFICATION STUDY  
SUMMARY PLAN SHOWING INTERPRETED GEOMORPHOLOGICAL FEATURES  
SCALE 1:20000**



**LEGEND**

- |  |  |  |                            |
|--|--|--|----------------------------|
|  |  |  | <b>Hydrology from DCDB</b> |
|  |  |  | <b>Cadastra from DCDB</b>  |
|  |  |  | <b>Contours from DEM</b>   |



**APPENDIX 4**

**GLOSSARY OF TECHNICAL  
TERMS**

## **GLOSSARY OF TECHNICAL TERMS**

**Aggradation:** the accumulation of material deposited from water in lake or river resulting in sediment build up and increase in height of surfaces

**Alluvial:** deposited by running water on broad slopes or aprons (fans)

**Aquifer:** a bed of rock or soil that is sufficiently porous and permeable to be useful as a source of water

**Aquitard:** a bed of rock or soil in which permeability is relatively low

**Ashfall:** the unconsolidated fine-grained material formed as a result of volcanic explosions

**Clay:** material with extremely fine grains of less than 0.002mm particle size

**Cohesion:** the component of shear strength which is independent of the normal load

**Embayment:** a landform which is enclosed as in a bay. In a more general sense, it denotes a re-entrant into a slope, i.e. the concave 'relic slips' are often morphological embayments

**Exfoliation:** the phenomenon of splitting or fracturing of near surface materials more or less parallel to the free surface

**Fluvial:** deposited by running water in discrete channels as with rivers and streams

**Friction:** the component of shear strength which is dependent on the normal load

**Geographical Information System (GIS):** a computer-based system for presentation of topographical information

**Geomorphological feature:** an interpretation of a landform with respect to the process that formed it

**Geomorphology:** the description and interpretation of landforms

**Headscarp:** the upper extent of a landslide which is typically arcuate and steep

**Mass movement:** a general term for all types of large scale slope movements

**Morphology:** form

**Palaechannel:** old river channel

**Palaeosol:** an older soil preserved beneath more recent deposits

**Phreatic surface:** the upper surface of the groundwater

**Physiography:** synonym for geomorphology

**Piping:** the internal erosion of a soil due to flowing water

**Pyroclastic:** pyroclastic rocks consist of fragmental volcanic material which has been blown into the atmosphere by explosive activity

**Recession:** backward movement or retreat of a landslide feature

**Relic slip:** the remnants of a previous landslide, inferred from the presence of a headscarp feature and/or hummocky slope debris

**Residual shear strength:** the lowest value of shear strength applicable after large displacements



**Shear strength:** the resistance to sliding or shearing

**Silt:** material with fine grains of between 0.002mm and 0.06mm particle size

**Slip debris:** translated deposits, the fragmented material formed as a result of slope movements

**Stratigraphy:** the study of stratified rocks (sediments and volcanics) especially their sequence in time, the character of the rocks and the correlation of beds in different localities.

**Tension crack:** a sub-vertical fracture commonly formed beyond the crest of slopes because of stress relief. These are significant features with respect to slope stability since they may become full of water due periods of high rainfall.

**Tephra:** a term for all fragmental volcanic products which are ejected through the vent, e.g. ash, cinders, lapilli, scoriae, pumice, bombs, etc.

**APPENDIX 5**

**ATTRIBUTES OF  
HEADSCARPS AND SLOPE  
DEBRIS LOBES**

| Ref. No. | Coordinates |           | Scarp     |             |          | Bottom |      | Scarp       |          | Runout |     | Toe Top |        | Slope angle |       | Geology | Seepage | Geo. Symbol |
|----------|-------------|-----------|-----------|-------------|----------|--------|------|-------------|----------|--------|-----|---------|--------|-------------|-------|---------|---------|-------------|
|          |             |           | Height(m) | Distance(m) | Width(m) | RL     | RL   | Distance(m) | Width(m) | RL     | RL  | Scarp   | Runout |             |       |         |         |             |
| 1A001    | 2796769.2   | 6384263.7 | 8         | 117.5       | 80       | 4      | 12   |             |          | 110    | 50  | 5       | 10     | 3.89        | 3.64  | fs      | swampy  | 4           |
| 1A002    | 2796861.8   | 6384341.4 | 8         | 90          | 75       | 4      | 12   |             |          |        |     |         |        | 5.08        |       | fs      | swampy  | 3           |
| 1B003    | 2800020.5   | 6380660.8 | 82        | 175         | 130      | 40     | 122  |             |          | 250    | 160 | 35      | 90     | 25.11       | 19.19 | mr      |         | 2           |
| 1B002    | 2799851.2   | 6380935.9 | ?         | 110         | 70       | ?      | ?    |             |          |        |     |         |        | ?           |       | tm      |         | 0           |
| 1B003    | 2799311.4   | 6380389.6 | ?         | 35          | 60       | ?      | ?    |             |          | 300    | 70  | ?       | ?      | ?           | ?     | tm      | Yes     | 2           |
| 1B004    | 2796813.4   | 6381364.6 | 30        | 65          | 40       | 20     | 50   |             |          |        |     |         |        | 24.78       |       | tm      |         | 0           |
| 1B005    | 2797040.5   | 6381406.9 | 30        | 110         | 100      | 40     | 70   |             |          | 100    | 50  | 38      | 60     | 15.26       | 17.74 | tm      |         | 0           |
| 1B006    | 2797035.0   | 6381518.2 | 7         | 40          | 40       | 28     | 35   |             |          |        |     |         |        | 9.93        |       | tm      |         | 0           |
| 1B007    | 2797162.6   | 6381553.5 | 30        | 85          | 90       | 30     | 60   |             |          |        |     |         |        | 19.44       |       | tm      |         | 0           |
| 1B008    | 2797083.9   | 6381716.3 | 5         | 105         | 45       | 25     | 30   |             |          |        |     |         |        | 2.73        |       | tm      |         | 0           |
| 1B009    | 2797241.3   | 6381884.6 | 12        | 60          | 45       | 20     | 32   |             |          |        |     |         |        | 11.31       |       | tm      |         | 1           |
| 1B010    | 2797390.6   | 6382014.9 | 9         | 70          | 50       | 20     | 29   |             |          |        |     |         |        | 7.33        |       | Pa      |         | 3           |
| 1B011    | 2797396.0   | 6381846.6 | 35        | 65          | 150      | 20     | 55   |             |          |        |     |         |        | 28.30       |       | Pa      |         | 1           |
| 1B012    | 2797632.1   | 6381879.1 | 2         | 20          | 75       | 20     | 22   |             |          |        |     |         |        | 5.71        |       | Pa      |         | 0           |
| 1B013    | 2797507.3   | 6381719.0 | 16        | 75          | 60       | 18     | 34   |             |          |        |     |         |        | 12.04       |       | Pa      |         | 0           |
| 1B014    | 2797382.4   | 6381702.7 | 43        | 120         | 125      | 20     | 63   |             |          | 100    | 80  | 28      | 51     | 19.71       | 19.29 | Pa      |         | 2           |
| 1B015    | 2797358.0   | 6381520.9 | 7         | 15          | 40       | 40     | 47   |             |          |        |     |         |        | 25.02       |       | Pa      |         | 0           |
| 1B016    | 2797287.5   | 6381425.9 | 20        | 40          | 30       | 40     | 60   |             |          |        |     |         |        | 26.57       |       | Pa      |         | 0           |
| 1B017    | 2797292.9   | 6381341.8 | 18        | 45          | 45       | 40     | 58   |             |          |        |     |         |        | 21.80       |       | Pa      |         | 0           |
| 1B018    | 2797809.6   | 6381375.7 | 15        | 70          | 55       | 50     | 65   |             |          |        |     |         |        | 12.09       |       | Pa      |         | 0           |
| 1B019    | 2797728.6   | 6381584.0 | 8         | 85          | 70       | 18     | 26   |             |          | 100    | 70  | 18      | 21     | 5.38        | 4.57  | Pa      | Yes     | 0           |
| 1B020    | 2797837.7   | 6381567.5 | 10        | 50          | 45       | 20     | 30   |             |          |        |     |         |        | 11.31       |       | Pa      |         | 0           |
| 1B021    | 2797923.7   | 6381549.3 | 40        | 115         | 270      | 20     | 60   |             |          |        |     |         |        | 19.18       |       | Pa      |         | 0           |
| 1B022    | 2797879.0   | 6381739.5 | 5         | 10          | 40       | 18     | 23   |             |          |        |     |         |        | 26.57       |       | Pa      | Yes     | 3           |
| 1B023    | 2797880.7   | 6381868.5 | 23        | 100         | 70       | 18     | 41   |             |          |        |     |         |        | 12.95       |       | Pa      |         | 3           |
| 1B024    | 2797961.7   | 6381794.1 | 11        | 20          | 100      | 50     | 61   |             |          |        |     |         |        | 28.81       |       | Pa      |         | 1           |
| 1B025    | 2797956.8   | 6381926.3 | 41        | 60          | 185      | 10     | 51   |             |          |        |     |         |        | 34.35       |       | Pa      |         | 1           |
| 1B026    | 2798031.2   | 6382116.5 | 7         | 40          | 150      | 18     | 25   |             |          |        |     |         |        | 9.93        |       | tm      |         | 1           |
| 1B027    | 2798039.5   | 6382230.6 | 1         | 25          | 70       | 17     | 18   |             |          |        |     |         |        | 2.29        |       | tm      |         | 1           |
| 1B028    | 2798140.3   | 6381921.4 | 1         | 20          | 50       | 18     | 19   |             |          |        |     |         |        | 2.86        |       | Pa      |         | 1           |
| 1B029    | 2798087.4   | 6381772.6 | 20        | 70          | 60       | 20     | 40   |             |          |        |     |         |        | 15.95       |       | Pa      |         | 0           |
| 1B030    | 2798036.1   | 6381597.3 | 45        | 140         | 85       | 20     | 65   |             |          | 90     | 50  | 19      | 50     | 17.82       | 27.07 | Pa      |         | 2           |
| 1B031    | 2797981.6   | 6381539.4 | 50        | 100         | 55       | 20     | 70   |             |          |        |     |         |        | 26.57       |       | Pa      |         | 0           |
| 1B032    | 2797938.6   | 6381494.7 | 30        | 65          | 45       | 40     | 70   |             |          |        |     |         |        | 24.78       |       | Pa      |         | 0           |
| 1B033    | 2797867.5   | 6381420.3 | 51        | 125         | 85       | 19     | 70   |             |          | 65     | 45  | 28      | 55     | 22.20       | 32.87 | Pa      |         | 2           |
| 1B034    | 2797860.9   | 6381266.5 | 40        | 125         | 120      | 20     | 60   |             |          | 65     | 50  | 20      | 45     | 17.74       | 31.61 | Pa      |         | 2           |
| 1B035    | 2798743.9   | 6381253.3 | 32        | 140         | 100      | 30     | 62   |             |          | 150    | 155 | 29      | 45     | 12.88       | 12.41 | tm      |         | 2           |
| 1B036    | 2799039.9   | 6381273.2 | 0.5       | 15          | 95       | 20     | 20.5 |             |          |        |     |         |        | 1.91        |       | pa      |         | 0           |
| 1B037    | 2798963.8   | 6381569.2 | 0.5       | 10          | 90       | 20     | 20.5 |             |          |        |     |         |        | 2.86        |       | tm      |         | 1           |
| 1B038    | 2798824.9   | 6381698.1 | 0.5       | 10          | 55       | 20     | 20.5 |             |          |        |     |         |        | 2.86        |       | tm      |         | 3           |
| 1B039    | 2799022.3   | 6381785.4 | 0.5       | 15          | 80       | 20     | 20.5 |             |          |        |     |         |        | 1.91        |       | tm      |         | 3           |
| 1B040    | 2799112.2   | 6381662.8 | 5.5       | 15          | 35       | 15     | 20.5 |             |          |        |     |         |        | 20.14       |       | tm      |         | 0           |
| 1B041    | 2799153.1   | 6381957.1 | 5         | 75          | 55       | 10     | 15   |             |          |        |     |         |        | 3.81        |       | tm      |         | 1           |
| 1B042    | 2799183.1   | 6382038.9 | 7         | 70          | 50       | 10     | 17   |             |          |        |     |         |        | 5.71        |       | tm      |         | 1           |
| 1B043    | 2799002.6   | 6382204.7 | 2         | 15          | 60       | 10     | 12   |             |          |        |     |         |        | 7.59        |       | tm      | yes     | 3           |
| 1B044    | 2798730.6   | 6382256.9 | 8         | 125         | 70       | 10     | 18   |             |          |        |     |         |        | 3.66        |       | tm      | yes     | 3           |
| 1B045    | 2798700.5   | 6382428.7 | 8         | 35          | 50       | 10     | 18   |             |          |        |     |         |        | 12.88       |       | tm      |         | 3           |
| 1B046    | 2799327.2   | 6382591.4 | 6         | 90          | 130      | 8      | 14   |             |          | 20     | 115 | 7       | 9      | 3.81        | 19.29 | tm      |         | 2           |
| 1B047    | 2799658.6   | 6381774.8 | 4         | 50          | 60       | 10     | 14   |             |          |        |     |         |        | 4.57        |       | tm      |         | 1           |
| 1B048    | 2796804.1   | 6381953.7 | 40        | 125         | 125      | 30     | 70   |             |          | 70     | 80  | 27      | 50     | 17.74       | 31.56 | mr      |         | 3           |
| 1B049    | 2796887.7   | 6382008.2 | 31        | 85          | 40       | 30     | 61   |             |          | 60     | 30  | 31      | 57     | 20.04       | 26.57 | mr      |         | 3           |
| 1B050    | 2796917.7   | 6382051.5 | 55        | 175         | 110      | 20     | 75   |             |          | 80     | 50  | 30      | 60     | 17.45       | 29.36 | mr      |         | 3           |
| 1B051    | 2796898.2   | 6382125.3 | 32        | 125         | 170      | 60     | 92   |             |          | 60     | 135 | 70      | 81     | 14.36       | 20.14 | mr      |         | 3           |
| 1B052    | 2796972.3   | 6382190.7 | 50        | 160         | 75       | 20     | 70   |             |          | 60     | 30  | 44      | 60     | 17.35       | 23.43 | mr      |         | 3           |
| 1B053    | 2797022.5   | 6382275.8 | 60        | 170         | 265      | 20     | 80   |             |          |        |     |         |        | 19.44       |       | mr      |         | 3           |
| 1B054    | 2797118.4   | 6382203.8 | 30        | 95          | 35       | 40     | 70   |             |          |        |     |         |        | 17.53       |       | mr      |         | 3           |
| 1B055    | 2797194.7   | 6382291.0 | 18        | 80          | 30       | 40     | 58   |             |          |        |     |         |        | 12.68       |       | mr      |         | 3           |
| 1B056    | 2797272.3   | 6382343.8 | 30        | 90          | 140      | 30     | 60   |             |          |        |     |         |        | 18.43       |       | mr      |         | 3           |
| 1B057    | 2797347.8   | 6382330.6 | 20        | 60          | 70       | 30     | 50   |             |          | 50     | 35  | 29      | 44     | 18.43       | 22.78 | mr      |         | 1           |
| 1B058    | 2797420.5   | 6382313.4 | 11        | 30          | 25       | 30     | 41   |             |          |        |     |         |        | 20.14       |       | mr      |         | 3           |
| 1B059    | 2797155.9   | 6382325.3 | 22        | 120         | 115      | 50     | 72   |             |          | 200    | 175 | 39      | 61     | 10.39       | 9.37  | mr      |         | 4           |
| 1B060    | 2797233.8   | 6382301.2 | 42        | 140         | 60       | 30     | 72   |             |          |        |     |         |        | 16.70       |       | mr      |         | 3           |
| 1B061    | 2797487.2   | 6382501.2 | 40        | 160         | 130      | 30     | 70   |             |          | 105    | 95  | 38      | 60     | 14.04       | 16.95 | mr      |         | 4           |
| 1B062    | 2797503.9   | 6382322.7 | 20        | 45          | 35       | 20     | 40   |             |          |        |     |         |        | 23.96       |       | mr      |         | 3           |
| 1B063    | 2797570.0   | 6382365.0 | 30        | 125         | 70       | 20     | 50   |             |          |        |     |         |        | 13.50       |       | mr      |         | 3           |
| 1B064    | 2797692.1   | 6382365.2 | 10        | 15          | 35       | 20     | 30   |             |          |        |     |         |        | 33.69       |       | mr      |         | 0           |
| 1B065    | 2797788.2   | 6382567.4 | 10        | 25          | 130      | 20     | 30   |             |          |        |     |         |        | 21.80       |       | mr      |         | 3           |
| 1B066    | 2797953.5   | 6382685.8 | 13        | 100         | 100      | 10     | 23   |             |          |        |     |         |        | 7.41        |       | tm      |         | 1           |
| 1B067    | 2798025.1   | 6382761.9 | 10.5      | 100         | 70       | 10     | 20.5 |             |          |        |     |         |        | 5.99        |       | tm      |         | 1           |
| 1B068    | 2798130.4   | 6382807.2 | 11        | 100         | 100      | 10     | 21   |             |          |        |     |         |        | 6.28        |       | tm      |         | 3           |
| 1B069    | 2798348.5   | 6382802.5 | 12        | 45          | 35       | 8      | 20   |             |          |        |     |         |        | 14.93       |       | mr      |         | 1           |
| 1B070    | 2798381.2   | 6382841.6 | 11        | 45          | 45       | 8      | 19   |             |          |        |     |         |        | 13.74       |       | mr      |         | 1           |
| 1B071    | 2798399.2   | 6383006.1 | 8         | 30          | 65       | 8      | 16   |             |          |        |     |         |        | 14.93       |       | mr      |         | 1           |
| 1B072    | 2798351.6   | 6383207.1 | 2         | 60          | 50       | 8      | 10   |             |          |        |     |         |        | 1.91        |       | mr      |         | -           |
| 1B073    | 2797744.4   | 6383121.2 | 5         | 110         | 50       | 10     | 15   |             |          |        |     |         |        | 2.60        |       | tm      |         | 1           |
| 1B074    | 2797654.4   | 6383139.7 | 5         | 50          | 40       | 10     | 15   |             |          |        |     |         |        | 5.71        |       | tm      |         | 1           |
| 1B075    | 2797568.4   | 6383113.2 | 5         | 90          | 35       | 10     | 15   |             |          |        |     |         |        | 3.18        |       | tm      |         | 3           |
| 1B076    | 2797489.1   | 6382623.7 | 30        | 105         | 150      | 40     | 70   |             |          |        |     |         |        | 15.95       |       | mr      |         | 1           |
| 1B077    | 2797642.5   | 6382720.3 | 30        | 115         | 100      | 40     | 70   |             |          | 175    | 160 | 25      | 40     | 14.62       | 14.42 | mr      |         | 3           |
| 1B078    | 2797766.9   | 6382812.9 | 31        | 100         | 40       | 40     | 71   |             |          | 100    | 70  | 30      | 70     | 17.22       | 22.29 | mr      |         | 2           |
| 1B079    | 2797760.4   | 6382751.6 | 37        | 125         | 100      | 40     | 77   |             |          | 90     | 130 | 37      | 71     | 16.49       | 23.96 | mr      |         | 4           |
| 1B080    | 2797662.4   | 6382684.4 | 30        | 140         | 120      | 40     | 70   |             |          |        |     |         |        | 12.09       |       | mr      |         | 3           |
| 1B081    | 2797344.9   | 6383102.6 | 3         | 60          | 25       | 12     | 15   |             |          |        |     |         |        | 2.86        |       | tm      |         | 1           |
| 1B082    | 2797207.3   | 6383155.5 | 1         | 20          | 25       | 14     | 15   |             |          |        |     |         |        | 2.86        |       | tm      |         | 1           |
| 1B083    | 2797043.2   | 6383111.9 | 3         | 25          | 50       | 15     | 18   |             |          |        |     |         |        | 6.84        |       | tm      |         | 1           |
| 1B084    | 2797015.5   | 6383044.4 | 2         | 55          | 35       | 18     | 20   |             |          |        |     |         |        | 2.08        |       | tm      |         | 1           |
| 1B085    | 2797286.7   | 6382940.2 | 1         | 40          | 35       | 18     | 19   |             |          |        |     |         |        | 1.43        |       | tm      |         | 1           |

| Ref. No. | Coordinates |           | Height(m) | Scarp       |          |    | Bottom Scarp |             | Runout   |    | Toe Top |       | Slope angle |       | Geology | Seepage | Geo. Symbol |
|----------|-------------|-----------|-----------|-------------|----------|----|--------------|-------------|----------|----|---------|-------|-------------|-------|---------|---------|-------------|
|          |             |           |           | Distance(m) | Width(m) | RL | RL           | Distance(m) | Width(m) | RL | RL      | Scarp | Runout      |       |         |         |             |
| 1B086    | 2797333.0   | 6382995.8 | 2         | 40          | 20       | 17 | 19           |             |          |    |         |       |             | tm    |         | 1       |             |
| 2A001    | 2792710.7   | 6384255.5 | 10        | 40          | 20       | 0  | 10           |             |          |    |         |       | 14.04       | tm    |         | 0       |             |
| 2A002    | 2792750.4   | 6384282.0 | 14        | 30          | 25       | 0  | 14           |             |          |    |         |       | 25.02       | tm    |         | 0       |             |
| 2A003    | 2792933.0   | 6384395.8 | 12        | 45          | 15       | 0  | 12           |             |          |    |         |       | 14.93       | tm    |         | 1       |             |
| 2A004    | 2792964.7   | 6384407.7 | 12        | 35          | 25       | 0  | 12           |             |          |    |         |       | 18.92       | tm    |         | 1       |             |
| 2A005    | 2793253.1   | 6384545.3 | 13        | 70          | 60       | 0  | 13           |             |          |    |         |       | 10.52       | tm    |         | 3       |             |
| 2A006    | 2792771.6   | 6385257.0 | 8         | 70          | 55       | 4  | 12           |             |          |    |         |       | 6.52        | tm    |         | 3       |             |
| 2A007    | 2792873.5   | 6385384.0 | 8         | 40          | 90       | 4  | 12           |             |          |    |         |       | 11.31       | tm    |         | 3       |             |
| 2A008    | 2792890.7   | 6385463.4 | 10        | 45          | 70       | 4  | 14           |             |          |    |         |       | 12.53       | tm    |         | 3       |             |
| 2A009    | 2792987.2   | 6385918.5 | 10        | 40          | 65       | 6  | 16           | 3           | 25       | 7  | 10      | 14.04 | 71.57       | tm    |         | 2       |             |
| 2A010    | 2793030.9   | 6386414.5 | 12        | 25          | 90       | 2  | 14           |             |          |    |         |       | 25.64       | tm    | swampy  | 3       |             |
| 2A011    | 2796860.7   | 6384308.5 | 10        | 90          | 75       | 6  | 16           |             |          |    |         |       | 6.34        | tm    |         | 0       |             |
| 2A012    | 2796784.0   | 6384250.3 | 7         | 90          | 90       | 8  | 15           | 185         | 55       | 4  | 10      | 4.45  | 3.40        | tm    |         | 4       |             |
| 2A013    | 2796747.0   | 6384000.2 | 2         | 50          | 90       | 18 | 20           |             |          |    |         |       | 2.29        | mr    |         | 1       |             |
| 2A014    | 2796642.5   | 6384034.6 | 4         | 45          | 90       | 20 | 24           |             |          |    |         |       | 5.08        | mr    |         | 1       |             |
| 2A015    | 2796543.2   | 6384079.6 | 26        | 90          | 90       | 30 | 56           | 125         | 70       | 24 | 47      | 16.11 | 14.36       | mr    |         | 4       |             |
| 2A016    | 2796539.3   | 6383987.0 | 10        | 30          | 50       | 30 | 40           |             |          |    |         |       | 18.43       | mr    |         | 0       |             |
| 2A017    | 2796475.8   | 6383984.3 | 55        | 110         | 185      | 30 | 85           | 375         | 85       | 15 | 67      | 26.57 | 10.57       | mr    |         | 4       |             |
| 2A018    | 2796450.6   | 6383889.1 | 40        | 75          | 60       | 20 | 60           |             |          |    |         |       | 28.07       | mr    |         | 3       |             |
| 2A019    | 2796483.7   | 6383733.0 | 10        | 25          | 85       | 20 | 30           |             |          |    |         |       | 21.80       | mr    |         | 1       |             |
| 2A020    | 2796414.9   | 6383979.1 | 42        | 130         | 75       | 40 | 82           | 75          | 165      | 32 | 80      | 17.90 | 33.69       | mr    |         | 3       |             |
| 2A021    | 2796372.6   | 6384013.4 | 23        | 75          | 85       | 60 | 83           | 80          | 90       | 60 | 80      | 17.05 | 16.04       | mr    |         | 3       |             |
| 2A022    | 2796445.3   | 6384082.2 | 50        | 200         | 145      | 26 | 76           | 340         | 90       | 20 | 80      | 14.04 | 9.35        | mr    |         | 4       |             |
| 2A023    | 2796350.1   | 6384112.7 | 28        | 150         | 60       | 30 | 58           | 270         | 75       | 16 | 46      | 10.57 | 8.84        | mr    |         | 2       |             |
| 2A024    | 2796190.0   | 6384446.0 | 4         | 30          | 25       | 14 | 18           | 50          | 30       | 3  | 5       | 7.59  | 16.70       | mr    |         | 2       |             |
| 2A025    | 2796138.4   | 6384420.9 | 5         | 20          | 25       | 13 | 18           | 45          | 25       | 3  | 5       | 14.04 | 18.43       | mr    |         | 2       |             |
| 2A026    | 2796074.9   | 6384364.0 | 5         | 35          | 35       | 12 | 17           | 40          | 30       | 5  | 7       | 8.13  | 16.70       | mr    |         | 2       |             |
| 2A027    | 2796063.0   | 6384356.1 | 4         | 30          | 25       | 13 | 17           | 45          | 40       | 5  | 8       | 7.59  | 14.93       | mr    |         | 2       |             |
| 2A028    | 2796033.9   | 6384296.6 | 2         | 40          | 55       | 18 | 20           | 45          | 55       | 5  | 10      | 2.86  | 18.43       | mr    |         | 2       |             |
| 2A029    | 2796112.0   | 6384067.7 | 45        | 100         | 70       | 40 | 85           | 100         | 65       | 40 | 80      | 24.23 | 24.23       | mr    |         | 2       |             |
| 2A030    | 2796078.9   | 6383973.8 | 65        | 185         | 80       | 20 | 85           | 175         | 70       | 25 | 50      | 19.36 | 18.92       | mr    |         | 2       |             |
| 2A031    | 2796098.7   | 6383789.9 | 12        | 50          | 100      | 80 | 92           | 125         | 25       | 50 | 85      | 13.50 | 18.57       | mr    |         | 4       |             |
| 2A032    | 2796158.3   | 6383759.4 | 10        | 40          | 170      | 90 | 100          |             |          |    |         |       | 14.04       | mr    |         | 2       |             |
| 2B001    | 2792673.4   | 6380515.4 | 16        | 90          | 55       | 60 | 76           |             |          |    |         |       | 10.08       | pa    |         | 3       |             |
| 2B002    | 2792873.7   | 6380365.8 | 28        | 100         | 105      | 70 | 98           | 65          | 30       | 78 | 90      | 15.64 | 17.10       | pa    |         | 4       |             |
| 2B003    | 2792942.5   | 6380398.9 | 36        | 65          | 150      | 60 | 96           | 80          | 45       | 66 | 88      | 28.98 | 20.56       | pa    |         | 4       |             |
| 2B004    | 2793138.3   | 6380486.2 | 18        | 75          | 125      | 88 | 106          | 80          | 55       | 84 | 96      | 13.50 | 15.38       | pa    |         | 2       |             |
| 2B005    | 2793179.3   | 6380409.5 | 22        | 60          | 55       | 60 | 82           |             |          |    |         |       | 20.14       | pa    |         | 1       |             |
| 2B006    | 2793199.1   | 6380531.2 | 60        | 135         | 190      | 46 | 106          | 225         | 150      | 14 | 82      | 23.96 | 22.24       | pa    |         | 4       |             |
| 2B007    | 2792996.7   | 6380499.4 | 36        | 150         | 145      | 70 | 106          | 240         | 75       | 61 | 88      | 13.50 | 10.62       | pa    |         | 4       |             |
| 2B008    | 2793122.4   | 6380549.7 | 50        | 220         | 120      | 60 | 110          | 130         | 25       | 67 | 76      | 12.80 | 18.30       | pa    |         | 2       |             |
| 2B009    | 2792980.8   | 6380637.0 | 14        | 55          | 45       | 58 | 72           |             |          |    |         |       | 14.28       | pa    |         | 3       |             |
| 2B010    | 2792806.2   | 6380742.8 | 6         | 75          | 45       | 42 | 48           |             |          |    |         |       | 4.57        | pa    |         | 3       |             |
| 2B011    | 2793048.3   | 6380711.1 | 15        | 40          | 15       | 60 | 75           |             |          |    |         |       | 20.56       | pa    |         | 0       |             |
| 2B012    | 2792763.9   | 6380860.6 | 4         | 50          | 65       | 44 | 48           |             |          |    |         |       | 4.57        | pa    |         | 1       |             |
| 2B013    | 2793053.6   | 6380754.7 | 34        | 105         | 65       | 48 | 82           |             |          |    |         |       | 17.94       | pa    |         | 3       |             |
| 2B014    | 2793162.1   | 6380733.6 | 64        | 225         | 315      | 24 | 88           | 325         | 200      | 14 | 74      | 15.88 | 12.83       | pa/wt |         | 4       |             |
| 2B015    | 2793056.2   | 6380836.8 | 40        | 100         | 55       | 40 | 80           |             |          |    |         |       | 21.80       | pa    |         | 3       |             |
| 2B016    | 2793107.8   | 6380901.6 | 40        | 140         | 210      | 44 | 84           |             |          |    |         |       | 15.95       | pa    |         | 3       |             |
| 2B017    | 2793266.6   | 6380924.1 | 28        | 75          | 45       | 48 | 76           |             |          |    |         |       | 20.47       | wt    |         | 3       |             |
| 2B018    | 2793331.4   | 6380893.7 | 28        | 60          | 50       | 34 | 62           | 90          | 25       | 21 | 34      | 25.02 | 24.49       | wt    |         | 4       |             |
| 2B019    | 2793242.4   | 6381051.1 | 48        | 150         | 125      | 34 | 82           | 200         | 25       | 23 | 40      | 17.74 | 16.44       | wt    |         | 4       |             |
| 2B020    | 2793336.3   | 6381110.6 | 40        | 105         | 90       | 42 | 82           | 215         | 50       | 28 | 40      | 20.85 | 14.10       | wt    |         | 4       |             |
| 2B021    | 2793110.1   | 6381122.5 | 30        | 125         | 190      | 42 | 72           |             |          |    |         |       | 13.50       | pa    |         | 3       |             |
| 2B022    | 2793393.9   | 6381158.3 | 50        | 75          | 125      | 26 | 76           | 100         | 140      | 44 | 58      | 33.69 | 17.74       | wt    |         | 3       |             |
| 2B023    | 2793190.8   | 6381166.2 | 38        | 110         | 160      | 36 | 74           |             |          |    |         |       | 19.06       | pa    |         | 3       |             |
| 2B024    | 2793339.0   | 6381190.0 | 32        | 110         | 175      | 48 | 80           | 115         | 60       | 48 | 66      | 16.22 | 15.55       | wt    |         | 4       |             |
| 2B025    | 2793473.9   | 6381238.9 | 12        | 95          | 90       | 34 | 46           | 120         | 30       | 34 | 42      | 7.20  | 5.71        | wt    |         | 4       |             |
| 2B026    | 2793307.2   | 6381238.9 | 30        | 60          | 150      | 42 | 72           |             |          |    |         |       | 26.57       | pa    |         | 3       |             |
| 2B027    | 2793341.6   | 6381371.2 | 12        | 50          | 55       | 26 | 38           |             |          |    |         |       | 13.50       | pa    |         | 3       |             |
| 2B028    | 2793149.8   | 6381323.6 | 12        | 35          | 45       | 20 | 32           |             |          |    |         |       | 18.92       | pa    |         | 3       |             |
| 2B029    | 2793004.3   | 6381314.3 | 8         | 30          | 45       | 20 | 28           |             |          |    |         |       | 14.93       | pa    |         | 1       |             |
| 2B030    | 2792854.8   | 6381182.0 | 5         | 65          | 55       | 28 | 33           |             |          |    |         |       | 4.40        | pa    |         | 1       |             |
| 2B031    | 2793550.6   | 6380524.5 | ?         | 80          | 55       | ?  | 28           |             |          |    |         |       | ?           | wt    |         | 0       |             |
| 2B032    | 2793536.3   | 6381454.9 | 4         | 45          | 40       | 30 | 34           |             |          |    |         |       | 5.08        | wt    |         | 1       |             |
| 2B033    | 2793474.1   | 6381493.2 | 22        | 110         | 90       | 20 | 42           | 60          | 90       | 27 | 35      | 11.31 | 14.04       | wt    |         | 3       |             |
| 2B034    | 2793409.6   | 6381525.6 | 20        | 120         | 195      | 20 | 40           |             |          |    |         |       | 9.46        | wt    |         | 3       |             |
| 2B035    | 2793237.3   | 6381536.5 | 1         | 50          | 30       | 9  | 10           |             |          |    |         |       | 1.15        | fa    |         | 1       |             |
| 2B036    | 2793300.6   | 6381573.6 | 0         | 50          | 25       | 10 | 10           |             |          |    |         |       | 0.00        | fa    |         | 1       |             |
| 2B037    | 2793333.3   | 6381652.1 | 0         | 40          | 25       | 10 | 10           |             |          |    |         |       | 0.00        | fa    |         | 1       |             |
| 2B038    | 2793461.9   | 6381399.1 | 14        | 70          | 120      | 40 | 54           |             |          |    |         |       | 11.31       | wt    |         | 1       |             |
| 2B039    | 2793605.8   | 6381388.2 | 25        | 160         | 275      | 30 | 55           |             |          |    |         |       | 8.88        | wt    |         | 1       |             |
| 2B040    | 2793647.3   | 6381268.3 | 40        | 100         | 115      | 10 | 50           |             |          |    |         |       | 21.80       | wt    |         | 3       |             |
| 2B041    | 2793751.9   | 6381259.6 | 20        | 35          | 70       | 10 | 30           |             |          |    |         |       | 29.74       | fa    |         | 1       |             |
| 2B042    | 2793765.0   | 6381338.1 | 28        | 65          | 100      | 10 | 38           |             |          |    |         |       | 23.30       | fa    |         | 3       |             |
| 2B043    | 2793699.6   | 6381342.4 | 42        | 80          | 95       | 10 | 52           |             |          |    |         |       | 27.70       | wt    |         | 3       |             |
| 2B044    | 2793810.8   | 6381447.1 | 10        | 20          | 40       | 10 | 20           |             |          |    |         |       | 26.57       | fa    |         | 0       |             |
| 2B045    | 2793799.9   | 6381506.0 | 10        | 35          | 35       | 10 | 20           |             |          |    |         |       | 15.95       | fa    |         | 0       |             |
| 2B046    | 2793782.4   | 6381575.7 | 2         | 10          | 55       | 10 | 12           |             |          |    |         |       | 11.31       | fa    |         | 0       |             |
| 2B047    | 2793699.1   | 6381527.8 | 38        | 115         | 240      | 10 | 48           |             |          |    |         |       | 18.29       | wt    |         | 0       |             |
| 2B048    | 2793792.7   | 6381732.6 | 8         | 15          | 125      | 10 | 18           |             |          |    |         |       | 28.07       | fa    |         | 0       |             |
| 2B049    | 2793791.3   | 6381941.7 | 2         | 50          | 75       | 6  | 8            |             |          |    |         |       | 2.29        | fa    |         | 3       |             |
| 2B050    | 2793647.9   | 6381782.3 | 12        | 110         | 110      | 20 | 32           |             |          |    |         |       | 6.23        | wt    |         | 3       |             |
| 2B051    | 2793715.2   | 6381984.1 | 22        | 50          | 65       | 20 | 42           |             |          |    |         |       | 23.75       | wt    |         | 3       |             |
| 2B052    | 2793716.7   | 6382105.5 | 31        | 65          | 100      | 10 | 41           |             |          |    |         |       | 25.50       | wt    |         | 1       |             |
| 2B053    | 2793647.9   | 6381944.6 | 12        | 65          | 80       | 30 | 42           |             |          |    |         |       | 10.46       | wt    |         | 1       |             |
| 2B054    | 2793555.8   | 6382191.8 | 10        | 35          | 60       | 10 | 20           |             |          |    |         |       | 15.95       | fa    |         | 3       |             |

| Ref. No. | Coordinates |           | Scarp     |             |          | Bottom Scarp |      | Runout      |          | Toe Top |     | Slope angle |        | Geology | Seepage | Geo. Symbol |
|----------|-------------|-----------|-----------|-------------|----------|--------------|------|-------------|----------|---------|-----|-------------|--------|---------|---------|-------------|
|          |             |           | Height(m) | Distance(m) | Width(m) | RL           | RL   | Distance(m) | Width(m) | RL      | RL  | Scarp       | Runout |         |         |             |
| 2B055    | 2793573.3   | 6382084.5 | 20        | 70          | 85       | 10           | 30   |             |          |         |     | 15.95       |        | wt      | Yes     | 3           |
| 2B056    | 2793462.2   | 6382051.1 | 3         | 45          | 40       | 10           | 13   |             |          |         |     | 3.81        |        | fa      |         | 3           |
| 2B057    | 2793184.4   | 6382271.5 | 10        | 30          | 110      | 10           | 20   |             |          |         |     | 18.43       |        | wt      |         | 3           |
| 2B058    | 2793330.7   | 6382199.3 | 12        | 70          | 90       | 10           | 22   |             |          |         |     | 9.73        |        | wt      |         | 3           |
| 2B059    | 2793199.2   | 6381810.4 | 60        | 125         | 65       | 10           | 70   |             |          |         |     | 25.64       |        | wt      |         | 3           |
| 2B060    | 2793217.7   | 6381751.1 | 20        | 45          | 50       | 20           | 40   |             |          |         |     | 23.96       |        | wt      |         | 3           |
| 2B061    | 2793184.4   | 6381701.1 | 35        | 75          | 75       | 20           | 55   | 80          | 40       | 18      | 40  | 25.02       | 24.82  | wt      |         | 4           |
| 2B062    | 2793051.0   | 6381752.9 | 11        | 45          | 75       | 70           | 81   |             |          |         |     | 13.74       |        | wt      |         | 1           |
| 2B063    | 2793015.9   | 6381615.9 | 41        | 90          | 110      | 20           | 61   |             |          |         |     | 24.49       |        | wt      |         | 1           |
| 2B064    | 2792869.5   | 6381651.1 | 41        | 100         | 120      | 30           | 71   | 175         | 55       | 23      | 71  | 22.29       | 15.34  | wt      |         | 4           |
| 2B065    | 2792814.0   | 6381536.2 | 30        | 60          | 40       | 30           | 60   | 55          | 25       | 32      | 50  | 26.57       | 26.98  | wt      |         | 4           |
| 2B066    | 2792751.0   | 6381536.2 | 33        | 105         | 45       | 30           | 63   |             |          |         |     | 17.45       |        | wt      |         | 1           |
| 2B067    | 2792784.3   | 6381625.1 | 40        | 45          | 100      | 30           | 70   |             |          |         |     | 41.63       |        | wt      |         | 1           |
| 2B068    | 2792773.2   | 6381725.2 | 20        | 75          | 70       | 50           | 70   |             |          |         |     | 14.93       |        | wt      |         | 1           |
| 2B069    | 2792852.9   | 6381815.9 | 21        | 90          | 105      | 50           | 71   |             |          |         |     | 13.13       |        | wt      |         | 3           |
| 2B070    | 2792964.0   | 6381847.4 | 32        | 90          | 135      | 50           | 82   |             |          |         |     | 19.57       |        | wt      |         | 1           |
| 2B071    | 2792756.6   | 6381860.4 | 20        | 105         | 80       | 50           | 70   | 170         | 80       | 40      | 65  | 10.78       | 10.01  | wt      |         | 2           |
| 2B072    | 2792849.2   | 6381949.3 | 30        | 210         | 185      | 40           | 70   |             |          |         |     | 8.13        |        | wt      |         | 1           |
| 2B073    | 2792917.7   | 6382025.2 | 20        | 115         | 125      | 40           | 60   |             |          |         |     | 9.87        |        | wt      |         | 3           |
| 2B074    | 2792880.7   | 6382106.7 | 10        | 60          | 60       | 40           | 50   |             |          |         |     | 9.46        |        | wt      |         | 1           |
| 2B075    | 2792776.9   | 6382301.2 | 8         | 80          | 130      | 10           | 18   |             |          |         |     | 5.71        |        | tm      |         | 1           |
| 2B076    | 2792782.5   | 6382504.9 | 5         | 35          | 175      | 15           | 20   |             |          |         |     | 8.13        |        | tm      | Yes     | 3           |
| 2B077    | 2792932.5   | 6382627.1 | 5         | 95          | 75       | 5            | 10   |             |          |         |     | 3.01        |        | tm      |         | 1           |
| 2B078    | 2793117.7   | 6382390.1 | 1         | 100         | 95       | 9            | 10   |             |          |         |     | 0.57        |        | tm      |         | 3           |
| 2B079    | 2793249.2   | 6382558.6 | 3         | 70          | 50       | 8            | 11   |             |          |         |     | 2.45        |        | tm      |         | 1           |
| 2B080    | 2793356.6   | 6382621.6 | 6         | 70          | 135      | 12           | 18   |             |          |         |     | 4.90        |        | tm      |         | 1           |
| 2B081    | 2793256.6   | 6382654.9 | 7         | 80          | 35       | 4            | 11   |             |          |         |     | 5.00        |        | tm      |         | 1           |
| 2B082    | 2793341.8   | 6382701.2 | 2         | 35          | 90       | 10           | 12   |             |          |         |     | 3.27        |        | tm      |         | 1           |
| 2B083    | 2793441.8   | 6382530.8 | 1         | 10          | 130      | 10           | 11   |             |          |         |     | 5.71        |        | fa      |         | 3           |
| 2B084    | 2793390.0   | 6382417.8 | 5         | 25          | 85       | 10           | 15   |             |          |         |     | 11.31       |        | fa      |         | 3           |
| 2B085    | 2794240.1   | 6382754.9 | 2.5       | 40          | 75       | 8            | 10.5 |             |          |         |     | 3.58        |        | tt      |         | 3           |
| 2B086    | 2794367.9   | 6382121.5 | 3         | 25          | 85       | 12           | 15   |             |          |         |     | 6.84        |        | tt      |         | 1           |
| 2B087    | 2793587.4   | 6382469.7 | 5         | 20          | 40       | 3            | 8    |             |          |         |     | 14.04       |        | fa      |         | 1           |
| 2B088    | 2793612.2   | 6382480.8 | 3         | 25          | 45       | 3            | 6    |             |          |         |     | 6.84        |        | fa      |         | 1           |
| 2B089    | 2793658.5   | 6382517.9 | 6         | 20          | 50       | 3            | 9    |             |          |         |     | 16.70       |        | fa      |         | 1           |
| 2B090    | 2793797.4   | 6382201.1 | 30        | 100         | 125      | 10           | 40   |             |          |         |     | 16.70       |        | wt      |         | 3           |
| 2B091    | 2794079.0   | 6382375.2 | 1         | 20          | 225      | 10           | 11   |             |          |         |     | 2.86        |        | fa      |         | 1           |
| 2B092    | 2794488.3   | 6381745.5 | 2         | 100         | 125      | 8            | 10   |             |          |         |     | 1.15        |        | fa      |         | 0           |
| 2B093    | 2794191.9   | 6382171.5 | 3         | 55          | 55       | 6            | 9    |             |          |         |     | 3.12        |        | tt      |         | 1           |
| 2B094    | 2794108.6   | 6382056.7 | 3         | 30          | 80       | 6            | 9    |             |          |         |     | 5.71        |        | tt      |         | 1           |
| 2B095    | 2794036.4   | 6381865.9 | 4         | 75          | 95       | 9            | 13   |             |          |         |     | 3.05        |        | fa      |         | 0           |
| 2B096    | 2794432.7   | 6381495.5 | 2         | 50          | 135      | 8            | 10   |             |          |         |     | 2.29        |        | fa      |         | 0           |
| 2B097    | 2794051.2   | 6381464.0 | 1         | 10          | 45       | 10           | 11   |             |          |         |     | 5.71        |        | tt      |         | 0           |
| 2B098    | 2793988.2   | 6381315.8 | 2         | 55          | 45       | 12           | 14   |             |          |         |     | 2.08        |        | tt      |         | 0           |
| 2B099    | 2794179.0   | 6381039.9 | 7         | 25          | 145      | ?            | ?    |             |          |         |     | ?           |        | tt      |         | 0           |
| 2B100    | 2794106.7   | 6381301.0 | 12        | 110         | 145      | 20           | 32   | 130         | 110      | 19      | 31  | 6.23        | 5.71   | tt      |         | 2           |
| 2B101    | 2794273.4   | 6381351.0 | 3         | 50          | 130      | 30           | 33   |             |          |         |     | 3.43        |        | tt      |         | 0           |
| 2B102    | 2794375.3   | 6381262.1 | 5         | 30          | 35       | 10           | 15   |             |          |         |     | 9.46        |        | fa      |         | 0           |
| 2B103    | 2794484.6   | 6381238.1 | 0         | 30          | 40       | 10           | 10   |             |          |         |     | 0.00        |        | fa      |         | 0           |
| 2B104    | 2795021.7   | 6381556.6 | 1         | 100         | 75       | 9            | 10   |             |          |         |     | 0.57        |        | tm      |         | 0           |
| 2B105    | 2795008.7   | 6381619.8 | 4.5       | 15          | 105      | 10           | 14.5 |             |          |         |     | 16.70       |        | tm      |         | 0           |
| 2B106    | 2795093.9   | 6381477.0 | 12        | 30          | 170      | 20           | 32   |             |          |         |     | 21.80       |        | tm      |         | 0           |
| 2B107    | 2795179.1   | 6381352.9 | 13        | 125         | 180      | 20           | 33   |             |          |         |     | 5.94        |        | tm      |         | 0           |
| 2B108    | 2795079.1   | 6381838.1 | 1         | 25          | 85       | 9            | 10   |             |          |         |     | 2.29        |        | tm      |         | 0           |
| 2B109    | 2795418.0   | 6381775.2 | 18        | 30          | 50       | 10           | 28   |             |          |         |     | 30.96       |        | tm      |         | 1           |
| 2B110    | 2795381.0   | 6381962.2 | 12        | 110         | 175      | 10           | 22   |             |          |         |     | 6.23        |        | tm      |         | 1           |
| 2B111    | 2795395.8   | 6382067.8 | 12        | 80          | 100      | 10           | 22   |             |          |         |     | 8.53        |        | tm      |         | 1           |
| 2B112    | 2795697.7   | 6381352.9 | 105       | 210         | 65       | 50           | 155  | 300         | 125      | 30      | 130 | 26.57       | 22.62  | kd      |         | 2           |
| 2B113    | 2795769.9   | 6381465.9 | 34        | 85          | 85       | 110          | 144  | 160         | 125      | 70      | 110 | 21.80       | 24.82  | kd      |         | 2           |
| 2B114    | 2796218.1   | 6381315.8 | 23        | 45          | 50       | 60           | 83   |             |          |         |     | 27.07       |        | pa      |         | 0           |
| 2B115    | 2796273.7   | 6381367.7 | 50        | 120         | 50       | 30           | 80   |             |          |         |     | 22.62       |        | pa      |         | 0           |
| 2B116    | 2796292.2   | 6381501.1 | 20        | 40          | 75       | 40           | 60   |             |          |         |     | 26.57       |        | pa      |         | 0           |
| 2B117    | 2796394.1   | 6381382.5 | 30        | 80          | 125      | 60           | 90   |             |          |         |     | 20.56       |        | pa      |         | 0           |
| 2B118    | 2796457.0   | 6381293.6 | 66        | 115         | 225      | 30           | 100  |             |          |         |     | 29.85       |        | pa      |         | 0           |
| 2B119    | 2796514.4   | 6381451.1 | 35        | 100         | 180      | 40           | 80   | 155         | 150      | 30      | 75  | 19.29       | 17.88  | pa      | Yes     | 2           |
| 2B120    | 2796638.5   | 6381569.6 | 33        | 100         | 125      | 40           | 60   | 80          | 35       | 25      | 45  | 18.26       | 23.63  | pa      | Yes     | 2           |
| 2B121    | 2796990.4   | 6381095.4 | ?         | 135         | 70       | ?            | ?    |             |          |         |     | ?           |        | pa      |         | 0           |
| 2B122    | 2796892.3   | 6381226.9 | ?         | 70          | 40       | ?            | ?    |             |          |         |     | ?           |        | pa      |         | 0           |
| 2B123    | 2796860.8   | 6381269.5 | 20        | 75          | 35       | 20           | 45   |             |          |         |     | 14.93       |        | pa      |         | 0           |
| 2B124    | 2796870.0   | 6381343.6 | 27        | 80          | 55       | 20           | 52   |             |          |         |     | 18.65       |        | pa      |         | 0           |
| 2B125    | 2797179.3   | 6381545.5 | 10        | 90          | 55       | 30           | 50   |             |          |         |     | 6.34        |        | pa      |         | 0           |
| 2B126    | 2797147.9   | 6381708.5 | 15        | 60          | 40       | 30           | 45   |             |          |         |     | 14.04       |        | pa      |         | 0           |
| 2B127    | 2796749.7   | 6381834.4 | 35        | 85          | 70       | 30           | 80   | 120         | 40       | 24      | 70  | 22.38       | 25.02  | pa      |         | 2           |
| 2B128    | 2796790.4   | 6381954.8 | 27        | 90          | 125      | 30           | 65   | 115         | 75       | 38      | 50  | 16.70       | 13.21  | pa      |         | 4           |
| 2B129    | 2796870.0   | 6382027.0 | 20        | 95          | 55       | 30           | 69   | 75          | 30       | 39      | 61  | 11.89       | 21.80  | mr      |         | 4           |
| 2B130    | 2796901.5   | 6382110.4 | 33        | 120         | 90       | 30           | 75   | 90          | 45       | 40      | 60  | 15.38       | 21.25  | mr      |         | 4           |
| 2B131    | 2796957.1   | 6382216.0 | 15        | 85          | 80       | 40           | 70   | 90          | 35       | 40      | 58  | 10.01       | 18.43  | mr      |         | 2           |
| 2B132    | 2797010.8   | 6382267.8 | 30        | 80          | 75       | 50           | 80   |             |          |         |     | 20.56       |        | mr      |         | 0           |
| 2B133    | 2796807.1   | 6382216.0 | 12        | 160         | 140      | 60           | 91   | 260         | 205      | 45      | 82  | 4.29        | 10.03  | mr      |         | 4           |
| 2B134    | 2796647.8   | 6381899.3 | 10        | 35          | 75       | 50           | 60   |             |          |         |     | 15.95       |        | pa      |         | 3           |
| 2B135    | 2796644.1   | 6381773.3 | 11        | 65          | 75       | 50           | 61   |             |          |         |     | 9.61        |        | pa      |         | 3           |
| 2B136    | 2796410.7   | 6381923.3 | 10        | 70          | 50       | 20           | 40   |             |          |         |     | 8.13        |        | tm      |         | 3           |
| 2B137    | 2796495.9   | 6382027.0 | 6         | 65          | 40       | 20           | 31   |             |          |         |     | 5.27        |        | tm      |         | 3           |
| 2B138    | 2796610.8   | 6382047.4 | 12        | 155         | 55       | 30           | 42   |             |          |         |     | 4.43        |        | fa      |         | 3           |
| 2B139    | 2796384.8   | 6382193.7 | 6         | 60          | 45       | 18           | 25   |             |          |         |     | 5.71        |        | tm      |         | 3           |
| 2B140    | 2796358.9   | 6382253.0 | 3         | 60          | 35       | 19           | 22   |             |          |         |     | 2.86        |        | tm      |         | 3           |
| 2B141    | 2796475.6   | 6382380.8 | 11        | 55          | 80       | 20           | 31   |             |          |         |     | 11.31       |        | tm      |         | 3           |

| Ref. No. | Coordinates |           | Scarp     |             |          | Bottom |     | Scarp       |          | Runout |    | Toe Top |        | Slope angle |       | Geology | Seepage | Geo. Symbol |
|----------|-------------|-----------|-----------|-------------|----------|--------|-----|-------------|----------|--------|----|---------|--------|-------------|-------|---------|---------|-------------|
|          |             |           | Height(m) | Distance(m) | Width(m) | RL     | RL  | Distance(m) | Width(m) | RL     | RL | Scarp   | Runout |             |       |         |         |             |
| 2B142    | 2796210.7   | 6382582.7 | 10        | 45          | 40       | 10     | 20  |             |          |        |    |         |        | 12.53       | tm    |         | 3       |             |
| 2B143    | 2796229.2   | 6382704.9 | 10        | 40          | 50       | 10     | 20  |             |          |        |    |         |        | 14.04       | tm    |         | 3       |             |
| 2B144    | 2796221.8   | 6382904.9 | 5         | 45          | 35       | 10     | 15  |             |          |        |    |         |        | 6.34        | fa    |         | 1       |             |
| 2B145    | 2796192.2   | 6382969.8 | 2         | 15          | 50       | 10     | 12  |             |          |        |    |         |        | 7.59        | fa    |         | 1       |             |
| 2B146    | 2796016.2   | 6382925.3 | 3         | 35          | 115      | 10     | 13  |             |          |        |    |         |        | 4.90        | fa    |         | 3       |             |
| 2B147    | 2796027.3   | 6383103.1 | 3         | 35          | 125      | 20     | 23  |             |          |        |    |         |        | 4.90        | mr    |         | 1       |             |
| 2B148    | 2796145.9   | 6383271.7 | 3         | 10          | 65       | 18     | 21  |             |          |        |    |         |        | 16.70       | mr    |         | 3       |             |
| 2B149    | 2796342.2   | 6383460.6 | 6         | 75          | 85       | 10     | 24  |             |          |        |    |         |        | 4.57        | mr    |         | 1       |             |
| 2B150    | 2796418.1   | 6383553.2 | 5         | 100         | 110      | 10     | 20  |             |          |        |    |         |        | 2.86        | mr    |         | 1       |             |
| 2B151    | 2796507.0   | 6383679.1 | 6         | 95          | 65       | 10     | 21  |             |          |        |    |         |        | 3.61        | mr    |         | 1       |             |
| 2B152    | 2796116.2   | 6383693.9 | 15        | 25          | 40       | 70     | 105 |             |          |        |    |         |        | 30.96       | mr    |         | 1       |             |
| 2B153    | 2796121.8   | 6383631.0 | 32        | 150         | 80       | 50     | 92  | 175         | 70       | 42     | 66 | 12.04   | 15.95  | mr          |       | 4       |         |             |
| 2B154    | 2796062.5   | 6383573.5 | 50        | 155         | 95       | 50     | 102 | 165         | 45       | 49     | 70 | 17.88   | 17.81  | mr          |       | 4       |         |             |
| 2B155    | 2796008.8   | 6383493.9 | 20        | 100         | 105      | 50     | 90  | 140         | 110      | 39     | 68 | 11.31   | 20.02  | mr          |       | 4       |         |             |
| 2B156    | 2795901.4   | 6383166.1 | 25        | 90          | 100      | 10     | 40  | 85          | 45       | 10     | 30 | 15.52   | 19.44  | mr          |       | 4       |         |             |
| 2B157    | 2795829.2   | 6383143.9 | 15        | 75          | 105      | 10     | 40  | 70          | 45       | 10     | 30 | 11.31   | 23.20  | mr          |       | 4       |         |             |
| 2B158    | 2795716.2   | 6383258.7 | 30        | 60          | 150      | 10     | 40  |             |          |        |    |         |        | 26.57       | mr/tt |         | 3       |             |
| 2B159    | 2795356.9   | 6383060.5 | 1         | 10          | 250      | 10     | 11  |             |          |        |    |         |        | 5.71        | tt    |         | 3       |             |
| 2B160    | 2795147.6   | 6383232.8 | 1         | 15          | 95       | 10     | 11  |             |          |        |    |         |        | 3.81        | tt    |         | 3       |             |
| 2B161    | 2795106.9   | 6382123.4 | 0.5       | 35          | 75       | 1      | 2   |             |          |        |    |         |        | 0.82        | tm    |         | 1       |             |
| 2B162    | 2795219.8   | 6382212.3 | 0.5       | 120         | 65       | 2      | 3   |             |          |        |    |         |        | 0.24        | tm    |         | 3       |             |
| 2B163    | 2795519.9   | 6382504.9 | 0.5       | 75          | 60       | 8      | 10  |             |          |        |    |         |        | 0.38        | tm    |         | 3       |             |
| 2B164    | 2795618.0   | 6382612.3 | 5         | 35          | 75       | 10     | 15  |             |          |        |    |         |        | 8.13        | fa    |         | 3       |             |
| 2B165    | 2795727.3   | 6382651.2 | 10        | 30          | 160      | 10     | 22  |             |          |        |    |         |        | 18.43       | fa    |         | 3       |             |
| 2B166    | 2795886.6   | 6382697.5 | 10        | 35          | 65       | 10     | 20  |             |          |        |    |         |        | 15.95       | fa    |         | 1       |             |
| 2B167    | 2795986.6   | 6382716.0 | 2         | 15          | 55       | 10     | 12  |             |          |        |    |         |        | 7.59        | fa    |         | 3       |             |
| 2B168    | 2796041.4   | 6382808.8 | 3         | 75          | 30       | 10     | 20  |             |          |        |    |         |        | 2.29        | fa    |         | 1       |             |
| 2B169    | 2795990.3   | 6382266.0 | 2         | 90          | 120      | 10     | 21  |             |          |        |    |         |        | 1.27        | fa    |         | 1       |             |
| 2B170    | 2796058.8   | 6382110.4 | 4         | 145         | 55       | 10     | 21  |             |          |        |    |         |        | 1.58        | fa    |         | 1       |             |
| 2B171    | 2795742.1   | 6382162.3 | 4         | 35          | 90       | 10     | 20  |             |          |        |    |         |        | 6.52        | fa    |         | 1       |             |
| 2B172    | 2795840.3   | 6382303.0 | 5         | 100         | 110      | 10     | 18  |             |          |        |    |         |        | 2.86        | fa    |         | 1       |             |
| 3A001    | 2789327.9   | 6386160.1 | 13        | 50          | 145      | 4      | 17  |             |          |        |    |         |        | 14.57       | tm    |         | 3       |             |
| 3A002    | 2789581.0   | 6386166.0 | 7         | 30          | 115      | 4      | 11  |             |          |        |    |         |        | 13.13       | tm    |         | 1       |             |
| 3A003    | 2789706.5   | 6386431.1 | 8         | 25          | 135      | 4      | 12  |             |          |        |    |         |        | 17.74       | tm    |         | 3       |             |
| 3A004    | 2789272.1   | 6386538.7 | 14        | 15          | 130      | 2      | 16  |             |          |        |    |         |        | 43.03       | tm    |         | 0       |             |
| 3A005    | 2789294.0   | 6386598.5 | 14        | 20          | 70       | 2      | 16  |             |          |        |    |         |        | 34.99       | tm    |         | 0       |             |
| 3A006    | 2789335.9   | 6386670.2 | 10        | 20          | 30       | 2      | 12  | 45          | 25       | 2      | 4  | 26.57   | 12.53  | tm          |       | 2       |         |             |
| 3A007    | 2789365.8   | 6386745.9 | 10        | 15          | 60       | 2      | 12  | 40          | 15       | 3      | 6  | 33.69   | 12.68  | tm          |       | 2       |         |             |
| 3A008    | 2793036.4   | 6386421.1 | 10        | 25          | 65       | 4      | 14  |             |          |        |    |         |        | 21.80       | tm    |         | 3       |             |
| 3B001    | 2790434.4   | 6382485.1 | 18        | 50          | 50       | 4      | 22  |             |          |        |    |         |        | 19.80       | tm    |         | 3       |             |
| 3B002    | 2790448.4   | 6382599.4 | 18        | 20          | 90       | 2      | 20  |             |          |        |    |         |        | 41.99       | tm    |         | 3       |             |
| 3B003    | 2790564.7   | 6382685.6 | 18        | 30          | 45       | 2      | 20  |             |          |        |    |         |        | 30.96       | tm    |         | 3       |             |
| 3B004    | 2790586.8   | 6382705.6 | 18        | 45          | 70       | 2      | 20  |             |          |        |    |         |        | 21.80       | tm    |         | 3       |             |
| 3B005    | 2790638.9   | 6382761.8 | 16        | 40          | 45       | 2      | 18  |             |          |        |    |         |        | 21.80       | tm    |         | 3       |             |
| 3B006    | 2790699.1   | 6382813.9 | 14        | 50          | 60       | 2      | 16  |             |          |        |    |         |        | 15.64       | tm    |         | 3       |             |
| 3B007    | 2790767.2   | 6382842.0 | 18        | 60          | 75       | 2      | 20  |             |          |        |    |         |        | 16.70       | tm    |         | 3       |             |
| 3B008    | 2790823.4   | 6382924.2 | 16        | 45          | 40       | 2      | 18  |             |          |        |    |         |        | 19.57       | tm    |         | 3       |             |
| 3B009    | 2790833.4   | 6382996.4 | 16        | 20          | 15       | 2      | 18  |             |          |        |    |         |        | 38.66       | tm    |         | 0       |             |
| 3B010    | 2790917.6   | 6383196.9 | 18        | 20          | 110      | 2      | 20  |             |          |        |    |         |        | 41.99       | tm    |         | 0       |             |
| 3B011    | 2790951.7   | 6383227.0 | 14        | 15          | 110      | 2      | 16  |             |          |        |    |         |        | 43.03       | tm    |         | 0       |             |
| 3B012    | 2791062.0   | 6383200.9 | 14        | 10          | 95       | 2      | 16  |             |          |        |    |         |        | 54.46       | tm    |         | 0       |             |
| 3B013    | 2791006.8   | 6383124.7 | 14        | 55          | 65       | 6      | 20  |             |          |        |    |         |        | 14.28       | tm    |         | 3       |             |
| 3B014    | 2790959.7   | 6382984.3 | 14        | 125         | 60       | 4      | 18  |             |          |        |    |         |        | 6.39        | tm    |         | 1       |             |
| 3B015    | 2791118.1   | 6382858.0 | 8         | 25          | 50       | 8      | 16  |             |          |        |    |         |        | 17.74       | tm    |         | 3       |             |
| 3B016    | 2791170.3   | 6382838.0 | 10        | 75          | 35       | 8      | 18  |             |          |        |    |         |        | 7.59        | tm    |         | 3       |             |
| 3B017    | 2791228.4   | 6382807.9 | 10        | 110         | 40       | 8      | 18  |             |          |        |    |         |        | 5.19        | tm    |         | 3       |             |
| 3B018    | 2791266.5   | 6382882.1 | 14        | 35          | 75       | 4      | 18  | 55          | 25       | 1      | 10 | 21.80   | 17.18  | tm          |       | 2       |         |             |
| 3B019    | 2791324.7   | 6382836.0 | 16        | 35          | 60       | 2      | 18  | 55          | 55       | 2      | 16 | 24.57   | 16.70  | tm          |       | 2       |         |             |
| 3B020    | 2791372.8   | 6382801.9 | 20        | 30          | 25       | 2      | 22  |             |          |        |    |         |        | 33.69       | tm    |         | 0       |             |
| 3B021    | 2791384.8   | 6382773.8 | 24        | 25          | 50       | 2      | 26  | 45          | 20       | 1      | 20 | 43.83   | 29.05  | tm          |       | 2       |         |             |
| 3B022    | 2791451.0   | 6382723.7 | 22        | 20          | 40       | 2      | 24  | 50          | 30       | 1      | 20 | 47.73   | 24.70  | tm          |       | 2       |         |             |
| 3B023    | 2791465.0   | 6382647.5 | 22        | 25          | 35       | 2      | 24  |             |          |        |    |         |        | 41.35       | tm    |         | 3       |             |
| 3B024    | 2791465.0   | 6382629.4 | 22        | 20          | 30       | 2      | 24  | 40          | 20       | 1      | 10 | 47.73   | 29.90  | tm          |       | 2       |         |             |
| 3B025    | 2791416.9   | 6382541.2 | 12        | 80          | 50       | 10     | 22  |             |          |        |    |         |        | 8.53        | tm    |         | 1       |             |
| 3B026    | 2792946.7   | 6384405.9 | 12        | 35          | 70       | 0      | 12  |             |          |        |    |         |        | 18.92       | tm    |         | 3       |             |
| 3B027    | 2792778.2   | 6384296.6 | 12        | 17.5        | 50       | 0      | 12  | 25          | 20       | 0      | 2  | 34.44   | 25.64  | tm          |       | 2       |         |             |
| 3B028    | 2792711.5   | 6384242.9 | 12        | 25          | 50       | 0      | 12  | 40          | 25       | 0      | 8  | 25.64   | 16.70  | tm          |       | 2       |         |             |
| 3B029    | 2792678.2   | 6384196.6 | 14        | 15          | 75       | 0      | 14  |             |          |        |    |         |        | 43.03       | tm    |         | 2       |             |
| 3B030    | 2792624.4   | 6384129.9 | 16        | 20          | 25       | 0      | 16  | 20          | 25       | 0      | 10 | 38.66   | 38.66  | tm          |       | 2       |         |             |
| 3B031    | 2792587.4   | 6384091.0 | 14        | 20          | 400      | 0      | 14  | 20          | 15       | 2      | 12 | 34.99   | 30.96  | tm          |       | 2       |         |             |
| 3B032    | 2792550.4   | 6384057.7 | 16        | 27.5        | 60       | 0      | 16  |             |          |        |    |         |        | 30.19       | tm    |         | 3       |             |
| 3B033    | 2792498.5   | 6384022.5 | 16        | 20          | 35       | 0      | 16  |             |          |        |    |         |        | 38.66       | tm    |         | 0       |             |
| 3B034    | 2792452.2   | 6384002.1 | 16        | 25          | 20       | 0      | 16  |             |          |        |    |         |        | 32.62       | tm    |         | 3       |             |
| 3B035    | 2792405.9   | 6383957.7 | 16        | 22.5        | 15       | 0      | 16  |             |          |        |    |         |        | 35.42       | tm    |         | 3       |             |
| 3B036    | 2792376.3   | 6383937.3 | 14        | 27.5        | 30       | 0      | 14  | 40          | 15       | 0      | 6  | 26.98   | 19.29  | tm          |       | 2       |         |             |
| 3B037    | 2792278.1   | 6383911.4 | 16        | 30          | 90       | 0      | 16  |             |          |        |    |         |        | 28.07       | tm    |         | 3       |             |
| 3B038    | 2792142.9   | 6383848.4 | 16        | 40          | 65       | 0      | 16  |             |          |        |    |         |        | 21.80       | tm    |         | 3       |             |
| 3B039    | 2792061.4   | 6383813.2 | 16        | 25          | 65       | 0      | 16  |             |          |        |    |         |        | 32.62       | tm    |         | 3       |             |
| 3B040    | 2791850.3   | 6383804.0 | 0         | 20          | 25       | 0      | 0   |             |          |        |    |         |        | 0.00        | tm    |         | 0       |             |
| 3B041    | 2791754.0   | 6383755.8 | 18        | 25          | 70       | 0      | 18  | 40          | 20       | 0      | 16 | 35.75   | 24.23  | tm          |       | 2       |         |             |
| 3B042    | 2791805.8   | 6383789.2 | 18        | 40          | 60       | 0      | 18  |             |          |        |    |         |        | 24.23       | tm    |         | 3       |             |
| 3B043    | 2791626.2   | 6383959.5 | 18        | 50          | 165      | 4      | 22  |             |          |        |    |         |        | 19.80       | tm    |         | 3       |             |
| 3B044    | 2791509.5   | 6383950.3 | 18        | 60          | 100      | 4      | 22  |             |          |        |    |         |        | 16.70       | tm    |         | 3       |             |
| 3B045    | 2791350.2   | 6383972.5 | 20        | 40          | 250      | 2      | 22  |             |          |        |    |         |        | 26.57       | tm    |         | 3       |             |
| 3B046    | 2791068.7   | 6384267.0 | 16        | 45          | 65       | 2      | 18  |             |          |        |    |         |        | 19.57       | tm    |         | 3       |             |
| 3B047    | 2790981.6   | 6384446.6 | 14        | 50          | 215      | 4      | 18  |             |          |        |    |         |        | 15.64       | tm    |         | 3       |             |
| 3B048    | 2790990.9   | 6385128.2 | 4         | 60          | 45       | 8      | 12  |             |          |        |    |         |        | 3.81        | tm    |         | 1       |             |

| Ref. No. | Coordinates |           | Scarp     |             |          | Bottom RL | Scarp RL | Runout      |          | Toe RL | Top RL | Slope angle |        | Geology | Seepage | Geo. Symbol |
|----------|-------------|-----------|-----------|-------------|----------|-----------|----------|-------------|----------|--------|--------|-------------|--------|---------|---------|-------------|
|          |             |           | Height(m) | Distance(m) | Width(m) |           |          | Distance(m) | Width(m) |        |        | Scarp       | Runout |         |         |             |
| 3B049    | 2791076.1   | 6385131.9 | 6         | 60          | 60       | 6         | 12       |             |          |        |        | 5.71        | tm     |         | 3       |             |
| 3B050    | 2791089.1   | 6385307.9 | 10        | 20          | 60       | 4         | 14       |             |          |        |        | 26.57       | tm     |         | 1       |             |
| 3B051    | 2791481.7   | 6385341.2 | 8         | 25          | 75       | 4         | 12       |             |          |        |        | 17.74       | tm     |         | 3       |             |
| 3B052    | 2791607.6   | 6385213.4 | 8         | 30          | 80       | 4         | 12       |             |          |        |        | 14.93       | tm     | swampy  | 3       |             |
| 3B053    | 2791537.3   | 6384628.2 | 10        | 40          | 65       | 8         | 18       |             |          |        |        | 14.04       | tm     |         | 0       |             |
| 3B054    | 2791778.0   | 6384580.0 | 2         | 40          | 40       | 14        | 16       |             |          |        |        | 2.86        | tm     |         | 0       |             |
| 3B055    | 2792131.8   | 6384665.2 | 6         | 25          | 75       | 8         | 14       |             |          |        |        | 13.50       | tm     |         | 1       |             |
| 3B056    | 2792302.2   | 6384535.5 | 8         | 20          | 80       | 4         | 12       | 45          | 45       | 2      | 6      | 21.80       | 12.53  | tm      | 4       |             |
| 3B057    | 2792368.9   | 6384598.5 | 6         | 25          | 65       | 4         | 10       | 40          | 50       | 2      | 6      | 13.50       | 11.31  | tm      | 4       |             |
| 3B058    | 2792413.3   | 6384648.5 | 6         | 25          | 45       | 4         | 10       | 40          | 45       | 2      | 6      | 13.50       | 11.31  | tm      | 4       |             |
| 3B059    | 2792418.9   | 6384794.8 | 8         | 40          | 85       | 6         | 14       | 80          | 65       | 2      | 10     | 11.31       | 8.53   | tm      | 4       |             |
| 3B060    | 2792535.5   | 6384774.5 | 10        | 55          | 75       | 6         | 16       |             |          |        |        | 10.30       | tm     |         | 3       |             |
| 3B061    | 2792585.5   | 6385172.7 | 12        | 35          | 205      | 2         | 14       |             |          |        |        | 18.92       | tm     |         | 3       |             |
| 3B062    | 2792767.1   | 6385261.6 | 8         | 65          | 65       | 4         | 12       |             |          |        |        | 7.02        | tm     | yes     | 3       |             |
| 3B063    | 2792865.2   | 6385385.7 | 8         | 30          | 80       | 4         | 12       |             |          |        |        | 14.93       | tm     | yes     | 3       |             |
| 3B064    | 2792887.4   | 6385485.7 | 10        | 40          | 80       | 4         | 14       |             |          |        |        | 14.04       | tm     |         | 3       |             |
| 3B065    | 2792907.8   | 6385643.1 | 12        | 10          | 110      | 4         | 16       |             |          |        |        | 50.19       | tm     |         | 0       |             |
| 3B066    | 2788670.3   | 6385174.4 | 8         | 20          | 45       | 10        | 18       | 60          | 30       | 2      | 10     | 21.80       | 14.93  | tr      | 2       |             |
| 3B067    | 2788774.0   | 6385200.3 | 10        | 40          | 45       | 6         | 16       |             |          |        |        | 14.04       | tr     |         | 0       |             |
| 3B068    | 2788805.5   | 6385259.6 | 12        | 35          | 40       | 6         | 18       | 70          | 30       | 2      | 16     | 18.92       | 12.88  | tr      | 2       |             |
| 3B069    | 2788829.5   | 6385287.3 | 14        | 40          | 40       | 8         | 22       |             |          |        |        | 19.29       | tr     |         | 0       |             |
| 3B070    | 2788874.0   | 6385341.0 | 4         | 30          | 95       | 6         | 10       | 70          | 30       | 3      | 6      | 7.59        | 5.71   | tr      | 2       |             |
| 3B071    | 2788981.4   | 6385426.2 | 10        | 30          | 65       | 8         | 18       |             |          |        |        | 18.43       | tr     |         | 3       |             |
| 3B072    | 2789007.3   | 6385254.0 | 14        | 45          | 80       | 4         | 18       |             |          |        |        | 17.28       | tr     |         | 3       |             |
| 3B073    | 2789220.3   | 6385365.1 | 6         | 25          | 55       | 6         | 12       |             |          |        |        | 13.50       | tm     |         | 1       |             |
| 3B074    | 2789237.0   | 6385439.2 | 9         | 25          | 60       | 4         | 13       |             |          |        |        | 19.80       | tm     |         | 1       |             |
| 3B075    | 2789238.9   | 6385583.7 | 9         | 15          | 55       | 4         | 13       |             |          |        |        | 30.96       | tm     |         | 3       |             |
| 3B076    | 2789240.7   | 6385665.2 | 9         | 20          | 60       | 4         | 13       | 75          | 30       | 2      | 6      | 24.23       | 8.34   | tm      | yes     | 4           |
| 3B077    | 2789429.6   | 6384991.0 | 10        | 25          | 150      | 4         | 14       |             |          |        |        | 21.80       | tm     |         | 1       |             |
| 3B078    | 2789225.9   | 6384889.1 | 10        | 40          | 50       | 4         | 14       |             |          |        |        | 14.04       | tm     |         | 3       |             |
| 3B079    | 2789085.1   | 6384850.2 | 12        | 115         | 225      | 6         | 18       |             |          |        |        | 5.96        | tm     |         | 3       |             |
| 3B080    | 2789046.2   | 6384418.7 | 3         | 20          | 65       | 14        | 17       | 75          | 60       | 4      | 12     | 8.53        | 9.83   | tm      | 2       |             |
| 3B081    | 2788949.9   | 6384322.4 | 6         | 45          | 110      | 14        | 20       |             |          |        |        | 7.59        | tr     |         | 1       |             |
| 3B082    | 2789025.9   | 6384220.5 | 8         | 25          | 110      | 10        | 18       |             |          |        |        | 17.74       | tr     |         | 3       |             |
| 3B083    | 2789166.6   | 6384118.7 | 10        | 70          | 195      | 6         | 16       |             |          |        |        | 8.13        | tr     |         | 1       |             |
| 3B084    | 2789327.8   | 6384018.7 | 14        | 40          | 125      | 4         | 18       |             |          |        |        | 19.29       | tr     |         | 3       |             |
| 3B085    | 2789190.7   | 6383926.0 | 8         | 35          | 85       | 10        | 18       |             |          |        |        | 12.88       | tr     |         | 3       |             |
| 3B086    | 2789107.4   | 6383833.4 | 8         | 80          | 70       | 10        | 18       |             |          |        |        | 5.71        | tr     |         | 1       |             |
| 3B087    | 2789162.9   | 6383553.8 | 8         | 85          | 135      | 10        | 18       |             |          |        |        | 5.38        | tr     |         | 1       |             |
| 3B088    | 2789098.1   | 6383442.7 | 12        | 200         | 140      | 6         | 18       |             |          |        |        | 3.43        | tr     |         | 1       |             |
| 3B089    | 2789070.3   | 6383305.6 | 15        | 105         | 75       | 4         | 19       | 120         | 65       | 3      | 18     | 8.13        | 7.59   | tr      | 4       |             |
| 3B090    | 2788987.0   | 6383270.4 | 8         | 165         | 35       | 10        | 18       |             |          |        |        | 2.78        | tr     |         | 1       |             |
| 3B091    | 2788948.1   | 6383209.3 | 6         | 70          | 50       | 6         | 12       | 90          | 50       | 4      | 10     | 4.90        | 5.08   | tr      | 2       |             |
| 3B092    | 2788738.8   | 6382970.4 | 10        | 25          | 50       | 4         | 14       |             |          |        |        | 21.80       | tr     |         | 3       |             |
| 3B093    | 2792741.1   | 6382537.1 | 0.5       | 20          | 260      | 2         | 2.5      |             |          |        |        | 1.43        | tm     |         | 3       |             |
| 3B094    | 2792928.2   | 6382607.5 | 1.5       | 115         | 60       | 0.5       | 2        |             |          |        |        | 0.75        | tm     |         | 1       |             |
| 4A001    | 2790643.4   | 6382757.6 | 16        | 60          | 30       | 2         | 18       |             |          |        |        | 14.93       | wt     |         | 0       |             |
| 4A002    | 2790572.9   | 6382694.2 | 18        | 45          | 55       | 2         | 20       |             |          |        |        | 21.80       | wt     |         | 0       |             |
| 4A003    | 2790527.2   | 6382669.6 | 16        | 20          | 45       | 2         | 18       |             |          |        |        | 38.66       | wt     |         | 3       |             |
| 4A004    | 2790414.5   | 6382493.5 | 20        | 60          | 110      | 6         | 26       |             |          |        |        | 18.43       | wt     |         | 3       |             |
| 4A005    | 2790365.2   | 6382458.3 | 14        | 50          | 70       | 12        | 26       |             |          |        |        | 15.64       | wt     |         | 1       |             |
| 4A006    | 2790347.6   | 6382490.0 | 6         | 35          | 50       | 12        | 18       |             |          |        |        | 9.73        | wt     |         | 1       |             |
| 4A007    | 2790245.5   | 6382373.8 | 22        | 45          | 45       | 2         | 24       |             |          |        |        | 26.05       | wt     |         | 3       |             |
| 4A008    | 2790185.6   | 6382328.0 | 24        | 75          | 45       | 2         | 26       |             |          |        |        | 17.74       | wt     |         | 3       |             |
| 4A009    | 2790111.6   | 6382268.1 | 18        | 30          | 65       | 10        | 28       |             |          |        |        | 30.96       | wt     |         | 3       |             |
| 4A010    | 2790150.4   | 6382194.2 | 8         | 15          | 55       | 18        | 26       |             |          |        |        | 28.07       | wt     |         | 3       |             |
| 4A011    | 2790076.4   | 6382095.6 | 8         | 40          | 40       | 18        | 26       |             |          |        |        | 11.31       | wt     |         | 3       |             |
| 4A012    | 2790030.6   | 6382194.2 | 12        | 20          | 65       | 12        | 24       |             |          |        |        | 30.96       | wt     |         | 3       |             |
| 4A013    | 2789988.4   | 6382282.2 | 26        | 45          | 50       | 2         | 28       |             |          |        |        | 30.02       | wt     |         | 1       |             |
| 4A014    | 2789773.6   | 6382060.4 | 24        | 45          | 20       | 6         | 30       |             |          |        |        | 28.07       | wt     |         | 0       |             |
| 4A015    | 2789675.0   | 6381838.5 | 18        | 50          | 95       | 4         | 22       |             |          |        |        | 19.80       | wt     |         | 3       |             |
| 4A016    | 2789611.6   | 6381736.4 | 18        | 65          | 145      | 10        | 28       |             |          |        |        | 15.48       | wt     |         | 3       |             |
| 4A017    | 2789412.0   | 6381563.0 | 16        | 125         | 50       | 14        | 30       |             |          |        |        | 7.29        | wt     |         | 1       |             |
| 4A018    | 2789319.6   | 6381528.4 | 6         | 90          | 50       | 24        | 30       |             |          |        |        | 3.81        | wt     |         | 1       |             |
| 4A019    | 2789277.2   | 6381574.6 | 6         | 55          | 40       | 24        | 30       |             |          |        |        | 6.23        | wt     |         | 1       |             |
| 4A020    | 2789177.1   | 6381747.8 | 28        | 40          | 45       | 4         | 32       |             |          |        |        | 34.99       | wt     |         | 1       |             |
| 4A021    | 2789127.1   | 6381705.5 | 26        | 50          | 50       | 4         | 30       |             |          |        |        | 27.47       | wt     |         | 1       |             |
| 4A022    | 2789065.5   | 6381701.6 | 24        | 30          | 55       | 10        | 34       |             |          |        |        | 38.66       | wt     |         | 1       |             |
| 4A023    | 2788903.8   | 6381301.3 | 20        | 45          | 15       | 6         | 26       |             |          |        |        | 23.96       | wt     |         | 3       |             |
| 4A024    | 2789011.6   | 6381297.4 | 14        | 142.5       | 100      | 4         | 18       |             |          |        |        | 5.61        | wt     |         | 3       |             |
| 4A025    | 2789069.4   | 6381189.6 | 30        | 65          | 65       | 8         | 38       |             |          |        |        | 24.78       | wt     |         | 3       |             |
| 4A026    | 2788003.9   | 6381101.1 | 13        | 40          | 60       | 10        | 23       | 60          | 45       | 2      | 16     | 18.00       | 19.29  | wt      | 4       |             |
| 4A027    | 2789088.6   | 6381054.9 | 28        | 120         | 30       | 4         | 32       |             |          |        |        | 13.13       | wt     |         | 3       |             |
| 4A028    | 2789038.6   | 6381012.6 | 11        | 80          | 30       | 4         | 15       |             |          |        |        | 7.83        | wt     |         | 3       |             |
| 4A029    | 2789261.8   | 6380997.2 | 22        | 150         | 85       | 14        | 36       |             |          |        |        | 8.34        | wt     |         | 3       |             |
| 4A030    | 2789157.9   | 6380874.0 | 20        | 55          | 95       | 12        | 32       |             |          |        |        | 19.98       | wt     |         | 1       |             |
| 4A031    | 2789096.3   | 6380827.8 | 22        | 80          | 65       | 10        | 32       |             |          |        |        | 15.38       | wt     |         | 1       |             |
| 4A032    | 2788903.8   | 6380677.7 | 10        | 45          | 50       | 4         | 14       |             |          |        |        | 12.53       | wt     |         | 1       |             |
| 4A033    | 2788849.9   | 6380623.8 | 11        | 50          | 60       | 4         | 15       |             |          |        |        | 12.41       | wt     |         | 1       |             |
| 4A034    | 2788855.5   | 6380517.2 | 12        | 65          | 50       | 6         | 18       |             |          |        |        | 10.46       | wt     |         | 3       |             |
| 4A035    | 2788923.1   | 6380444.9 | 8         | 70          | 60       | 14        | 22       |             |          |        |        | 6.52        | wt     |         | 1       |             |
| 4A036    | 2788870.0   | 6380377.3 | 18        | 100         | 110      | 6         | 24       |             |          |        |        | 10.20       | wt     |         | 1       |             |
| 4A037    | 2788807.3   | 6380227.7 | 20        | 175         | 140      | 16        | 36       |             |          |        |        | 6.52        | wt     |         | 1       |             |
| 4A038    | 2788831.4   | 6379967.1 | 14        | 95          | 100      | 32        | 46       |             |          |        |        | 8.38        | wt     |         | 1       |             |
| 4A039    | 2788797.6   | 6379846.4 | 12        | 92.5        | 140      | 34        | 46       |             |          |        |        | 7.39        | tm     |         | 1       |             |
| 4A040    | 2788749.4   | 6379740.2 | 12        | 70          | 95       | 44        | 56       |             |          |        |        | 9.73        | wt     |         | 1       |             |
| 4A041    | 2788860.4   | 6379822.3 | 16        | 125         | 175      | 42        | 58       |             |          |        |        | 7.29        | tm     |         | 1       |             |

| Ref. No. | Coordinates         | Height(m) | Scarp       |          |    | Bottom |             | Scarp    |     | Runout |             | Toe Top  |       | Slope angle |    | Geology | Seepage | Geo. Symbol |
|----------|---------------------|-----------|-------------|----------|----|--------|-------------|----------|-----|--------|-------------|----------|-------|-------------|----|---------|---------|-------------|
|          |                     |           | Distance(m) | Width(m) | RL | RL     | Distance(m) | Width(m) | RL  | RL     | Distance(m) | Width(m) | Scarp | Runout      |    |         |         |             |
| 4A042    | 2788749.4 6379687.1 | 10        | 95          | 70       | 44 | 54     |             |          |     |        |             |          |       | 6.01        | wt |         | 1       |             |
| 4A043    | 2788942.4 6379523.1 | 56        | 125         | 105      | 14 | 70     |             |          | 120 | 65     | 16          | 56       | 24.13 | 24.23       | wt |         | 4       |             |
| 4A044    | 2788913.5 6379605.1 | 40        | 140         | 100      | 24 | 64     |             |          | 100 | 95     | 22          | 52       | 15.95 | 22.78       | wt |         | 4       |             |
| 4A045    | 2789047.1 6379584.8 | 16        | 40          | 45       | 18 | 34     |             |          | 50  | 25     | 18          | 32       | 21.80 | 17.74       | wt |         | 2       |             |
| 4A046    | 2789363.7 6379496.0 | 14        | 90          | 50       | 36 | 50     |             |          |     |        |             |          | 8.84  |             | wt |         | 3       |             |
| 4A047    | 2789074.2 6379635.0 | 26        | 30          | 95       | 10 | 36     |             |          | 90  | 70     | 8           | 24       | 40.91 | 17.28       | wt |         | 4       |             |
| 4A048    | 2789217.0 6379608.0 | 24        | 95          | 50       | 8  | 32     |             |          |     |        |             |          | 14.18 |             | wt |         | 1       |             |
| 4A049    | 2789112.8 6379716.1 | 12        | 35          | 45       | 8  | 20     |             |          |     |        |             |          | 18.92 |             | wt |         | 1       |             |
| 4A050    | 2789093.5 6379766.3 | 16        | 25          | 125      | 8  | 24     |             |          | 60  | 80     | 8           | 22       | 32.62 | 14.93       | wt |         | 2       |             |
| 4A051    | 2789058.7 6379909.1 | 22        | 100         | 100      | 14 | 36     |             |          | 160 | 35     | 7           | 28       | 12.41 | 10.27       | tm |         | 2       |             |
| 4A052    | 2788939.0 6379750.8 | 16        | 60          | 60       | 40 | 56     |             |          |     |        |             |          | 14.93 |             | wt |         | 1       |             |
| 4A053    | 2789271.1 6379920.7 | 12        | 75          | 45       | 24 | 36     |             |          |     |        |             |          | 9.09  |             | wt |         | 1       |             |
| 4A054    | 2789363.7 6379947.8 | 14        | 65          | 50       | 30 | 44     |             |          |     |        |             |          | 12.15 |             | wt |         | 1       |             |
| 4A055    | 2789495.0 6379947.8 | 8         | 60          | 125      | 42 | 50     |             |          |     |        |             |          | 7.59  |             | wt |         | 1       |             |
| 4A056    | 2789495.0 6380094.5 | 22        | 170         | 170      | 26 | 48     |             |          | 115 | 60     | 34          | 37       | 7.37  | 6.94        | wt |         | 4       |             |
| 4A057    | 2789502.7 6380160.1 | 20        | 170         | 120      | 20 | 40     |             |          |     |        |             |          | 6.71  |             | wt |         | 1       |             |
| 4A058    | 2789394.6 6380160.1 | 9         | 55          | 75       | 28 | 37     |             |          |     |        |             |          | 9.29  |             | wt |         | 1       |             |
| 4A059    | 2789209.3 6380055.9 | 8         | 35          | 35       | 12 | 20     |             |          |     |        |             |          | 12.88 |             | wt |         | 3       |             |
| 4A060    | 2789147.5 6380055.9 | 16        | 35          | 40       | 6  | 22     |             |          |     |        |             |          | 24.57 |             | wt |         | 3       |             |
| 4A061    | 2789047.1 6380067.4 | 14        | 45          | 145      | 14 | 28     |             |          | 100 | 110    | 8           | 20       | 17.28 | 11.31       | tm |         | 4       |             |
| 4A062    | 2789051.0 6380156.2 | 20        | 50          | 105      | 8  | 28     |             |          | 50  | 40     | 8           | 20       | 21.80 | 21.80       | tm |         | 2       |             |
| 4A063    | 2789205.4 6380171.7 | 12        | 27.5        | 45       | 6  | 18     |             |          | 40  | 20     | 7           | 12       | 23.57 | 15.38       | wt |         | 2       |             |
| 4A064    | 2789247.9 6380206.4 | 10        | 45          | 30       | 10 | 20     |             |          |     |        |             |          | 12.53 |             | wt |         | 0       |             |
| 4A065    | 2789286.5 6380260.5 | 12        | 75          | 35       | 8  | 20     |             |          |     |        |             |          | 9.09  |             | wt |         | 1       |             |
| 4A066    | 2789031.7 6380291.4 | 23        | 60          | 100      | 8  | 31     |             |          | 50  | 50     | 11          | 24       | 20.97 | 21.80       | tm |         | 4       |             |
| 4A067    | 2789309.7 6380330.0 | 12        | 50          | 40       | 8  | 20     |             |          |     |        |             |          | 13.50 |             | wt |         | 1       |             |
| 4A068    | 2789413.9 6380314.5 | 10        | 40          | 115      | 24 | 34     |             |          |     |        |             |          | 14.04 |             | wt |         | 1       |             |
| 4A069    | 2789363.7 6380376.3 | 12        | 85          | 55       | 10 | 22     |             |          |     |        |             |          | 8.04  |             | wt |         | 1       |             |
| 4A070    | 2788939.0 6380272.1 | 3         | 25          | 60       | 32 | 35     |             |          |     |        |             |          | 6.84  |             | tm |         | 1       |             |
| 4A071    | 2788939.0 6380341.6 | 2         | 10          | 115      | 34 | 36     |             |          |     |        |             |          | 11.31 |             | tm |         | 1       |             |
| 4A072    | 2789095.4 6380498.6 | 18        | 30          | 85       | 12 | 30     |             |          |     |        |             |          | 30.96 |             | tm |         | 3       |             |
| 4A073    | 2789173.3 6380639.2 | 22        | 215         | 55       | 10 | 32     |             |          |     |        |             |          | 5.84  |             | tm |         | 3       |             |
| 4A074    | 2789214.3 6380554.4 | 12        | 20          | 70       | 20 | 32     |             |          | 50  | 40     | 10          | 22       | 30.96 | 23.75       | tm |         | 4       |             |
| 4A075    | 2789411.4 6380491.2 | 4         | 20          | 30       | 16 | 20     |             |          |     |        |             |          | 11.31 |             | tm |         | 0       |             |
| 4A076    | 2789369.6 6380766.2 | 28        | 110         | 225      | 6  | 34     |             |          | 150 | 185    | 6           | 28       | 14.28 | 10.57       | tm |         | 4       |             |
| 4A077    | 2789438.9 6380635.3 | 9         | 60          | 45       | 8  | 17     |             |          |     |        |             |          | 8.53  |             | tm |         | 0       |             |
| 4A078    | 2789658.3 6380646.9 | 10        | 35          | 35       | 4  | 14     |             |          |     |        |             |          | 15.95 |             | wt |         | 3       |             |
| 4A079    | 2789700.7 6380616.1 | 8         | 30          | 30       | 8  | 16     |             |          |     |        |             |          | 14.93 |             | wt |         | 3       |             |
| 4A080    | 2789738.5 6380494.9 | 10        | 30          | 60       | 24 | 34     |             |          |     |        |             |          | 18.43 |             | wt |         | 3       |             |
| 4A081    | 2789734.7 6380509.8 | 10        | 40          | 35       | 18 | 28     |             |          |     |        |             |          | 14.04 |             | wt |         | 0       |             |
| 4A082    | 2789762.3 6380696.9 | 14        | 90          | 55       | 8  | 22     |             |          | 100 | 115    | 6           | 20       | 8.84  | 9.09        | wt |         | 2       |             |
| 4A083    | 2789876.0 6380736.5 | 26        | 50          | 50       | 8  | 34     |             |          |     |        |             |          | 27.47 |             | tm |         | 3       |             |
| 4A084    | 2789902.0 6380833.1 | 30        | 75          | 50       | 10 | 40     |             |          | 90  | 35     | 8           | 22       | 21.80 | 19.57       | tm |         | 4       |             |
| 4A085    | 2789902.0 6380922.3 | 20        | 115         | 60       | 16 | 36     |             |          |     |        |             |          | 9.87  |             | tm |         | 3       |             |
| 4A086    | 2789812.8 6380922.3 | 8         | 40          | 30       | 4  | 12     |             |          |     |        |             |          | 11.31 |             | tm |         | 3       |             |
| 4A087    | 2789664.1 6381007.8 | 12        | 30          | 90       | 6  | 18     |             |          |     |        |             |          | 21.80 |             | tm |         | 3       |             |
| 4A088    | 2789500.6 6381056.2 | 14        | 145         | 135      | 20 | 34     |             |          |     |        |             |          | 5.51  |             | tm |         | 1       |             |
| 4A089    | 2789846.3 6380996.7 | 10        | 40          | 60       | 4  | 14     |             |          |     |        |             |          | 14.04 |             | tm |         | 3       |             |
| 4A090    | 2789879.7 6381059.9 | 16        | 25          | 110      | 4  | 20     |             |          |     |        |             |          | 32.62 |             | tm |         | 3       |             |
| 4A091    | 2789742.2 6381184.0 | 8         | 25          | 50       | 8  | 16     |             |          |     |        |             |          | 17.74 |             | tm |         | 3       |             |
| 4A092    | 2789574.9 6381271.8 | 18        | 60          | 95       | 10 | 28     |             |          |     |        |             |          | 16.70 |             | tm |         | 3       |             |
| 4A093    | 2789560.0 6381379.6 | 20        | 40          | 280      | 14 | 34     |             |          |     |        |             |          | 26.57 |             | tm |         | 3       |             |
| 4A094    | 2789820.2 6381416.7 | 10        | 45          | 55       | 8  | 18     |             |          |     |        |             |          | 12.53 |             | tm |         | 3       |             |
| 4A095    | 2789957.8 6381152.8 | 10        | 20          | 50       | 6  | 16     |             |          |     |        |             |          | 26.57 |             | tm |         | 3       |             |
| 4A096    | 2790058.1 6381334.9 | 8         | 35          | 55       | 2  | 10     |             |          |     |        |             |          | 12.88 |             | tm |         | 3       |             |
| 4A097    | 2790236.6 6381312.6 | 8         | 65          | 80       | 2  | 10     |             |          |     |        |             |          | 7.02  |             | tm |         | 3       |             |
| 4A098    | 2790122.2 6381648.4 | 26        | 85          | 120      | 4  | 30     |             |          |     |        |             |          | 17.01 |             | tm |         | 3       |             |
| 4A099    | 2790217.3 6381651.9 | 22        | 65          | 90       | 6  | 28     |             |          |     |        |             |          | 18.70 |             | tm |         | 3       |             |
| 4A100    | 2790354.6 6381658.9 | 10        | 30          | 90       | 12 | 22     |             |          |     |        |             |          | 18.43 |             | tm |         | 3       |             |
| 4A101    | 2790507.9 6381364.7 | 8         | 30          | 40       | 6  | 14     |             |          |     |        |             |          | 14.93 |             | tm |         | 3       |             |
| 4A102    | 2790675.2 6381334.9 | 6         | 30          | 100      | 12 | 18     |             |          |     |        |             |          | 11.31 |             | tm |         | 1       |             |
| 4A103    | 2790326.4 6381835.0 | 18        | 80          | 70       | 6  | 24     |             |          |     |        |             |          | 12.68 |             | tm |         | 3       |             |
| 4A104    | 2790477.9 6381989.9 | 18        | 32.5        | 50       | 6  | 24     |             |          |     |        |             |          | 28.98 |             | tm |         | 3       |             |
| 4A105    | 2790632.8 6382102.6 | 22        | 90          | 225      | 4  | 26     |             |          | 105 | 100    | 5           | 14       | 13.74 | 11.31       | tm |         | 4       |             |
| 4A106    | 2790692.7 6382190.7 | 16        | 40          | 115      | 10 | 26     |             |          | 95  | 65     | 3           | 12       | 21.80 | 13.61       | tm |         | 4       |             |
| 4A107    | 2790632.8 6382292.8 | 22        | 45          | 100      | 2  | 24     |             |          |     |        |             |          | 26.05 |             | tm |         | 0       |             |
| 4A108    | 2790872.3 6382426.6 | 20        | 140         | 110      | 4  | 24     |             |          |     |        |             |          | 8.13  |             | tm | Yes     | 0       |             |
| 4A109    | 2790963.8 6382461.8 | 16        | 35          | 85       | 4  | 20     |             |          |     |        |             |          | 24.57 |             | tm |         | 3       |             |
| 4A110    | 2790985.0 6382475.9 | 18        | 70          | 95       | 4  | 22     |             |          |     |        |             |          | 14.42 |             | tm | Yes     | 3       |             |
| 4A111    | 2791066.0 6382437.2 | 24        | 80          | 55       | 2  | 26     |             |          | 75  | 25     | 2           | 16       | 16.70 | 17.74       | tm |         | 4       |             |
| 4A112    | 2791132.9 6382433.6 | 22        | 90          | 90       | 2  | 24     |             |          |     |        |             |          | 13.74 |             | tm |         | 3       |             |
| 4A113    | 2791161.0 6382349.1 | 12        | 30          | 55       | 10 | 22     |             |          | 75  | 30     | 2           | 12       | 21.80 | 14.93       | tm |         | 4       |             |
| 4A114    | 2791404.0 6382303.4 | 12        | 37.5        | 60       | 10 | 22     |             |          | 65  | 30     | 2           | 14       | 17.74 | 17.10       | tm |         | 4       |             |
| 4A115    | 2791414.6 6382535.8 | 12        | 85          | 80       | 10 | 22     |             |          |     |        |             |          | 8.04  |             | tm |         | 1       |             |
| 4A116    | 2791463.9 6382620.3 | 20        | 15          | 40       | 2  | 22     |             |          |     |        |             |          | 53.13 |             | tm |         | 0       |             |
| 4A117    | 2791470.9 6382659.0 | 24        | 20          | 35       | 0  | 24     |             |          |     |        |             |          | 50.19 |             | tm |         | 0       |             |
| 4A118    | 2791463.9 6382701.3 | 24        | 20          | 35       | 0  | 24     |             |          | 45  | 25     | 0           | 16       | 50.19 | 28.07       | tm |         | 2       |             |
| 4A119    | 2789560.6 6379492.2 | 12        | 100         | 125      | 62 | 74     |             |          |     |        |             |          | 6.84  |             | wt |         | 1       |             |
| 4A120    | 2789583.8 6379557.8 | 12        | 40          | 95       | 62 | 74     |             |          |     |        |             |          | 16.70 |             | wt |         | 1       |             |
| 4A121    | 2789641.7 6379538.5 | 16        | 85          | 150      | 60 | 76     |             |          |     |        |             |          | 10.66 |             | wt |         | 3       |             |
| 4A122    | 2789649.4 6379774.0 | 30        | 130         | 175      | 20 | 50     |             |          |     |        |             |          | 12.99 |             | wt |         | 1       |             |
| 4A123    | 2789742.1 6379650.5 | 18        | 75          | 40       | 38 | 56     |             |          | 110 | 25     | 24          | 36       | 13.50 | 16.22       | wt |         | 4       |             |
| 4A124    | 2787722.8 6379700.7 | 36        | 80          | 50       | 20 | 56     |             |          | 110 | 40     | 24          | 36       | 24.23 | 16.22       | wt |         | 4       |             |
| 4A125    | 2790043.3 6379692.9 | 10        | 80          | 55       | 52 | 62     |             |          | 100 | 25     | 49          | 56       | 7.13  | 7.41        | wt |         | 2       |             |
| 4A126    | 2789827.0 6379843.5 | 28        | 90          | 70       | 22 | 50     |             |          |     |        |             |          | 17.28 |             | wt |         | 0       |             |
| 4A127    | 2789672.6 6379986.4 | 16        | 35          | 55       | 18 | 34     |             |          | 45  | 35     | 20          | 30       | 24.57 | 17.28       | wt |         | 2       |             |
| 4A128    | 2789622.4 6380044.3 | 16        | 20          | 45       | 16 | 32     |             |          |     |        |             |          | 38.66 |             | wt |         | 3       |             |



| Ref. No. | Coordinates |           | Height(m) | Scarp       |          |     | Bottom |             | Scarp    |     | Runout |       | Toe Top |       | Slope angle |    | Geology | Seepage | Geo. Symbol |
|----------|-------------|-----------|-----------|-------------|----------|-----|--------|-------------|----------|-----|--------|-------|---------|-------|-------------|----|---------|---------|-------------|
|          |             |           |           | Distance(m) | Width(m) | RL  | RL     | Distance(m) | Width(m) | RL  | RL     | Scarp | Runout  |       |             |    |         |         |             |
| 4A129    | 2789634.0   | 6380094.5 | 16        | 30          | 45       | 16  | 32     |             |          |     |        |       |         |       |             | wt |         | 3       |             |
| 4A130    | 2789939.0   | 6380028.8 | 22        | 90          | 60       | 32  | 54     |             |          |     |        |       |         |       |             | wt |         | 3       |             |
| 4A131    | 2789830.9   | 6380036.6 | 12        | 35          | 90       | 32  | 44     |             |          | 90  | 70     | 26    | 35      | 18.92 | 11.31       | wt |         | 4       |             |
| 4A132    | 2789888.8   | 6380086.7 | 22        | 110         | 70       | 28  | 50     |             |          |     |        |       |         | 11.31 |             | wt |         | 3       |             |
| 4A133    | 2789819.3   | 6380191.0 | 8         | 35          | 95       | 26  | 34     |             |          |     |        |       |         | 12.88 |             | wt |         | 3       |             |
| 4A134    | 2789881.5   | 6380237.3 | 8         | 65          | 100      | 38  | 46     |             |          |     |        |       |         | 7.02  |             | wt |         | 3       |             |
| 4A135    | 2789857.9   | 6380279.8 | 3         | 30          | 75       | 42  | 45     |             |          |     |        |       |         | 5.71  |             | wt |         | 3       |             |
| 4A136    | 2789915.8   | 6380426.5 | 8         | 75          | 85       | 42  | 50     |             |          |     |        |       |         | 6.09  |             | wt |         | 1       |             |
| 4A137    | 2789931.7   | 6380595.2 | 26        | 160         | 80       | 18  | 44     |             |          |     |        |       |         | 9.23  |             | wt |         | 3       |             |
| 4A138    | 2789939.2   | 6380669.6 | 16        | 100         | 85       | 18  | 34     |             |          |     |        |       |         | 9.09  |             | wt |         | 1       |             |
| 4A139    | 2790009.8   | 6380584.1 | 22        | 130         | 135      | 24  | 46     |             |          |     |        |       |         | 9.61  |             | wt |         | 3       |             |
| 4A140    | 2790089.6   | 6379994.1 | 2         | 15          | 65       | 60  | 62     |             |          |     |        |       |         | 7.59  |             | wt |         | 3       |             |
| 4A141    | 2790097.3   | 6379920.7 | 8         | 60          | 60       | 56  | 64     |             |          |     |        |       |         | 7.59  |             | wt |         | 1       |             |
| 4A142    | 2790170.7   | 6379781.7 | 8         | 105         | 95       | 64  | 72     |             |          |     |        |       |         | 4.36  |             | wt |         | 3       |             |
| 4A143    | 2790193.8   | 6379592.5 | 20        | 90          | 190      | 64  | 84     |             |          |     |        |       |         | 12.53 |             | wt |         | 3       |             |
| 4A144    | 2790135.9   | 6379496.0 | 14        | 70          | 50       | 74  | 88     |             |          |     |        |       |         | 11.31 |             | wt |         | 3       |             |
| 4A145    | 2790271.1   | 6379480.6 | 20        | 75          | 55       | 102 | 122    |             |          |     |        |       |         | 14.93 |             | wt |         | 3       |             |
| 4A146    | 2790356.0   | 6379457.4 | 70        | 190         | 100      | 48  | 118    |             |          | 210 | 40     | 46    | 97      | 20.22 | 18.92       | wt |         | 4       |             |
| 4A147    | 2790753.7   | 6379542.4 | 10        | 65          | 155      | 56  | 66     |             |          |     |        |       |         | 8.75  |             | wt |         | 3       |             |
| 4A148    | 2790734.4   | 6379692.9 | 22        | 140         | 125      | 40  | 62     |             |          |     |        |       |         | 8.93  |             | wt |         | 1       |             |
| 4A149    | 2790464.1   | 6379708.4 | 46        | 130         | 235      | 48  | 94     |             |          | 185 | 225    | 34    | 92      | 19.49 | 17.97       | wt |         | 4       |             |
| 4A150    | 2790429.4   | 6379600.3 | 56        | 165         | 60       | 42  | 98     |             |          | 155 | 25     | 42    | 62      | 18.75 | 19.86       | wt |         | 4       |             |
| 4A151    | 2790429.4   | 6379785.6 | 36        | 80          | 95       | 42  | 78     |             |          | 115 | 55     | 32    | 66      | 24.23 | 21.80       | wt |         | 4       |             |
| 4A152    | 2790379.2   | 6379665.9 | 12        | 30          | 55       | 80  | 92     |             |          |     |        |       |         | 21.80 |             | wt |         | 1       |             |
| 4A153    | 2790290.4   | 6379681.3 | 8         | 50          | 95       | 84  | 92     |             |          | 95  | 30     | 56    | 83      | 9.09  | 20.75       | wt |         | 4       |             |
| 4A154    | 2790232.4   | 6379859.0 | 64        | 55          | 80       | 24  | 88     |             |          |     |        |       |         | 49.33 |             | wt |         | 3       |             |
| 4A155    | 2790367.6   | 6379967.1 | 10        | 30          | 65       | 30  | 40     |             |          | 70  | 45     | 23    | 38      | 18.43 | 13.65       | wt |         | 4       |             |
| 4A156    | 2790301.9   | 6380005.7 | 18        | 55          | 50       | 22  | 40     |             |          |     |        |       |         | 18.12 |             | wt |         | 1       |             |
| 4A157    | 279027496   | 6380117.6 | 32        | 105         | 70       | 30  | 62     |             |          |     |        |       |         | 16.95 |             | wt |         | 1       |             |
| 4A158    | 2790132.1   | 6380314.5 | 13        | 70          | 60       | 16  | 29     |             |          |     |        |       |         | 10.52 |             | wt |         | 1       |             |
| 4A159    | 2790195.7   | 6380506.0 | 6         | 20          | 40       | 14  | 20     |             |          |     |        |       |         | 16.70 |             | wt |         | 3       |             |
| 4A160    | 2790121.3   | 6380561.8 | 8         | 65          | 40       | 16  | 24     |             |          |     |        |       |         | 7.02  |             | wt |         | 3       |             |
| 4A161    | 2790258.9   | 6380662.2 | 10        | 30          | 45       | 16  | 26     |             |          |     |        |       |         | 18.43 |             | tm |         | 3       |             |
| 4A162    | 2790262.6   | 6380729.1 | 10        | 25          | 40       | 16  | 26     |             |          |     |        |       |         | 21.80 |             | tm |         | 3       |             |
| 4A163    | 2790292.3   | 6380803.4 | 18        | 50          | 60       | 8   | 26     |             |          |     |        |       |         | 19.80 |             | tm |         | 3       |             |
| 4A164    | 2790359.2   | 6380914.9 | 16        | 60          | 125      | 6   | 22     |             |          |     |        |       |         | 14.93 |             | tm |         | 3       |             |
| 4A165    | 2790496.7   | 6380926.1 | 6         | 20          | 30       | 4   | 10     |             |          |     |        |       |         | 16.70 |             | tm |         | 1       |             |
| 4A166    | 2790578.5   | 6381026.4 | 6         | 30          | 100      | 4   | 10     |             |          |     |        |       |         | 11.31 |             | tm | poss.   | 1       |             |
| 4A167    | 2790638.0   | 6381119.4 | 8         | 35          | 35       | 4   | 12     |             |          |     |        |       |         | 12.88 |             | tm |         | 1       |             |
| 4A168    | 2790641.7   | 6381164.0 | 8         | 65          | 40       | 4   | 12     |             |          |     |        |       |         | 7.02  |             | tm |         | 1       |             |
| 4A169    | 2790805.3   | 6380996.7 | 16        | 85          | 50       | 10  | 26     |             |          |     |        |       |         | 10.66 |             | wt |         | 3       |             |
| 4A170    | 2790623.1   | 6380558.1 | 6         | 60          | 75       | 38  | 44     |             |          |     |        |       |         | 5.71  |             | wt |         | 1       |             |
| 4A171    | 2790564.5   | 6380414.9 | 10        | 75          | 105      | 36  | 46     |             |          |     |        |       |         | 7.59  |             | wt |         | 1       |             |
| 4A172    | 2790475.7   | 6380414.9 | 34        | 60          | 165      | 12  | 46     |             |          |     |        |       |         | 29.54 |             | wt |         | 3       |             |
| 4A173    | 2790529.7   | 6380326.1 | 20        | 60          | 100      | 14  | 34     |             |          |     |        |       |         | 18.43 |             | wt |         | 3       |             |
| 4A174    | 2790626.2   | 6379936.2 | 8         | 30          | 45       | 28  | 36     |             |          |     |        |       |         | 14.93 |             | wt |         | 3       |             |
| 4A175    | 2790711.2   | 6380191.0 | 14        | 75          | 80       | 26  | 40     |             |          |     |        |       |         | 10.57 |             | wt |         | 1       |             |
| 4A176    | 2790939.0   | 6380353.2 | 10        | 85          | 100      | 56  | 66     |             |          | 165 | 70     | 52    | 62      | 6.71  | 4.85        | wt |         | 4       |             |
| 4A177    | 2790900.4   | 6380407.2 | 20        | 100         | 150      | 32  | 52     |             |          |     |        |       |         | 11.31 |             | wt |         | 3       |             |
| 4A178    | 2790897.6   | 6380543.2 | 24        | 120         | 150      | 38  | 62     |             |          | 90  | 35     | 42    | 50      | 11.31 | 12.53       | wt |         | 4       |             |
| 4A179    | 2790890.8   | 6380755.1 | 22        | 150         | 175      | 42  | 64     |             |          | 115 | 60     | 46    | 60      | 8.34  | 8.90        | wt |         | 4       |             |
| 4A180    | 2790957.7   | 6380874.0 | 24        | 130         | 80       | 40  | 64     |             |          |     |        |       |         | 10.46 |             | wt |         | 1       |             |
| 4A181    | 2791020.9   | 6380967.0 | 28        | 125         | 130      | 32  | 60     |             |          |     |        |       |         | 12.63 |             | wt |         | 3       |             |
| 4A182    | 2791072.9   | 6381100.8 | 22        | 80          | 165      | 24  | 46     |             |          |     |        |       |         | 15.38 |             | wt |         | 1       |             |
| 4A183    | 2791106.4   | 6381033.9 | 38        | 95          | 170      | 18  | 56     |             |          | 125 | 130    | 7     | 34      | 21.80 | 21.41       | wt |         | 4       |             |
| 4A184    | 2791024.6   | 6380874.0 | 52        | 185         | 190      | 8   | 60     |             |          | 160 | 85     | 10    | 60      | 15.70 | 17.35       | wt |         | 2       |             |
| 4A185    | 2791110.1   | 6380855.4 | 20        | 67.5        | 35       | 8   | 28     |             |          |     |        |       |         | 16.50 |             | wt |         | 3       |             |
| 4A186    | 2791050.6   | 6380729.1 | 48        | 130         | 115      | 10  | 58     |             |          | 195 | 70     | 10    | 54      | 20.27 | 13.83       | wt | Yes     | 4       |             |
| 4A187    | 2791043.2   | 6380602.7 | 48        | 140         | 110      | 20  | 68     |             |          | 165 | 65     | 22    | 60      | 18.92 | 15.58       | wt |         | 4       |             |
| 4A188    | 2791097.3   | 6380306.8 | 20        | 80          | 35       | 40  | 60     |             |          |     |        |       |         | 14.04 |             | wt |         | 1       |             |
| 4A189    | 2791093.4   | 6380264.4 | 34        | 150         | 75       | 36  | 70     |             |          |     |        |       |         | 12.77 |             | wt |         | 3       |             |
| 4A190    | 2791132.0   | 6380121.5 | 28        | 105         | 90       | 36  | 64     |             |          |     |        |       |         | 14.93 |             | wt |         | 3       |             |
| 4A191    | 2791166.8   | 6379932.3 | 26        | 165         | 150      | 50  | 76     |             |          | 175 | 45     | 48    | 60      | 8.95  | 9.09        | wt |         | 4       |             |
| 4A192    | 2790977.6   | 6379843.5 | 10        | 60          | 90       | 52  | 62     |             |          |     |        |       |         | 9.46  |             | wt |         | 1       |             |
| 4A193    | 2791043.2   | 6379608.0 | 10        | 80          | 60       | 62  | 72     |             |          |     |        |       |         | 7.13  |             | wt |         | 1       |             |
| 4A194    | 2791074.1   | 6379774.0 | 20        | 50          | 120      | 56  | 76     |             |          |     |        |       |         | 21.80 |             | wt |         | 1       |             |
| 4A195    | 2791271.0   | 6380028.8 | 40        | 125         | 125      | 44  | 84     |             |          |     |        |       |         | 17.74 |             | wt |         | 3       |             |
| 4A196    | 2791494.7   | 6379716.5 | 33        | 230         | 180      | 78  | 111    |             |          |     |        |       |         | 8.16  |             | wt |         | 3       |             |
| 4A197    | 2791644.6   | 6379526.4 | 34        | 210         | 230      | 86  | 120    |             |          |     |        |       |         | 9.20  |             | wt |         | 3       |             |
| 4A198    | 2791255.6   | 6379897.6 | 17        | 175         | 115      | 67  | 84     |             |          |     |        |       |         | 5.55  |             | wt |         | 3       |             |
| 4A199    | 2791367.6   | 6379835.8 | 16        | 105         | 115      | 60  | 76     |             |          | 95  | 30     | 62    | 70      | 8.66  | 8.38        | wt |         | 4       |             |
| 4A200    | 2791520.3   | 6379818.8 | 38        | 140         | 120      | 68  | 106    |             |          | 200 | 25     | 62    | 72      | 15.19 | 12.41       | wt |         | 4       |             |
| 4A201    | 2791286.3   | 6380170.8 | 12        | 70          | 45       | 42  | 54     |             |          |     |        |       |         | 9.73  |             | wt |         | 3       |             |
| 4A202    | 2791180.2   | 6380273.4 | 16        | 105         | 35       | 36  | 52     |             |          |     |        |       |         | 8.66  |             | wt |         | 3       |             |
| 4A203    | 2791240.3   | 6380496.3 | 4         | 32.5        | 25       | 24  | 28     |             |          |     |        |       |         | 7.02  |             | wt |         | 1       |             |
| 4A204    | 2791452.6   | 6380004.5 | 60        | 60          | 35       | 16  | 76     |             |          |     |        |       |         | 45.00 |             | wt |         | 3       |             |
| 4A205    | 2791519.8   | 6380298.7 | 8         | 50          | 90       | 44  | 52     |             |          |     |        |       |         | 9.09  |             | wt |         | 1       |             |
| 4A206    | 2791495.0   | 6380400.8 | 12        | 50          | 100      | 46  | 58     |             |          |     |        |       |         | 13.50 |             | wt |         | 1       |             |
| 4A207    | 2791339.4   | 6380715.6 | 6         | 40          | 75       | 26  | 32     |             |          |     |        |       |         | 8.53  |             | wt |         | 1       |             |
| 4A208    | 2791399.5   | 6380637.8 | 10        | 87.5        | 60       | 26  | 36     |             |          |     |        |       |         | 6.52  |             | wt |         | 3       |             |
| 4A209    | 2791495.0   | 6380588.3 | 5         | 75          | 30       | 36  | 41     |             |          |     |        |       |         | 3.81  |             | wt |         | 3       |             |
| 4A210    | 2791580.0   | 6380556.4 | 12        | 65          | 220      | 42  | 54     |             |          |     |        |       |         | 10.46 |             | wt |         | 1       |             |
| 4A211    | 2791703.8   | 6380775.8 | 8         | 60          | 95       | 40  | 48     |             |          |     |        |       |         | 7.59  |             | wt |         | 1       |             |
| 4A212    | 2791618.9   | 6380772.2 | 26        | 65          | 115      | 20  | 46     |             |          |     |        |       |         | 21.80 |             | wt |         | 3       |             |
| 4A213    | 2791530.4   | 6380847.8 | 10        | 42.5        | 35       | 20  | 30     |             |          |     |        |       |         | 13.24 |             | wt |         | 3       |             |
| 4A214    | 2791569.3   | 6380977.4 | 14        | 135         | 130      | 26  | 40     |             |          |     |        |       |         | 5.92  |             | wt |         | 1       |             |
| 4A215    | 2791473.8   | 6381136.6 | 10        | 50          | 45       | 6   | 16     |             |          |     |        |       |         | 11.31 |             | wt |         | 3       |             |

| Ref. No. | Coordinates         | Scarp     |             |          | Bottom Scarp |     | Runout      |          | Toe Top |     | Slope angle |        | Geology | Seepage | Geo. Symbol |
|----------|---------------------|-----------|-------------|----------|--------------|-----|-------------|----------|---------|-----|-------------|--------|---------|---------|-------------|
|          |                     | Height(m) | Distance(m) | Width(m) | RL           | RL  | Distance(m) | Width(m) | RL      | RL  | Scarp       | Runout |         |         |             |
| 4A216    | 2791604.7 6381260.5 | 24        | 100         | 185      | 10           | 34  | 185         | 80       | 6       | 13  | 13.50       | 8.61   | wt      |         | 2           |
| 4A217    | 2791866.5 6381416.1 | 4         | 30          | 75       | 12           | 16  |             |          |         |     | 7.59        |        | wt      |         | 1           |
| 4A218    | 2791838.2 6381302.9 | 12        | 60          | 70       | 6            | 18  |             |          |         |     | 11.31       |        | wt      |         | 3           |
| 4A219    | 2791831.1 6381210.9 | 12        | 65          | 115      | 8            | 20  |             |          |         |     | 10.46       |        | wt      |         | 3           |
| 4A220    | 2791753.3 6381122.5 | 20        | 175         | 100      | 22           | 42  |             |          |         |     | 6.52        |        | wt      |         | 1           |
| 4A221    | 2791834.7 6381065.9 | 13        | 25          | 90       | 24           | 37  |             |          |         |     | 27.47       |        | wt      |         | 1           |
| 4A222    | 2792192.0 6381430.3 | 3         | 25          | 95       | 10           | 13  |             |          |         |     | 6.84        |        | wt      |         | 1           |
| 4A223    | 2792082.3 6381267.5 | 8         | 50          | 50       | 4            | 12  |             |          |         |     | 9.09        |        | wt      |         | 3           |
| 4A224    | 2791735.6 6380899.0 | 38        | 110         | 125      | 8            | 46  | 125         | 50       | 7       | 32  | 19.06       | 17.33  | wt      |         | 4           |
| 4A225    | 2791749.8 6380768.7 | 22        | 75          | 135      | 28           | 50  | 130         | 30       | 12      | 30  | 16.35       | 16.29  | wt      |         | 4           |
| 4A226    | 2792029.3 6380899.6 | 10        | 40          | 105      | 6            | 16  |             |          |         |     | 14.04       |        | wt      |         | 3           |
| 4A227    | 2792107.1 6381016.4 | 8         | 25          | 45       | 10           | 18  |             |          |         |     | 17.74       |        | wt      |         | 1           |
| 4A228    | 2792135.4 6380938.5 | 10        | 90          | 110      | 18           | 28  | 115         | 65       | 17      | 25  | 6.34        | 5.46   | wt      |         | 2           |
| 4A229    | 2792308.8 6380949.1 | 10        | 30          | 25       | 20           | 30  |             |          |         |     | 18.43       |        | wt      |         | 0           |
| 4A230    | 2792192.0 6380814.7 | 20        | 85          | 60       | 28           | 48  |             |          |         |     | 13.24       |        | wt      |         | 1           |
| 4A231    | 2792131.9 6380743.9 | 22        | 100         | 55       | 14           | 36  | 70          | 30       | 21      | 28  | 12.41       | 12.09  | wt      |         | 4           |
| 4A232    | 2792004.5 6380814.7 | 8         | 25          | 85       | 8            | 16  |             |          |         |     | 17.74       |        | wt      |         | 3           |
| 4A233    | 2791845.3 6380726.2 | 18        | 40          | 30       | 12           | 30  |             |          |         |     | 24.23       |        | wt      |         | 3           |
| 4A234    | 2792061.1 6380701.5 | 6         | 22.5        | 35       | 14           | 20  |             |          |         |     | 14.93       |        | wt      |         | 3           |
| 4A235    | 2792142.5 6380680.3 | 10        | 25          | 75       | 24           | 34  | 65          | 45       | 16      | 26  | 21.80       | 15.48  | wt      |         | 2           |
| 4A236    | 2791735.6 6380616.6 | 18        | 50          | 220      | 32           | 50  | 135         | 90       | 8       | 30  | 19.80       | 17.28  | wt      |         | 2           |
| 4A237    | 2791813.5 6380545.8 | 8         | 20          | 85       | 16           | 24  | 45          | 50       | 10      | 19  | 21.80       | 17.28  | wt      |         | 4           |
| 4A238    | 2792276.9 6380666.1 | 14        | 75          | 95       | 30           | 44  |             |          |         |     | 10.57       |        | wt      |         | 3           |
| 4A239    | 2792319.4 6380591.8 | 31        | 105         | 200      | 44           | 75  |             |          |         |     | 16.45       |        | wt      |         | 1           |
| 4A240    | 2792238.0 6380450.3 | 26        | 70          | 110      | 62           | 88  |             |          |         |     | 20.38       |        | wt      |         | 1           |
| 4A241    | 2792071.7 6380446.7 | 20        | 55          | 105      | 28           | 48  |             |          |         |     | 19.98       |        | wt      |         | 1           |
| 4A242    | 2791990.3 6380429.1 | 8         | 50          | 45       | 18           | 26  |             |          |         |     | 9.09        |        | wt      | Yes     | 1           |
| 4A243    | 2792245.1 6380386.6 | 38        | 115         | 95       | 52           | 90  |             |          |         |     | 18.29       |        | wt      |         | 1           |
| 4A244    | 2792230.9 6380344.1 | 26        | 75          | 75       | 64           | 90  |             |          |         |     | 19.12       |        | wt      |         | 1           |
| 4A245    | 2792209.7 6380305.2 | 28        | 105         | 115      | 54           | 82  |             |          |         |     | 14.93       |        | wt      |         | 1           |
| 4A246    | 2791930.2 6380209.7 | 16        | 75          | 90       | 32           | 48  |             |          |         |     | 12.04       |        | wt      |         | 1           |
| 4A247    | 2791771.0 6380110.6 | 46        | 90          | 210      | 30           | 76  | 100         | 190      | 28      | 62  | 27.07       | 25.64  | wt      |         | 4           |
| 4A248    | 2792054.0 6380032.8 | 15        | 50          | 40       | 46           | 61  |             |          |         |     | 16.70       |        | wt      |         | 1           |
| 4A249    | 2792262.8 6380170.8 | 13        | 85          | 100      | 74           | 87  |             |          |         |     | 8.70        |        | wt      |         | 3           |
| 4A250    | 2792177.9 6380103.6 | 18        | 80          | 45       | 52           | 70  |             |          |         |     | 12.68       |        | wt      |         | 3           |
| 4A251    | 2792273.4 6380025.7 | 32        | 100         | 70       | 50           | 82  |             |          |         |     | 17.74       |        | wt      |         | 1           |
| 4A252    | 2792212.2 6379884.9 | 22        | 67.5        | 50       | 54           | 76  |             |          |         |     | 18.05       |        | wt      |         | 3           |
| 4A253    | 2792179.5 6379745.9 | 25        | 70          | 95       | 58           | 83  | 95          | 20       | 54      | 70  | 19.65       | 16.98  | wt      |         | 2           |
| 4A254    | 2792065.1 6379800.1 | 22        | 70          | 80       | 68           | 90  |             |          |         |     | 17.45       |        | wt      |         | 3           |
| 4A255    | 2792111.4 6379874.0 | 30        | 87.5        | 80       | 50           | 80  |             |          |         |     | 18.92       |        | wt      |         | 1           |
| 4A256    | 2792059.6 6379950.3 | 28        | 65          | 85       | 48           | 76  | 75          | 30       | 48      | 56  | 23.30       | 20.47  | wt      |         | 4           |
| 4A257    | 2791969.7 6379939.4 | 26        | 100         | 150      | 56           | 82  |             |          |         |     | 14.57       |        | wt      |         | 1           |
| 4A258    | 2791887.9 6379868.5 | 8         | 32.5        | 50       | 54           | 62  |             |          |         |     | 13.83       |        | wt      |         | 3           |
| 4A259    | 2791784.3 6379860.3 | 34        | 70          | 60       | 46           | 80  | 75          | 30       | 46      | 66  | 25.91       | 24.39  | wt      |         | 4           |
| 4A260    | 2791743.5 6379830.4 | 22        | 45          | 65       | 58           | 80  | 55          | 35       | 50      | 74  | 26.05       | 28.61  | wt      |         | 4           |
| 4A261    | 2791639.9 6379754.0 | 22        | 155         | 90       | 86           | 108 | 140         | 40       | 84      | 92  | 8.08        | 9.73   | wt      |         | 4           |
| 4A262    | 2791634.4 6379699.5 | 38        | 160         | 115      | 82           | 120 | 145         | 90       | 85      | 98  | 13.36       | 13.57  | wt      |         | 4           |
| 4A263    | 2791716.2 6379636.8 | 48        | 62.5        | 190      | 86           | 134 | 255         | 65       | 83      | 102 | 37.52       | 11.31  | wt      |         | 4           |
| 4A264    | 2791926.1 6379756.8 | 26        | 125         | 70       | 58           | 84  | 115         | 30       | 59      | 70  | 11.75       | 12.26  | wt      |         | 4           |
| 4A265    | 2791980.6 6379655.9 | 22        | 35          | 5        | 58           | 80  | 45          | 35       | 60      | 72  | 32.15       | 23.96  | wt      |         | 2           |
| 4A266    | 2791917.9 6379655.9 | 34        | 100         | 60       | 60           | 94  |             |          |         |     | 18.78       |        | wt      |         | 4           |
| 4A267    | 2791868.8 6379566.0 | 48        | 130         | 75       | 62           | 110 | 135         | 45       | 60      | 98  | 20.27       | 20.32  | wt      |         | 4           |
| 4A268    | 2791792.5 6379506.0 | 70        | 175         | 130      | 64           | 134 | 175         | 110      | 64      | 122 | 21.80       | 21.80  | wt      |         | 4           |
| 4A269    | 2792005.1 6379473.3 | 8         | 60          | 35       | 62           | 70  |             |          |         |     | 7.59        |        | wt      |         | 1           |
| 4A270    | 2792043.3 6379544.2 | 8         | 30          | 45       | 62           | 70  |             |          |         |     | 14.93       |        | wt      |         | 3           |
| 4A271    | 2792326.7 6379533.3 | 18        | 60          | 160      | 98           | 116 |             |          |         |     | 16.70       |        | wt      |         | 3           |
| 4A272    | 2792348.5 6379642.3 | 4         | 100         | 240      | 94           | 98  |             |          |         |     | 2.29        |        | wt      |         | 1           |
| 4A273    | 2792334.9 6379912.1 | 46        | 145         | 150      | 50           | 96  |             |          |         |     | 17.60       |        | wt      |         | 1           |
| 4A274    | 2792463.0 6379604.1 | 12        | 75          | 250      | 98           | 110 |             |          |         |     | 9.09        |        | wt      |         | 1           |
| 4A275    | 2792424.8 6379835.8 | 12        | 75          | 90       | 88           | 100 |             |          |         |     | 9.09        |        | wt      |         | 3           |
| 4A276    | 2792528.4 6379844.0 | 12        | 85          | 40       | 72           | 84  |             |          |         |     | 8.04        |        | wt      |         | 3           |
| 4A277    | 2792438.4 6379966.6 | 18        | 70          | 45       | 88           | 106 | 70          | 50       | 88      | 98  | 14.42       | 14.42  | wt      |         | 4           |
| 4A278    | 2792489.2 6380015.1 | 34        | 102.5       | 120      | 72           | 106 | 100         | 60       | 70      | 94  | 18.35       | 19.80  | wt      |         | 4           |
| 4A279    | 2792453.8 6380107.1 | 38        | 140         | 110      | 60           | 98  | 150         | 75       | 60      | 92  | 15.19       | 14.22  | wt      |         | 2           |
| 4A280    | 2792468.0 6380199.1 | 16        | 40          | 35       | 58           | 74  |             |          |         |     | 21.80       |        | wt      |         | 1           |
| 4A281    | 2792368.9 6380184.9 | 28        | 100         | 50       | 60           | 88  |             |          |         |     | 15.64       |        | wt      | Yes     | 3           |
| 4A282    | 2792605.9 6380340.6 | 8         | 50          | 35       | 54           | 62  |             |          |         |     | 9.09        |        | wt      |         | 3           |
| 4A283    | 2792584.7 6380414.9 | 12        | 75          | 50       | 48           | 60  |             |          |         |     | 9.09        |        | wt      |         | 3           |
| 4A284    | 2792411.4 6380471.5 | 16        | 65          | 85       | 46           | 62  |             |          |         |     | 13.83       |        | wt      |         | 3           |
| 4A285    | 2792457.4 6380804.1 | 18        | 95          | 155      | 36           | 54  |             |          |         |     | 10.73       |        | wt      |         | 1           |
| 4A286    | 2792404.3 6380825.3 | 4         | 20          | 30       | 36           | 40  |             |          |         |     | 11.31       |        | wt      |         | 3           |
| 4A287    | 2792588.3 6380913.8 | 18        | 55          | 110      | 44           | 62  | 100         | 100      | 34      | 52  | 18.12       | 15.64  | wt      |         | 2           |
| 4A288    | 2792591.8 6380995.1 | 28        | 100         | 130      | 30           | 58  | 115         | 100      | 30      | 52  | 15.64       | 13.68  | wt      |         | 2           |
| 4A289    | 2792499.8 6380995.1 | 22        | 90          | 160      | 42           | 64  | 125         | 100      | 38      | 58  | 13.74       | 11.75  | wt      |         | 2           |
| 4A290    | 2792315.8 6381019.9 | 10        | 50          | 35       | 18           | 28  |             |          |         |     | 11.31       |        | wt      |         | 0           |
| 4A291    | 2792414.9 6381235.7 | 32        | 415         | 185      | 12           | 44  |             |          |         |     | 4.41        |        | wt      |         | 1           |
| 4A292    | 2792510.4 6381164.9 | 10        | 30          | 90       | 34           | 44  |             |          |         |     | 18.43       |        | wt      |         | 1           |
| 4A293    | 2792563.5 6381143.7 | 4         | 65          | 55       | 28           | 30  |             |          |         |     | 3.52        |        | wt      |         | 3           |
| 4A294    | 2792535.2 6381363.1 | 6         | 35          | 130      | 42           | 48  |             |          |         |     | 9.73        |        | wt      |         | 1           |
| 4A295    | 2792322.9 6381405.5 | 26        | 70          | 90       | 8            | 34  |             |          |         |     | 20.38       |        | wt      |         | 3           |
| 4A296    | 2792499.8 6381483.4 | 38        | 155         | 100      | 10           | 48  |             |          |         |     | 13.78       |        | wt      |         | 3           |
| 4A297    | 2792485.0 6381622.1 | 24        | 60          | 35       | 20           | 44  |             |          |         |     | 21.80       |        | pa      |         | 3           |
| 4A298    | 2792452.5 6381701.8 | 30        | 100         | 80       | 12           | 42  |             |          |         |     | 16.70       |        | pa      |         | 3           |
| 4A299    | 2792411.1 6381787.5 | 32        | 85          | 220      | 12           | 44  |             |          |         |     | 20.63       |        | pa      |         | 1           |
| 4A300    | 2792452.5 6382091.7 | 12        | 90          | 90       | 4            | 16  |             |          |         |     | 7.59        |        | pa      |         | 0           |
| 4A301    | 2792727.2 6382517.0 | 8         | 25          | 250      | 10           | 18  |             |          |         |     | 17.74       |        | tm      |         | 3           |
| 4A302    | 2792933.9 6382632.2 | 5         | 115         | 75       | 5            | 10  |             |          |         |     | 2.49        |        | tm      |         | 1           |

| Ref. No. | Coordinates |           | Scarp     |             |          | Bottom |     | Scarp       |          | Runout |    | Toe Top |        | Slope angle |    | Geology | Seepage | Geo. Symbol |
|----------|-------------|-----------|-----------|-------------|----------|--------|-----|-------------|----------|--------|----|---------|--------|-------------|----|---------|---------|-------------|
|          |             |           | Height(m) | Distance(m) | Width(m) | RL     | RL  | Distance(m) | Width(m) | RL     | RL | Scarp   | Runout |             |    |         |         |             |
| 4A303    | 2793123.0   | 6382410.7 | 5         | 65          | 60       | 5      | 10  |             |          |        |    |         |        | 4.40        | lm |         | 3       |             |
| 4A304    | 2792877.8   | 6382103.5 | 10        | 60          | 35       | 40     | 50  |             |          |        |    |         |        | 9.46        | wt |         | 3       |             |
| 4A305    | 2792904.4   | 6382035.6 | 10        | 35          | 135      | 50     | 60  |             |          |        |    |         |        | 15.95       | wt |         | 3       |             |
| 4A306    | 2792795.1   | 6381923.3 | 32        | 165         | 190      | 40     | 72  |             | 225      | 85     | 35 | 70      | 10.98  | 9.34        | wt |         | 2       |             |
| 4A307    | 2792718.3   | 6382097.6 | 50        | 125         | 75       | 8      | 58  |             |          |        |    |         |        | 21.80       | pa |         | 3       |             |
| 4A308    | 2792632.7   | 6382065.1 | 18        | 55          | 40       | 10     | 28  |             |          |        |    |         |        | 18.12       | pa |         | 3       |             |
| 4A309    | 2792898.5   | 6381828.8 | 20        | 105         | 120      | 50     | 70  |             |          |        |    |         |        | 10.78       | wt |         | 3       |             |
| 4A310    | 2792978.2   | 6381825.9 | 23        | 95          | 160      | 60     | 83  |             |          |        |    |         |        | 13.61       | wt |         | 1       |             |
| 4A311    | 2793049.1   | 6381757.9 | 10        | 40          | 35       | 70     | 80  |             |          |        |    |         |        | 14.04       | wt |         | 0       |             |
| 4A312    | 2792896.1   | 6381536.4 | 42        | 100         | 150      | 30     | 72  |             | 175      | 100    | 20 | 70      | 22.78  | 16.55       | wt |         | 4       |             |
| 4A313    | 2792783.3   | 6381680.5 | 10        | 50          | 60       | 60     | 70  |             |          |        |    |         |        | 11.31       | wt |         | 1       |             |
| 4A314    | 2792722.7   | 6381536.4 | 30        | 90          | 110      | 30     | 60  |             |          |        |    |         |        | 18.43       | wt |         | 3       |             |
| 4A315    | 2792630.7   | 6381547.0 | 32        | 85          | 200      | 26     | 58  |             | 100      | 60     | 52 | 26      | 20.63  | 3.43        | wt |         | 4       |             |
| 4A316    | 2793016.3   | 6381313.5 | 8         | 25          | 50       | 20     | 28  |             |          |        |    |         |        | 17.74       | wt |         | 0       |             |
| 4A317    | 2793044.6   | 6381115.4 | 20        | 120         | 160      | 44     | 64  |             |          |        |    |         |        | 9.46        | wt |         | 1       |             |
| 4A318    | 2793169.4   | 6380881.9 | 12        | 85          | 75       | 48     | 60  |             |          |        |    |         |        | 8.04        | wt |         | 3       |             |
| 4A319    | 2793037.6   | 6380835.6 | 20        | 90          | 65       | 40     | 60  |             |          |        |    |         |        | 12.53       | wt |         | 3       |             |
| 4A320    | 2793058.8   | 6380789.9 | 12        | 125         | 55       | 50     | 62  |             |          |        |    |         |        | 5.48        | wt |         | 3       |             |
| 4A321    | 2792772.2   | 6380857.1 | 12        | 85          | 70       | 32     | 44  |             |          |        |    |         |        | 8.04        | wt |         | 1       |             |
| 4A322    | 2792694.4   | 6380775.8 | 5         | 30          | 45       | 38     | 43  |             | 90       | 25     | 34 | 40      | 9.46   | 5.71        | wt |         | 2       |             |
| 4A323    | 2792786.43  | 6380754.5 | 11        | 25          | 45       | 36     | 47  |             |          |        |    |         |        | 23.75       | wt |         | 3       |             |
| 4A324    | 2792910.2   | 6380574.1 | 50        | 245         | 135      | 58     | 108 |             | 255      | 85     | 58 | 88      | 11.53  | 11.09       | wt |         | 4       |             |
| 4A325    | 2793037.6   | 6380468.0 | 4         | 25          | 85       | 94     | 98  |             |          |        |    |         |        | 9.09        | wt |         | 1       |             |
| 4A326    | 2793083.6   | 6380432.6 | 4         | 15          | 75       | 92     | 96  |             | 165      | 40     | 48 | 86      | 14.93  | 16.22       | wt |         | 2       |             |
| 4A327    | 2792998.7   | 6380422.0 | 50        | 100         | 175      | 60     | 110 |             | 70       | 75     | 62 | 88      | 26.57  | 34.44       | wt |         | 4       |             |
| 4A328    | 2792867.8   | 6380340.6 | 28        | 70          | 230      | 88     | 116 |             | 85       | 40     | 84 | 108     | 21.80  | 20.63       | wt |         | 2       |             |
| 4A329    | 2792825.3   | 6380400.8 | 12        | 45          | 55       | 64     | 76  |             |          |        |    |         |        | 14.93       | wt |         | 3       |             |
| 4A330    | 2792676.7   | 6380184.9 | 42        | 132.5       | 155      | 80     | 122 |             |          |        |    |         |        | 17.59       | wt |         | 3       |             |
| 4A331    | 2792952.7   | 6380262.8 | 28        | 70          | 55       | 84     | 112 |             |          |        |    |         |        | 21.80       | wt |         | 3       |             |
| 4A332    | 2792853.6   | 6380245.1 | 42        | 105         | 110      | 74     | 116 |             | 90       | 25     | 78 | 109     | 21.80  | 22.89       | wt |         | 3       |             |
| 4A333    | 2792998.7   | 6380202.6 | 28        | 85          | 80       | 50     | 78  |             |          |        |    |         |        | 18.23       | wt |         | 1       |             |
| 4A334    | 2792871.3   | 6380163.7 | 50        | 190         | 170      | 44     | 94  |             | 250      | 200    | 32 | 86      | 14.74  | 13.93       | wt |         | 4       |             |
| 4A335    | 2792719.2   | 6380100.0 | 46        | 150         | 165      | 76     | 122 |             | 130      | 120    | 86 | 110     | 17.05  | 15.48       | wt |         | 4       |             |
| 4A336    | 2792620.1   | 6380110.6 | 16        | 62.5        | 50       | 66     | 82  |             |          |        |    |         |        | 14.36       | wt |         | 3       |             |
| 4A337    | 2792713.7   | 6379928.5 | 16        | 40          | 140      | 88     | 104 |             |          |        |    |         |        | 21.80       | wt |         | 3       |             |
| 4A338    | 2792792.8   | 6379917.6 | 46        | 150         | 165      | 40     | 86  |             | 140      | 50     | 42 | 76      | 17.05  | 17.45       | wt |         | 4       |             |
| 4A339    | 2792999.9   | 6379933.9 | 12        | 75          | 75       | 36     | 48  |             |          |        |    |         |        | 9.09        | wt |         | 1       |             |
| 4A340    | 2792929.0   | 6379961.2 | 34        | 90          | 80       | 48     | 82  |             |          |        |    |         |        | 20.70       | wt |         | 1       |             |
| 4A341    | 2793010.8   | 6379865.8 | 9         | 25          | 50       | 38     | 47  |             |          |        |    |         |        | 19.80       | wt |         | 0       |             |
| 4A342    | 2792994.4   | 6379770.4 | 22        | 75          | 140      | 48     | 70  |             |          |        |    |         |        | 16.35       | wt |         | 1       |             |
| 4A343    | 2792915.4   | 6379579.6 | 22        | 20          | 40       | 68     | 90  |             | 65       | 20     | 50 | 68      | 47.73  | 31.61       | wt |         | 4       |             |
| 4A344    | 2792983.5   | 6379525.1 | 12        | 30          | 55       | 60     | 72  |             |          |        |    |         |        | 21.80       | wt |         | 3       |             |
| 4A345    | 2792874.5   | 6379500.6 | 16        | 30          | 70       | 76     | 92  |             | 65       | 60     | 68 | 78      | 28.07  | 20.27       | wt |         | 4       |             |
| 4A346    | 2792724.6   | 6379462.4 | 14        | 85          | 45       | 84     | 98  |             |          |        |    |         |        | 9.35        | wt |         | 3       |             |
| 4A347    | 2792702.8   | 6379732.2 | 78        | 170         | 250      | 42     | 120 |             | 210      | 250    | 40 | 104     | 24.65  | 20.85       | wt |         | 4       |             |
| 4B001    | 2788790.7   | 6379252.0 | 6         | 35          | 55       | 44     | 50  |             |          |        |    |         |        | 9.73        | wt |         | 3       |             |
| 4B002    | 2788722.5   | 6379064.5 | 10        | 35          | 70       | 38     | 48  |             |          |        |    |         |        | 15.95       | wt |         | 3       |             |
| 4B003    | 2788893.0   | 6379036.1 | 10        | 50          | 90       | 44     | 54  |             |          |        |    |         |        | 11.31       | wt |         | 3       |             |
| 4B004    | 2789040.7   | 6379257.7 | 56        | 150         | 130      | 12     | 68  |             | 140      | 30     | 18 | 44      | 20.47  | 19.65       | wt |         | 4       |             |
| 4B005    | 2789052.1   | 6379189.5 | 38        | 80          | 165      | 22     | 60  |             |          |        |    |         |        | 25.41       | wt |         | 3       |             |
| 4B006    | 2789063.4   | 6379058.8 | 10        | 35          | 125      | 68     | 78  |             |          |        |    |         |        | 15.95       | wt |         | 1       |             |
| 4B007    | 2789137.3   | 6379075.9 | 36        | 80          | 130      | 40     | 76  |             | 135      | 70     | 35 | 48      | 24.23  | 16.89       | wt |         | 4       |             |
| 4B008    | 2789148.7   | 6378985.0 | 54        | 155         | 140      | 24     | 78  |             | 160      | 65     | 24 | 64      | 19.21  | 18.65       | wt |         | 4       |             |
| 4B009    | 2789222.5   | 6378831.6 | 18        | 40          | 175      | 46     | 64  |             |          |        |    |         |        | 24.23       | wt |         | 1       |             |
| 4B010    | 2789273.7   | 6378644.1 | 16        | 80          | 100      | 50     | 66  |             | 80       | 40     | 52 | 64      | 11.31  | 9.93        | wt |         | 4       |             |
| 4B011    | 2789393.0   | 6378786.1 | 30        | 100         | 120      | 42     | 72  |             |          |        |    |         |        | 16.70       | wt |         | 3       |             |
| 4B012    | 2789506.6   | 6378780.4 | 14        | 60          | 80       | 46     | 60  |             |          |        |    |         |        | 13.13       | wt |         | 3       |             |
| 4B013    | 2789466.9   | 6378610.0 | 34        | 105         | 200      | 58     | 92  |             | 90       | 85     | 60 | 88      | 17.94  | 19.57       | wt |         | 4       |             |
| 4B014    | 2789495.3   | 6378445.2 | 36        | 125         | 175      | 58     | 94  |             | 190      | 160    | 44 | 90      | 16.07  | 14.74       | wt |         | 4       |             |
| 4B015    | 2789347.5   | 6378445.2 | 10        | 75          | 210      | 84     | 94  |             |          |        |    |         |        | 7.59        | wt |         | 1       |             |
| 4B016    | 2789049.4   | 6378536.1 | 12        | 60          | 75       | 82     | 94  |             |          |        |    |         |        | 11.31       | wt |         | 1       |             |
| 4B017    | 2788927.1   | 6378519.1 | 34        | 257.5       | 160      | 64     | 98  |             |          |        |    |         |        | 7.52        | wt |         | 3       |             |
| 4B018    | 2789035.0   | 6378450.9 | -3        | 15          | 105      | 98     | 95  |             |          |        |    |         |        | -11.31      | wt |         | 3       |             |
| 4B019    | 2788836.2   | 6378365.6 | 20        | 97.5        | 70       | 74     | 94  |             |          |        |    |         |        | 11.59       | wt |         | 1       |             |
| 4B020    | 2788802.1   | 6378280.4 | 24        | 65          | 90       | 74     | 98  |             |          |        |    |         |        | 20.27       | wt |         | 0       |             |
| 4B021    | 2788665.7   | 6378269.1 | 24        | 90          | 130      | 78     | 102 |             | 140      | 80     | 74 | 88      | 14.93  | 11.31       | wt |         | 4       |             |
| 4B022    | 2788705.5   | 6378144.1 | 12        | 90          | 150      | 90     | 102 |             |          |        |    |         |        | 7.59        | wt |         | 3       |             |
| 4B023    | 2788773.7   | 6377911.1 | 42        | 115         | 70       | 56     | 98  |             |          |        |    |         |        | 20.06       | wt |         | 3       |             |
| 4B024    | 2788853.2   | 6377825.9 | 26        | 75          | 135      | 98     | 124 |             | 225      | 100    | 64 | 120     | 19.12  | 14.93       | wt |         | 4       |             |
| 4B025    | 2788983.9   | 6377797.5 | 30        | 100         | 455      | 108    | 138 |             | 395      | 410    | 72 | 130     | 16.70  | 9.49        | wt |         | 4       |             |
| 4B026    | 2788966.6   | 6377911.1 | 50        | 180         | 110      | 82     | 132 |             | 180      | 75     | 82 | 120     | 15.52  | 15.52       | wt |         | 4       |             |
| 4B027    | 2789057.8   | 6377922.5 | 38        | 210         | 235      | 92     | 130 |             | 220      | 125    | 90 | 130     | 10.26  | 10.30       | wt |         | 4       |             |
| 4B028    | 2788955.5   | 6377519.0 | ?         | 100         | 110      | ?      | ?   |             | 130      | 60     | ?  | ?       | ?      | ?           | wt |         | 2       |             |
| 4B029    | 2789324.8   | 6377717.9 | 14        | 150         | 85       | 112    | 126 |             |          |        |    |         |        | 5.33        | wt |         | 0       |             |
| 4B030    | 2789131.6   | 6377502.0 | ?         | 160         | 65       | 92     | ?   |             | 225      | 100    | ?  | ?       | ?      | ?           | wt |         | 2       |             |
| 4B031    | 2789307.8   | 6378110.0 | 28        | 60          | 175      | 112    | 140 |             |          |        |    |         |        | 25.02       | wt |         | 3       |             |
| 4B032    | 2789421.4   | 6378036.1 | 52        | 150         | 175      | 88     | 140 |             | 175      | 80     | 88 | 126     | 19.12  | 16.55       | wt |         | 3       |             |
| 4B033    | 2789691.2   | 6379374.2 | 2         | 25          | 60       | 70     | 72  |             |          |        |    |         |        | 4.57        | wt |         | 1       |             |
| 4B034    | 2790178.4   | 6378933.4 | 2         | 20          | 145      | 94     | 96  |             |          |        |    |         |        | 5.71        | wt |         | 1       |             |
| 4B035    | 2789603.2   | 6377507.7 | 22        | 200         | 60       | 74     | 96  |             |          |        |    |         |        | 6.28        | wt |         | 0       |             |
| 4B036    | 2789597.5   | 6377695.2 | 56        | 140         | 250      | 64     | 120 |             |          |        |    |         |        | 21.80       | wt |         | 1       |             |
| 4B037    | 2789540.7   | 6377967.9 | 54        | 155         | 210      | 58     | 112 |             | 135      | 150    | 58 | 90      | 19.21  | 21.80       | wt |         | 4       |             |
| 4B038    | 2789808.9   | 6378127.0 | 50        | 115         | 130      | 48     | 98  |             | 100      | 75     | 54 | 98      | 23.50  | 23.75       | wt |         | 3       |             |
| 4B039    | 2789838.0   | 6378080.9 | 28        | 95          | 70       | 48     | 76  |             | 95       | 45     | 50 | 62      | 16.42  | 15.31       | wt |         | 4       |             |
| 4B040    | 2790018.9   | 6378113.4 | 46        | 245         | 175      | 68     | 114 |             |          |        |    |         |        | 10.63       | wt |         | 0       |             |
| 4B041    | 2789889.0   | 6377974.2 | 22        | 150         | 215      | 70     | 92  |             |          |        |    |         |        | 8.34        | wt |         | 0       |             |
| 4B042    | 2789893.6   | 6377593.8 | 24        | 100         | 140      | 92     | 116 |             |          |        |    |         |        | 13.50       | wt |         | 0       |             |

| Ref. No. | Coordinates |           | Height(m) | Scarp       |          |     | Bottom |             | Scarp RL | Runout   |     | Toe Top |       | Slope angle |    | Geology | Seepage | Geo. Symbol |
|----------|-------------|-----------|-----------|-------------|----------|-----|--------|-------------|----------|----------|-----|---------|-------|-------------|----|---------|---------|-------------|
|          |             |           |           | Distance(m) | Width(m) | RL  | RL     | Distance(m) |          | Width(m) | RL  | RL      | Scarp | Runout      |    |         |         |             |
| 4B043    | 2789889.0   | 6377519.5 | 34        | 105         | 45       | 76  | 110    |             |          |          |     |         |       |             | wt |         | 0       |             |
| 4B044    | 2790097.8   | 6377510.3 | 36        | 120         | 60       | 82  | 118    |             | 105      | 45       | 88  | 110     | 16.70 | 15.95       | wt |         | 2       |             |
| 4B045    | 2790046.8   | 6377635.5 | 6         | 20          | 115      | 114 | 120    |             |          |          |     |         | 16.70 |             | wt |         | 0       |             |
| 4B046    | 2790376.2   | 6377547.4 | 22        | 75          | 150      | 110 | 132    |             |          |          |     |         | 16.35 |             | wt |         | 0       |             |
| 4B047    | 2790608.1   | 6377496.3 | 35        | 230         | 290      | 99  | 134    |             | 220      | 150      | 110 | 130     | 8.65  | 6.23        | wt |         | 2       |             |
| 4B048    | 2790496.8   | 6377612.3 | 18        | 80          | 95       | 120 | 138    |             |          |          |     |         | 12.68 |             | wt |         | 0       |             |
| 4B049    | 2790770.5   | 6377589.1 | 48        | 130         | 60       | 102 | 150    |             |          |          |     |         | 20.27 |             | wt |         | 0       |             |
| 4B050    | 2790826.2   | 6377700.5 | 40        | 100         | 115      | 98  | 138    |             |          |          |     |         | 21.80 |             | wt |         | 0       |             |
| 4B051    | 2790914.4   | 6377825.8 | 20        | 40          | 70       | 80  | 100    |             |          |          |     |         | 26.57 |             | wt |         | 0       |             |
| 4B052    | 2790770.5   | 6377853.6 | 48        | 155         | 180      | 88  | 136    |             | 150      | 70       | 92  | 122     | 17.21 | 16.35       | wt |         | 2       |             |
| 4B053    | 2790040.0   | 6377909.3 | 18        | 50          | 85       | 88  | 106    |             |          |          |     |         | 19.80 |             | wt |         | 0       |             |
| 4B054    | 2790283.4   | 6378034.5 | 34        | 75          | 135      | 86  | 120    |             | 145      | 100      | 68  | 108     | 24.39 | 19.73       | wt |         | 1       |             |
| 4B055    | 2790153.5   | 6377983.5 | 16        | 60          | 120      | 100 | 116    |             | 100      | 120      | 93  | 116     | 14.93 | 12.95       | wt |         | 2       |             |
| 4B056    | 2790213.8   | 6378136.6 | 36        | 135         | 65       | 64  | 100    |             |          |          |     |         | 14.93 |             | wt |         | 1       |             |
| 4B057    | 2790037.5   | 6378312.9 | 58        | 130         | 255      | 42  | 100    |             | 150      | 195      | 42  | 94      | 24.04 | 21.14       | wt |         | 4       |             |
| 4B058    | 2790371.5   | 6378456.7 | 14        | 75          | 150      | 92  | 106    |             |          |          |     |         | 10.57 |             | wt |         | 3       |             |
| 4B059    | 2790199.9   | 6378512.4 | 10        | 50          | 60       | 66  | 76     |             |          |          |     |         | 11.31 |             | wt |         | 0       |             |
| 4B060    | 2790408.6   | 6378628.4 | 13        | 85          | 85       | 104 | 117    |             |          |          |     |         | 8.70  |             | wt |         | 3       |             |
| 4B061    | 2790255.5   | 6378670.2 | 22        | 100         | 250      | 66  | 88     |             |          |          |     |         | 12.41 |             | wt |         | 1       |             |
| 4B062    | 2790018.9   | 6378772.2 | 14        | 55          | 130      | 80  | 94     |             |          |          |     |         | 14.28 |             | wt |         | 3       |             |
| 4B063    | 2789875.1   | 6378869.7 | 36        | 115         | 150      | 44  | 80     |             |          |          |     |         | 17.38 |             | wt |         | 1       |             |
| 4B064    | 2789759.1   | 6379004.2 | 36        | 180         | 155      | 36  | 72     |             | 205      | 60       | 34  | 58      | 11.31 | 10.50       | wt |         | 4       |             |
| 4B065    | 2789842.6   | 6379157.3 | 2         | 55          | 100      | 80  | 82     |             |          |          |     |         | 2.08  |             | wt |         | 1       |             |
| 4B066    | 2789656.5   | 6379281.4 | 32        | 270         | 160      | 52  | 84     |             |          |          |     |         | 6.76  |             | wt |         | 3       |             |
| 4B067    | 2789639.1   | 6379351.0 | 20        | 145         | 60       | 42  | 62     |             |          |          |     |         | 7.85  |             | wt |         | 1       |             |
| 4B068    | 2789749.2   | 6379322.0 | 34        | 150         | 110      | 42  | 76     |             |          |          |     |         | 12.77 |             | wt |         | 3       |             |
| 4B069    | 2789851.9   | 6379259.4 | 32        | 80          | 75       | 50  | 82     |             | 85       | 25       | 50  | 66      | 21.80 | 20.63       | wt |         | 2       |             |
| 4B070    | 2790023.6   | 6379161.9 | 14        | 80          | 65       | 68  | 82     |             |          |          |     |         | 9.93  |             | wt |         | 1       |             |
| 4B071    | 2790125.6   | 6379032.0 | 14        | 85          | 35       | 74  | 88     |             |          |          |     |         | 9.35  |             | wt |         | 3       |             |
| 4B072    | 2789972.5   | 6378971.7 | 18        | 120         | 80       | 76  | 94     |             |          |          |     |         | 8.53  |             | wt |         | 3       |             |
| 4B073    | 2790060.7   | 6378930.0 | 6         | 25          | 90       | 88  | 94     |             |          |          |     |         | 13.50 |             | wt |         | 1       |             |
| 4B074    | 2790325.1   | 6379022.8 | 20        | 85          | 160      | 94  | 114    |             |          |          |     |         | 13.24 |             | wt |         | 3       |             |
| 4B075    | 2790320.5   | 6378869.7 | 10        | 35          | 30       | 76  | 86     |             |          |          |     |         | 15.95 |             | wt |         | 0       |             |
| 4B076    | 2790366.9   | 6378874.3 | 12        | 40          | 20       | 76  | 88     |             |          |          |     |         | 16.70 |             | wt |         | 0       |             |
| 4B077    | 2790417.9   | 6378869.7 | 20        | 90          | 65       | 76  | 96     |             |          |          |     |         | 12.53 |             | wt |         | 3       |             |
| 4B078    | 2790417.9   | 6378818.6 | 6         | 20          | 45       | 80  | 86     |             |          |          |     |         | 16.70 |             | wt |         | 3       |             |
| 4B079    | 2790478.2   | 6378767.6 | 14        | 95          | 120      | 94  | 108    |             |          |          |     |         | 8.38  |             | wt |         | 1       |             |
| 4B080    | 2790622.1   | 6378667.0 | 12        | 95          | 135      | 100 | 112    |             |          |          |     |         | 7.20  |             | wt |         | 1       |             |
| 4B081    | 2790710.2   | 6378503.1 | 24        | 175         | 130      | 96  | 120    |             |          |          |     |         | 7.81  |             | wt |         | 3       |             |
| 4B082    | 2790622.1   | 6378424.3 | 36        | 165         | 220      | 86  | 122    |             | 110      | 150      | 90  | 116     | 12.31 | 16.22       | wt |         | 4       |             |
| 4B083    | 2790538.5   | 6378248.0 | 20        | 50          | 65       | 88  | 108    |             |          |          |     |         | 21.80 |             | wt |         | 0       |             |
| 4B084    | 2790581.7   | 6378192.3 | 14        | 60          | 60       | 102 | 116    |             |          |          |     |         | 13.13 |             | wt |         | 0       |             |
| 4B085    | 2790705.6   | 6378127.3 | 18        | 75          | 50       | 96  | 114    |             |          |          |     |         | 13.50 |             | wt |         | 0       |             |
| 4B086    | 2791123.1   | 6377932.5 | 9         | 170         | 165      | 82  | 91     |             |          |          |     |         | 3.03  |             | pa |         | 0       |             |
| 4B087    | 2791239.1   | 6378266.5 | 22        | 215         | 90       | 96  | 118    |             |          |          |     |         | 5.84  |             | pa |         | 3       |             |
| 4B088    | 2791109.2   | 6378308.3 | 32        | 90          | 100      | 80  | 112    |             | 90       | 90       | 82  | 102     | 19.57 | 18.43       | wt |         | 4       |             |
| 4B089    | 2791113.9   | 6378503.9 | 18        | 25          | 245      | 104 | 122    |             |          |          |     |         | 35.75 |             | wt |         | 0       |             |
| 4B090    | 2791206.6   | 6378595.9 | 8         | 120         | 270      | 108 | 116    |             |          |          |     |         | 3.81  |             | wt |         | 0       |             |
| 4B091    | 2790942.2   | 6378642.3 | 14        | 60          | 155      | 118 | 132    |             |          |          |     |         | 13.13 |             | wt |         | 3       |             |
| 4B092    | 2790835.5   | 6378656.2 | 44        | 150         | 200      | 82  | 126    |             | 175      | 130      | 92  | 118     | 16.35 | 10.99       | wt |         | 4       |             |
| 4B093    | 2790547.8   | 6379008.8 | 24        | 100         | 200      | 82  | 106    |             | 140      | 100      | 79  | 94      | 13.50 | 10.92       | wt |         | 4       |             |
| 4B094    | 2790714.9   | 6378986.6 | 4         | 30          | 55       | 74  | 78     |             |          |          |     |         | 7.59  |             | wt |         | 1       |             |
| 4B095    | 2790571.0   | 6379120.2 | 34        | 80          | 80       | 76  | 110    |             |          |          |     |         | 23.03 |             | wt |         | 3       |             |
| 4B096    | 2790431.8   | 6379073.8 | 34        | 150         | 200      | 98  | 132    |             |          |          |     |         | 12.77 |             | wt |         | 3       |             |
| 4B097    | 2790487.5   | 6379175.9 | 74        | 210         | 190      | 60  | 134    |             | 250      | 110      | 58  | 122     | 19.41 | 16.91       | wt |         | 4       |             |
| 4B098    | 2790691.7   | 6379134.1 | 8         | 25          | 60       | 62  | 70     |             |          |          |     |         | 17.74 |             | wt |         | 1       |             |
| 4B099    | 2790301.9   | 6379124.8 | 28        | 90          | 80       | 98  | 126    |             | 95       | 30       | 96  | 106     | 17.28 | 17.53       | wt |         | 4       |             |
| 4B100    | 2790237.0   | 6379161.9 | 21        | 100         | 50       | 100 | 121    |             |          |          |     |         | 11.86 |             | wt |         | 1       |             |
| 4B101    | 2790255.5   | 6379259.4 | 32        | 135         | 125      | 104 | 136    |             | 220      | 90       | 86  | 120     | 13.34 | 12.80       | wt |         | 4       |             |
| 4B102    | 2790371.5   | 6379264.0 | 82        | 230         | 95       | 52  | 134    |             |          |          |     |         | 19.62 |             | wt |         | 3       |             |
| 4B103    | 2790364.0   | 6379426.4 | 69        | 175         | 95       | 52  | 121    |             | 200      | 35       | 50  | 116     | 21.52 | 19.54       | wt |         | 4       |             |
| 4B104    | 2790784.4   | 6379268.7 | 24        | 65          | 150      | 80  | 104    |             |          |          |     |         | 20.27 |             | wt |         | 3       |             |
| 4B105    | 2790858.7   | 6379152.7 | 16        | 100         | 100      | 94  | 110    |             |          |          |     |         | 9.09  |             | wt |         | 1       |             |
| 4B106    | 2790970.0   | 6379101.6 | 18        | 135         | 180      | 98  | 116    |             | 140      | 145      | 98  | 112     | 7.59  | 7.33        | wt |         | 3       |             |
| 4B107    | 2790993.2   | 6378943.9 | 8         | 45          | 135      | 112 | 120    |             |          |          |     |         | 10.08 |             | wt |         | 1       |             |
| 4B108    | 2791127.8   | 6378800.1 | 14        | 122.5       | 60       | 90  | 104    |             |          |          |     |         | 6.52  |             | wt |         | 1       |             |
| 4B109    | 2791243.8   | 6378790.8 | 26        | 80          | 75       | 90  | 116    |             |          |          |     |         | 18.00 |             | wt |         | 3       |             |
| 4B110    | 2791331.9   | 6378781.5 | 9         | 40          | 30       | 108 | 117    |             |          |          |     |         | 12.68 |             | pa |         | 1       |             |
| 4B111    | 2791406.1   | 6378823.3 | 26        | 150         | 135      | 106 | 132    |             |          |          |     |         | 9.83  |             | pa |         | 3       |             |
| 4B112    | 2791498.9   | 6378739.7 | 28        | 60          | 115      | 102 | 130    |             | 75       | 75       | 102 | 124     | 25.02 | 20.47       | pa |         | 2       |             |
| 4B113    | 2791587.1   | 6378730.5 | 30        | 70          | 70       | 98  | 128    |             |          |          |     |         | 23.20 |             | pa |         | 1       |             |
| 4B114    | 2791624.2   | 6378665.5 | 20        | 50          | 100      | 132 | 152    |             |          |          |     |         | 21.80 |             | pa |         | 1       |             |
| 4B115    | 2791638.1   | 6378493.8 | 44        | 200         | 160      | 116 | 160    |             | 200      | 40       | 118 | 146     | 12.41 | 11.86       | pa |         | 2       |             |
| 4B116    | 2791563.9   | 6378415.0 | 24        | 90          | 75       | 132 | 156    |             |          |          |     |         | 14.93 |             | pa |         | 0       |             |
| 4B117    | 2791429.3   | 6378340.7 | 108       | 30          | 85       | 30  | 138    |             | 90       | 60       | 122 | 134     | 74.48 | 10.08       | pa |         | 2       |             |
| 4B118    | 2791536.1   | 6378312.9 | 22        | 110         | 160      | 138 | 160    |             | 135      | 50       | 139 | 152     | 11.31 | 8.84        | pa |         | 2       |             |
| 4B119    | 2791777.3   | 6378094.8 | 26        | 150         | 110      | 146 | 172    |             |          |          |     |         | 9.83  |             | pa |         | 0       |             |
| 4B120    | 2791670.6   | 6378029.9 | 56        | 255         | 175      | 110 | 166    |             |          |          |     |         | 12.39 |             | pa |         | 0       |             |
| 4B121    | 2791452.5   | 6377978.9 | 36        | 120         | 65       | 106 | 142    |             |          |          |     |         | 16.70 |             | pa |         | 0       |             |
| 4B122    | 2791554.6   | 6377830.4 | 52        | 150         | 160      | 102 | 154    |             |          |          |     |         | 19.12 |             | pa |         | 0       |             |
| 4B123    | 2791781.9   | 6377784.0 | 16        | 55          | 170      | 130 | 146    |             |          |          |     |         | 16.22 |             | pa |         | 0       |             |
| 4B124    | 2791953.6   | 6377932.5 | 8         | 60          | 85       | 154 | 162    |             |          |          |     |         | 7.59  |             | pa |         | 0       |             |
| 4B125    | 2792069.6   | 6377816.5 | ?         | 120         | 100      | ?   | ?      |             |          |          |     |         | ?     |             | pa |         | 0       |             |
| 4B126    | 2791916.5   | 6378043.8 | 30        | 100         | 85       | 144 | 174    |             |          |          |     |         | 16.70 |             | pa |         | 0       |             |
| 4B127    | 2791921.1   | 6378271.2 | 26        | 70          | 40       | 126 | 152    |             |          |          |     |         | 20.38 |             | pa |         | 1       |             |
| 4B128    | 2791907.2   | 6378326.8 | 24        | 75          | 55       | 122 | 146    |             |          |          |     |         | 17.74 |             | pa |         | 1       |             |
| 4B129    | 2791777.3   | 6378415.0 | 44        | 200         | 225      | 122 | 166    |             |          |          |     |         | 12.41 |             | pa |         | 0       |             |

| Ref. No. | Coordinates | Scarp     |             |          | Bottom Scarp |     | Runout      |          | Toe Top |    | Slope angle |        | Geology | Seepage | Geo. Symbol |
|----------|-------------|-----------|-------------|----------|--------------|-----|-------------|----------|---------|----|-------------|--------|---------|---------|-------------|
|          |             | Height(m) | Distance(m) | Width(m) | RL           | RL  | Distance(m) | Width(m) | RL      | RL | Scarp       | Runout |         |         |             |
| 4B130    | 2792000.0   | 6378637.7 | 22          | 210      | 240          | 116 | 138         |          |         |    |             | 5.98   |         | pa      | 0           |
| 4B131    | 279188.70   | 6378540.2 | 14          | 40       | 40           | 116 | 130         |          |         |    |             | 19.29  |         | pa      | 1           |
| 4B132    | 2791884.0   | 6378582.0 | 28          | 45       | 40           | 100 | 128         |          |         |    |             | 31.89  |         | pa      | 1           |
| 4B133    | 2791689.2   | 6378637.7 | 38          | 95       | 200          | 112 | 150         |          |         |    |             | 21.80  |         | pa      | 0           |
| 4B134    | 2791851.5   | 6378684.1 | 28          | 50       | 45           | 114 | 142         |          |         |    |             | 29.25  |         | pa      | 0           |
| 4B135    | 2791962.9   | 6378823.3 | 34          | 115      | 210          | 102 | 136         |          |         |    |             | 16.47  |         | pa      | 1           |
| 4B136    | 2791554.6   | 6378939.2 | 36          | 150      | 170          | 80  | 116         | 105      | 40      | 82 | 100         | 13.50  | 17.94   | pa      | 4           |
| 4B137    | 2791661.3   | 6379013.5 | 16          | 27.5     | 50           | 98  | 114         |          |         |    |             | 30.19  |         | pa      | 3           |
| 4B138    | 2791610.3   | 6379087.7 | 26          | 150      | 70           | 78  | 104         |          |         |    |             | 9.83   |         | pa      | 3           |
| 4B139    | 2791410.8   | 6379069.2 | 36          | 155      | 100          | 94  | 130         |          |         |    |             | 13.08  |         | wt      | 3           |
| 4B140    | 2791099.9   | 6379032.0 | 26          | 70       | 65           | 86  | 112         |          |         |    |             | 20.38  |         | wt      | 3           |
| 4B141    | 2791104.6   | 6379120.2 | 36          | 80       | 85           | 74  | 110         | 80       | 35      | 72 | 98          | 24.23  | 25.41   | wt      | 4           |
| 4B142    | 2791099.9   | 6379199.1 | 32          | 85       | 25           | 66  | 98          |          |         |    |             | 20.63  |         | wt      | 1           |
| 4B143    | 2791044.3   | 6379185.1 | 24          | 75       | 60           | 80  | 104         |          |         |    |             | 17.74  |         | wt      | 1           |
| 4B144    | 2791048.9   | 6379222.3 | 36          | 85       | 50           | 62  | 98          |          |         |    |             | 22.95  |         | wt      | 1           |
| 4B145    | 2791016.4   | 6379245.5 | 34          | 90       | 40           | 60  | 94          |          |         |    |             | 20.70  |         | wt      | 1           |
| 4B146    | 2791025.7   | 6379268.7 | 20          | 60       | 40           | 56  | 76          |          |         |    |             | 18.43  |         | wt      | 1           |
| 4B147    | 2791164.3   | 6379426.4 | 12          | 80       | 80           | 64  | 76          |          |         |    |             | 8.53   |         | wt      | 1           |
| 4B148    | 2791233.9   | 6379316.2 | 5           | 45       | 75           | 80  | 85          |          |         |    |             | 6.34   |         | wt      | 1           |
| 4B149    | 2791373.1   | 6379397.4 | 14          | 50       | 95           | 90  | 104         |          |         |    |             | 15.64  |         | wt      | 1           |
| 4B150    | 2791332.5   | 6379356.8 | 12          | 55       | 80           | 94  | 106         |          |         |    |             | 12.31  |         | wt      | 1           |
| 4B151    | 2791475.7   | 6379254.7 | 14          | 90       | 45           | 98  | 112         |          |         |    |             | 8.84   |         | wt      | 3           |
| 4B152    | 2791634.1   | 6379403.2 | 22          | 65       | 80           | 106 | 128         |          |         |    |             | 18.70  |         | wt      | 1           |
| 4B153    | 2791508.2   | 6379213.0 | 38          | 175      | 230          | 98  | 136         | 225      | 325     | 82 | 120         | 12.25  | 13.50   | pa      | 1           |
| 4B154    | 2791610.3   | 6379161.9 | 50          | 225      | 365          | 86  | 136         |          |         |    |             | 12.53  |         | pa      | 2           |
| 4B155    | 2792399.0   | 6379273.3 | 14          | 50       | 65           | 88  | 102         |          |         |    |             | 15.64  |         | pa      | 3           |
| 4B156    | 2792283.8   | 6377866.3 | ?           | 185      | 90           | ?   | ?           |          |         |    |             | ?      |         | pa      | 1           |
| 4B157    | 2791518.1   | 6379403.2 | 20          | 62.5     | 160          | 110 | 130         |          |         |    |             | 17.74  |         | pa      | 3           |
| 4B158    | 2791802.2   | 6379432.2 | 70          | 215      | 150          | 64  | 134         | 200      | 85      | 64 | 114         | 18.03  | 19.29   | pa      | 4           |
| 4B159    | 2792005.2   | 6379414.8 | 18          | 85       | 110          | 64  | 82          |          |         |    |             | 11.96  |         | pa      | 3           |
| 4B160    | 2792083.5   | 6379259.4 | 22          | 95       | 210          | 80  | 102         |          |         |    |             | 13.04  |         | pa      | 3           |
| 4B161    | 2791851.5   | 6379180.5 | 12          | 55       | 80           | 68  | 80          | 85       | 25      | 66 | 78          | 12.31  | 9.35    | pa      | 2           |
| 4B162    | 2792074.2   | 6379008.8 | ?           | 150      | 150          | 86  | ?           | 150      | 110     | ?  | ?           | ?      | ?       | pa      | 4           |
| 4B163    | 2792218.1   | 6379250.1 | 10          | 60       | 165          | 94  | 104         |          |         |    |             | 9.46   |         | pa      | 3           |
| 4B164    | 2792277.8   | 6379356.8 | 20          | 170      | 200          | 86  | 106         |          |         |    |             | 6.71   |         | pa      | 3           |
| 4B165    | 2792515.0   | 6379259.4 | 20          | 140      | 120          | 108 | 128         |          |         |    |             | 8.13   |         | pa      | 3           |
| 4B166    | 2792477.9   | 6379175.9 | 38          | 100      | 165          | 112 | 150         |          |         |    |             | 20.81  |         | pa      | 1           |
| 4B167    | 2797714.5   | 6379041.3 | ?           | 135      | 95           | ?   | 180         |          |         |    |             | ?      |         | pa      | 0           |
| 4B168    | 2792668.1   | 6379129.5 | 42          | 115      | 90           | 136 | 178         |          |         |    |             | 20.06  |         | pa      | 1           |
| 4B169    | 2792498.2   | 6379235.0 | 34          | 150      | 85           | 100 | 134         |          |         |    |             | 12.77  |         | pa      | 3           |
| 4B170    | 2792596.8   | 6379211.8 | 28          | 90       | 45           | 100 | 128         |          |         |    |             | 17.28  |         | pa      | 1           |
| 4B171    | 2792776.6   | 6379165.4 | 66          | 160      | 65           | 88  | 154         |          |         |    |             | 22.42  |         | pa      | 1           |
| 4B172    | 2792857.7   | 6379090.0 | 56          | 140      | 50           | 86  | 142         |          |         |    |             | 21.80  |         | pa      | 1           |
| 4B173    | 2793002.7   | 6379345.2 | ?           | 60       | 85           | ?   | ?           |          |         |    |             | ?      |         | pa      | 3           |
| 4B174    | 2793060.7   | 6379194.4 | ?           | 55       | 70           | 94  | ?           |          |         |    |             | ?      |         | pa      | 3           |
| 4B175    | 2793066.5   | 6379095.8 | ?           | 50       | 40           | ?   | ?           |          |         |    |             | ?      |         | pa      | 3           |
| 4B176    | 2791406.1   | 6378823.3 | 18          | 80       | 62.5         | 108 | 126         |          |         |    |             | 12.68  |         | pa      | 1           |
| 4B177    | 2791016.4   | 6379245.5 | 58          | 135      | 300          | 56  | 114         |          |         |    |             | 23.25  |         | wt      | 0           |
| 4B178    | 2792083.5   | 6379259.4 | 12          | 35       | 62.5         | 76  | 88          |          |         |    |             | 18.92  |         | pa      | 3           |
| 4B179    | 2792218.1   | 6379250.1 | 16          | 25       | 65           | 80  | 96          |          |         |    |             | 32.62  |         | pa      | 3           |
| 5A001    | 2785007.0   | 6385886.8 | 20          | 60       | 220          | 4   | 24          |          |         |    |             | 18.43  |         | tm      | 3           |
| 5A002    | 2785266.7   | 6386036.2 | 24          | 40       | 105          | 4   | 28          |          |         |    |             | 30.96  |         | tm      | 3           |
| 5A003    | 2785117.4   | 6386120.6 | 19          | 145      | 205          | 2   | 21          |          |         |    |             | 7.47   |         | tm      | 1           |
| 5A004    | 2784896.6   | 6386088.1 | 9           | 65       | 75           | 4   | 13          |          |         |    |             | 7.88   |         | tm      | Yes         |
| 5A005    | 2784805.6   | 6385938.7 | 3           | 60       | 60           | 26  | 29          |          |         |    |             | 2.86   |         | tm      | 1           |
| 5A006    | 2784734.2   | 6386120.6 | 10          | 100      | 245          | 18  | 28          | 110      | 40      | 18 | 22          | 5.71   | 5.19    | tm      | 4           |
| 5A007    | 2784825.1   | 6386224.5 | 20          | 55       | 145          | 6   | 26          |          |         |    |             | 19.98  |         | tm      | Yes         |
| 5A008    | 2784922.5   | 6386399.9 | 22          | 45       | 190          | 4   | 26          |          |         |    |             | 26.05  |         | tm      | 3           |
| 5A009    | 2784903.1   | 6386503.8 | 10          | 95       | 155          | 18  | 28          |          |         |    |             | 6.01   |         | tm      | 1           |
| 5A010    | 2784929.0   | 6386575.2 | 6           | 60       | 45           | 20  | 26          |          |         |    |             | 5.71   |         | tm      | 3           |
| 5A011    | 2784825.1   | 6386549.2 | 7           | 60       | 50           | 16  | 23          |          |         |    |             | 6.65   |         | tm      | 1           |
| 5A012    | 2784714.7   | 6386692.1 | 7           | 30       | 165          | 6   | 13          |          |         |    |             | 13.13  |         | tm      | 3           |
| 5A013    | 2784977.8   | 6387806.1 | 16          | 30       | 30           | 2   | 18          |          |         |    |             | 28.07  |         | tm      | 0           |
| 5A014    | 2784962.6   | 6387775.8 | 14          | 30       | 35           | 2   | 16          |          |         |    |             | 25.02  |         | tm      | 0           |
| 5A015    | 2784920.9   | 6387669.6 | 18          | 10       | 40           | 2   | 20          | 60       | 35      | 0  | 18          | 60.95  | 18.43   | tm      | 2           |
| 5A016    | 2785068.8   | 6387472.4 | 16          | 20       | 110          | 2   | 18          |          |         |    |             | 38.66  |         | tm      | 0           |
| 5A017    | 2785159.8   | 6387472.4 | 16          | 20       | 70           | 2   | 18          |          |         |    |             | 38.66  |         | tm      | 0           |
| 5A018    | 2785273.6   | 6387419.3 | 16          | 25       | 95           | 2   | 18          |          |         |    |             | 32.62  |         | tm      | 0           |
| 5A019    | 2785398.7   | 6387495.1 | 10          | 35       | 70           | 4   | 14          |          |         |    |             | 15.95  |         | tm      | 3           |
| 5A020    | 2785459.4   | 6387525.5 | 12          | 60       | 120          | 4   | 16          |          |         |    |             | 11.31  |         | tm      | 3           |
| 5A021    | 2785736.2   | 6388045.0 | 6           | 100      | 100          | 4   | 10          |          |         |    |             | 3.43   |         | tm      | 1           |
| 5A022    | 2785857.6   | 6388136.1 | 4           | 55       | 115          | 4   | 8           |          |         |    |             | 4.16   |         | tm      | 1           |
| 5A023    | 2785952.4   | 6387696.1 | 10          | 20       | 150          | 4   | 14          |          |         |    |             | 26.57  |         | tm      | Yes         |
| 5A024    | 2786024.5   | 6387813.7 | 3           | 30       | 120          | 6   | 9           |          |         |    |             | 5.71   |         | tm      | 1           |
| 5A025    | 2786085.1   | 6387995.7 | 6           | 50       | 230          | 10  | 16          |          |         |    |             | 6.84   |         | tm      | 1           |
| 5A026    | 2786316.5   | 6388075.4 | 16          | 80       | 260          | 4   | 20          | 90       | 100     | 2  | 10          | 11.31  | 11.31   | tm      | Yes         |
| 5A027    | 2786525.1   | 6387813.7 | 6           | 25       | 90           | 4   | 10          |          |         |    |             | 13.50  |         | tm      | 1           |
| 5A028    | 2786638.8   | 6387946.4 | 6           | 25       | 135          | 4   | 10          |          |         |    |             | 13.50  |         | tm      | 1           |
| 5A029    | 2786930.2   | 6387892.1 | 10          | 85       | 115          | 12  | 22          |          |         |    |             | 6.71   |         | tm      | 1           |
| 5A030    | 2786650.1   | 6387724.7 | 12          | 65       | 100          | 2   | 14          |          |         |    |             | 10.46  |         | tm      | 3           |
| 5A031    | 2786783.0   | 6387658.2 | 32          | 150      | 140          | 8   | 40          | 140      | 100     | 12 | 28          | 12.04  | 11.31   | tm      | 4           |
| 5A032    | 2786930.2   | 6387519.8 | 10          | 40       | 55           | 34  | 44          |          |         |    |             | 14.04  |         | tm      | 3           |
| 5A033    | 2786959.2   | 6387442.5 | 12          | 35       | 100          | 32  | 44          | 175      | 75      | 4  | 30          | 18.92  | 12.88   | tm      | 4           |
| 5A034    | 2786828.5   | 6387252.4 | 38          | 175      | 265          | 4   | 42          | 155      | 65      | 4  | 24          | 12.25  | 13.78   | tm      | 2           |
| 5A035    | 2786805.7   | 3869886.9 | 40          | 160      | 300          | 6   | 46          |          |         |    |             | 14.04  |         | tr      | Yes         |
| 5A036    | 2786490.2   | 6386963.8 | 12          | 40       | 35           | 4   | 16          |          |         |    |             | 16.70  |         | tm      | 3           |
| 5A037    | 2786369.6   | 6387047.6 | 10          | 105      | 45           | 6   | 16          |          |         |    |             | 5.44   |         | tm      | Yes         |

| Ref. No. | Coordinates | Height(m) | Scarp       |          |     | Bottom |    | Runout      |          | Toe Top |    | Slope angle |        | Geology | Seepage | Geo. Symbol |
|----------|-------------|-----------|-------------|----------|-----|--------|----|-------------|----------|---------|----|-------------|--------|---------|---------|-------------|
|          |             |           | Distance(m) | Width(m) |     | RL     | RL | Distance(m) | Width(m) | RL      | RL | Scarp       | Runout |         |         |             |
| 5A038    | 2786388.5   | 6387131.1 | 10          | 45       | 75  | 4      | 14 |             |          |         |    |             | 12.53  | tm      |         | 3           |
| 5A039    | 2786210.3   | 6387203.1 | 8           | 20       | 45  | 6      | 14 |             |          |         |    |             | 21.80  | tm      |         | 1           |
| 5A040    | 2786088.9   | 6387153.8 | 17          | 30       | 45  | 4      | 21 |             |          |         |    |             | 29.54  | tm      | Swamp   | 1           |
| 5A041    | 2785990.3   | 6387051.4 | 16          | 40       | 90  | 4      | 20 |             |          |         |    |             | 21.80  | tm      |         | 3           |
| 5A042    | 2785837.5   | 6386930.0 | 18          | 50       | 165 | 4      | 22 |             |          |         |    |             | 19.80  | tm      |         | 3           |
| 5A043    | 2785736.0   | 6386876.8 | 20          | 55       | 85  | 6      | 26 | 75          | 40       | 4       | 12 | 19.98       | 16.35  | tm      |         | 4           |
| 5A044    | 2785566.8   | 6386664.0 | 14          | 30       | 50  | 8      | 22 |             |          |         |    |             | 25.02  | tm      |         | 3           |
| 5A045    | 2785561.9   | 6386610.9 | 14          | 25       | 55  | 4      | 18 |             |          |         |    |             | 29.25  | tm      |         | 3           |
| 5A046    | 2785760.2   | 6386644.7 | 20          | 100      | 130 | 14     | 34 |             |          |         |    |             | 11.31  | tm      | Yes     | 3           |
| 5A047    | 2785760.2   | 6386485.1 | 14          | 70       | 60  | 16     | 30 |             |          |         |    |             | 11.31  | tm      |         | 1           |
| 5A048    | 2785789.2   | 6386470.6 | 14          | 45       | 45  | 32     | 46 |             |          |         |    |             | 17.28  | tm      |         | 1           |
| 5A049    | 2785818.2   | 6386462.0 | 16          | 80       | 90  | 34     | 50 |             |          |         |    |             | 11.31  | tm      |         | 1           |
| 5A050    | 2785905.2   | 6386398.1 | 12          | 72.5     | 100 | 38     | 50 |             |          |         |    |             | 9.40   | tm      |         | 1           |
| 5A051    | 2785765.0   | 6386422.3 | 34          | 135      | 100 | 4      | 38 |             |          |         |    |             | 14.14  | tm      |         | 3           |
| 5A052    | 2785871.4   | 6386340.1 | 46          | 250      | 160 | 4      | 50 | 220         | 250      | 8       | 26 | 10.43       | 10.81  | tm      | Yes     | 4           |
| 5A053    | 2785871.4   | 6386127.4 | 34          | 170      | 155 | 4      | 38 |             |          |         |    |             | 11.31  | tm      | Yes     | 3           |
| 5A054    | 2785988.1   | 6386083.8 | 14          | 75       | 60  | 22     | 36 |             |          |         |    |             | 10.57  | tm      |         | 1           |
| 5A055    | 2785837.5   | 6385992.0 | 12          | 40       | 55  | 10     | 22 | 85          | 45       | 4       | 14 | 16.70       | 11.96  | tm      |         | 2           |
| 5A056    | 2786050.3   | 6385967.8 | 14          | 105      | 50  | 16     | 30 |             |          |         |    |             | 7.59   | tm      |         | 3           |
| 5A057    | 2786016.4   | 6385881.4 | ?           | ?        | 250 | ?      | ?  | ?           | 40       | 16      | 30 |             |        | tm      |         | 4           |
| 5A058    | 2786021.3   | 6386330.4 | 14          | 75       | 70  | 36     | 50 |             |          |         |    |             | 10.57  | tm      |         | 1           |
| 5A059    | 2786035.8   | 6386199.9 | 18          | 55       | 140 | 34     | 52 | 185         | 135      | 20      | 38 | 18.12       | 9.81   | tm      |         | 4           |
| 5A060    | 2786113.1   | 6386132.2 | 7           | 70       | 45  | 16     | 23 |             |          |         |    |             | 5.71   | tm      |         | 3           |
| 5A061    | 2786234.0   | 6385934.0 | 8           | 80       | 90  | 22     | 30 |             |          |         |    |             | 5.71   | tm      |         | 1           |
| 5A062    | 2786408.1   | 6385861.4 | 22          | 85       | 305 | 32     | 54 |             |          |         |    |             | 14.51  | tm      |         | 1           |
| 5A063    | 2786606.3   | 6386233.7 | 26          | 135      | 205 | 26     | 52 |             |          |         |    |             | 10.90  | tr      |         | 1           |
| 5A064    | 2786398.4   | 6386253.1 | 6           | 25       | 150 | 24     | 30 |             |          |         |    |             | 13.50  | tr      |         | 1           |
| 5A065    | 2786543.4   | 6386480.3 | 30          | 125      | 250 | 20     | 50 | 165         | 50       | 20      | 24 | 13.50       | 10.30  | tr      |         | 2           |
| 5A066    | 2786316.2   | 6386509.3 | 11          | 50       | 80  | 12     | 23 |             |          |         |    |             | 12.41  | tr      |         | 3           |
| 5A067    | 2786282.3   | 6386635.0 | 12          | 40       | 100 | 12     | 24 |             |          |         |    |             | 16.70  | tr      |         | 1           |
| 5A068    | 2786321.0   | 6386741.4 | 12          | 70       | 75  | 10     | 22 |             |          |         |    |             | 9.73   | tr      | Yes     | 3           |
| 5A069    | 2786562.8   | 6386606.0 | 24          | 50       | 65  | 24     | 48 |             |          |         |    |             | 25.64  | tr      |         | 3           |
| 5A070    | 2786519.3   | 6386712.4 | 8           | 45       | 45  | 18     | 26 |             |          |         |    |             | 10.08  | tr      |         | 3           |
| 5A071    | 2786620.8   | 6386654.4 | 26          | 90       | 110 | 22     | 48 |             |          |         |    |             | 16.11  | tr      |         | 1           |
| 5A072    | 2786664.3   | 6386775.3 | 22          | 55       | 80  | 26     | 48 |             |          |         |    |             | 21.80  | tr      |         | 3           |
| 5A073    | 2786891.6   | 6386712.4 | 20          | 165      | 215 | 20     | 40 |             |          |         |    |             | 6.91   | tr      |         | 3           |
| 5A074    | 2787051.1   | 6386905.8 | 24          | 100      | 150 | 18     | 42 |             |          |         |    |             | 13.50  | tr      |         | 3           |
| 5A075    | 2787147.8   | 387007.38 | 24          | 75       | 90  | 18     | 42 |             |          |         |    |             | 17.74  | tr      | Yes     | 3           |
| 5A076    | 2787234.8   | 6387104.0 | 22          | 70       | 65  | 16     | 38 | 75          | 30       | 16      | 26 | 17.45       | 16.35  | tr      |         | 4           |
| 5A077    | 2787225.2   | 6387210.4 | 30          | 165      | 80  | 12     | 42 |             |          |         |    |             | 10.30  | tr      |         | 3           |
| 5A078    | 2787404.1   | 6387050.8 | 12          | 25       | 90  | 12     | 24 | 70          | 60       | 8       | 14 | 25.64       | 12.88  | tr      |         | 2           |
| 5A079    | 2787399.2   | 6387152.4 | 14          | 30       | 55  | 10     | 24 | 55          | 40       | 8       | 16 | 25.02       | 16.22  | tm      |         | 4           |
| 5A080    | 2787505.6   | 6387181.4 | 12          | 15       | 60  | 10     | 22 | 45          | 25       | 8       | 16 | 38.66       | 17.28  | tm      |         | 4           |
| 5A081    | 2787428.2   | 6387336.1 | 20          | 150      | 75  | 12     | 32 |             |          |         |    |             | 7.59   | tr      | Yes     | 3           |
| 5A082    | 2787481.4   | 6387418.3 | 16          | 60       | 100 | 12     | 28 |             |          |         |    |             | 14.93  | tr      |         | 3           |
| 5A083    | 2787505.6   | 6387529.5 | 26          | 100      | 110 | 8      | 34 |             |          |         |    |             | 14.57  | tr      |         | 3           |
| 5A084    | 2787650.7   | 6387616.5 | 7           | 35       | 65  | 16     | 23 |             |          |         |    |             | 11.31  | tr      |         | 1           |
| 5A085    | 2787075.3   | 6387573.0 | 12          | 100      | 65  | 32     | 44 |             |          |         |    |             | 6.84   | tr      |         | 1           |
| 5A086    | 2787196.2   | 6387645.6 | 10          | 50       | 130 | 30     | 40 |             |          |         |    |             | 11.31  | tr      |         | 1           |
| 5A087    | 2787786.0   | 6387843.8 | 8           | 110      | 250 | 6      | 14 |             |          |         |    |             | 4.16   | tm      | Yes     | 3           |
| 5A088    | 2787483.6   | 6388084.5 | 6           | 30       | 135 | 8      | 14 |             |          |         |    |             | 11.31  | tm      |         | 3           |
| 5A089    | 2787960.1   | 6387882.5 | 8           | 80       | 65  | 6      | 14 |             |          |         |    |             | 5.71   | tm      |         | 1           |
| 5A090    | 2788105.1   | 6387592.4 | 8           | 35       | 130 | 4      | 12 |             |          |         |    |             | 12.88  | tm      | Yes     | 3           |
| 5A091    | 2787955.3   | 6387573.0 | 13          | 50       | 100 | 4      | 17 |             |          |         |    |             | 14.57  | tm      |         | 3           |
| 5A092    | 2787863.4   | 6387495.7 | 18          | 50       | 125 | 6      | 24 |             |          |         |    |             | 19.80  | tm      |         | 3           |
| 5A093    | 2787732.9   | 6387239.4 | 18          | 75       | 220 | 8      | 26 |             |          |         |    |             | 13.50  | tm      |         | 1           |
| 5A094    | 2787549.1   | 6386944.5 | 20          | 50       | 110 | 12     | 32 | 65          | 95       | 10      | 24 | 21.80       | 18.70  | tm      |         | 4           |
| 5A095    | 2787500.8   | 6386765.6 | 20          | 110      | 95  | 14     | 34 | 105         | 70       | 16      | 28 | 10.30       | 9.73   | tm      |         | 2           |
| 5A096    | 2787476.6   | 6386635.0 | 30          | 60       | 110 | 6      | 36 | 80          | 50       | 6       | 18 | 26.57       | 20.56  | tm      |         | 4           |
| 5A097    | 2787375.1   | 6386601.2 | 26          | 55       | 80  | 10     | 36 | 90          | 40       | 6       | 18 | 25.30       | 18.43  | tm      |         | 4           |
| 5A098    | 2787288.0   | 6386509.3 | 30          | 65       | 75  | 8      | 38 | 75          | 40       | 7       | 28 | 24.78       | 22.46  | tm      |         | 4           |
| 5A099    | 2787205.8   | 6386543.2 | 6           | 30       | 130 | 36     | 42 |             |          |         |    |             | 11.31  | tm      |         | 1           |
| 5A100    | 2787263.9   | 6386432.0 | 28          | 110      | 145 | 6      | 34 | 130         | 165      | 6       | 26 | 14.28       | 12.15  | tm      |         | 4           |
| 5A101    | 2787143.0   | 6386417.5 | 28          | 72.5     | 130 | 10     | 38 | 95          | 85       | 8       | 28 | 21.12       | 17.53  | tm      |         | 2           |
| 5A102    | 2786978.6   | 6386393.3 | 32          | 140      | 130 | 18     | 50 | 120         | 45       | 18      | 26 | 12.88       | 14.93  | tm      |         | 4           |
| 5A103    | 2786983.4   | 6386262.7 | 34          | 120      | 80  | 16     | 50 |             |          |         |    |             | 15.82  | tm      |         | 3           |
| 5A104    | 2786973.8   | 6386170.9 | 12          | 110      | 135 | 36     | 48 |             |          |         |    |             | 6.23   | tm      |         | 1           |
| 5A105    | 2787099.5   | 6386262.7 | 18          | 35       | 95  | 18     | 36 |             |          |         |    |             | 27.22  | tm      |         | 3           |
| 5A106    | 2787210.7   | 6386296.6 | 16          | 25       | 70  | 10     | 26 |             |          |         |    |             | 32.62  | tm      |         | 3           |
| 5A107    | 2787118.8   | 6386156.4 | 30          | 105      | 205 | 12     | 42 | 120         | 45       | 12      | 24 | 15.95       | 14.04  | tm      |         | 4           |
| 5A108    | 2786988.3   | 6385972.6 | 16          | 110      | 155 | 26     | 42 |             |          |         |    |             | 8.28   | tm      |         | 1           |
| 5A109    | 2786775.5   | 6385880.8 | 24          | 125      | 380 | 28     | 52 | 135         | 170      | 30      | 46 | 10.87       | 9.26   | tm      |         | 4           |
| 5A110    | 2787128.5   | 6385909.8 | 20          | 130      | 110 | 4      | 24 |             |          |         |    |             | 8.75   | tm      |         | 3           |
| 5A111    | 2787326.7   | 6386156.4 | 16          | 40       | 95  | 6      | 22 | 80          | 45       | 0       | 8  | 21.80       | 15.38  | tm      |         | 4           |
| 5A112    | 2787341.2   | 6386223.1 | 16          | 30       | 50  | 4      | 20 | 75          | 45       | 0       | 6  | 28.07       | 14.93  | tm      |         | 4           |
| 5A113    | 2787708.7   | 6386741.4 | 32          | 85       | 310 | 4      | 36 |             |          |         |    |             | 20.63  | tm      |         | 3           |
| 5A114    | 2787902.1   | 6386770.4 | 32          | 95       | 110 | 4      | 36 | 95          | 110      | 4       | 22 | 18.62       | 18.62  | tr      |         | 4           |
| 5A115    | 2787989.1   | 6386872.0 | 28          | 70       | 125 | 6      | 34 | 75          | 80       | 6       | 24 | 21.80       | 20.47  | tr      |         | 4           |
| 5A116    | 2788163.2   | 6386901.0 | 28          | 50       | 150 | 6      | 34 |             |          |         |    |             | 29.25  | tr      |         | 3           |
| 5A117    | 2788235.7   | 6386818.8 | 18          | 35       | 75  | 4      | 22 |             |          |         |    |             | 27.22  | tr      |         | 0           |
| 5A118    | 2788269.5   | 6386852.6 | 13          | 137.5    | 105 | 18     | 31 |             |          |         |    |             | 5.40   | tr      |         | 1           |
| 5A119    | 2788279.2   | 6386765.6 | 22          | 27.5     | 65  | 4      | 26 | 55          | 60       | 2       | 22 | 38.66       | 23.57  | tr      |         | 2           |
| 5A120    | 2788760.6   | 6387396.6 | 8           | 20       | 100 | 4      | 12 |             |          |         |    |             | 21.80  | tm      |         | 3           |
| 5A121    | 2788636.1   | 6387564.8 | 8           | 25       | 60  | 4      | 12 |             |          |         |    |             | 17.74  | tm      |         | 3           |
| 5A122    | 2788424.3   | 6387084.7 | 6           | 115      | 80  | 6      | 12 |             |          |         |    |             | 2.99   | tr      | Yes     | 1           |
| 5A123    | 2788153.5   | 6387094.4 | 22          | 105      | 100 | 10     | 32 |             |          |         |    |             | 11.83  | tr      | Yes     | 3           |
| 5A124    | 2788197.0   | 6387258.8 | 20          | 60       | 70  | 10     | 30 |             |          |         |    |             | 18.43  | tr      | Yes     | 3           |



| Ref. No. | Coordinates | Height(m) | Scarp       |          | Bottom |    | Scarp       |          | Runout |     | Toe         |          | Top |    | Slope angle |        | Geology | Seepage | Geo. Symbol |
|----------|-------------|-----------|-------------|----------|--------|----|-------------|----------|--------|-----|-------------|----------|-----|----|-------------|--------|---------|---------|-------------|
|          |             |           | Distance(m) | Width(m) | RL     | RL | Distance(m) | Width(m) | RL     | RL  | Distance(m) | Width(m) | RL  | RL | Scarp       | Runout |         |         |             |
| 5A125    | 2788095.5   | 6387355.5 | 14          | 100      | 210    | 16 | 30          |          |        |     |             |          |     |    | 7.97        |        | tr      |         | 1           |
| 5A126    | 2786388.5   | 6387131.1 | 12          | 35       | 75     | 6  | 18          |          |        |     |             |          |     |    | 18.92       |        | tm      | Yes     | 3           |
| 5B001    | 2789075.5   | 6383257.7 | ?           | 55       | 60     | ?  | ?           |          | 95     | 65  | ?           | ?        |     |    | ?           | ?      | tr      |         | 2           |
| 5B002    | 2788919.9   | 6383192.4 | 12          | 205      | 45     | 8  | 20          |          | 185    | 55  | 8           | 14       |     |    | 3.35        | 3.71   | tr      |         | 2           |
| 5B003    | 2788834.6   | 6383061.9 | 18          | 70       | 65     | 4  | 22          |          | 75     | 75  | 6           | 12       |     |    | 14.42       | 12.04  | tr      |         | 2           |
| 5B004    | 2788734.2   | 6382946.5 | 12          | 20       | 100    | 6  | 18          |          |        |     |             |          |     |    | 30.96       |        | tr      |         | 0           |
| 5B005    | 2788668.9   | 6382996.7 | 4           | 40       | 110    | 10 | 14          |          |        |     |             |          |     |    | 5.71        |        | tr      |         | 1           |
| 5B006    | 2788578.6   | 6382866.2 | 16          | 75       | 85     | 2  | 18          |          |        |     |             |          |     |    | 12.04       |        | tr      |         | 1           |
| 5B007    | 2788397.9   | 6382695.5 | 12          | 35       | 55     | 2  | 14          |          |        |     |             |          |     |    | 18.92       |        | tr      |         | 0           |
| 5B008    | 2788342.7   | 6382685.5 | 12          | 60       | 50     | 4  | 16          |          |        |     |             |          |     |    | 11.31       |        | tr      |         | 0           |
| 5B009    | 2788142.0   | 6383026.8 | 26          | 165      | 360    | 2  | 28          |          |        |     |             |          |     |    | 8.95        |        | tr      | Yes     | 3           |
| 5B010    | 2787865.9   | 6382956.5 | 23          | 50       | 90     | 2  | 25          |          |        |     |             |          |     |    | 24.70       |        | tr      | Yes     | 3           |
| 5B011    | 2787675.2   | 6383087.0 | 6           | 45       | 110    | 20 | 26          |          |        |     |             |          |     |    | 7.59        |        | tr      |         | 1           |
| 5B012    | 2787529.7   | 6382886.3 | 12          | 130      | 190    | 16 | 28          |          |        |     |             |          |     |    | 5.27        |        | tr      |         | 1           |
| 5B013    | 2787625.0   | 6382620.3 | 22          | 30       | 40     | 4  | 26          |          |        |     |             |          |     |    | 36.25       |        | tr      |         | 3           |
| 5B014    | 2787489.5   | 6382570.1 | 18          | 25       | 100    | 6  | 24          |          |        |     |             |          |     |    | 35.75       |        | tr      |         | 3           |
| 5B015    | 2787374.1   | 6382625.3 | 22          | 115      | 220    | 6  | 28          |          |        |     |             |          |     |    | 10.83       |        | tr      | Yes     | 3           |
| 5B016    | 2787193.4   | 6382565.1 | 12          | 32.5     | 50     | 12 | 24          |          |        |     |             |          |     |    | 20.27       |        | tr      |         | 3           |
| 5B017    | 2787133.2   | 6382514.9 | 8           | 20       | 70     | 16 | 24          |          |        |     |             |          |     |    | 21.80       |        | tr      |         | 3           |
| 5B018    | 2786267.1   | 6382517.0 | 12          | 70       | 75     | 18 | 30          |          |        |     |             |          |     |    | 9.73        |        | tr      |         | 1           |
| 5B019    | 2786298.3   | 6382638.2 | 10          | 25       | 85     | 24 | 34          |          |        |     |             |          |     |    | 21.80       |        | tr      |         | 1           |
| 5B020    | 2786478.5   | 6382821.9 | 20          | 150      | 180    | 10 | 30          |          |        |     |             |          |     |    | 7.59        |        | tr      |         | 1           |
| 5B021    | 2786572.0   | 6382860.0 | 14          | 65       | 85     | 8  | 22          |          |        |     |             |          |     |    | 12.15       |        | tr      |         | 1           |
| 5B022    | 2786537.4   | 6382752.6 | 22          | 30       | 100    | 8  | 30          |          |        |     |             |          |     |    | 36.25       |        | tr      |         | 3           |
| 5B023    | 2786478.5   | 6382659.0 | 22          | 100      | 105    | 8  | 30          |          |        |     |             |          |     |    | 12.41       |        | tr      |         | 1           |
| 5B024    | 2786544.3   | 6382648.6 | 8           | 40       | 55     | 2  | 10          |          |        |     |             |          |     |    | 11.31       |        | tr      |         | 3           |
| 5B025    | 2786582.4   | 6382558.5 | 8           | 40       | 55     | 4  | 12          |          |        |     |             |          |     |    | 11.31       |        | tr      |         | 3           |
| 5B026    | 2786800.7   | 6382530.8 | 4           | 20       | 135    | 28 | 32          |          |        |     |             |          |     |    | 11.31       |        | tr      |         | 1           |
| 5B027    | 2786800.7   | 6382676.4 | 12          | 65       | 215    | 18 | 30          |          |        |     |             |          |     |    | 10.46       |        | tr      |         | 3           |
| 5B028    | 2786773.0   | 6382828.8 | 12          | 40       | 155    | 6  | 18          |          |        |     |             |          |     |    | 16.70       |        | tr      |         | 3           |
| 5B029    | 2786873.5   | 6382915.5 | 12          | 65       | 65     | 12 | 24          |          |        |     |             |          |     |    | 10.46       |        | tr      |         | 1           |
| 5B030    | 2786873.5   | 6382998.6 | 18          | 30       | 95     | 8  | 26          |          |        |     |             |          |     |    | 30.96       |        | tr      |         | 3           |
| 5B031    | 2786904.7   | 6383119.9 | 10          | 30       | 95     | 4  | 14          |          |        |     |             |          |     |    | 18.43       |        | tr      |         | 1           |
| 5B032    | 2787032.8   | 6383117.1 | 14          | 50       | 175    | 18 | 32          |          |        |     |             |          |     |    | 15.64       |        | tr      |         | 1           |
| 5B033    | 2787017.8   | 6383247.6 | 14          | 95       | 105    | 12 | 26          |          |        |     |             |          |     |    | 8.38        |        | tr      |         | 1           |
| 5B034    | 2787208.5   | 6383368.1 | 5           | 35       | 90     | 30 | 35          |          |        |     |             |          |     |    | 8.13        |        | tr      |         | 1           |
| 5B035    | 2786987.6   | 6383538.7 | 10          | 80       | 110    | 4  | 14          |          | 100    | 115 | 3           | 18       |     |    | 7.13        | 6.28   | tr      |         | 1           |
| 5B036    | 2787198.4   | 6383528.7 | 28          | 80       | 220    | 4  | 32          |          |        |     |             |          |     |    | 19.29       |        | tr      |         | 2           |
| 5B037    | 2787434.3   | 6383513.6 | 20          | 40       | 175    | 14 | 34          |          |        |     |             |          |     |    | 26.57       |        | tr      |         | 3           |
| 5B038    | 2787610.0   | 6383513.6 | 8           | 25       | 110    | 18 | 26          |          |        |     |             |          |     |    | 17.74       |        | tr      |         | 1           |
| 5B039    | 2787775.6   | 6383518.6 | 16          | 75       | 170    | 6  | 22          |          |        |     |             |          |     |    | 12.04       |        | tr      | Yes     | 3           |
| 5B040    | 2787665.2   | 6383609.0 | 8           | 25       | 90     | 2  | 10          |          |        |     |             |          |     |    | 17.74       |        | tr      |         | 3           |
| 5B041    | 2787911.1   | 6383759.5 | 14          | 115      | 175    | 4  | 18          |          |        |     |             |          |     |    | 6.94        |        | tr      | Yes     | 3           |
| 5B042    | 2788011.5   | 6383905.1 | 6           | 50       | 115    | 24 | 30          |          |        |     |             |          |     |    | 6.84        |        | tr      |         | 1           |
| 5B043    | 2787865.9   | 6383925.2 | 24          | 40       | 150    | 6  | 30          |          | 65     | 70  | 2           | 12       |     |    | 30.96       | 23.30  | tr      |         | 4           |
| 5B044    | 2787931.2   | 6384050.6 | 24          | 40       | 95     | 4  | 28          |          |        |     |             |          |     |    | 30.96       |        | tr      |         | 3           |
| 5B045    | 2788016.5   | 6384151.0 | 20          | 40       | 60     | 6  | 26          |          | 50     | 45  | 4           | 12       |     |    | 26.57       | 23.75  | tr      |         | 4           |
| 5B046    | 2788101.8   | 6384196.2 | 22          | 45       | 65     | 4  | 26          |          | 55     | 40  | 2           | 14       |     |    | 26.05       | 23.57  | tr      |         | 4           |
| 5B047    | 2788182.1   | 6384271.4 | 8           | 10       | 75     | 18 | 26          |          | 125    | 75  | 2           | 18       |     |    | 38.66       | 10.87  | tr      |         | 4           |
| 5B048    | 2788261.1   | 6384387.7 | 28          | 45       | 160    | 2  | 30          |          |        |     |             |          |     |    | 31.89       |        | tr      |         | 3           |
| 5B049    | 2788579.3   | 6384759.9 | 16          | 45       | 280    | 4  | 20          |          |        |     |             |          |     |    | 19.57       |        | tr      | Yes     | 3           |
| 5B050    | 2788627.4   | 6385036.1 | 20          | 50       | 180    | 4  | 24          |          |        |     |             |          |     |    | 21.80       |        | tr      | Yes     | 3           |
| 5B051    | 2788759.5   | 6385210.2 | 16          | 45       | 115    | 8  | 24          |          |        |     |             |          |     |    | 19.57       |        | tr      |         | 3           |
| 5B052    | 2788831.5   | 6385288.3 | 14          | 45       | 100    | 8  | 22          |          | 55     | 45  | 6           | 18       |     |    | 17.28       | 16.22  | tr      |         | 4           |
| 5B053    | 2788891.6   | 6385354.3 | 13          | 35       | 70     | 6  | 19          |          |        |     |             |          |     |    | 20.38       |        | tr      |         | 3           |
| 5B054    | 2788981.6   | 6385438.4 | 12          | 45       | 100    | 4  | 16          |          |        |     |             |          |     |    | 14.93       |        | tr      |         | 0           |
| 5B055    | 2789023.6   | 6385292.3 | 12          | 40       | 75     | 6  | 18          |          |        |     |             |          |     |    | 16.70       |        | tr      |         | 3           |
| 5B056    | 2787564.7   | 6385672.5 | 16          | 75       | 160    | 6  | 22          |          | 110    | 110 | 6           | 14       |     |    | 12.04       | 8.28   | tr      |         | 4           |
| 5B057    | 2787342.5   | 6385444.4 | 10          | 40       | 45     | 4  | 14          |          |        |     |             |          |     |    | 14.04       |        | tr      |         | 3           |
| 5B058    | 2787294.5   | 6385432.4 | 6           | 35       | 60     | 6  | 12          |          |        |     |             |          |     |    | 9.73        |        | tr      |         | 3           |
| 5B059    | 2787096.4   | 6385390.3 | 14          | 120      | 50     | 6  | 20          |          |        |     |             |          |     |    | 6.65        |        | tr      | Yes     | 3           |
| 5B060    | 2787030.3   | 6385432.4 | 10          | 35       | 175    | 26 | 36          |          | 185    | 120 | 20          | 26       |     |    | 15.95       | 4.94   | tr      |         | 4           |
| 5B061    | 2787054.3   | 6385292.3 | 2           | 15       | 70     | 20 | 22          |          |        |     |             |          |     |    | 7.59        |        | tr      |         | 3           |
| 5B062    | 2787150.4   | 6385300.3 | 16          | 130      | 90     | 6  | 22          |          |        |     |             |          |     |    | 7.02        |        | tr      | Yes     | 3           |
| 5B063    | 2787240.5   | 6385318.3 | 11          | 55       | 50     | 4  | 15          |          |        |     |             |          |     |    | 11.31       |        | tr      |         | 0           |
| 5B064    | 2787294.5   | 6385294.3 | 12          | 60       | 75     | 4  | 16          |          |        |     |             |          |     |    | 11.31       |        | tr      |         | 3           |
| 5B065    | 2787390.6   | 6385324.3 | 12          | 30       | 65     | 4  | 16          |          |        |     |             |          |     |    | 21.80       |        | tr      | Yes     | 3           |
| 5B066    | 2787474.6   | 6385306.3 | 8           | 40       | 70     | 8  | 16          |          |        |     |             |          |     |    | 11.31       |        | tr      |         | 1           |
| 5B067    | 2787456.6   | 6385162.2 | 22          | 90       | 45     | 6  | 28          |          | 110    | 20  | 8           | 15       |     |    | 13.74       | 10.30  | tr      |         | 4           |
| 5B068    | 2787444.6   | 6385048.1 | 8           | 20       | 140    | 18 | 26          |          |        |     |             |          |     |    | 21.80       |        | tr      |         | 1           |
| 5B069    | 2787444.6   | 6384790.0 | 15          | 110      | 85     | 14 | 29          |          |        |     |             |          |     |    | 7.77        |        | tr      |         | 1           |
| 5B070    | 2787486.6   | 6384868.0 | 18          | 125      | 85     | 10 | 28          |          |        |     |             |          |     |    | 8.19        |        | tr      |         | 3           |
| 5B071    | 2787696.8   | 6385390.3 | 8           | 15       | 120    | 6  | 14          |          |        |     |             |          |     |    | 28.07       |        | tr      |         | 3           |
| 5B072    | 2787810.8   | 6385162.2 | 22          | 95       | 65     | 6  | 28          |          |        |     |             |          |     |    | 13.04       |        | tr      |         | 3           |
| 5B073    | 2787852.9   | 6385048.1 | 24          | 120      | 160    | 4  | 28          |          |        |     |             |          |     |    | 11.31       |        | tr      |         | 3           |
| 5B074    | 2787900.9   | 6384868.0 | 10          | 95       | 60     | 10 | 20          |          | 275    | 85  | 0           | 8        |     |    | 6.01        | 4.16   | tr      |         | 4           |
| 5B075    | 2787750.8   | 6384651.9 | 14          | 45       | 65     | 4  | 18          |          |        |     |             |          |     |    | 17.28       |        | tr      | Yes     | 3           |
| 5B076    | 2787642.7   | 6384579.8 | 14          | 50       | 60     | 6  | 20          |          |        |     |             |          |     |    | 15.64       |        | tr      | Yes     | 3           |
| 5B077    | 2787498.6   | 6384717.9 | 8           | 115      | 110    | 24 | 32          |          |        |     |             |          |     |    | 3.98        |        | tr      |         | 1           |
| 5B078    | 2787588.7   | 6384435.7 | 18          | 30       | 85     | 4  | 22          |          |        |     |             |          |     |    | 30.96       |        | tr      |         | 3           |
| 5B079    | 2787456.6   | 6384375.7 | 14          | 40       | 50     | 6  | 20          |          |        |     |             |          |     |    | 19.29       |        | tr      |         | 3           |
| 5B080    | 2787420.6   | 6384411.7 | 20          | 70       | 50     | 4  | 24          |          |        |     |             |          |     |    | 15.95       |        | tr      |         | 3           |
| 5B081    | 2787336.5   | 6384477.7 | 18          | 65       | 50     | 4  | 22          |          |        |     |             |          |     |    | 15.48       |        | tr      |         | 1           |
| 5B082    | 2787270.5   | 6384525.8 | 18          | 60       | 80     | 4  | 22          |          |        |     |             |          |     |    | 16.70       |        | tr      |         | 3           |
| 5B083    | 2787186.4   | 6384567.8 | 16          | 40       | 45     | 10 | 26          |          |        |     |             |          |     |    | 21.80       |        | tr      |         | 3           |
| 5B084    | 2787024.4   | 6384759.0 | 30          | 250      | 210    | 4  | 34          |          |        |     |             |          |     |    | 6.84        |        | tr      | Yes     | 3           |
| 5B085    | 2786950.6   | 6384873.8 | 44          | 375      | 350    | 4  | 48          |          |        |     |             |          |     |    | 6.69        |        | tr      |         | 3           |

| Ref. No. | Coordinates | Height(m) | Scarp       |          |     | Bottom |             | Scarp    |     | Runout |       | Toe Top |       | Slope angle |      | Geology | Seepage | Geo. Symbol |
|----------|-------------|-----------|-------------|----------|-----|--------|-------------|----------|-----|--------|-------|---------|-------|-------------|------|---------|---------|-------------|
|          |             |           | Distance(m) | Width(m) | RL  | RL     | Distance(m) | Width(m) | RL  | RL     | Scarp | Runout  |       |             |      |         |         |             |
| 5B086    | 2786897.2   | 6385009.3 | 22          | 190      | 170 | 24     | 46          |          |     |        |       |         |       | 6.60        | tr   |         | 1       |             |
| 5B087    | 2786704.4   | 6384894.4 | 12          | 90       | 170 | 30     | 42          |          |     |        |       |         |       | 7.59        | tr   |         | 1       |             |
| 5B088    | 2786630.5   | 6384726.1 | 12          | 80       | 255 | 30     | 42          |          |     |        |       |         |       | 8.53        | tr   |         | 3       |             |
| 5B089    | 2786408.9   | 6384578.4 | 6           | 150      | 195 | 44     | 50          |          |     |        |       |         |       | 2.29        | tr   |         | 1       |             |
| 5B090    | 2787008.0   | 6384525.1 | 20          | 45       | 60  | 4      | 24          |          |     |        |       |         |       | 23.96       | tr   |         | 3       |             |
| 5B091    | 2786880.8   | 6384508.7 | 26          | 80       | 65  | 6      | 32          |          |     |        |       |         |       | 18.00       | tr   |         | 3       |             |
| 5B092    | 2786843.9   | 6384430.7 | 18          | 50       | 100 | 6      | 24          | 50       | 75  | 2      | 12    | 19.80   | 23.75 | tr          |      |         | 4       |             |
| 5B093    | 2786729.0   | 6384508.7 | 22          | 165      | 135 | 6      | 28          |          |     |        |       |         |       | 7.59        | tr   | Yes     | 3       |             |
| 5B094    | 2786552.5   | 6384488.1 | 28          | 200      | 245 | 10     | 38          | 110      | 150 | 16     | 28    | 7.97    | 11.31 | tr          |      |         | 4       |             |
| 5B095    | 2786544.3   | 6384369.1 | 34          | 120      | 200 | 10     | 44          | 85       | 165 | 18     | 32    | 15.82   | 17.01 | tr          |      |         | 4       |             |
| 5B096    | 2786704.4   | 6384262.5 | 36          | 90       | 175 | 6      | 42          | 90       | 135 | 8      | 34    | 21.80   | 20.70 | tr          |      |         | 4       |             |
| 5B097    | 2786839.8   | 6384241.9 | 14          | 35       | 55  | 6      | 20          |          |     |        |       |         |       | 21.80       | tr   |         | 3       |             |
| 5B098    | 2786716.7   | 6384069.6 | 28          | 75       | 200 | 4      | 32          | 120      | 165 | 2      | 18    | 20.47   | 14.04 | tr          | Yes  |         | 4       |             |
| 5B099    | 2786569.0   | 6384118.8 | 28          | 105      | 170 | 6      | 34          |          |     |        |       |         |       | 14.93       | tr   |         | 3       |             |
| 5B100    | 2786302.2   | 6384065.5 | 46          | 210      | 400 | 6      | 52          | 200      | 340 | 10     | 36    | 12.36   | 11.86 | tr          | Yes  |         | 4       |             |
| 5B101    | 2786420.5   | 6383860.0 | 34          | 95       | 135 | 4      | 38          | 100      | 70  | 6      | 22    | 19.69   | 17.74 | tr          | Yes  |         | 4       |             |
| 5B102    | 2786491.1   | 6383799.9 | 24          | 45       | 75  | 4      | 28          | 75       | 75  | 2      | 20    | 28.07   | 19.12 | tr          |      |         | 4       |             |
| 5B103    | 2786484.1   | 6383729.3 | 34          | 75       | 45  | 4      | 38          |          |     |        |       |         |       | 24.39       | tr   |         | 3       |             |
| 5B104    | 2786357.0   | 6383683.4 | 42          | 120      | 160 | 8      | 50          | 175      | 70  | 3      | 26    | 19.29   | 15.03 | tr          | Yes  |         | 4       |             |
| 5B105    | 2786325.2   | 6383531.6 | 36          | 100      | 130 | 4      | 40          | 110      | 45  | 2      | 32    | 19.80   | 19.06 | tr          |      |         | 4       |             |
| 5B106    | 2786261.6   | 6383425.7 | 24          | 65       | 110 | 6      | 30          | 110      | 85  | 2      | 22    | 20.27   | 14.28 | tr          |      |         | 2       |             |
| 5B107    | 2786187.5   | 6383482.2 | 20          | 60       | 60  | 14     | 34          | 65       | 35  | 14     | 22    | 18.43   | 17.10 | tr          |      |         | 4       |             |
| 5B108    | 2786113.4   | 6383510.4 | 20          | 70       | 85  | 10     | 30          | 95       | 55  | 8      | 18    | 15.95   | 13.04 | tr          | Sat. |         | 4       |             |
| 5B109    | 2786093.9   | 6383595.2 | 20          | 30       | 95  | 12     | 32          | 100      | 20  | 11     | 22    | 33.69   | 11.86 | tr          | Sat. |         | 2       |             |
| 5B110    | 2785919.2   | 6383701.1 | 30          | 175      | 115 | 10     | 40          |          |     |        |       |         |       | 9.73        | tr   | Yes     | 3       |             |
| 5B111    | 2785823.8   | 6383669.3 | 23          | 95       | 65  | 10     | 33          |          |     |        |       |         |       | 13.61       | tr   |         | 3       |             |
| 5B112    | 2786014.5   | 6383761.1 | 12          | 75       | 140 | 40     | 52          |          |     |        |       |         |       | 9.09        | tr   |         | 1       |             |
| 5B113    | 2785883.9   | 6383852.9 | 18          | 80       | 50  | 42     | 60          |          |     |        |       |         |       | 12.68       | tr   |         | 1       |             |
| 5B114    | 2785746.2   | 6383789.3 | 18          | 85       | 85  | 36     | 54          |          |     |        |       |         |       | 11.96       | tr   |         | 1       |             |
| 5B115    | 2785806.2   | 6383616.3 | 20          | 55       | 90  | 20     | 40          |          |     |        |       |         |       | 19.98       | tr   |         | 3       |             |
| 5B116    | 2785608.5   | 6383750.5 | 24          | 90       | 135 | 28     | 52          | 175      | 75  | 26     | 38    | 14.93   | 8.45  | tr          |      |         | 4       |             |
| 5B117    | 2785576.7   | 6383831.7 | 32          | 150      | 260 | 28     | 60          |          |     |        |       |         |       | 12.04       | tr   |         | 1       |             |
| 5B118    | 2785506.1   | 6383616.3 | 24          | 92.5     | 120 | 30     | 54          |          |     |        |       |         |       | 14.55       | tr   |         | 3       |             |
| 5B119    | 2785544.9   | 6383471.6 | 28          | 60       | 90  | 24     | 52          |          |     |        |       |         |       | 25.02       | tr   |         | 3       |             |
| 5B120    | 2785506.1   | 6383344.5 | 38          | 100      | 160 | 14     | 52          | 105      | 45  | 14     | 36    | 20.81   | 19.90 | tr          |      |         | 4       |             |
| 5B121    | 2785562.6   | 6383242.1 | 16          | 25       | 45  | 14     | 30          |          |     |        |       |         |       | 32.62       | tr   |         | 3       |             |
| 5B122    | 2785501.2   | 6383144.2 | 34          | 80       | 60  | 6      | 40          |          |     |        |       |         |       | 23.03       | tr   |         | 3       |             |
| 5B123    | 2785359.2   | 6383113.0 | 40          | 170      | 130 | 6      | 46          |          |     |        |       |         |       | 13.24       | tr   | Sat.    | 3       |             |
| 5B124    | 2785386.9   | 6382950.1 | 15          | 50       | 55  | 6      | 21          |          |     |        |       |         |       | 16.70       | tr   |         | 0       |             |
| 5B125    | 2785289.9   | 6382929.3 | 12          | 50       | 60  | 6      | 18          |          |     |        |       |         |       | 13.50       | tr   |         | 3       |             |
| 5B126    | 2785300.3   | 6383012.5 | 24          | 65       | 120 | 20     | 44          |          |     |        |       |         |       | 20.27       | tr   |         | 3       |             |
| 5B127    | 2785213.6   | 6382995.2 | 32          | 150      | 120 | 10     | 42          | 110      | 60  | 18     | 32    | 12.04   | 12.31 | tr          |      |         | 4       |             |
| 5B128    | 2785081.9   | 6382988.2 | 26          | 115      | 40  | 14     | 40          |          |     |        |       |         |       | 12.74       | tr   |         | 1       |             |
| 5B129    | 2785012.6   | 6383016.0 | 18          | 42.5     | 65  | 20     | 38          |          |     |        |       |         |       | 22.95       | tr   |         | 3       |             |
| 5B130    | 2784905.2   | 6382960.5 | 26          | 135      | 150 | 14     | 40          |          |     |        |       |         |       | 10.90       | tr   |         | 3       |             |
| 5B131    | 2784832.4   | 6382887.7 | 22          | 105      | 80  | 26     | 48          |          |     |        |       |         |       | 11.83       | tr   |         | 3       |             |
| 5B132    | 2784832.4   | 6382790.7 | 22          | 80       | 70  | 22     | 48          |          |     |        |       |         |       | 18.00       | tr   |         | 1       |             |
| 5B133    | 2784811.6   | 6382707.5 | 26          | 100      | 75  | 26     | 48          |          |     |        |       |         |       | 12.41       | tr   |         | 3       |             |
| 5B134    | 2784731.9   | 6382544.7 | 26          | 130      | 75  | 24     | 50          |          |     |        |       |         |       | 11.31       | tr   |         | 3       |             |
| 5B135    | 2784700.7   | 6382600.1 | 40          | 175      | 135 | 24     | 64          |          |     |        |       |         |       | 12.88       | tr   |         | 1       |             |
| 5B136    | 2784898.3   | 6382607.1 | 9           | 35       | 30  | 16     | 25          |          |     |        |       |         |       | 14.42       | tm   |         | 0       |             |
| 5B137    | 2784939.9   | 6382492.7 | 6           | 25       | 45  | 18     | 24          |          |     |        |       |         |       | 13.50       | tm   |         | 3       |             |
| 5B138    | 2785102.7   | 6382659.0 | 12          | 55       | 60  | 16     | 28          |          |     |        |       |         |       | 12.31       | tm   | Yes     | 3       |             |
| 5B139    | 2785251.7   | 6382756.1 | 11          | 90       | 45  | 10     | 21          |          |     |        |       |         |       | 6.97        | tm   |         | 1       |             |
| 5B140    | 2785328.0   | 6382759.5 | 16          | 60       | 60  | 8      | 24          |          |     |        |       |         |       | 14.93       | tm   | Yes     | 3       |             |
| 5B141    | 2785393.8   | 6382773.4 | 18          | 65       | 50  | 8      | 26          |          |     |        |       |         |       | 15.48       | tm   | Yes     | 3       |             |
| 5B142    | 2785542.8   | 6382915.5 | 20          | 70       | 75  | 8      | 28          |          |     |        |       |         |       | 15.95       | tm   | Yes     | 3       |             |
| 5B143    | 2785657.2   | 6382995.2 | 26          | 135      | 60  | 6      | 32          |          |     |        |       |         |       | 10.90       | tm   |         | 3       |             |
| 5B144    | 2785837.4   | 6383067.9 | 30          | 145      | 125 | 0      | 30          |          |     |        |       |         |       | 11.69       | tm   |         | 3       |             |
| 5B145    | 2786021.0   | 6383071.4 | 14          | 35       | 75  | 4      | 18          |          |     |        |       |         |       | 21.80       | tm   |         | 1       |             |
| 5B146    | 2786028.0   | 6382950.1 | 22          | 40       | 60  | 4      | 26          |          |     |        |       |         |       | 28.81       | tm   |         | 3       |             |
| 5B147    | 2785969.1   | 6382894.7 | 24          | 50       | 60  | 4      | 28          |          |     |        |       |         |       | 25.64       | tm   |         | 3       |             |
| 5B148    | 2785879.0   | 6382794.2 | 30          | 55       | 165 | 2      | 32          |          |     |        |       |         |       | 28.61       | tm   |         | 1       |             |
| 5B149    | 2785754.2   | 6382686.8 | 28          | 70       | 100 | 4      | 32          | 110      | 45  | 3      | 18    | 21.80   | 14.77 | tm          |      |         | 4       |             |
| 5B150    | 2785657.2   | 6382631.3 | 28          | 85       | 75  | 2      | 30          |          |     |        |       |         |       | 18.23       | tm   |         | 3       |             |
| 5B151    | 2785598.3   | 6382562.0 | 16          | 55       | 55  | 2      | 18          |          |     |        |       |         |       | 16.22       | tm   |         | 0       |             |
| 5B152    | 2785605.2   | 6382617.4 | 26          | 100      | 65  | 2      | 28          |          |     |        |       |         |       | 14.57       | tm   |         | 1       |             |
| 5B153    | 2785490.8   | 6382596.7 | 30          | 100      | 110 | 4      | 34          |          |     |        |       |         |       | 16.70       | tm   |         | 3       |             |
| 5B154    | 2785383.4   | 6382534.3 | 14          | 55       | 70  | 2      | 16          |          |     |        |       |         |       | 14.28       | tm   |         | 3       |             |
| 5B155    | 2785421.5   | 6382669.4 | 26          | 175      | 175 | 2      | 28          |          |     |        |       |         |       | 8.45        | tm   |         | 1       |             |
| 5B156    | 2785251.7   | 6382600.1 | 14          | 55       | 90  | 18     | 32          |          |     |        |       |         |       | 14.28       | tm   |         | 3       |             |
| 5B157    | 2785241.3   | 6382537.7 | 24          | 65       | 100 | 10     | 34          |          |     |        |       |         |       | 20.27       | tm   |         | 3       |             |
| 5B158    | 2784728.5   | 6382759.5 | 14          | 65       | 210 | 52     | 66          |          |     |        |       |         |       | 12.15       | tr   |         | 1       |             |
| 5B159    | 2784700.7   | 6382912.0 | 12          | 70       | 95  | 44     | 56          |          |     |        |       |         |       | 9.73        | tr   |         | 1       |             |
| 5B160    | 2784665.7   | 6383150.3 | 12          | 50       | 145 | 44     | 56          |          |     |        |       |         |       | 13.50       | tr   |         | 1       |             |
| 5B161    | 2784761.1   | 6383196.2 | 12          | 40       | 400 | 40     | 52          | 110      | 240 | 36     | 40    | 16.70   | 8.28  | tr          |      |         | 4       |             |
| 5B162    | 2785064.7   | 6383178.5 | 10          | 55       | 120 | 34     | 44          |          |     |        |       |         |       | 10.30       | tr   |         | 1       |             |
| 5B163    | 2785223.6   | 6383277.4 | 12          | 95       | 145 | 36     | 48          |          |     |        |       |         |       | 7.20        | tr   |         | 1       |             |
| 5B164    | 2785382.5   | 6383475.1 | 20          | 215      | 190 | 34     | 54          |          |     |        |       |         |       | 5.31        | tr   |         | 1       |             |
| 5B165    | 2785213.0   | 6383492.8 | 10          | 50       | 85  | 36     | 46          |          |     |        |       |         |       | 11.31       | tr   |         | 1       |             |
| 5B166    | 2785276.6   | 6383542.2 | 28          | 280      | 150 | 26     | 54          | 300      | 245 | 28     | 40    | 5.71    | 4.95  | tr          |      |         | 2       |             |
| 5B167    | 2784824.6   | 6383521.0 | 18          | 110      | 110 | 34     | 52          |          |     |        |       |         |       | 9.29        | tr   |         | 3       |             |
| 5B168    | 2784725.8   | 6383443.3 | 8           | 95       | 115 | 42     | 50          |          |     |        |       |         |       | 4.81        | tm   |         | 1       |             |
| 5B169    | 2784757.5   | 6383676.4 | 12          | 60       | 125 | 36     | 48          |          |     |        |       |         |       | 11.31       | tm   |         | 1       |             |
| 5B170    | 2784831.7   | 6383450.4 | 12          | 40       | 70  | 34     | 46          |          |     |        |       |         |       | 16.70       | tr   |         | 1       |             |
| 5B171    | 2785266.0   | 6383747.0 | 18          | 55       | 115 | 28     | 46          |          |     |        |       |         |       | 18.12       | tr   | Yes     | 3       |             |
| 5B172    | 2785382.5   | 6383856.4 | 14          | 80       | 125 | 46     | 60          |          |     |        |       |         |       | 9.93        | tr   |         | 1       |             |



| Ref. No. | Coordinates |           | Scarp     |             |          | Bottom |    | Scarp       |          | Runout |    | Toe Top |        | Slope angle |     | Geology | Seepage | Geo. Symbol |
|----------|-------------|-----------|-----------|-------------|----------|--------|----|-------------|----------|--------|----|---------|--------|-------------|-----|---------|---------|-------------|
|          |             |           | Height(m) | Distance(m) | Width(m) | RL     | RL | Distance(m) | Width(m) | RL     | RL | Scarp   | Runout |             |     |         |         |             |
| 5B173    | 2785114.2   | 6383860.0 | 5         | 30          | 35       | 24     | 29 |             |          |        |    |         |        | 9.46        | tr  |         | 0       |             |
| 5B174    | 2785153.3   | 6383971.1 | 9         | 75          | 55       | 20     | 29 |             |          |        |    |         |        | 6.84        | tr  |         | 1       |             |
| 5B175    | 2785182.0   | 6384061.4 | 16        | 105         | 60       | 14     | 30 |             |          |        |    |         |        | 8.66        | tr  |         | 3       |             |
| 5B176    | 2785366.7   | 6383995.7 | 14        | 30          | 100      | 28     | 42 |             |          |        |    |         |        | 25.02       | tr  |         | 0       |             |
| 5B177    | 2785280.5   | 6384131.2 | 10        | 30          | 70       | 20     | 30 | 80          | 20       | 13     | 20 | 18.43   | 12.00  | tr          |     |         | 4       |             |
| 5B178    | 2785395.4   | 6384040.9 | 14        | 42.5        | 55       | 24     | 38 |             |          |        |    |         |        | 18.23       | tr  |         | 1       |             |
| 5B179    | 2785338.0   | 6384196.8 | 16        | 30          | 70       | 16     | 32 | 70          | 25       | 12     | 22 | 28.07   | 15.95  | tr          |     |         | 4       |             |
| 5B180    | 2785473.4   | 6384098.3 | 25        | 105         | 115      | 16     | 41 |             |          |        |    |         |        | 13.39       | tr  | Yes     | 1       |             |
| 5B181    | 2785473.4   | 6384028.6 | 22        | 75          | 90       | 38     | 60 |             |          |        |    |         |        | 16.35       | tr  |         | 1       |             |
| 5B182    | 2785411.8   | 6384344.5 | 20        | 50          | 55       | 8      | 28 | 85          | 35       | 8      | 16 | 21.80   | 13.24  | tr          |     |         | 2       |             |
| 5B183    | 2785588.3   | 6384283.0 | 22        | 60          | 60       | 10     | 32 |             |          |        |    |         |        | 20.14       | tr  | Yes     | 3       |             |
| 5B184    | 2785801.6   | 6384020.4 | 26        | 165         | 275      | 32     | 58 |             |          |        |    |         |        | 8.95        | tr  |         | 1       |             |
| 5B185    | 2785822.1   | 6384110.6 | 16        | 135         | 60       | 20     | 36 |             |          |        |    |         |        | 6.76        | tr  | Yes     | 1       |             |
| 5B186    | 2785793.4   | 6384365.0 | 16        | 80          | 60       | 10     | 26 |             |          |        |    |         |        | 11.31       | tr  |         | 3       |             |
| 5B187    | 2785985.8   | 6384180.4 | 6         | 15          | 90       | 20     | 26 |             |          |        |    |         |        | 21.80       | tr  |         | 3       |             |
| 5B188    | 2786002.7   | 6384106.5 | 12        | 50          | 60       | 20     | 32 |             |          |        |    |         |        | 13.50       | tr  | Yes     | 3       |             |
| 5B189    | 2786076.6   | 6384188.6 | 20        | 60          | 100      | 18     | 38 |             |          |        |    |         |        | 18.43       | tr  |         | 3       |             |
| 5B190    | 2786175.0   | 6384307.6 | 16        | 60          | 130      | 16     | 32 |             |          |        |    |         |        | 14.93       | tr  | Yes     | 3       |             |
| 5B191    | 2786006.8   | 6384291.2 | 11        | 45          | 60       | 14     | 25 |             |          |        |    |         |        | 13.74       | tr  |         | 3       |             |
| 5B192    | 2785937.0   | 6384352.7 | 12        | 70          | 150      | 12     | 24 |             |          |        |    |         |        | 9.73        | tr  |         | 3       |             |
| 5B193    | 2785912.4   | 6384508.7 | 16        | 55          | 90       | 8      | 24 |             |          |        |    |         |        | 16.22       | tr  | Yes     | 3       |             |
| 5B194    | 2785932.9   | 6384635.9 | 18        | 125         | 155      | 6      | 24 |             |          |        |    |         |        | 8.19        | tr  |         | 3       |             |
| 5B195    | 2785797.5   | 6384685.1 | 16        | 90          | 150      | 2      | 18 |             |          |        |    |         |        | 10.08       | tr  |         | 3       |             |
| 5B196    | 2786129.9   | 6384598.9 | 16        | 40          | 150      | 18     | 34 | 190         | 90       | 8      | 20 | 21.80   | 7.79   | tr          |     |         | 4       |             |
| 5B197    | 2786285.3   | 6384582.5 | 20        | 160         | 240      | 30     | 50 |             |          |        |    |         |        | 7.13        | tr  |         | 1       |             |
| 5B198    | 2786203.8   | 6384689.2 | 20        | 95          | 45       | 18     | 38 |             |          |        |    |         |        | 11.89       | tr  |         | 3       |             |
| 5B199    | 2786146.3   | 6384804.1 | 12        | 65          | 75       | 10     | 22 |             |          |        |    |         |        | 10.46       | tr  |         | 3       |             |
| 5B200    | 2786212.0   | 6384878.0 | 12        | 50          | 60       | 12     | 24 | 130         | 35       | 2      | 20 | 13.50   | 9.61   | tr          |     |         | 2       |             |
| 5B201    | 2786310.4   | 6384890.3 | 22        | 130         | 125      | 4      | 26 |             |          |        |    |         |        | 9.61        | tr  | Yes     | 3       |             |
| 5B202    | 2786458.2   | 6384898.5 | 20        | 140         | 90       | 8      | 28 |             |          |        |    |         |        | 8.13        | tr  |         | 3       |             |
| 5B203    | 2786503.3   | 6384767.2 | 36        | 125         | 70       | 6      | 42 |             |          |        |    |         |        | 16.07       | tr  |         | 1       |             |
| 5B204    | 2786585.4   | 6385103.6 | 14        | 85          | 210      | 8      | 22 |             |          |        |    |         |        | 9.35        | tr  | Yes     | 3       |             |
| 5B205    | 2786523.8   | 6385210.3 | 20        | 105         | 70       | 8      | 28 | 85          | 55       | 8      | 16 | 10.78   | 13.24  | tr          |     |         | 2       |             |
| 5B206    | 2786429.4   | 6385239.0 | 20        | 130         | 100      | 4      | 24 |             |          |        |    |         |        | 8.75        | tr  |         | 3       |             |
| 5B207    | 2786343.3   | 6385230.8 | 24        | 120         | 60       | 4      | 28 |             |          |        |    |         |        | 11.31       | tr  |         | 3       |             |
| 5B208    | 2786306.3   | 6385243.1 | 22        | 120         | 50       | 4      | 26 |             |          |        |    |         |        | 10.39       | tr  |         | 3       |             |
| 5B209    | 2786216.1   | 6385226.7 | 16        | 70          | 90       | 4      | 20 | 75          | 30       | 4      | 12 | 12.88   | 12.04  | tr          |     |         | 4       |             |
| 5B210    | 2786142.2   | 6385210.3 | 9         | 50          | 60       | 4      | 13 | 65          | 35       | 2      | 12 | 10.20   | 9.61   | tr          |     |         | 4       |             |
| 5B211    | 2786101.2   | 6385288.3 | 13        | 65          | 60       | 4      | 17 |             |          |        |    |         |        | 11.31       | tr  |         | 3       |             |
| 5B212    | 2786236.6   | 6385386.8 | 20        | 145         | 75       | 6      | 26 |             |          |        |    |         |        | 7.85        | tr  |         | 3       |             |
| 5B213    | 2786367.9   | 6385477.0 | 10        | 105         | 175      | 28     | 38 |             |          |        |    |         |        | 5.44        | tr  |         | 3       |             |
| 5B214    | 2786532.0   | 6385587.8 | 6         | 75          | 150      | 32     | 38 |             |          |        |    |         |        | 4.57        | tr  |         | 1       |             |
| 5B215    | 2787315.2   | 6385727.3 | 18        | 70          | 150      | 4      | 22 |             |          |        |    |         |        | 14.42       | tr  |         | 1       |             |
| 5B216    | 2787077.8   | 6385710.9 | 11        | 85          | 50       | 6      | 17 |             |          |        |    |         |        | 7.37        | tr  |         | 3       |             |
| 5B217    | 2787083.9   | 6385773.5 | ?         | 50          | 125      | 8      | ?  |             |          |        |    |         |        | ?           | tr  |         | 3       |             |
| 5B218    | 2786981.8   | 6385732.5 | 10        | 37.5        | 100      | 8      | 18 |             |          |        |    |         |        | 14.93       | tr  |         | 1       |             |
| 5B219    | 2786951.1   | 6385824.8 | 6         | 55          | 120      | 18     | 24 |             |          |        |    |         |        | 6.23        | tr  |         | 3       |             |
| 5B220    | 2786880.8   | 6385616.5 | 14        | 95          | 80       | 8      | 22 |             |          |        |    |         |        | 8.38        | tr  | Yes     | 3       |             |
| 5B221    | 2786782.3   | 6385719.1 | 2         | 45          | 120      | 28     | 30 |             |          |        |    |         |        | 2.54        | tr  |         | 3       |             |
| 5B222    | 2786429.4   | 6385710.9 | 16        | 130         | 190      | 34     | 50 | 225         | 75       | 32     | 40 | 7.02    | 4.57   | tr          |     |         | 4       |             |
| 5B223    | 2786343.3   | 6385600.1 | 16        | 145         | 210      | 30     | 46 |             |          |        |    |         |        | 6.30        | tr  |         | 1       |             |
| 5B224    | 2786216.1   | 6385641.2 | 7         | 110         | 135      | 42     | 49 |             |          |        |    |         |        | 3.64        | tr  |         | 1       |             |
| 5B225    | 2786248.9   | 6385735.5 | ?         | 95          | 245      | ?      | 52 |             |          |        |    |         |        | ?           | tr  |         | 1       |             |
| 5B226    | 2785920.6   | 6385731.4 | ?         | 40          | 110      | ?      | 58 |             |          |        |    |         |        | ?           | tr  |         | 3       |             |
| 5B227    | 2785797.5   | 6385682.2 | 20        | 70          | 70       | 4      | 24 | 80          | 40       | 4      | 20 | 15.95   | 14.04  | tr          |     |         | 4       |             |
| 5B228    | 2785789.3   | 6385641.2 | 18        | 50          | 85       | 4      | 22 |             |          |        |    |         |        | 19.80       | tr  |         | 3       |             |
| 5B229    | 2785809.8   | 6385583.7 | 20        | 50          | 75       | 2      | 22 | 50          | 50       | 2      | 12 | 21.80   | 21.80  | tr          |     |         | 4       |             |
| 5B230    | 2785982.2   | 6385624.8 | 56        | 205         | 150      | 4      | 60 | 240         | 55       | 2      | 36 | 15.28   | 13.59  | tr          |     | Yes     | 4       |             |
| 5B231    | 2786060.1   | 6385538.6 | 40        | 170         | 55       | 4      | 44 | 170         | 40       | 4      | 30 | 13.24   | 13.24  | tr          |     | Yes     | 4       |             |
| 5B232    | 2786117.6   | 6385477.0 | 32        | 200         | 165      | 4      | 36 | 175         | 55       | 4      | 22 | 9.09    | 10.36  | tr          |     | ?       | 4       |             |
| 5B233    | 2786085.1   | 6383658.7 | 6         | 95          | 90       | 32     | 38 |             |          |        |    |         |        | 3.61        | tr  |         | 1       |             |
| 5B234    | 2784800.4   | 6385731.4 | 26        | 120         | 270      | 2      | 28 | 120         | 55       | 4      | 10 | 12.23   | 11.31  | tm          |     |         | 4       |             |
| 5B235    | 2784681.4   | 6385583.7 | 24        | 130         | 175      | 4      | 28 | 160         | 140      | 4      | 18 | 10.46   | 8.53   | tm          |     | Sat.    | 4       |             |
| 5B236    | 2784890.7   | 6385514.0 | 14        | 65          | 100      | 4      | 18 |             |          |        |    |         |        | 12.15       | tm  |         | 3       |             |
| 5B237    | 2785251.8   | 6385620.6 | 8         | 100         | 90       | 2      | 10 |             |          |        |    |         |        | 4.57        | tm  |         | 1       |             |
| 5B238    | 2785387.2   | 6385571.4 | 20        | 30          | 100      | 2      | 22 |             |          |        |    |         |        | 33.69       | tm  |         | 3       |             |
| 5B239    | 2785411.8   | 6385501.7 | 14        | 45          | 60       | 6      | 20 |             |          |        |    |         |        | 17.28       | tm  |         | 1       |             |
| 5B240    | 2785026.1   | 6385218.5 | 8         | 70          | 55       | 20     | 28 |             |          |        |    |         |        | 6.52        | tm  |         | 3       |             |
| 5B241    | 2785108.2   | 6384845.1 | 24        | 150         | 65       | 6      | 30 | 135         | 170      | 6      | 18 | 9.09    | 10.08  | tm          |     |         | 2       |             |
| 5B242    | 2785370.8   | 6385021.6 | 26        | 220         | 335      | 4      | 30 | 175         | 400      | 4      | 20 | 6.74    | 8.45   | tm          |     |         | 4       |             |
| 5B243    | 2785194.3   | 6384553.8 | 16        | 225         | 160      | 12     | 28 |             |          |        |    |         |        | 4.07        | tm  |         | 1       |             |
| 5B244    | 2785719.6   | 6384935.4 | 16        | 30          | 75       | 4      | 20 |             |          |        |    |         |        | 28.07       | tm  |         | 3       |             |
| 5B245    | 2785621.1   | 6384783.6 | 18        | 45          | 200      | 6      | 24 |             |          |        |    |         |        | 21.80       | tm  |         | 3       |             |
| 5B246    | 2785534.9   | 6384709.7 | 14        | 70          | 55       | 12     | 26 | 130         | 45       | 2      | 13 | 11.31   | 10.46  | tm          |     |         | 4       |             |
| 5B247    | 2785506.2   | 6384627.7 | 18        | 45          | 90       | 8      | 26 | 70          | 60       | 4      | 20 | 21.80   | 17.45  | tm          |     |         | 4       |             |
| 5B248    | 2785424.1   | 6384557.9 | 17        | 70          | 125      | 8      | 25 | 135         | 75       | 2      | 10 | 13.65   | 9.67   | tm          |     |         | 4       |             |
| 5B249    | 2785227.2   | 6384369.1 | 20        | 170         | 160      | 12     | 32 |             |          |        |    |         |        | 6.71        | tm  |         | 3       |             |
| 5B250    | 2784919.4   | 6384122.9 | 2         | 25          | 150      | 34     | 36 |             |          |        |    |         |        | 4.57        | tm  | Yes     | 1       |             |
| 5B251    | 2784923.5   | 6383991.6 | 5         | 40          | 210      | 32     | 37 |             |          |        |    |         |        | 7.13        | tr  |         | 1       |             |
| 5B252    | 2784862.0   | 6384336.3 | 4         | 30          | 100      | 26     | 30 |             |          |        |    |         |        | 7.59        | tr  |         | 1       |             |
| 5B253    | 2789281.8   | 6384081.5 | 6         | 20          | 85       | 10     | 16 |             |          |        |    |         |        | 16.70       | tr  |         | 1       |             |
| 5B254    | 2789185.7   | 6384147.5 | 6         | 45          | 110      | 14     | 20 |             |          |        |    |         |        | 7.59        | tr  |         | 1       |             |
| 5B255    | 2787444.6   | 6385048.1 | 18        | 50          | 105      | 8      | 26 |             |          |        |    |         |        | 19.80       | tr? |         | 3       |             |
| 5B256    | 2787456.6   | 6385162.2 | 14        | 40          | 105      | 10     | 24 |             |          |        |    |         |        | 19.29       | tr? |         | 3       |             |
| 5B257    | 2787696.8   | 6385390.3 | 16        | 50          | 125      | 6      | 22 |             |          |        |    |         |        | 17.74       | tr  |         | 3       |             |
| 6A001    | 2785617.3   | 6382323.0 | 10        | 65          | 150      | 52     | 62 |             |          |        |    |         |        | 8.75        | tr  |         | 1       |             |
| 6A002    | 2784796.1   | 6382699.3 | 21        | 100         | 75       | 26     | 47 | 90          | 20       | 28     | 38 | 11.86   | 11.92  | tr          |     |         | 2       |             |

| Ref. No. | Coordinates |           | Height(m) | Scarp       |          |    | Bottom |             | Runout   |    | Toe Top |       | Slope angle |    | Geology | Seepage | Geo. Symbol |
|----------|-------------|-----------|-----------|-------------|----------|----|--------|-------------|----------|----|---------|-------|-------------|----|---------|---------|-------------|
|          |             |           |           | Distance(m) | Width(m) | RL | RL     | Distance(m) | Width(m) | RL | RL      | Scarp | Runout      |    |         |         |             |
| 6A003    | 2784683.2   | 6382538.5 | 28        | 160         | 80       | 22 | 50     |             |          |    |         |       | 9.93        | tr |         | 3       |             |
| 6A004    | 2784645.6   | 6382466.7 | 50        | 215         | 105      | 22 | 72     | 130         | 45       | 34 | 52      | 13.09 | 16.29       | tr |         | 4       |             |
| 6A005    | 2784905.6   | 6382641.2 | 9         | 35          | 35       | 16 | 25     |             |          |    |         | 14.42 |             | tr |         | 3       |             |
| 6A006    | 2784963.8   | 6382531.7 | 8         | 30          | 50       | 18 | 26     |             |          |    |         | 14.93 |             | tr |         | 3       |             |
| 6A007    | 2785117.8   | 6382641.2 | 10        | 30          | 65       | 18 | 28     |             |          |    |         | 18.43 |             | tr | Yes     | 3       |             |
| 6A008    | 2785234.1   | 6382716.4 | 8         | 75          | 60       | 14 | 22     |             |          |    |         | 6.09  |             | tr |         | 0       |             |
| 6A009    | 2785843.1   | 6382716.4 | 24        | 35          | 50       | 8  | 32     |             |          |    |         | 34.44 |             | tr |         | 0       |             |
| 6A010    | 2785743.9   | 6382678.8 | 24        | 65          | 95       | 6  | 30     | 90          | 45       | 4  | 16      | 20.27 | 16.11       | tr |         | 4       |             |
| 6A011    | 2785637.8   | 6382630.9 | 26        | 70          | 75       | 4  | 30     |             |          |    |         | 20.38 |             | tr |         | 3       |             |
| 6A012    | 2785545.5   | 6382613.8 | 26        | 85          | 55       | 4  | 30     |             |          |    |         | 17.01 |             | tr |         | 1       |             |
| 6A013    | 2785583.1   | 6382555.6 | 12        | 35          | 105      | 4  | 16     |             |          |    |         | 18.92 |             | tr |         | 3       |             |
| 6A014    | 2785487.3   | 6382576.2 | 28        | 75          | 55       | 6  | 34     |             |          |    |         | 20.47 |             | tr |         | 3       |             |
| 6A015    | 2785394.9   | 6382665.1 | 8         | 40          | 190      | 26 | 34     |             |          |    |         | 11.31 |             | tr |         | 1       |             |
| 6A016    | 2785258.0   | 6382596.7 | 14        | 60          | 90       | 18 | 32     |             |          |    |         | 13.13 |             | tr |         | 3       |             |
| 6A017    | 2785388.1   | 6382545.4 | 12        | 52.5        | 70       | 4  | 16     |             |          |    |         | 12.88 |             | tr |         | 3       |             |
| 6A018    | 2785227.2   | 6382490.6 | 26        | 80          | 80       | 8  | 34     | 100         | 50       | 6  | 20      | 18.00 | 15.64       | tr | Yes     | 4       |             |
| 6A019    | 2785240.9   | 6382432.5 | 14        | 20          | 50       | 4  | 18     |             |          |    |         | 34.99 |             | tr |         | 0       |             |
| 6A020    | 2785138.3   | 6382429.0 | 26        | 70          | 70       | 6  | 32     | 70          | 40       | 6  | 18      | 20.38 | 20.38       | tr |         | 4       |             |
| 6A021    | 2785076.7   | 6382370.9 | 22        | 70          | 60       | 8  | 30     |             |          |    |         | 17.45 |             | tr |         | 3       |             |
| 6A022    | 2785076     | 6382442.7 | 26        | 80          | 165      | 6  | 32     |             |          |    |         | 18.00 |             | tr |         | 1       |             |
| 6A023    | 2785039.1   | 6382288.7 | 14        | 27.5        | 50       | 12 | 26     |             |          |    |         | 26.98 |             | tr |         | 3       |             |
| 6A024    | 2784871.4   | 6382302.4 | 16        | 70          | 65       | 24 | 40     |             |          |    |         | 12.88 |             | tr |         | 3       |             |
| 6A025    | 2785008.3   | 6382227.2 | 12        | 25          | 65       | 14 | 26     |             |          |    |         | 25.64 |             | tr |         | 1       |             |
| 6A026    | 2784967.2   | 6382158.7 | 16        | 57.5        | 85       | 8  | 24     |             |          |    |         | 15.55 |             | tr |         | 3       |             |
| 6A027    | 2784868.0   | 6382104.0 | 22        | 70          | 45       | 8  | 30     |             |          |    |         | 17.45 |             | tr |         | 1       |             |
| 6A028    | 2784714.0   | 6382186.1 | 13        | 140         | 65       | 24 | 37     |             |          |    |         | 5.31  |             | tr |         | 1       |             |
| 6A029    | 2784882.6   | 6381984.8 | 34        | 80          | 175      | 6  | 40     | 85          | 165      | 5  | 30      | 23.03 | 22.38       | tr |         | 4       |             |
| 6A030    | 2784939.7   | 6381870.5 | 16        | 30          | 50       | 4  | 20     |             |          |    |         | 28.07 |             | tr |         | 1       |             |
| 6A031    | 2784976.1   | 6381805.6 | 12        | 25          | 65       | 6  | 18     |             |          |    |         | 25.64 |             | tr |         | 1       |             |
| 6A032    | 2784776     | 6381862.7 | 26        | 60          | 290      | 16 | 42     | 200         | 270      | 4  | 30      | 23.43 | 10.76       | tr |         | 4       |             |
| 6A033    | 2784651.5   | 6381896.5 | 2         | 40          | 120      | 38 | 40     | 100         | 80       | 20 | 32      | 2.86  | 11.31       | tr |         | 4       |             |
| 6A034    | 2784771.8   | 6380428.8 | 16        | 35          | 90       | 18 | 34     |             |          |    |         | 24.57 |             | tr |         | 3       |             |
| 6A035    | 2784756.3   | 6380315.3 | 32        | 85          | 115      | 8  | 40     |             |          |    |         | 20.63 |             | tr |         | 3       |             |
| 6A036    | 2784802.8   | 6380217.2 | 30        | 50          | 100      | 16 | 46     |             |          |    |         | 30.96 |             | tr |         | 3       |             |
| 6A037    | 2784844.0   | 6380098.5 | 24        | 45          | 50       | 8  | 32     |             |          |    |         | 28.07 |             | tr |         | 0       |             |
| 6A038    | 2784699.5   | 6379979.8 | 18        | 105         | 120      | 26 | 44     |             |          |    |         | 9.73  |             | tr |         | 1       |             |
| 6A039    | 2784653.1   | 6379546.3 | 10        | 50          | 55       | 36 | 46     |             |          |    |         | 11.31 |             | tr |         | 0       |             |
| 6A040    | 2785365.3   | 6379520.5 | 14        | 45          | 55       | 32 | 46     |             |          |    |         | 17.28 |             | tr |         | 1       |             |
| 6A041    | 2785210.5   | 6379510.2 | 20        | 35          | 130      | 26 | 46     |             |          |    |         | 29.74 |             | tr |         | 1       |             |
| 6A042    | 2785127.9   | 6379541.1 | 32        | 55          | 80       | 20 | 52     |             |          |    |         | 30.19 |             | tr |         | 3       |             |
| 6A043    | 2785071.1   | 6379608.2 | 32        | 40          | 300      | 18 | 50     |             |          |    |         | 38.66 |             | tr |         | 3       |             |
| 6A044    | 2785029.8   | 6379783.7 | 26        | 25          | 115      | 16 | 42     |             |          |    |         | 46.12 |             | tr | Yes     | 1       |             |
| 6A045    | 2785112.4   | 6380000.5 | 36        | 155         | 335      | 6  | 42     | 270         | 85       | 6  | 24      | 13.08 | 7.59        | tr | Yes     | 3       |             |
| 6A046    | 2784942.1   | 6380191.4 | 20        | 25          | 40       | 10 | 30     |             |          |    |         | 38.66 |             | tr |         | 1       |             |
| 6A047    | 2784936.9   | 6380263.7 | 18        | 30          | 70       | 10 | 28     |             |          |    |         | 30.96 |             | tr |         | 1       |             |
| 6A048    | 2784952.4   | 6380330.8 | 6         | 30          | 50       | 24 | 30     |             |          |    |         | 11.31 |             | tr |         | 3       |             |
| 6A049    | 2785174.3   | 6380464.9 | 18        | 65          | 75       | 20 | 38     |             |          |    |         | 15.48 |             | tr |         | 3       |             |
| 6A050    | 2785164.0   | 6380624.9 | 32        | 55          | 225      | 10 | 42     |             |          |    |         | 30.19 |             | tm |         | 3       |             |
| 6A051    | 2784988.6   | 6380614.6 | 32        | 40          | 120      | 10 | 42     |             |          |    |         | 38.66 |             | tm |         | 3       |             |
| 6A052    | 2785009.2   | 6380748.8 | 12        | 40          | 100      | 30 | 42     |             |          |    |         | 16.70 |             | tm |         | 3       |             |
| 6A053    | 2785122.7   | 6380939.7 | 24        | 100         | 170      | 12 | 36     |             |          |    |         | 13.50 |             | tm | Yes     | 3       |             |
| 6A054    | 2784957.6   | 6381099.7 | 42        | 70          | 320      | 6  | 48     |             |          |    |         | 30.96 |             | tr |         | 1       |             |
| 6A055    | 2784642.8   | 6381182.3 | 4         | 7.5         | 60       | 6  | 10     |             |          |    |         | 28.07 |             | tr |         | 1       |             |
| 6A056    | 2784730.5   | 6381218.4 | 4         | 20          | 90       | 6  | 10     |             |          |    |         | 11.31 |             | tr |         | 1       |             |
| 6A057    | 2784833.7   | 6381259.7 | 14        | 35          | 40       | 6  | 20     |             |          |    |         | 21.80 |             | tr | Yes     | 3       |             |
| 6A058    | 2785014.4   | 6381275.2 | 28        | 130         | 60       | 6  | 34     |             |          |    |         | 12.15 |             | tr |         | 3       |             |
| 6A059    | 2785122.7   | 6381187.5 | 4         | 40          | 150      | 38 | 42     |             |          |    |         | 5.71  |             | tr |         | 1       |             |
| 6A060    | 2785122.7   | 6381795.8 | 32        | 175         | 85       | 6  | 38     |             |          |    |         | 10.36 |             | tr | Yes     | 3       |             |
| 6A061    | 2785250.2   | 6381332.3 | 18        | 80          | 125      | 26 | 44     |             |          |    |         | 12.68 |             | tm |         | 1       |             |
| 6A062    | 2785455.4   | 6382312.1 | 8         | 100         | 130      | 34 | 42     |             |          |    |         | 4.57  |             | tm |         | 1       |             |
| 6A063    | 2785304.0   | 6381507.2 | 18        | 65          | 80       | 12 | 30     |             |          |    |         | 15.48 |             | tm |         | 1       |             |
| 6A064    | 2785396.8   | 6381608.2 | 22        | 125         | 120      | 12 | 34     |             |          |    |         | 9.98  |             | tm |         | 3       |             |
| 6A065    | 2785474.7   | 6381595.2 | 14        | 60          | 135      | 22 | 36     |             |          |    |         | 13.13 |             | tm |         | 1       |             |
| 6A066    | 2785586.4   | 6381784.8 | 26        | 50          | 70       | 6  | 32     |             |          |    |         | 27.47 |             | tm |         | 3       |             |
| 6A067    | 2785718.8   | 6381701.7 | 6         | 50          | 35       | 32 | 38     |             |          |    |         | 6.84  |             | tm |         | 1       |             |
| 6A068    | 2785820.1   | 6381797.8 | 16        | 30          | 130      | 16 | 32     | 100         | 60       | 10 | 20      | 28.07 | 12.41       | tm |         | 4       |             |
| 6A069    | 2785934.4   | 6381878.3 | 12        | 25          | 95       | 18 | 30     | 105         | 95       | 6  | 21      | 25.64 | 12.88       | tr |         | 4       |             |
| 6A070    | 2785960.4   | 6381945.8 | 13        | 35          | 40       | 10 | 23     |             |          |    |         | 20.38 |             | tr |         | 3       |             |
| 6A071    | 2786037.2   | 6381799.8 | 8         | 75          | 150      | 30 | 38     |             |          |    |         | 6.09  |             | tr |         | 1       |             |
| 6A072    | 2786289.5   | 6381947.8 | 14        | 65          | 50       | 18 | 32     |             |          |    |         | 12.15 |             | tr |         | 1       |             |
| 6A073    | 2786370.2   | 6382035.2 | 15        | 47.5        | 115      | 16 | 31     |             |          |    |         | 17.53 |             | tr |         | 3       |             |
| 6A074    | 2786360.1   | 6382119.3 | 14        | 20          | 95       | 16 | 30     |             |          |    |         | 34.99 |             | tr |         | 1       |             |
| 6A075    | 2786289.5   | 6382156.3 | 18        | 30          | 70       | 16 | 34     |             |          |    |         | 30.96 |             | tr |         | 1       |             |
| 6A076    | 2786154.9   | 6382126.0 | 18        | 40          | 140      | 16 | 34     |             |          |    |         | 24.23 |             | tr |         | 1       |             |
| 6A077    | 2785833.1   | 6382252.3 | 4         | 25          | 70       | 4  | 8      |             |          |    |         | 9.09  |             | tr |         | 1       |             |
| 6A078    | 2786022.7   | 6382291.2 | 28        | 120         | 100      | 4  | 32     |             |          |    |         | 13.13 |             | tr | Yes     | 3       |             |
| 6A079    | 2786142.2   | 6382395.1 | 26        | 65          | 75       | 4  | 30     |             |          |    |         | 21.80 |             | tr |         | 3       |             |
| 6A080    | 2786178.5   | 6382356.2 | 20        | 30          | 210      | 16 | 36     |             |          |    |         | 33.69 |             | tr |         | 3       |             |
| 6A081    | 2786259.2   | 6382603.6 | 25        | 30          | 90       | 6  | 31     |             |          |    |         | 39.81 |             | tr |         | 1       |             |
| 6A082    | 2786508.1   | 6382724.7 | 22        | 95          | 85       | 6  | 28     |             |          |    |         | 13.04 |             | tr |         | 3       |             |
| 6A083    | 2786471.1   | 6382650.7 | 24        | 17.5        | 110      | 6  | 30     |             |          |    |         | 53.90 |             | tr |         | 3       |             |
| 6A084    | 2786585.4   | 6382539.7 | 3         | 15          | 75       | 6  | 9      |             |          |    |         | 11.31 |             | tr |         | 3       |             |
| 6A085    | 2786437.4   | 6382307.6 | 22        | 90          | 115      | 8  | 30     |             |          |    |         | 13.74 |             | tr | Yes     | 3       |             |
| 6A086    | 2786511.4   | 6382183.2 | 16        | 50          | 65       | 14 | 30     |             |          |    |         | 17.74 |             | tr |         | 1       |             |
| 6A087    | 2786494.6   | 6382031.9 | 12        | 60          | 70       | 18 | 30     |             |          |    |         | 11.31 |             | tr |         | 1       |             |
| 6A088    | 2786518.2   | 6381836.8 | 4         | 45          | 50       | 28 | 32     |             |          |    |         | 5.08  |             | tr |         | 1       |             |
| 6A089    | 2786605.6   | 6382058.8 | 14        | 30          | 125      | 16 | 30     |             |          |    |         | 25.02 |             | tr |         | 1       |             |

| Ref. No. | Coordinates |           | Height(m) | Scarp       |          | Bottom |    | Runout      |          | Toe Top |    | Slope angle |        | Geology | Seepage | Geo. Symbol |
|----------|-------------|-----------|-----------|-------------|----------|--------|----|-------------|----------|---------|----|-------------|--------|---------|---------|-------------|
|          |             |           |           | Distance(m) | Width(m) | RL     | RL | Distance(m) | Width(m) | RL      | RL | Scarp       | Runout |         |         |             |
| 6A090    | 2786686.3   | 6382189.9 | 14        | 45          | 180      | 16     | 30 | 95          | 60       | 10      | 28 | 17.28       | 11.89  | tr      |         | 2           |
| 6A091    | 2786794.0   | 6382455.6 | 18        | 40          | 220      | 14     | 32 |             |          |         |    | 24.23       |        | tr      |         | 1           |
| 6A092    | 2786820.9   | 6382654.1 | 18        | 115         | 185      | 12     | 30 |             |          |         |    | 8.90        |        | tr      |         | 3           |
| 6A093    | 2787609.3   | 6382610.6 | 22        | 40          | 50       | 4      | 26 |             |          |         |    | 28.81       |        | tr      |         | 3           |
| 6A094    | 2787526.8   | 6382591.2 | 16        | 25          | 120      | 6      | 22 |             |          |         |    | 32.62       |        | tr      |         | 3           |
| 6A095    | 2787338.8   | 6382620.4 | 24        | 120         | 210      | 4      | 28 |             |          |         |    | 11.31       |        | tr      | Yes     | 3           |
| 6A096    | 2787163.9   | 6382556.5 | 18        | 40          | 60       | 10     | 28 |             |          |         |    | 24.23       |        | tr      |         | 3           |
| 6A097    | 2787113.5   | 6382502.7 | 16        | 35          | 65       | 10     | 26 | 90          | 40       | 4       | 14 | 24.57       | 13.74  | tr      |         | 4           |
| 6A098    | 2786851.1   | 6382314.4 | 8         | 75          | 95       | 24     | 32 |             |          |         |    | 6.09        |        | tr      |         | 1           |
| 6A099    | 2786938.6   | 6382385.0 | 8         | 80          | 10       | 12     | 20 |             |          |         |    | 5.71        |        | tr      |         | 3           |
| 6A100    | 2786945.3   | 6382247.1 | 12        | 180         | 85       | 18     | 30 |             |          |         |    | 3.81        |        | tr      |         | 1           |
| 6A101    | 2787032.7   | 6382169.8 | 12        | 25          | 110      | 8      | 20 |             |          |         |    | 25.64       |        | tr      |         | 1           |
| 6A102    | 2786915.0   | 6381887.2 | 20        | 50          | 130      | 8      | 28 | 70          | 65       | 6       | 28 | 21.80       | 17.45  | tr      |         | 2           |
| 6A103    | 2786851.1   | 6381688.8 | 24        | 165         | 230      | 10     | 34 | 185         | 125      | 8       | 22 | 8.28        | 8.00   | tr      | Yes     | 3           |
| 6A104    | 2787083.2   | 6381934.3 | 8         | 20          | 105      | 10     | 18 | 65          | 60       | 4       | 10 | 21.80       | 12.15  | tr      |         | 4           |
| 6A105    | 2787143.7   | 6382008.3 | 14        | 25          | 85       | 6      | 20 |             |          |         |    | 29.25       |        | tr      |         | 1           |
| 6A106    | 2787231.2   | 6382206.7 | 11        | 25          | 60       | 6      | 17 |             |          |         |    | 23.75       |        | tr      |         | 3           |
| 6A107    | 2787325.3   | 6382243.7 | 20        | 45          | 120      | 6      | 26 |             |          |         |    | 23.96       |        | tr      |         | 3           |
| 6A108    | 2787444.3   | 6382324.3 | 15        | 40          | 55       | 4      | 19 |             |          |         |    | 20.56       |        | tr      |         | 3           |
| 6A109    | 2787924.7   | 6382469.8 | 12        | 50          | 105      | 2      | 14 |             |          |         |    | 13.50       |        | tr      |         | 1           |
| 6A110    | 2788201.3   | 6382727.0 | 14        | 25          | 75       | 4      | 18 |             |          |         |    | 29.25       |        | tr      |         | 3           |
| 6A111    | 2788322.6   | 6382668.8 | 12        | 40          | 80       | 4      | 16 |             |          |         |    | 16.70       |        | tr      |         | 1           |
| 6A112    | 2787963.5   | 6382314.6 | 15        | 45          | 55       | 2      | 17 | 85          | 30       | 0       | 16 | 18.43       | 11.31  | tr      |         | 2           |
| 6A113    | 2787958.7   | 6382309.7 | 18        | 55          | 55       | 4      | 22 |             |          |         |    | 18.12       |        | tr      | Yes     | 3           |
| 6A114    | 2787885.9   | 6382067.1 | 16        | 55          | 125      | 2      | 18 |             |          |         |    | 16.22       |        | tr      |         | 1           |
| 6A115    | 2787817.9   | 6381999.1 | 16        | 47.5        | 90       | 4      | 20 |             |          |         |    | 18.62       |        | tr      |         | 3           |
| 6A116    | 2787716.0   | 6381906.9 | 16        | 40          | 75       | 4      | 20 |             |          |         |    | 21.80       |        | tr      |         | 1           |
| 6A117    | 2787677.2   | 6381868.1 | 6         | 20          | 50       | 6      | 12 |             |          |         |    | 16.70       |        | tr      |         | 1           |
| 6A118    | 2787502.5   | 6381868.1 | 12        | 40          | 130      | 8      | 20 |             |          |         |    | 16.70       |        | tr      |         | 3           |
| 6A119    | 2787526.8   | 6381800.2 | 6         | 25          | 45       | 8      | 14 |             |          |         |    | 13.50       |        | tr      |         | 3           |
| 6A120    | 2787696.6   | 6381785.6 | 12        | 45          | 100      | 6      | 18 |             |          |         |    | 14.93       |        | tr      | prob    | 3           |
| 6A121    | 2787352.1   | 6381746.8 | 10        | 165         | 150      | 18     | 28 |             |          |         |    | 3.47        |        | tr      |         | 1           |
| 6A122    | 2787444.3   | 6381635.2 | 6         | 55          | 35       | 22     | 28 |             |          |         |    | 6.23        |        | tr      |         | 3           |
| 6A123    | 2787604.4   | 6381688.6 | 10        | 65          | 120      | 16     | 26 |             |          |         |    | 8.75        |        | tr      |         | 1           |
| 6A124    | 2787701.5   | 6381533.3 | 18        | 50          | 150      | 4      | 22 | 80          | 55       | 2       | 8  | 19.80       | 14.04  | tr      |         | 4           |
| 6A125    | 2787390.9   | 6381421.7 | 10        | 35          | 150      | 22     | 32 | 125         | 95       | 2       | 28 | 15.95       | 13.50  | tr      |         | 2           |
| 6A126    | 2787172.5   | 6381188.7 | 8         | 87.5        | 55       | 26     | 34 |             |          |         |    | 5.22        |        | tr      |         | 1           |
| 6A127    | 2787162.8   | 6380897.6 | 12        | 30          | 45       | 18     | 30 |             |          |         |    | 21.80       |        | tr      |         | 3           |
| 6A128    | 2787182.2   | 6380815.1 | 20        | 30          | 75       | 4      | 24 |             |          |         |    | 33.69       |        | tr      |         | 1           |
| 6A129    | 2787143.4   | 6380747.1 | 19        | 60          | 60       | 10     | 29 |             |          |         |    | 17.57       |        | tr      |         | 3           |
| 6A130    | 2787090.0   | 6380718.0 | 16        | 65          | 35       | 14     | 30 |             |          |         |    | 13.83       |        | tr      |         | 0           |
| 6A131    | 2786900.8   | 6380737.4 | 6         | 10          | 45       | 12     | 18 |             |          |         |    | 30.96       |        | tr      | Yes     | 3           |
| 6A132    | 2786944.5   | 6380810.2 | 14        | 40          | 60       | 26     | 40 |             |          |         |    | 19.29       |        | tr      |         | 1           |
| 6A133    | 2786818.3   | 6380912.1 | 24        | 110         | 80       | 10     | 34 |             |          |         |    | 12.31       |        | tr      | Yes     | 3           |
| 6A134    | 2786755.2   | 6380878.2 | 28        | 55          | 170      | 10     | 38 | 100         | 80       | 8       | 24 | 26.98       | 16.70  | tr      |         | 4           |
| 6A135    | 2786576.4   | 6380667.8 | 10        | 50          | 65       | 34     | 44 | 150         | 75       | 6       | 20 | 11.31       | 14.22  | tr      |         | 2           |
| 6A136    | 2786576.4   | 6380540.6 | 36        | 55          | 55       | 4      | 40 | 90          | 60       | 4       | 16 | 33.21       | 21.80  | tr      |         | 4           |
| 6A137    | 2786466.1   | 6380468.5 | 32        | 45          | 75       | 6      | 38 | 100         | 55       | 3       | 22 | 35.42       | 19.29  | tr      |         | 4           |
| 6A138    | 2786398.2   | 6380438.8 | 21        | 50          | 55       | 16     | 37 | 65          | 35       | 6       | 32 | 22.78       | 25.50  | tr      |         | 4           |
| 6A139    | 2786314.9   | 6380583.6 | 11        | 50          | 95       | 28     | 39 |             |          |         |    | 12.41       |        | tr      |         | 3           |
| 6A140    | 2786082.7   | 6380578.5 | 8         | 30          | 140      | 30     | 38 |             |          |         |    | 14.93       |        | tr      |         | 3           |
| 6A141    | 2785917.5   | 6380635.2 | 4         | 25          | 75       | 34     | 38 | 50          | 35       | 30      | 36 | 9.09        | 9.09   | tr      |         | 2           |
| 6A142    | 2785773.0   | 6380583.6 | 14        | 60          | 135      | 24     | 38 |             |          |         |    | 13.13       |        | tr      |         | 3           |
| 6A143    | 2785592.4   | 6380434.0 | 8         | 155         | 60       | 32     | 40 |             |          |         |    | 2.95        |        | tr      |         | 0           |
| 6A144    | 2785742.0   | 6380274.0 | 19        | 175         | 170      | 18     | 37 |             |          |         |    | 6.20        |        | tr      |         | 3           |
| 6A145    | 2785607.9   | 6380119.2 | 16        | 155         | 80       | 22     | 38 |             |          |         |    | 5.89        |        | tr      |         | 3           |
| 6A146    | 2785726.6   | 6379897.2 | 16        | 100         | 195      | 30     | 46 |             |          |         |    | 9.09        |        | tr      |         | 1           |
| 6A147    | 2786072.3   | 6379959.2 | 18        | 100         | 130      | 18     | 36 |             |          |         |    | 10.20       |        | tr      |         | 1           |
| 6A148    | 2786196.2   | 6380088.2 | 18        | 100         | 175      | 12     | 30 |             |          |         |    | 10.20       |        | tr      |         | 1           |
| 6A149    | 2786072.3   | 6379830.1 | 30        | 75          | 365      | 10     | 40 | 135         | 275      | 6       | 24 | 21.80       | 14.14  | tr      |         | 4           |
| 6A150    | 2785943.3   | 6379726.9 | 28        | 100         | 45       | 16     | 44 | 175         | 50       | 10      | 18 | 15.64       | 10.99  | tr      |         | 2           |
| 6A151    | 2786005.2   | 6379665.0 | 10        | 35          | 20       | 12     | 22 |             |          |         |    | 15.95       |        | tr      |         | 0           |
| 6A152    | 2785933.0   | 6379577.3 | 18        | 60          | 40       | 14     | 32 |             |          |         |    | 16.70       |        | tr      |         | 3           |
| 6A153    | 2785907.2   | 6379530.8 | 12        | 40          | 60       | 16     | 28 |             |          |         |    | 16.70       |        | tr      |         | 3           |
| 6A154    | 2785948.5   | 6379520.5 | 10        | 30          | 35       | 20     | 30 |             |          |         |    | 18.43       |        | tr      |         | 1           |
| 6A155    | 2785762.7   | 6379499.9 | 6         | 65          | 40       | 38     | 44 |             |          |         |    | 5.27        |        | tr      |         | 1           |
| 6A156    | 2786216.8   | 6379489.5 | ?         | 125         | 140      | 20     | ?  |             |          |         |    | ?           |        | tr      |         | 1           |
| 6A157    | 2786299.4   | 6379675.3 | 28        | 55          | 180      | 14     | 42 | 90          | 110      | 14      | 22 | 26.98       | 17.28  | tr      | Yes     | 4           |
| 6A158    | 2786500.0   | 6379709.3 | 10        | 60          | 225      | 32     | 42 |             |          |         |    | 9.46        |        | tr      |         | 1           |
| 6A159    | 2786432.2   | 6379739.0 | 28        | 195         | 50       | 8      | 36 |             |          |         |    | 8.17        |        | tr      | Yes     | 3           |
| 6A160    | 2786470.4   | 6379900.2 | 14        | 65          | 75       | 8      | 22 |             |          |         |    | 12.15       |        | tr      |         | 1           |
| 6A161    | 2786580.6   | 6379921.4 | 26        | 150         | 245      | 10     | 36 |             |          |         |    | 9.83        |        | tr      |         | 1           |
| 6A162    | 2786801.2   | 6380035.9 | 16        | 40          | 90       | 6      | 22 |             |          |         |    | 21.80       |        | tr      |         | 1           |
| 6A163    | 2786877.5   | 6380018.9 | 14        | 35          | 75       | 10     | 24 |             |          |         |    | 21.80       |        | tr      |         | 3           |
| 6A164    | 2787098.1   | 6380273.4 | 6         | 45          | 55       | 6      | 12 |             |          |         |    | 7.59        |        | tr      |         | 0           |
| 6A165    | 2787255.0   | 6380383.7 | 8         | 15          | 50       | 6      | 14 |             |          |         |    | 28.07       |        | tr      |         | 3           |
| 6A166    | 2786932.6   | 6379853.5 | 16        | 40          | 140      | 6      | 22 |             |          |         |    | 21.80       |        | tr      |         | 3           |
| 6A167    | 2786729.1   | 6379577.8 | 38        | 90          | 335      | 8      | 46 | 130         | 65       | 6       | 38 | 22.89       | 17.10  | tr      |         | 3           |
| 6A168    | 2787471.3   | 6379560.9 | 10        | 35          | 90       | 4      | 14 |             |          |         |    | 15.95       |        | tm      |         | 1           |
| 6A169    | 2788065.1   | 6379467.5 | 2         | 25          | 165      | 38     | 40 |             |          |         |    | 4.57        |        | tm      |         | 3           |
| 6A170    | 2788069.3   | 6379616.0 | 6         | 45          | 180      | 42     | 48 |             |          |         |    | 7.59        |        | tm      |         | 1           |
| 6A171    | 2787848.7   | 6379518.4 | 8         | 50          | 100      | 30     | 38 |             |          |         |    | 9.09        |        | tm      |         | 1           |
| 6A172    | 2787763.9   | 6379552.4 | 10        | 50          | 100      | 20     | 30 |             |          |         |    | 11.31       |        | tm      |         | 3           |
| 6A173    | 2787814.8   | 6379671.1 | 12        | 55          | 120      | 20     | 32 |             |          |         |    | 12.31       |        | tm      |         | 1           |
| 6A174    | 2787908.1   | 6379624.5 | 10        | 35          | 100      | 28     | 38 |             |          |         |    | 15.95       |        | tm      |         | 3           |
| 6A175    | 2787959.0   | 6379739.0 | 10        | 20          | 50       | 30     | 40 |             |          |         |    | 26.57       |        | tm      |         | 3           |
| 6A176    | 2787976.0   | 6379849.3 | 20        | 75          | 235      | 24     | 44 | 165         | 160      | 16      | 30 | 14.93       | 9.63   | tm      |         | 4           |

| Ref. No. | Coordinates |           | Height(m) | Scarp       |          | Bottom |    | Runout      |          | Toe Top |    | Slope angle |        | Geology | Seepage | Geo. Symbol |
|----------|-------------|-----------|-----------|-------------|----------|--------|----|-------------|----------|---------|----|-------------|--------|---------|---------|-------------|
|          |             |           |           | Distance(m) | Width(m) | RL     | RL | Distance(m) | Width(m) | RL      | RL | Scarp       | Runout |         |         |             |
| 6A177    | 2788022.6   | 6380112.2 | 10        | 50          | 140      | 20     | 30 |             |          |         |    | 11.31       |        | tm      |         | 3           |
| 6A178    | 2788099.0   | 6380184.3 | 16        | 85          | 115      | 8      | 24 |             |          |         |    | 10.66       |        | tm      | Yes     | 3           |
| 6A179    | 2788183.8   | 6380116.5 | 28        | 125         | 160      | 8      | 36 |             |          |         |    | 12.63       |        | tm      |         | 3           |
| 6A180    | 2788315.3   | 6380218.2 | 24        | 90          | 175      | 10     | 34 |             |          |         |    | 14.93       |        | tm      | Yes     | 3           |
| 6A181    | 2788361.9   | 6380379.4 | 6         | 70          | 70       | 24     | 30 |             |          |         |    | 4.90        |        | tm      |         | 1           |
| 6A182    | 2788277.1   | 6380430.3 | 14        | 70          | 90       | 6      | 20 | 80          | 40       | 5       | 14 | 11.31       | 10.62  | tm      |         | 3           |
| 6A183    | 2788378.9   | 6380578.7 | 18        | 60          | 120      | 6      | 24 | 80          | 75       | 6       | 18 | 16.70       | 12.68  | tm      |         | 4           |
| 6A184    | 2787780.9   | 6380379.4 | 8         | 70          | 130      | 2      | 10 |             |          |         |    | 6.52        |        | tm      |         | 1           |
| 6A185    | 2787434.6   | 6380844.2 | 8         | 30          | 80       | 2      | 10 |             |          |         |    | 14.93       |        | tm      |         | 0           |
| 6A186    | 2787652.9   | 6380795.7 | 4         | 20          | 110      | 6      | 10 |             |          |         |    | 11.31       |        | tm      |         | 3           |
| 6A187    | 2787735.4   | 6380887.9 | 8         | 17.5        | 125      | 4      | 12 |             |          |         |    | 24.57       |        | tm      |         | 2           |
| 6A188    | 2788.055    | 6381086.8 | 4         | 15          | 75       | 4      | 8  |             |          |         |    | 14.93       |        | tm      |         | 3           |
| 6A189    | 2788215.9   | 6381227.6 | 6         | 20          | 75       | 2      | 8  |             |          |         |    | 16.70       |        | tm      |         | 3           |
| 6A190    | 2788327.5   | 6381310.0 | 4         | 20          | 80       | 4      | 8  |             |          |         |    | 11.31       |        | tm      |         | 3           |
| 6A191    | 2787978.1   | 6380766.5 | 4         | 20          | 85       | 4      | 8  |             |          |         |    | 11.31       |        | tm      | Yes     | 3           |
| 6A192    | 2788589.5   | 6380708.3 | 25        | 90          | 30       | 6      | 31 | 110         | 35       | 4       | 14 | 15.52       | 13.79  | tm      |         | 3           |
| 6A193    | 2788315.3   | 6380493.9 | 22        | 115         | 150      | 8      | 30 |             |          |         |    | 10.83       |        | tm      |         | 3           |
| 6A194    | 2788497.7   | 6380366.7 | 8         | 70          | 120      | 30     | 38 |             |          |         |    | 6.52        |        | tm      |         | 1           |
| 6A195    | 2788565.5   | 6380303.1 | 8         | 40          | 40       | 20     | 28 |             |          |         |    | 11.31       |        | tm      |         | 3           |
| 6A196    | 2788642.9   | 6380214.0 | 14        | 45          | 65       | 12     | 26 |             |          |         |    | 17.28       |        | tm      |         | 3           |
| 6A197    | 2788607.9   | 6380091.0 | 14        | 22.5        | 70       | 18     | 32 |             |          |         |    | 31.89       |        | tm      |         | 3           |
| 6A198    | 2788535.8   | 6380052.8 | 8         | 25          | 80       | 28     | 36 | 90          | 50       | 18      | 34 | 17.74       | 11.31  | tm      |         | 4           |
| 6A199    | 2788489.2   | 6380040.1 | 10        | 30          | 95       | 26     | 36 | 85          | 75       | 18      | 30 | 18.43       | 11.96  | tm      |         | 4           |
| 6A200    | 2788540.1   | 6379925.6 | 8         | 35          | 60       | 22     | 30 | 65          | 40       | 20      | 24 | 12.88       | 8.75   | tm      |         | 4           |
| 6A201    | 2788548.6   | 6379789.9 | 12        | 40          | 100      | 26     | 38 |             |          |         |    | 16.70       |        | tm      |         | 1           |
| 6A202    | 2788786.1   | 6379556.6 | 6         | 35          | 60       | 50     | 56 |             |          |         |    | 9.73        |        | tm      |         | 0           |
| 6A203    | 2788930.3   | 6379607.5 | 50        | 125         | 190      | 24     | 74 | 110         | 180      | 18      | 58 | 21.80       | 26.98  | tm      |         | 4           |
| 6A204    | 2788760.6   | 6379666.9 | 14        | 80          | 105      | 46     | 60 |             |          |         |    | 9.93        |        | tm      |         | 1           |
| 6A205    | 2788930.3   | 6379845.0 | 20        | 110         | 210      | 38     | 58 |             |          |         |    | 10.30       |        | tm      |         | 1           |
| 6A206    | 2788786.1   | 6379883.2 | 8         | 105         | 105      | 40     | 48 |             |          |         |    | 4.36        |        | tm      |         | 1           |
| 6A207    | 2788815.7   | 6379959.5 | 14        | 95          | 90       | 32     | 46 |             |          |         |    | 8.38        |        | tm      |         | 1           |
| 6A208    | 2789006.6   | 6379904.4 | 16        | 40          | 100      | 20     | 36 | 85          | 40       | 18      | 31 | 21.80       | 11.96  | tm      |         | 2           |
| 6A209    | 2789006.6   | 6379959.5 | 14        | 35          | 135      | 16     | 30 | 55          | 60       | 18      | 22 | 21.80       | 12.31  | tm      |         | 2           |
| 6A210    | 2789040.5   | 6380141.9 | 12        | 35          | 100      | 18     | 30 |             |          |         |    | 18.92       |        | tm      |         | 3           |
| 6A211    | 2788853.9   | 6380201.3 | 14        | 135         | 145      | 22     | 36 |             |          |         |    | 5.92        |        | tm      |         | 1           |
| 6A212    | 2788853.9   | 6380337.0 | 20        | 125         | 195      | 6      | 26 |             |          |         |    | 9.09        |        | tm      |         | 1           |
| 6A213    | 2789023.6   | 6380239.5 | 16        | 50          | 150      | 14     | 30 | 70          | 55       | 18      | 24 | 17.74       | 9.73   | tm      |         | 2           |
| 6A214    | 2788947.2   | 6380349.7 | 1         | 15          | 115      | 34     | 35 |             |          |         |    | 3.81        |        | tm      |         | 1           |
| 6A215    | 2788824.2   | 6380489.7 | 10        | 60          | 55       | 10     | 20 |             |          |         |    | 9.46        |        | tm      |         | 1           |
| 6A216    | 2788870.9   | 6380616.9 | 10        | 45          | 55       | 4      | 14 |             |          |         |    | 12.53       |        | tm      |         | 1           |
| 6A217    | 2788895.2   | 6380679.2 | 8         | 30          | 50       | 4      | 12 |             |          |         |    | 14.93       |        | tm      |         | 1           |
| 6A218    | 2788863.2   | 6380790.8 | 16        | 75          | 100      | 4      | 20 |             |          |         |    | 12.04       |        | tm      |         | 1           |
| 6A219    | 2789011.7   | 6380980.1 | ?         | 30          | 30       | ?      | ?  |             |          |         |    | ?           |        | tm      |         | 1           |
| 6A220    | 2788997.1   | 6381009.2 | ?         | 40          | 35       | 4      | ?  |             |          |         |    | ?           |        | tm      |         | 3           |
| 6A221    | 2788997.1   | 6381111.1 | 18        | 55          | 50       | 4      | 22 |             |          |         |    | 18.12       |        | tm      |         | 1           |
| 6A222    | 2788992.3   | 6381188.7 | 26        | 85          | 165      | 4      | 30 |             |          |         |    | 17.01       |        | tm      |         | 3           |
| 6A223    | 2788900.1   | 6381237.3 | 20        | 40          | 70       | 6      | 26 |             |          |         |    | 26.57       |        | tm      |         | 3           |
| 6A224    | 2785250.2   | 6381332.3 | 7         | 60          | 50       | 4      | 11 |             |          |         |    | 6.65        |        | tm      |         | 3           |
| 6A225    | 2786037.2   | 6381799.8 | 6         | 50          | 70       | 16     | 22 |             |          |         |    | 6.84        |        | tr      |         | 3           |
| 6A226    | 2787338.8   | 6382620.4 | 18        | 95          | 130      | 6      | 24 |             |          |         |    | 10.73       |        | tr      |         | 1           |
| 6B001    | 2785521.2   | 6376259.9 | 58        | 185         | 200      | 34     | 92 |             |          |         |    | 17.41       |        | wk      |         | 0           |
| 6B002    | 2785695.1   | 6376439.6 | 20        | 125         | 75       | 62     | 82 |             |          |         |    | 9.09        |        | wk      |         | 0           |
| 6B003    | 2785579.2   | 6376943.9 | 46        | 120         | 190      | 22     | 68 |             |          |         |    | 20.97       |        | wk      |         | 0           |
| 6B004    | 2785486.5   | 6377013.4 | 50        | 170         | 100      | 18     | 68 |             |          |         |    | 16.39       |        | wk      |         | 0           |
| 6B005    | 2785660.3   | 6377274.3 | 42        | 90          | 410      | 20     | 62 | 115         | 190      | 22      | 82 | 25.02       | 19.18  | wk      |         | 2           |
| 6B006    | 2785503.8   | 6377314.9 | 16        | 70          | 50       | 18     | 34 |             |          |         |    | 12.88       |        | wk      | Yes     | 0           |
| 6B007    | 2785590.8   | 6377465.6 | 18        | 90          | 45       | 28     | 46 |             |          |         |    | 11.31       |        | wk      |         | 0           |
| 6B008    | 2785648.8   | 6377593.1 | 34        | 145         | 125      | 16     | 50 |             |          |         |    | 13.20       |        | wk      | Yes     | 0           |
| 6B009    | 2785712.5   | 6377767.0 | 24        | 65          | 50       | 18     | 42 |             |          |         |    | 20.27       |        | wk      |         | 0           |
| 6B010    | 2785440.1   | 6377593.1 | 6         | 20          | 55       | 10     | 16 |             |          |         |    | 16.70       |        | fa      | Yes     | 0           |
| 6B011    | 2785561.8   | 6377981.5 | 2         | 30          | 40       | 10     | 12 |             |          |         |    | 3.81        |        | wk      |         | 0           |
| 6B012    | 2785724.1   | 6378062.6 | 8         | 100         | 185      | 8      | 16 |             |          |         |    | 4.57        |        | fa      |         | 0           |
| 6B013    | 2785445.9   | 6378149.6 | 8         | 65          | 85       | 8      | 16 |             |          |         |    | 7.02        |        | fa      |         | 1           |
| 6B014    | 2785677.7   | 6378474.2 | 46        | 150         | 250      | 6      | 52 |             |          |         |    | 17.05       |        | tr      | Yes     | 3           |
| 6B015    | 2785930.3   | 6378665.6 | 42        | 65          | 285      | 10     | 52 |             |          |         |    | 32.87       |        | tr      | Yes     | 0           |
| 6B016    | 2786051.2   | 6378965.0 | 42        | 85          | 265      | 8      | 50 |             |          |         |    | 26.29       |        | tr      | Yes     | 3           |
| 6B017    | 2786483.0   | 6379120.4 | 36        | 95          | 60       | 10     | 46 | 135         | 60       | 2       | 32 | 20.75       | 18.05  | tr      |         | 4           |
| 6B018    | 2786506.0   | 6379339.2 | 12        | 50          | 80       | 34     | 46 |             |          |         |    | 13.50       |        | tr      |         | 1           |
| 6B019    | 2785740.3   | 6379408.3 | 14        | 50          | 90       | 28     | 42 |             |          |         |    | 15.64       |        | wk      |         | 1           |
| 6B020    | 2785792.1   | 6379316.2 | 16        | 100         | 95       | 24     | 40 |             |          |         |    | 9.09        |        | wk      |         | 3           |
| 6B021    | 2785803.7   | 6379235.6 | 8         | 25          | 60       | 28     | 36 |             |          |         |    | 17.74       |        | wk      |         | 1           |
| 6B022    | 2785734.6   | 6379137.7 | 6         | 30          | 65       | 28     | 34 |             |          |         |    | 11.31       |        | wk      |         | 1           |
| 6B023    | 2785556.0   | 6378358.2 | 4         | 50          | 75       | 28     | 32 |             |          |         |    | 4.57        |        | tr      |         | 0           |
| 6B024    | 2785474.9   | 6378346.6 | 12        | 25          | 55       | 40     | 52 |             |          |         |    | 25.64       |        | tr      |         | 0           |
| 6B025    | 2785341.5   | 6378294.5 | 26        | 40          | 135      | 24     | 50 |             |          |         |    | 33.02       |        | tr      | Yes     | 0           |
| 6B026    | 2785028.5   | 6378213.3 | 26        | 45          | 80       | 28     | 54 |             |          |         |    | 30.02       |        | tr      |         | 0           |
| 6B027    | 2784999.5   | 6378503.1 | 30        | 60          | 240      | 24     | 54 |             |          |         |    | 26.57       |        | tr      |         | 3           |
| 6B028    | 2784974.6   | 6378826.8 | 32        | 175         | 150      | 16     | 48 |             |          |         |    | 10.36       |        | tr      | Yes     | 3           |
| 6B029    | 2785147.3   | 6379062.8 | 34        | 130         | 290      | 16     | 50 |             |          |         |    | 14.66       |        | tr      | Yes     | 3           |
| 6B030    | 2785112.8   | 6379339.2 | 30        | 90          | 200      | 16     | 46 |             |          |         |    | 18.43       |        | tr      |         | 3           |
| 6B031    | 2784790.4   | 6379178.0 | 32        | 75          | 205      | 12     | 44 | 100         | 210      | 10      | 34 | 23.11       | 18.78  | tr      |         | 4           |
| 6B032    | 2784732.8   | 6378976.5 | 36        | 70          | 275      | 14     | 50 |             |          |         |    | 27.22       |        | tr      | Yes     | 3           |
| 6B033    | 2784721.3   | 6378462.6 | 32        | 65          | 135      | 18     | 50 |             |          |         |    | 26.21       |        | tr      |         | 0           |
| 6B034    | 2784680.7   | 6378022.0 | 18        | 40          | 100      | 34     | 52 |             |          |         |    | 24.23       |        | tr      |         | 0           |
| 6B035    | 2784831.4   | 6378080.0 | 8         | 20          | 75       | 46     | 54 |             |          |         |    | 21.80       |        | tr      |         | 0           |
| 6B036    | 2784930.0   | 6378016.2 | 10        | 20          | 60       | 44     | 54 |             |          |         |    | 26.57       |        | tr      |         | 0           |
| 6B037    | 2785074.9   | 6377975.7 | 28        | 55          | 55       | 20     | 48 |             |          |         |    | 26.98       |        | tr      |         | 0           |

| Ref. No. | Coordinates | Height(m) | Scarp       |          |     | Bottom |             | Runout   |    | Toe Top |       | Slope angle |       | Geology | Seepage | Geo. Symbol |   |
|----------|-------------|-----------|-------------|----------|-----|--------|-------------|----------|----|---------|-------|-------------|-------|---------|---------|-------------|---|
|          |             |           | Distance(m) | Width(m) | RL  | RL     | Distance(m) | Width(m) | RL | RL      | Scarp | Runout      |       |         |         |             |   |
| 6B038    | 2785011.1   | 6377935.1 | 36          | 65       | 100 | 20     | 56          |          |    |         |       | 28.98       |       | tr      |         | 0           |   |
| 6B039    | 2784848.8   | 6377882.9 | 26          | 75       | 230 | 32     | 58          | 140      |    | 155     | 32    | 42          | 19.12 | 10.52   | tr      |             | 2 |
| 6B040    | 2784680.7   | 6377680.0 | 14          | 65       | 55  | 42     | 56          |          |    |         |       |             | 12.15 |         | tr      |             | 0 |
| 6B041    | 2784727.1   | 6377616.3 | 16          | 50       | 60  | 42     | 58          |          |    |         |       |             | 17.74 |         | tr      |             | 0 |
| 6B042    | 2784796.7   | 6377529.3 | 22          | 90       | 200 | 36     | 58          | 200      |    | 215     | 18    | 38          | 13.74 | 11.31   | tr      |             | 2 |
| 6B043    | 2785225.6   | 6377813.4 | 26          | 30       | 120 | 22     | 48          |          |    |         |       |             | 40.91 |         | wk      |             | 0 |
| 6B044    | 2785364.7   | 6377796.0 | 30          | 75       | 125 | 12     | 42          | 105      |    | 70      | 8     | 18          | 21.80 | 17.94   | wk      |             | 2 |
| 6B045    | 2785306.8   | 6377656.8 | 46          | 120      | 175 | 12     | 58          | 115      |    | 75      | 12    | 36          | 20.97 | 21.80   | wk      |             | 2 |
| 6B046    | 2785301.0   | 6377535.1 | 46          | 92.5     | 80  | 10     | 56          |          |    |         |       |             | 26.44 |         | wk      |             | 0 |
| 6B047    | 2785202.4   | 6377407.6 | 40          | 75       | 230 | 18     | 58          | 100      |    | 45      | 18    | 46          | 28.07 | 21.80   | wk      | Yes         | 2 |
| 6B048    | 2785179.2   | 6377245.3 | 32          | 85       | 55  | 16     | 48          |          |    |         |       |             | 20.63 |         | wk      |             | 0 |
| 6B049    | 2785069.1   | 6377251.1 | 26          | 80       | 135 | 32     | 58          |          |    |         |       |             | 18.00 |         | wk      |             | 0 |
| 6B050    | 2785857.4   | 6377065.6 | 46          | 165      | 205 | 16     | 62          |          |    |         |       |             | 15.58 |         | wk      | Yes         | 0 |
| 6B051    | 2785840.0   | 6377268.5 | 34          | 60       | 300 | 24     | 58          |          |    |         |       |             | 29.54 |         | wk      |             | 0 |
| 6B052    | 2786008.1   | 6377604.7 | 38          | 100      | 200 | 16     | 54          |          |    |         |       |             | 20.81 |         | wk      | Yes         | 0 |
| 6B053    | 2786147.3   | 6377656.8 | 14          | 40       | 50  | 10     | 24          |          |    |         |       |             | 19.29 |         | wk      |             | 0 |
| 6B054    | 2786158.8   | 6377726.4 | 12          | 60       | 40  | 12     | 24          |          |    |         |       |             | 11.31 |         | wk      |             | 0 |
| 6B055    | 2786089.3   | 6377917.7 | 30          | 50       | 45  | 10     | 40          |          |    |         |       |             | 30.96 |         | wk      |             | 0 |
| 6B056    | 2786095.1   | 6377969.9 | 28          | 55       | 40  | 10     | 38          |          |    |         |       |             | 26.98 |         | wk      |             | 0 |
| 6B057    | 2785990.8   | 6377975.7 | 28          | 55       | 115 | 24     | 52          |          |    |         |       |             | 26.98 |         | wk      |             | 0 |
| 6B058    | 2786129.9   | 6378056.8 | 12          | 25       | 60  | 8      | 20          |          |    |         |       |             | 25.64 |         | wk      |             | 0 |
| 6B059    | 2786135.7   | 6378143.8 | 10          | 95       | 170 | 6      | 16          |          |    |         |       |             | 6.01  |         | fa      |             | 3 |
| 6B060    | 2785903.8   | 6378288.7 | 12          | 50       | 120 | 6      | 18          |          |    |         |       |             | 13.50 |         | fa      |             | 3 |
| 6B061    | 2786292.2   | 6378311.9 | 10          | 70       | 50  | 6      | 16          |          |    |         |       |             | 8.13  |         | tm      |             | 3 |
| 6B062    | 2786234.2   | 6378201.7 | 12          | 32.5     | 35  | 6      | 18          |          |    |         |       |             | 20.27 |         | tm      |             | 0 |
| 6B063    | 2786286.4   | 6378097.4 | 14          | 45       | 50  | 6      | 20          |          |    |         |       |             | 17.28 |         | tm      |             | 3 |
| 6B064    | 2786286.4   | 6378039.4 | 14          | 60       | 50  | 6      | 20          |          |    |         |       |             | 13.13 |         | tm      |             | 0 |
| 6B065    | 2786303.8   | 6377929.3 | 12          | 37.5     | 100 | 8      | 20          |          |    |         |       |             | 17.74 |         | tm      |             | 0 |
| 6B066    | 2786379.1   | 6377836.5 | 12          | 40       | 60  | 8      | 20          |          |    |         |       |             | 16.70 |         | tm      |             | 0 |
| 6B067    | 2786452.5   | 6377784.4 | 8           | 75       | 35  | 8      | 16          |          |    |         |       |             | 6.09  |         | tm      |             | 0 |
| 6B068    | 2786529.8   | 6377917.7 | 14          | 25       | 200 | 12     | 26          |          |    |         |       |             | 29.25 |         | wk      |             | 0 |
| 6B069    | 2786767.5   | 6377824.9 | 42          | 100      | 360 | 16     | 58          |          |    |         |       |             | 22.78 |         | wk      |             | 0 |
| 6B070    | 2786477.7   | 6377471.4 | 12          | 60       | 55  | 8      | 20          |          |    |         |       |             | 11.31 |         | wk      |             | 0 |
| 6B071    | 2786605.2   | 6377251.1 | 32          | 50       | 170 | 26     | 58          |          |    |         |       |             | 32.62 |         | wk      |             | 0 |
| 6B072    | 2786721.1   | 6376115.0 | 26          | 75       | 190 | 60     | 86          |          |    |         |       |             | 19.12 |         | wk      |             | 0 |
| 6B073    | 2786982.0   | 6376387.4 | ?           | 20       | 75  | ?      | 80          |          |    |         |       |             | ?     |         | wk      |             | 0 |
| 6B074    | 2787038.9   | 6376439.6 | ?           | 25       | 70  | ?      | ?           |          |    |         |       |             | ?     |         | wk      |             | 0 |
| 6B075    | 2786895.0   | 6376880.1 | 46          | 70       | 325 | 28     | 74          |          |    |         |       |             | 33.31 |         | wk      |             | 0 |
| 6B076    | 2787225.4   | 6377651.1 | 12          | 75       | 55  | 56     | 68          |          |    |         |       |             | 9.09  |         | wt      |             | 1 |
| 6B077    | 2787219.6   | 6377755.4 | 16          | 25       | 50  | 48     | 64          | 60       |    | 135     | 44    | 64          | 32.62 | 18.43   | wt      |             | 2 |
| 6B078    | 2787248.6   | 6378045.2 | 8           | 35       | 90  | 48     | 56          |          |    |         |       |             | 12.88 |         | wt      |             | 0 |
| 6B079    | 2787271.8   | 6378126.4 | 14          | 40       | 150 | 36     | 50          |          |    |         |       |             | 19.29 |         | wt      |             | 0 |
| 6B080    | 2787086.3   | 6378109.0 | 50          | 85       | 100 | 4      | 54          |          |    |         |       |             | 30.47 |         | wk      |             | 1 |
| 6B081    | 2787387.7   | 6378219.1 | 18          | 85       | 75  | 26     | 44          |          |    |         |       |             | 11.96 |         | wt      |             | 3 |
| 6B082    | 2787444.5   | 6378348.9 | 16          | 80       | 80  | 22     | 38          |          |    |         |       |             | 11.31 |         | wt      |             | 3 |
| 6B083    | 2787051.5   | 6378497.3 | 32          | 90       | 300 | 8      | 40          |          |    |         |       |             | 19.57 |         | wk      |             | 1 |
| 6B084    | 2787106.0   | 6378558.5 | 8           | 20       | 50  | 14     | 22          |          |    |         |       |             | 21.80 |         | wk      |             | 3 |
| 6B085    | 2787083.3   | 6378613.0 | 12          | 20       | 50  | 14     | 26          |          |    |         |       |             | 30.96 |         | wk      |             | 3 |
| 6B086    | 2787115.1   | 378771.86 | 16          | 35       | 100 | 10     | 26          |          |    |         |       |             | 24.57 |         | wk      |             | 3 |
| 6B087    | 2786951.7   | 6378690.1 | 8           | 42.5     | 160 | 38     | 46          |          |    |         |       |             | 10.66 |         | wk      |             | 1 |
| 6B088    | 2787396.5   | 6378849.0 | 18          | 80       | 50  | 14     | 32          |          |    |         |       |             | 12.68 |         | wt      |             | 3 |
| 6B089    | 2787519.0   | 6379039.6 | 16          | 75       | 80  | 28     | 44          |          |    |         |       |             | 12.04 |         | wt      |             | 1 |
| 6B090    | 2787446.4   | 6379085.0 | 14          | 75       | 100 | 24     | 38          |          |    |         |       |             | 10.57 |         | wt      |             | 1 |
| 6B091    | 2787500.8   | 6379130.3 | 14          | 55       | 65  | 30     | 44          |          |    |         |       |             | 14.28 |         | wt      |             | 1 |
| 6B092    | 2787242.2   | 6379334.6 | 12          | 25       | 90  | 4      | 16          |          |    |         |       |             | 25.64 |         | wk      |             | 3 |
| 6B093    | 2787124.2   | 6379271.0 | 12          | 50       | 75  | 4      | 16          |          |    |         |       |             | 13.50 |         | wk      |             | 1 |
| 6B094    | 2787024.3   | 6379234.7 | 12          | 30       | 115 | 4      | 16          |          |    |         |       |             | 21.80 |         | wk      |             | 3 |
| 6B095    | 2786978.9   | 6379112.2 | 8           | 40       | 45  | 6      | 14          |          |    |         |       |             | 11.31 |         | wk      |             | 3 |
| 6B096    | 2786824.6   | 6378935.2 | 13          | 60       | 70  | 4      | 17          |          |    |         |       |             | 12.23 |         | wk      |             | 1 |
| 6B097    | 2786670.3   | 6378744.6 | 8           | 35       | 120 | 10     | 18          |          |    |         |       |             | 12.88 |         | wk      |             | 3 |
| 6B098    | 2786575.0   | 6378808.1 | 10          | 60       | 40  | 6      | 16          |          |    |         |       |             | 9.46  |         | wk      |             | 3 |
| 6B099    | 2786420.7   | 6378640.2 | 14          | 35       | 125 | 4      | 18          |          |    |         |       |             | 21.80 |         | wk      |             | 3 |
| 6B100    | 2786511.5   | 6378608.4 | 8           | 37.5     | 80  | 8      | 16          |          |    |         |       |             | 12.04 |         | wk      |             | 3 |
| 6B101    | 2786570.5   | 6378581.2 | 12          | 50       | 60  | 6      | 18          |          |    |         |       |             | 13.50 |         | wk      |             | 3 |
| 6B102    | 2786819.7   | 6378497.3 | 38          | 85       | 260 | 10     | 48          |          |    |         |       |             | 24.09 |         | wk      |             | 3 |
| 6B103    | 2786866.0   | 6378288.7 | 33          | 110      | 140 | 12     | 45          |          |    |         |       |             | 16.70 |         | wk      |             | 3 |
| 6B104    | 2786773.3   | 6378103.2 | 30          | 100      | 100 | 20     | 50          |          |    |         |       |             | 16.70 |         | wk      |             | 1 |
| 6B105    | 2786715.3   | 6378172.7 | 20          | 150      | 45  | 10     | 30          |          |    |         |       |             | 7.59  |         | wk      |             | 3 |
| 6B106    | 2786616.8   | 6378329.2 | 8           | 20       | 65  | 10     | 18          |          |    |         |       |             | 21.80 |         | tm      |             | 3 |
| 6B107    | 2786587.8   | 6378190.1 | 11          | 80       | 60  | 40     | 51          |          |    |         |       |             | 7.83  |         | tm      |             | 1 |
| 6B108    | 2786512.4   | 6378456.8 | 8           | 40       | 75  | 8      | 16          |          |    |         |       |             | 11.31 |         | tm      |             | 3 |
| 6B109    | 2786413.9   | 6378427.8 | 10          | 30       | 70  | 8      | 18          |          |    |         |       |             | 18.43 |         | tm      |             | 3 |
| 6B110    | 2787632.5   | 6378212.0 | 26          | 115      | 100 | 18     | 44          |          |    |         |       |             | 12.74 |         | wk      |             | 3 |
| 6B111    | 2788050.0   | 6379389.0 | 28          | 100      | 185 | 22     | 50          |          |    |         |       |             | 15.64 |         | wk      |             | 1 |
| 6B112    | 2787981.9   | 6379239.3 | 7           | 95       | 100 | 46     | 53          |          |    |         |       |             | 4.21  |         | wk      |             | 1 |
| 6B113    | 2787841.2   | 6379121.3 | 12          | 45       | 75  | 28     | 40          |          |    |         |       |             | 14.93 |         | wk      |             | 3 |
| 6B114    | 2787927.5   | 6378903.4 | 10          | 60       | 55  | 36     | 46          |          |    |         |       |             | 9.46  |         | wk      |             | 3 |
| 6B115    | 2787777.7   | 6379026.0 | 10          | 150      | 280 | 40     | 50          |          |    |         |       |             | 3.81  |         | wk      |             | 3 |
| 6B116    | 2787627.9   | 6378885.3 | 8           | 45       | 70  | 46     | 54          |          |    |         |       |             | 10.08 |         | wk      |             | 1 |
| 6B117    | 2787650.6   | 6378812.7 | 12          | 100      | 80  | 34     | 46          |          |    |         |       |             | 6.84  |         | wk      |             | 1 |
| 6B118    | 2787655.2   | 6378694.7 | 23          | 130      | 30  | 26     | 49          |          |    |         |       |             | 10.03 |         | wk      |             | 1 |
| 6B119    | 2787727.8   | 6378599.4 | 26          | 140      | 60  | 34     | 60          |          |    |         |       |             | 10.52 |         | wk      |             | 1 |
| 6B120    | 2787863.9   | 6378690.1 | 10          | 105      | 110 | 52     | 62          |          |    |         |       |             | 5.44  |         | wk      |             | 1 |
| 6B121    | 2787991.0   | 6378721.9 | 12          | 75       | 115 | 52     | 64          |          |    |         |       |             | 9.09  |         | wk      |             | 1 |
| 6B122    | 2787818.5   | 6378526.7 | 34          | 55       | 45  | 30     | 64          |          |    |         |       |             | 31.72 |         | wk      |             | 3 |
| 6B123    | 2787909.3   | 6378467.7 | 56          | 75       | 100 | 16     | 72          |          |    |         |       |             | 36.75 |         | wk      |             | 3 |
| 6B124    | 2787564.4   | 6378349.7 | 10          | 15       | 65  | 32     | 42          |          |    |         |       |             | 33.69 |         | wk      |             | 3 |

| Ref. No. | Coordinates |           | Height(m) | Scarp       |          | Bottom |     | Runout      |          | Toe Top |     | Slope angle |        | Geology | Seepage | Geo. Symbol |
|----------|-------------|-----------|-----------|-------------|----------|--------|-----|-------------|----------|---------|-----|-------------|--------|---------|---------|-------------|
|          |             |           |           | Distance(m) | Width(m) | RL     | RL  | Distance(m) | Width(m) | RL      | RL  | Scarp       | Runout |         |         |             |
| 6B125    | 2787691.5   | 6378340.7 | 38        | 100         | 70       | 14     | 52  | 115         | 35       | 12      | 46  | 20.81       | 19.18  | wk      |         | 2           |
| 6B126    | 2787605.2   | 6378177.3 | 2         | 40          | 80       | 36     | 38  |             |          |         |     | 2.86        |        | wk      |         | 0           |
| 6B127    | 2787804.9   | 6378172.8 | 24        | 150         | 70       | 18     | 42  |             |          |         |     | 9.09        |        | wk      |         | 0           |
| 6B128    | 2787936.5   | 6378308.9 | 8         | 20          | 210      | 24     | 32  |             |          |         |     | 21.80       |        | wk      |         | 0           |
| 6B129    | 2788077.2   | 6378549.4 | 44        | 200         | 220      | 20     | 64  |             |          |         |     | 12.41       |        | wk      |         | 3           |
| 6B130    | 2788213.4   | 6378508.6 | 10        | 65          | 75       | 54     | 64  |             |          |         |     | 8.75        |        | wk      |         | 3           |
| 6B131    | 2788190.7   | 6378322.5 | 40        | 95          | 75       | 22     | 62  |             |          |         |     | 22.83       |        | wk      |         | 3           |
| 6B132    | 2788263.3   | 6378358.8 | 11        | 65          | 85       | 62     | 73  |             |          |         |     | 9.61        |        | wk      |         | 3           |
| 6B133    | 2788422.1   | 6378417.8 | 20        | 240         | 120      | 66     | 86  | 260         | 70       | 66      | 76  | 4.76        | 4.40   | wk      |         | 4           |
| 6B134    | 2788417.6   | 6378277.1 | 48        | 245         | 170      | 50     | 98  | 220         | 90       | 64      | 88  | 11.08       | 8.79   | wk      |         | 4           |
| 6B135    | 2788217.9   | 6378122.8 | 14        | 40          | 190      | 32     | 46  |             |          |         |     | 19.29       |        | wk      |         | 0           |
| 6B136    | 2788313.2   | 6377991.2 | 12        | 40          | 85       | 36     | 48  |             |          |         |     | 16.70       |        | wk      |         | 0           |
| 6B137    | 2788526.5   | 6378068.4 | 10        | 50          | 45       | 74     | 84  |             |          |         |     | 11.31       |        | wk      |         | 1           |
| 6B138    | 2788571.9   | 6377950.4 | 34        | 70          | 100      | 48     | 82  |             |          |         |     | 25.91       |        | wk      |         | 3           |
| 6B139    | 2788295.1   | 6377809.7 | 12        | 120         | 255      | 56     | 68  |             |          |         |     | 5.71        |        | wk      |         | 0           |
| 6B140    | 2787981.9   | 6377551.0 | 40        | 110         | 150      | 56     | 96  |             |          |         |     | 19.98       |        | wk      |         | 0           |
| 6B141    | 2788345.0   | 6377669.0 | 30        | 130         | 230      | 70     | 100 | 140         | 60       | 70      | 84  | 12.99       | 12.09  | wk      |         | 2           |
| 6B142    | 2788467.5   | 6377632.7 | 16        | 57.5        | 50       | 50     | 66  |             |          |         |     | 15.55       |        | wk      |         | 0           |
| 6B143    | 2788558.3   | 6377737.1 | 12        | 30          | 80       | 50     | 62  |             |          |         |     | 21.80       |        | wk      |         | 3           |
| 6B144    | 2789058.1   | 6377471.6 | ?         | 150         | 95       | 72     | ?   | 130         | 60       | ?       | ?   | ?           | ?      | wk      |         | 2           |
| 6B145    | 2788817.0   | 6377578.2 | 32        | 75          | 145      | 70     | 102 | 85          | 35       | 68      | 94  | 23.11       | 21.80  | wk      |         | 2           |
| 6B146    | 2788830.6   | 6377800.6 | 26        | 80          | 205      | 96     | 122 | 275         | 90       | 54      | 106 | 18.00       | 13.89  | wk      |         | 4           |
| 6B147    | 2789029.7   | 6377766.6 | 22        | 85          | 340      | 110    | 132 |             |          |         |     | 14.51       |        | wk      |         | 3           |
| 6B148    | 2789086.4   | 6377857.3 | 54        | 200         | 220      | 76     | 130 | 200         | 55       | 78      | 120 | 15.11       | 14.57  | wk      |         | 4           |
| 6B149    | 2788748.9   | 6378059.3 | 18        | 100         | 70       | 74     | 92  |             |          |         |     | 10.20       |        | wk      |         | 3           |
| 6B150    | 2788703.5   | 6378113.8 | 24        | 190         | 225      | 78     | 102 |             |          |         |     | 7.20        |        | wk      |         | 3           |
| 6B151    | 2788658.1   | 6378159.1 | 26        | 175         | 295      | 74     | 100 | 155         | 225      | 52      | 86  | 8.45        | 17.21  | wk      |         | 4           |
| 6B152    | 2788862.3   | 6378308.9 | 24        | 62.5        | 110      | 74     | 98  | 70          | 60       | 74      | 88  | 21.01       | 18.92  | wk      |         | 2           |
| 6B153    | 2788567.4   | 6378599.4 | 36        | 100         | 235      | 52     | 88  | 185         | 260      | 46      | 76  | 19.80       | 12.79  | wk      |         | 4           |
| 6B154    | 2789041.0   | 6378470.0 | -2        | 5           | 95       | 98     | 96  |             |          |         |     | -21.80      |        | wk      |         | 1           |
| 6B155    | 2789058.1   | 6378555.1 | 14        | 80          | 60       | 82     | 96  |             |          |         |     | 9.93        |        | wk      |         | 1           |
| 6B156    | 2788839.7   | 6378603.9 | 34        | 265         | 170      | 64     | 98  |             |          |         |     | 7.31        |        | wk      |         | 1           |
| 6B157    | 2788880.5   | 6379039.6 | 12        | 60          | 90       | 42     | 54  |             |          |         |     | 11.31       |        | wk      |         | 3           |
| 6B158    | 2788890.0   | 6379366.3 | #VALUE!   | 60          | 130      | ?      | 72  |             |          |         |     | ?           |        | wk      |         | 3           |
| 6B159    | 2788748.9   | 6379280.1 | 14        | 80          | 55       | 36     | 50  |             |          |         |     | 9.93        |        | wk      |         | 3           |
| 6B160    | 2788735.3   | 6379320.9 | 11        | 35          | 45       | 34     | 45  |             |          |         |     | 17.45       |        | wk      |         | 1           |
| 6B161    | 2788662.7   | 6379089.5 | 6         | 30          | 85       | 40     | 46  |             |          |         |     | 11.31       |        | wk      |         | 3           |
| 6B162    | 2788499.3   | 6378171.2 | 36        | 120         | 290      | 42     | 78  | 160         | 300      | 36      | 68  | 16.70       | 14.71  | wk      |         | 4           |
| 6B163    | 2788408.5   | 6379307.3 | 26        | 200         | 215      | 44     | 70  |             |          |         |     | 7.41        |        | wk      |         | 3           |
| 6B164    | 2788449.4   | 6379452.6 | 16        | 65          | 100      | 48     | 64  |             |          |         |     | 13.83       |        | wk      |         | 1           |
| 6B165    | 2788240.6   | 6379252.9 | 8         | 25          | 80       | 36     | 44  |             |          |         |     | 17.74       |        | wk      |         | 1           |
| 6B166    | 2786951.7   | 6378690.1 | 6         | 50          | 90       | 40     | 46  |             |          |         |     | 6.84        |        | wk      |         | 2           |
| 7A001    | 2782146.8   | 6386449.0 | 20        | 30          | 250      | 4      | 24  |             |          |         |     | 33.69       |        | tm      |         | 0           |
| 7A002    | 2782063.1   | 6385932.9 | 12        | 15          | 70       | 14     | 26  |             |          |         |     | 38.66       |        | tp      |         | 0           |
| 7A003    | 2782291.9   | 6385983.1 | 16        | 20          | 115      | 2      | 18  |             |          |         |     | 38.66       |        | tp      |         | 0           |
| 7A004    | 2782383.9   | 6385893.8 | 10        | 30          | 125      | 12     | 22  |             |          |         |     | 18.43       |        | tp      |         | 0           |
| 7A005    | 2782710.4   | 6385877.1 | 34        | 95          | 125      | 2      | 36  |             |          |         |     | 19.69       |        | tp      |         | 0           |
| 7A006    | 2782794.1   | 6385977.5 | 18        | 15          | 40       | 4      | 22  |             |          |         |     | 50.19       |        | tp      |         | 0           |
| 7A007    | 2782830.3   | 6385871.5 | 32        | 65          | 120      | 6      | 38  |             |          |         |     | 26.21       |        | tp      |         | 0           |
| 7A008    | 2784211.3   | 6385958.0 | 76        | 165         | 215      | 6      | 82  |             |          |         |     | 24.73       |        | tm      | Yes     | 3           |
| 7A009    | 2783943.5   | 6386066.8 | 21        | 95          | 235      | 10     | 31  | 155         | 530      | 4       | 24  | 12.46       | 9.88   | tm      |         | 4           |
| 7A010    | 2783812.4   | 6386119.8 | 18        | 35          | 80       | 10     | 28  |             |          |         |     | 27.22       |        | tm      |         | 3           |
| 7A011    | 2784183.4   | 6386429.5 | 10        | 40          | 65       | 6      | 16  |             |          |         |     | 14.04       |        | tm      |         | 3           |
| 7A012    | 2784308.9   | 6386490.8 | 14        | 45          | 140      | 6      | 20  |             |          |         |     | 17.28       |        | tm      |         | 3           |
| 7A013    | 2784412.2   | 6386613.6 | 20        | 45          | 40       | 6      | 26  |             |          |         |     | 23.96       |        | tm      |         | 3           |
| 7A014    | 2784546.1   | 6386644.3 | 4         | 15          | 70       | 24     | 28  |             |          |         |     | 14.93       |        | tm      |         | 0           |
| 7A015    | 2784498.7   | 6386568.9 | 2         | 10          | 90       | 26     | 28  |             |          |         |     | 11.31       |        | tm      |         | 0           |
| 7A016    | 2784621.4   | 6386708.4 | 8         | 30          | 120      | 16     | 24  |             |          |         |     | 14.93       |        | tm      |         | 0           |
| 7A017    | 2784693.9   | 638661.0  | 6         | 30          | 150      | 6      | 12  |             |          |         |     | 11.31       |        | tm      |         | 1           |
| 7A018    | 2784808.3   | 6386543.8 | 5         | 55          | 55       | 16     | 21  |             |          |         |     | 5.19        |        | tm      |         | 1           |
| 7A019    | 2784878.1   | 6386571.7 | 8         | 85          | 140      | 18     | 26  |             |          |         |     | 5.38        |        | tm      |         | 1           |
| 7A020    | 2784922.7   | 6386379.2 | 22        | 50          | 175      | 4      | 26  |             |          |         |     | 23.75       |        | tm      | Yes     | 3           |
| 7A021    | 2784897.6   | 6386100.2 | 18        | 50          | 160      | 8      | 26  |             |          |         |     | 19.80       |        | tm      | Yes     | 3           |
| 7A022    | 2784886.4   | 6386086.3 | 6         | 30          | 85       | 6      | 12  |             |          |         |     | 11.31       |        | tm      |         | 3           |
| 7A023    | 2784702.3   | 6386114.2 | 10        | 100         | 205      | 18     | 28  |             |          |         |     | 5.71        |        | tm      |         | 1           |
| 7A024    | 2784685.6   | 6385918.9 | -4        | 60          | 65       | 32     | 28  |             |          |         |     | -3.81       |        | tm      |         | 1           |
| 7A025    | 2784964.6   | 6385882.6 | 18        | 125         | 200      | 6      | 24  |             |          |         |     | 8.19        |        | tm      |         | 0           |
| 7A026    | 2784933.9   | 6387478.4 | 18        | 15          | 45       | 2      | 20  |             |          |         |     | 50.19       |        | tm      |         | 0           |
| 7A027    | 2784900.4   | 6387525.9 | 20        | 25          | 40       | 2      | 22  |             |          |         |     | 38.66       |        | tm      |         | 0           |
| 7A028    | 2784894.8   | 6387612.3 | 16        | 20          | 30       | 2      | 18  |             |          |         |     | 38.66       |        | tm      |         | 0           |
| 7A029    | 2784911.6   | 6387668.1 | 16        | 12.5        | 30       | 2      | 18  | 55          | 25       | 0       | 18  | 52.00       | 18.12  | tm      |         | 2           |
| 7A030    | 2784953.4   | 6387807.6 | 14        | 27.5        | 85       | 2      | 16  |             |          |         |     | 26.98       |        | tm      |         | 0           |
| 7B001    | 2782542.9   | 6385672.1 | 18        | 75          | 105      | 10     | 28  |             |          |         |     | 13.50       |        | tp      |         | 0           |
| 7B002    | 2782705.8   | 6385507.2 | 16        | 70          | 105      | 20     | 36  |             |          |         |     | 12.88       |        | tp      |         | 0           |
| 7B003    | 2782452.1   | 6385536.8 | 28        | 50          | 190      | 4      | 32  |             |          |         |     | 29.25       |        | tp      |         | 0           |
| 7B004    | 2782157.6   | 6384810.8 | 20        | 47.5        | 65       | 8      | 28  |             |          |         |     | 22.83       |        | tp      |         | 0           |
| 7B005    | 2782172.4   | 6384727.5 | 16        | 50          | 55       | 12     | 28  |             |          |         |     | 17.74       |        | tp      |         | 0           |
| 7B006    | 2782292.8   | 6384709.0 | 30        | 45          | 175      | 10     | 40  |             |          |         |     | 33.69       |        | tp      |         | 0           |
| 7B007    | 2782359.5   | 6384631.2 | 10        | 75          | 130      | 22     | 32  |             |          |         |     | 7.59        |        | tp      |         | 0           |
| 7B008    | 2782298.4   | 6384492.3 | 6         | 62.5        | 65       | 16     | 22  |             |          |         |     | 5.48        |        | tp      |         | 0           |
| 7B009    | 2782470.6   | 6384609.0 | 26        | 40          | 190      | 4      | 30  |             |          |         |     | 33.02       |        | tp      |         | 0           |
| 7B010    | 2782285.4   | 6384186.7 | 28        | 45          | 120      | 8      | 36  |             |          |         |     | 31.89       |        | tp      |         | 0           |
| 7B011    | 2782211.3   | 6384097.8 | 12        | 42.5        | 85       | 18     | 30  |             |          |         |     | 15.77       |        | tp      |         | 0           |
| 7B012    | 2782166.9   | 6384033.0 | 19        | 85          | 55       | 10     | 29  |             |          |         |     | 12.60       |        | tp      |         | 0           |
| 7B013    | 2782378.0   | 6383358.8 | 22        | 40          | 105      | 16     | 38  |             |          |         |     | 28.81       |        | tm      |         | 0           |
| 7B014    | 2782433.6   | 6383266.2 | 18        | 40          | 150      | 20     | 38  |             |          |         |     | 24.23       |        | tm      |         | 0           |
| 7B015    | 2782555.8   | 6383331.0 | 20        | 185         | 110      | 18     | 38  |             |          |         |     | 6.17        |        | tm      |         | 0           |



| Ref. No. | Coordinates |           | Height(m) | Scarp       |          | Bottom |    | Runout      |          | Toe Top |    | Slope angle |        | Geology | Seepage | Geo. Symbol |
|----------|-------------|-----------|-----------|-------------|----------|--------|----|-------------|----------|---------|----|-------------|--------|---------|---------|-------------|
|          |             |           |           | Distance(m) | Width(m) | RL     | RL | Distance(m) | Width(m) | RL      | RL | Scarp       | Runout |         |         |             |
| 7B016    | 2782541.0   | 6383501.4 | 24        | 80          | 135      | 14     | 38 |             |          |         |    | 16.70       |        | tm      |         | 0           |
| 7B017    | 2782565.1   | 6383666.2 | 22        | 65          | 110      | 14     | 36 |             |          |         |    | 18.70       |        | tm      |         | 0           |
| 7B018    | 2782667.0   | 6383723.7 | 28        | 115         | 95       | 8      | 36 |             |          |         |    | 13.68       |        | tm      |         | 0           |
| 7B019    | 2782778.1   | 6383901.5 | 28        | 95          | 100      | 10     | 38 |             |          |         |    | 16.42       |        | tm      |         | 0           |
| 7B020    | 2782904.0   | 6384040.4 | 28        | 85          | 190      | 8      | 36 |             |          |         |    | 18.23       |        | tm      |         | 0           |
| 7B021    | 2783135.5   | 6384386.7 | 16        | 60          | 55       | 10     | 26 |             |          |         |    | 14.93       |        | tm      |         | 0           |
| 7B022    | 2783144.8   | 6384149.6 | 20        | 35          | 105      | 6      | 26 |             |          |         |    | 29.74       |        | tm      |         | 0           |
| 7B023    | 2783100.3   | 6384092.2 | 8         | 45          | 120      | 14     | 22 |             |          |         |    | 10.08       |        | tm      |         | 0           |
| 7B024    | 2783363.3   | 6384145.9 | 18        | 75          | 170      | 10     | 28 |             |          |         |    | 13.50       |        | tm      |         | 0           |
| 7B025    | 2783268.9   | 6384003.3 | 22        | 50          | 35       | 10     | 32 |             |          |         |    | 23.75       |        | tm      |         | 0           |
| 7B026    | 2783276.3   | 6383907.0 | 18        | 45          | 45       | 16     | 34 |             |          |         |    | 21.80       |        | tm      |         | 0           |
| 7B027    | 2783159.6   | 6383747.7 | 30        | 60          | 315      | 6      | 36 |             |          |         |    | 26.57       |        | tm      |         | 0           |
| 7B028    | 2782948.5   | 6383371.8 | 36        | 220         | 95       | 6      | 42 | 195         | 30       | 10      | 22 | 9.29        | 9.32   | tm      |         | 2           |
| 7B029    | 2783124.4   | 6383390.3 | 10        | 45          | 80       | 6      | 16 |             |          |         |    | 12.53       |        | tm      |         | 0           |
| 7B030    | 2782985.1   | 6383256.9 | 22        | 95          | 180      | 8      | 30 | 125         | 145      | 8       | 18 | 13.04       | 9.98   | tm      | Yes     | 2           |
| 7B031    | 2782989.2   | 6383056.9 | 24        | 110         | 185      | 8      | 32 |             |          |         |    | 12.31       |        | tm      | Yes     | 0           |
| 7B032    | 2783076.3   | 6383021.7 | 24        | 85          | 45       | 6      | 30 |             |          |         |    | 15.77       |        | tm      |         | 0           |
| 7B033    | 2783091.1   | 6382949.5 | 22        | 80          | 65       | 8      | 30 |             |          |         |    | 15.38       |        | tm      | Yes     | 0           |
| 7B034    | 2783200.4   | 6382892.1 | 18        | 92.5        | 60       | 6      | 24 |             |          |         |    | 11.01       |        | tm      |         | 0           |
| 7B035    | 2783170.7   | 6382810.6 | 18        | 50          | 95       | 8      | 26 |             |          |         |    | 19.80       |        | tm      | Yes     | 0           |
| 7B036    | 2783126.3   | 6382716.1 | 18        | 80          | 80       | 4      | 22 |             |          |         |    | 12.68       |        | tm      |         | 0           |
| 7B037    | 2782961.4   | 6382799.5 | 8         | 30          | 85       | 26     | 34 |             |          |         |    | 14.93       |        | tm      |         | 0           |
| 7B038    | 2782831.8   | 6382692.0 | 32        | 85          | 150      | 18     | 50 |             |          |         |    | 20.63       |        | tm      |         | 0           |
| 7B039    | 2782642.9   | 6382630.9 | 28        | 130         | 205      | 22     | 50 |             |          |         |    | 12.15       |        | tm      |         | 0           |
| 7B040    | 2783796.7   | 6382645.7 | 34        | 80          | 260      | 10     | 44 | 125         | 60       | 6       | 32 | 23.03       | 16.91  | tr      |         | 4           |
| 7B041    | 2784257.9   | 6382510.5 | 14        | 30          | 90       | 22     | 36 |             |          |         |    | 25.02       |        | tr      |         | 3           |
| 7B042    | 2784233.8   | 6382656.9 | 28        | 60          | 170      | 10     | 38 |             |          |         |    | 25.02       |        | tr      |         | 1           |
| 7B043    | 2784683.9   | 6382519.8 | 22        | 85          | 135      | 30     | 52 |             |          |         |    | 14.51       |        | tr      |         | 3           |
| 7B044    | 2784967.2   | 6382529.1 | 7         | 25          | 45       | 18     | 25 |             |          |         |    | 15.64       |        | tr      |         | 3           |
| 7B045    | 2784887.6   | 6382579.1 | 10        | 30          | 30       | 14     | 24 |             |          |         |    | 18.43       |        | tr      |         | 3           |
| 7B046    | 2784770.9   | 6382693.9 | 22        | 95          | 75       | 28     | 50 | 75          | 25       | 32      | 42 | 13.04       | 13.50  | tr      |         | 4           |
| 7B047    | 2784711.7   | 6382747.6 | 6         | 60          | 230      | 54     | 60 |             |          |         |    | 5.71        |        | tr      |         | 1           |
| 7B048    | 2784557.9   | 6382771.7 | 10        | 50          | 150      | 44     | 54 |             |          |         |    | 11.31       |        | tr      |         | 1           |
| 7B049    | 2784276.4   | 6382769.8 | 30        | 75          | 115      | 10     | 40 |             |          |         |    | 21.80       |        | tr      |         | 1           |
| 7B050    | 2784395.0   | 6382818.0 | 16        | 60          | 110      | 20     | 36 |             |          |         |    | 14.93       |        | tr      |         | 3           |
| 7B051    | 2784537.6   | 6382899.5 | 12        | 25          | 80       | 26     | 38 |             |          |         |    | 25.64       |        | tr      |         | 3           |
| 7B052    | 2784700.5   | 6382895.8 | 8         | 55          | 95       | 44     | 52 |             |          |         |    | 8.28        |        | tr      |         | 1           |
| 7B053    | 2784828.3   | 6382764.3 | 24        | 70          | 100      | 24     | 48 |             |          |         |    | 18.92       |        | tr      |         | 1           |
| 7B054    | 2784811.7   | 6382860.6 | 8         | 32.5        | 75       | 38     | 46 |             |          |         |    | 13.83       |        | tr      |         | 3           |
| 7B055    | 2784920.9   | 6383001.3 | 12        | 30          | 145      | 26     | 38 |             |          |         |    | 21.80       |        | tr      |         | 3           |
| 7B056    | 2784750.6   | 6383173.6 | 14        | 40          | 375      | 40     | 54 |             |          |         |    | 19.29       |        | tr      |         | 3           |
| 7B057    | 2784704.3   | 6383051.3 | 10        | 85          | 125      | 42     | 52 |             |          |         |    | 6.71        |        | tr      |         | 1           |
| 7B058    | 2784633.9   | 6383142.1 | 12        | 130         | 75       | 40     | 52 |             |          |         |    | 5.27        |        | tr      |         | 1           |
| 7B059    | 2784570.9   | 6383153.2 | 7         | 80          | 65       | 40     | 47 |             |          |         |    | 5.00        |        | tr      |         | 1           |
| 7B060    | 2784391.2   | 6383008.8 | 22        | 95          | 60       | 10     | 32 |             |          |         |    | 13.04       |        | tr      |         | 1           |
| 7B061    | 2784378.3   | 383269.94 | 22        | 120         | 40       | 12     | 34 |             |          |         |    | 10.39       |        | tr      |         | 1           |
| 7B062    | 2784026.4   | 6383290.3 | 20        | 55          | 55       | 18     | 38 | 75          | 25       | 8       | 22 | 19.98       | 21.80  | tr      |         | 4           |
| 7B063    | 2784074.5   | 6383318.0 | 22        | 90          | 65       | 14     | 36 | 150         | 55       | 8       | 24 | 13.74       | 10.57  | tr      |         | 4           |
| 7B064    | 2784146.8   | 6383349.5 | 8         | 25          | 60       | 26     | 34 | 110         | 65       | 10      | 28 | 17.74       | 12.31  | tr      |         | 4           |
| 7B065    | 2784159.7   | 6383377.3 | 20        | 75          | 60       | 14     | 34 |             |          |         |    | 14.93       |        | tr      |         | 1           |
| 7B066    | 2784204.2   | 6383475.5 | 22        | 45          | 90       | 10     | 32 |             |          |         |    | 26.05       |        | tm      |         | 3           |
| 7B067    | 2784306.1   | 6383536.6 | 22        | 65          | 80       | 10     | 32 |             |          |         |    | 18.70       |        | tm      |         | 3           |
| 7B068    | 2784428.3   | 6383668.1 | 18        | 70          | 85       | 12     | 30 |             |          |         |    | 14.42       |        | tm      |         | 0           |
| 7B069    | 2784459.8   | 6383627.3 | 5         | 30          | 50       | 28     | 33 |             |          |         |    | 9.46        |        | tm      |         | 3           |
| 7B070    | 2784472.7   | 6383384.7 | 0         | 40          | 50       | 42     | 42 |             |          |         |    | 0.00        |        | tr      |         | 1           |
| 7B071    | 2784715.4   | 6383419.9 | 8         | 40          | 140      | 42     | 50 |             |          |         |    | 11.31       |        | tr      |         | 1           |
| 7B072    | 2784678.3   | 6383501.4 | 4         | 35          | 60       | 40     | 44 |             |          |         |    | 6.52        |        | tr      |         | 1           |
| 7B073    | 2784874.6   | 6383386.6 | 14        | 50          | 65       | 34     | 48 |             |          |         |    | 15.64       |        | tr      |         | 1           |
| 7B074    | 2784841.3   | 6383494.0 | 12        | 60          | 100      | 38     | 50 |             |          |         |    | 11.31       |        | tr      |         | 3           |
| 7B075    | 2784750.6   | 6383595.9 | 10        | 65          | 145      | 36     | 46 |             |          |         |    | 8.75        |        | tr      |         | 1           |
| 7B076    | 2784845.0   | 6383805.1 | 4         | 40          | 200      | 32     | 36 |             |          |         |    | 5.71        |        | tm      |         | 1           |
| 7B077    | 2784782.0   | 6383705.1 | 4         | 60          | 75       | 34     | 38 |             |          |         |    | 3.81        |        | tm      |         | 1           |
| 7B078    | 2784919.1   | 6383947.8 | 2         | 15          | 60       | 32     | 34 |             |          |         |    | 7.59        |        | tm      |         | 1           |
| 7B079    | 2784946.9   | 6384053.3 | 4         | 30          | 75       | 32     | 36 |             |          |         |    | 7.59        |        | tm      |         | 1           |
| 7B080    | 2784357.9   | 6383736.6 | 14        | 85          | 110      | 16     | 30 |             |          |         |    | 9.35        |        | tm      |         | 3           |
| 7B081    | 2784213.4   | 6383619.9 | 18        | 25          | 95       | 12     | 30 |             |          |         |    | 35.75       |        | tm      |         | 1           |
| 7B082    | 2784080.1   | 6383592.2 | 16        | 45          | 50       | 8      | 24 |             |          |         |    | 19.57       |        | tm      |         | 3           |
| 7B083    | 2784017.1   | 383634.80 | 8         | 95          | 85       | 12     | 20 |             |          |         |    | 4.81        |        | tm      |         | 1           |
| 7B084    | 2784037.5   | 6383734.8 | 11        | 55          | 50       | 16     | 27 |             |          |         |    | 11.31       |        | tm      |         | 1           |
| 7B085    | 2783969.0   | 6383701.4 | 12        | 30          | 125      | 4      | 16 |             |          |         |    | 21.80       |        | tm      |         | 1           |
| 7B086    | 2784146.8   | 6383844.0 | 34        | 55          | 105      | 6      | 40 |             |          |         |    | 31.72       |        | tm      |         | 3           |
| 7B087    | 2784263.5   | 6383873.7 | 28        | 65          | 100      | 8      | 36 |             |          |         |    | 23.30       |        | tm      |         | 1           |
| 7B088    | 2784448.7   | 6383970.0 | 28        | 160         | 265      | 10     | 38 |             |          |         |    | 9.93        |        | tm      | Yes     | 3           |
| 7B089    | 2784389.4   | 6384099.6 | 20        | 70          | 75       | 10     | 30 |             |          |         |    | 15.95       |        | tm      |         | 3           |
| 7B090    | 2784380.1   | 6384218.2 | 17        | 100         | 90       | 12     | 29 |             |          |         |    | 9.65        |        | tm      |         | 3           |
| 7B091    | 2784265.3   | 6384281.1 | 12        | 50          | 55       | 12     | 24 |             |          |         |    | 13.50       |        | tm      |         | 3           |
| 7B092    | 2784335.7   | 6384355.2 | 8         | 50          | 155      | 24     | 32 | 75          | 35       | 20      | 22 | 9.09        | 9.09   | tm      |         | 2           |
| 7B093    | 2784411.6   | 6384416.3 | 8         | 35          | 55       | 24     | 32 |             |          |         |    | 12.88       |        | tm      |         | 1           |
| 7B094    | 2784567.2   | 6384586.7 | 20        | 95          | 80       | 12     | 32 | 150         | 40       | 6       | 24 | 11.89       | 9.83   | tm      | Yes     | 4           |
| 7B095    | 2784582.0   | 6384712.7 | 18        | 30          | 100      | 12     | 30 |             |          |         |    | 30.96       |        | tm      | Yes     | 3           |
| 7B096    | 2784539.4   | 6384860.8 | 18        | 45          | 170      | 12     | 30 | 170         | 55       | 5       | 16 | 21.80       | 8.37   | tm      | Yes     | 3           |
| 7B097    | 2784413.5   | 6384827.5 | 14        | 35          | 85       | 16     | 30 |             |          |         |    | 21.80       |        | tm      | Yes     | 4           |
| 7B098    | 2784293.1   | 6384810.8 | 22        | 65          | 95       | 8      | 30 |             |          |         |    | 18.70       |        | tm      |         | 3           |
| 7B099    | 2784211.6   | 6384762.7 | 24        | 70          | 70       | 6      | 30 |             |          |         |    | 18.92       |        | tm      |         | 3           |
| 7B100    | 2784111.6   | 6384749.7 | 12        | 20          | 130      | 18     | 30 |             |          |         |    | 30.96       |        | tm      |         | 3           |
| 7B101    | 2783967.1   | 6384836.8 | 18        | 150         | 65       | 14     | 32 |             |          |         |    | 6.84        |        | tm      |         | 3           |
| 7B102    | 2783935.6   | 6384697.9 | 14        | 70          | 55       | 16     | 30 |             |          |         |    | 11.31       |        | tm      |         | 3           |





| Ref. No. | Coordinates |           | Height(m) | Scarp       |          | Bottom |    | Scarp       |          | Runout |    | Toe Top |        | Slope angle |       | Geology | Seepage | Geo. Symbol |
|----------|-------------|-----------|-----------|-------------|----------|--------|----|-------------|----------|--------|----|---------|--------|-------------|-------|---------|---------|-------------|
|          |             |           |           | Distance(m) | Width(m) | RL     | RL | Distance(m) | Width(m) | RL     | RL | Scarp   | Runout |             |       |         |         |             |
| 8A053    | 2784186.0   | 6381308.5 | 8         | 55          | 40       | 26     | 34 |             |          |        |    | 14      | 30     | 8.28        |       | tr      |         | 2           |
| 8A054    | 2783146.9   | 6381167.7 | 42        | 120         | 75       | 6      | 48 |             |          |        |    |         |        | 19.29       |       | tr      |         | 3           |
| 8A055    | 2783132.1   | 6381075.1 | 44        | 160         | 100      | 6      | 50 |             | 230      | 175    | 4  | 50      |        | 15.38       | 11.31 | tr      |         | 4           |
| 8A056    | 2783156.2   | 6381014.0 | 44        | 100         | 100      | 2      | 46 |             | 105      | 55     | 2  | 28      |        | 23.75       | 22.74 | tr      |         | 4           |
| 8A057    | 2783456.2   | 6380997.3 | 28        | 85          | 215      | 14     | 42 |             |          |        |    |         |        | 18.23       |       | tr      |         | 3           |
| 8A058    | 2783432.2   | 6380858.4 | 34        | 40          | 55       | 12     | 46 |             |          |        |    |         |        | 40.36       |       | tr      |         | 1           |
| 8A059    | 2783358.1   | 6380806.5 | 34        | 40          | 55       | 10     | 44 |             |          |        |    |         |        | 40.36       |       | tr      |         | 1           |
| 8A060    | 2783272.9   | 6380695.4 | 42        | 165         | 140      | 4      | 46 |             |          |        |    |         |        | 14.28       |       | tr      |         | 3           |
| 8A061    | 2783289.6   | 6380593.5 | 38        | 150         | 65       | 8      | 46 |             |          |        |    |         |        | 14.22       |       | tr      |         | 3           |
| 8A062    | 2783248.8   | 6380465.8 | 32        | 90          | 85       | 14     | 46 |             |          |        |    |         |        | 19.57       |       | tr      |         | 3           |
| 8A063    | 2783169.2   | 6380237.9 | 36        | 115         | 460      | 10     | 46 |             |          |        |    |         |        | 17.38       |       | tr      | Yes     | 3           |
| 8A064    | 2782984.0   | 6380360.2 | 38        | 150         | 160      | 8      | 46 |             |          |        |    |         |        | 14.22       |       | tr      |         | 3           |
| 8A065    | 2783009.9   | 6380538.0 | 42        | 70          | 300      | 6      | 48 |             |          |        |    |         |        | 30.96       |       | tr      |         | 3           |
| 8A066    | 2782928.4   | 6380754.7 | 36        | 65          | 95       | 4      | 40 |             |          |        |    |         |        | 28.98       |       | tr      |         | 1           |
| 8A067    | 2782850.6   | 6379619.3 | 50        | 135         | 320      | 8      | 58 |             |          |        |    |         |        | 20.32       |       | tr      |         | 3           |
| 8A068    | 2782978.4   | 6379832.3 | 38        | 100         | 525      | 8      | 46 |             |          |        |    |         |        | 20.81       |       | tr      |         | 3           |
| 8A069    | 2783585.9   | 6379580.5 | 2         | 60          | 85       | 8      | 10 |             |          |        |    |         |        | 1.91        |       | tr      |         | 1           |
| 8A070    | 2783513.7   | 6379695.3 | 4         | 30          | 85       | 10     | 14 |             |          |        |    |         |        | 7.59        |       | tr      |         | 1           |
| 8A071    | 2783643.3   | 6379795.3 | 16        | 45          | 120      | 10     | 26 |             | 75       | 80     | 9  | 18      |        | 19.57       | 12.77 | tr      |         | 3           |
| 8A072    | 2783743.3   | 6379736.0 | 8         | 40          | 65       | 6      | 14 |             |          |        |    |         |        | 11.31       |       | wt      |         | 3           |
| 8A073    | 2783787.8   | 6379815.7 | 10        | 30          | 75       | 6      | 16 |             |          |        |    |         |        | 18.43       |       | wt      |         | 3           |
| 8A074    | 2783763.7   | 6379960.1 | 9         | 85          | 175      | 8      | 17 |             |          |        |    |         |        | 6.04        |       | wt      |         | 1           |
| 8A075    | 2783865.6   | 6380047.2 | 8         | 35          | 60       | 8      | 16 |             |          |        |    |         |        | 12.88       |       | wt      |         | 3           |
| 8A076    | 2783819.2   | 6380197.2 | 5         | 35          | 55       | 10     | 15 |             |          |        |    |         |        | 8.13        |       | wt      |         | 1           |
| 8A077    | 2783939.6   | 6380306.5 | 4         | 30          | 55       | 8      | 12 |             |          |        |    |         |        | 7.59        |       | wt      |         | 1           |
| 8A078    | 2783919.3   | 6380367.6 | 4         | 20          | 40       | 6      | 10 |             |          |        |    |         |        | 11.31       |       | wt      |         | 1           |
| 8A079    | 2783797.0   | 6380434.3 | 6         | 30          | 65       | 8      | 14 |             |          |        |    |         |        | 11.31       |       | wt      |         | 1           |
| 8A080    | 2783589.6   | 6380256.5 | 14        | 50          | 80       | 34     | 48 |             |          |        |    |         |        | 15.64       |       | wt      |         | 1           |
| 8A081    | 2783541.4   | 6380304.6 | 18        | 95          | 80       | 32     | 50 |             |          |        |    |         |        | 10.73       |       | wt      |         | 3           |
| 8A082    | 2783458.1   | 6380439.8 | 14        | 120         | 75       | 34     | 48 |             |          |        |    |         |        | 6.65        |       | wt      |         | 1           |
| 8A083    | 2783632.2   | 6380652.8 | 14        | 40          | 65       | 26     | 40 |             |          |        |    |         |        | 19.29       |       | wt      |         | 3           |
| 8A084    | 2783715.5   | 6380651.0 | 32        | 85          | 75       | 6      | 38 |             |          |        |    |         |        | 20.63       |       | wt      |         | 3           |
| 8A085    | 2783752.6   | 6380754.7 | 40        | 130         | 95       | 8      | 48 |             |          |        |    |         |        | 17.10       |       | wt      |         | 3           |
| 8A086    | 2783841.5   | 6380843.6 | 40        | 75          | 80       | 8      | 48 |             | 85       | 60     | 8  | 42      |        | 28.07       | 25.20 | wt      |         | 2           |
| 8A087    | 2783834.1   | 6380883.9 | 42        | 75          | 45       | 8      | 50 |             |          |        |    |         |        | 29.25       |       | wt      |         | 3           |
| 8A088    | 2783771.1   | 6381043.6 | 52        | 210         | 245      | 6      | 58 |             |          |        |    |         |        | 13.91       |       | wt      |         | 3           |
| 8A089    | 2783934.1   | 6381175.1 | 16        | 25          | 40       | 36     | 52 |             |          |        |    |         |        | 32.62       |       | wt      |         | 3           |
| 8A090    | 2784069.3   | 6381117.7 | 46        | 30          | 95       | 6      | 52 |             | 100      | 60     | 18 | 34      |        | 56.89       | 18.78 | wt      |         | 2           |
| 8A091    | 2784100.8   | 6381139.9 | 4         | 25          | 75       | 22     | 26 |             |          |        |    |         |        | 9.09        |       | wt      |         | 3           |
| 8A092    | 2784130.4   | 6381284.4 | 12        | 75          | 75       | 14     | 26 |             | 85       | 40     | 8  | 22      |        | 9.09        | 11.96 | wt      |         | 4           |
| 8A093    | 2784011.9   | 6381408.5 | 12        | 65          | 130      | 16     | 28 |             |          |        |    |         |        | 10.46       |       | wt      |         | 1           |
| 8A094    | 2784050.8   | 6381508.5 | 4         | 50          | 50       | 32     | 36 |             |          |        |    |         |        | 4.57        |       | wt      |         | 3           |
| 8A095    | 2784134.1   | 6381569.6 | 40        | 100         | 450      | 16     | 56 |             |          |        |    |         |        | 21.80       |       | wt      |         | 3           |
| 8A096    | 2784230.4   | 6381469.6 | 14        | 25          | 80       | 24     | 38 |             |          |        |    |         |        | 29.25       |       | wt      |         | 3           |
| 8A097    | 2784297.1   | 6381445.5 | 16        | 25          | 80       | 28     | 44 |             |          |        |    |         |        | 32.62       |       | wt      |         | 3           |
| 8A098    | 2784369.3   | 6381262.1 | 16        | 95          | 30       | 6      | 22 |             |          |        |    |         |        | 9.56        |       | wt      |         | 1           |
| 8A099    | 2784358.2   | 6381356.6 | 22        | 75          | 60       | 6      | 28 |             |          |        |    |         |        | 16.35       |       | wt      |         | 1           |
| 8A100    | 2784336.0   | 6381486.3 | 32        | 100         | 55       | 16     | 48 |             |          |        |    |         |        | 17.74       |       | wt      |         | 3           |
| 8A101    | 2784400.8   | 6381452.9 | 9         | 80          | 60       | 6      | 15 |             |          |        |    |         |        | 6.42        |       | wt      |         | 3           |
| 8A102    | 2784441.5   | 6381554.8 | 16        | 35          | 120      | 8      | 24 |             |          |        |    |         |        | 24.57       |       | wt      |         | 1           |
| 8A103    | 2784295.2   | 6381582.6 | 38        | 110         | 150      | 30     | 68 |             | 105      | 70     | 38 | 62      |        | 19.06       | 15.95 | wt      |         | 4           |
| 8A104    | 2784397.1   | 6381702.9 | 52        | 145         | 225      | 18     | 70 |             | 275      | 180    | 6  | 62      |        | 19.73       | 13.10 | wt      |         | 4           |
| 8A105    | 2784502.7   | 6381817.8 | 26        | 80          | 70       | 10     | 36 |             | 90       | 60     | 8  | 22      |        | 18.00       | 17.28 | wt      |         | 2           |
| 8A106    | 2784400.8   | 6381951.1 | 38        | 125         | 180      | 26     | 64 |             | 130      | 100    | 27 | 48      |        | 16.91       | 15.89 | wt      |         | 4           |
| 8A107    | 2784506.4   | 6381923.3 | 20        | 60          | 65       | 18     | 38 |             | 75       | 50     | 18 | 32      |        | 18.43       | 14.93 | wt      |         | 4           |
| 8A108    | 2784676.8   | 6381860.4 | 26        | 125         | 170      | 12     | 38 |             | 130      | 125    | 10 | 28      |        | 11.75       | 12.15 | wt      |         | 4           |
| 8A109    | 2784758.3   | 6381803.0 | 38        | 125         | 285      | 4      | 42 |             | 100      | 265    | 6  | 28      |        | 16.91       | 19.80 | wt      |         | 4           |
| 8A110    | 2784134.1   | 6381569.6 | 6         | 45          | 125      | 48     | 54 |             |          |        |    |         |        | 7.59        |       | wt      |         | 0           |
| 8A111    | 2782545.0   | 6381549.2 | 52        | 175         | 75       | 22     | 74 |             |          |        |    |         |        | 16.55       |       | wt      |         | 0           |
| 8A112    | 2784882.3   | 6381986.3 | 32        | 65          | 185      | 6      | 38 |             | 75       | 155    | 6  | 24      |        | 26.21       | 23.11 | wt      |         | 4           |
| 8A113    | 2784919.4   | 6382128.9 | 18        | 75          | 75       | 8      | 26 |             |          |        |    |         |        | 13.50       |       | wt      |         | 1           |
| 8A114    | 2784767.5   | 6382199.3 | 8         | 130         | 70       | 24     | 32 |             |          |        |    |         |        | 3.52        |       | wt      |         | 1           |
| 8A115    | 2784513.8   | 6382141.9 | 16        | 90          | 85       | 42     | 58 |             |          |        |    |         |        | 10.08       |       | wt      |         | 3           |
| 8A116    | 2784582.3   | 6382217.8 | 18        | 75          | 120      | 50     | 68 |             |          |        |    |         |        | 13.50       |       | wt      |         | 3           |
| 8A117    | 2784682.3   | 6382343.8 | 28        | 95          | 90       | 40     | 68 |             |          |        |    |         |        | 16.42       |       | wt      |         | 3           |
| 8A118    | 2784863.8   | 6382308.6 | 16        | 75          | 65       | 24     | 40 |             |          |        |    |         |        | 12.04       |       | wt      |         | 3           |
| 8A119    | 2784843.4   | 6382406.7 | 77        | 210         | 105      | 22     | 99 |             | 135      | 50     | 34 | 54      |        | 20.14       | 25.71 | wt      |         | 4           |
| 8A120    | 2784700.8   | 6382525.3 | 30        | 150         | 70       | 20     | 50 |             |          |        |    |         |        | 11.31       |       | wt      |         | 3           |
| 8A121    | 2784610.1   | 6382532.7 | 48        | 200         | 190      | 20     | 68 |             |          |        |    |         |        | 13.50       |       | wt      |         | 1           |
| 8A122    | 2784686.0   | 6382695.7 | 12        | 90          | 150      | 52     | 64 |             |          |        |    |         |        | 7.59        |       | wt      |         | 1           |
| 8A123    | 2784786.0   | 6382695.7 | 24        | 100         | 85       | 26     | 50 |             | 80       | 30     | 30 | 38      |        | 13.50       | 14.04 | wt      |         | 4           |
| 8A124    | 2784899.0   | 6382625.3 | 11        | 40          | 35       | 16     | 27 |             |          |        |    |         |        | 15.38       |       | wt      |         | 3           |
| 8A125    | 2784967.5   | 6382530.8 | 8         | 30          | 50       | 18     | 26 |             |          |        |    |         |        | 14.93       |       | wt      |         | 3           |
| 8A126    | 2784647.1   | 6381167.7 | 2         | 35          | 180      | 6      | 8  |             |          |        |    |         |        | 3.27        |       | tr      |         | 1           |
| 8A127    | 2784804.6   | 6381236.2 | 14        | 40          | 140      | 6      | 20 |             |          |        |    |         |        | 19.29       |       | tr      |         | 3           |
| 8A128    | 2784971.2   | 6381117.7 | 26        | 60          | 315      | 8      | 34 |             |          |        |    |         |        | 23.43       |       | tr      |         | 3           |
| 8A129    | 2785025.0   | 6380426.9 | 4         | 70          | 95       | 6      | 10 |             |          |        |    |         |        | 3.27        |       | tr      |         | 0           |
| 8A130    | 2784661.9   | 6380734.3 | 10        | 40          | 50       | 8      | 18 |             |          |        |    |         |        | 14.04       |       | tr      |         | 1           |
| 8A131    | 2784547.1   | 6380741.7 | 22        | 110         | 90       | 8      | 30 |             |          |        |    |         |        | 11.31       |       | tr      |         | 1           |
| 8A132    | 2784476.7   | 6380632.4 | 14        | 30          | 70       | 20     | 34 |             |          |        |    |         |        | 25.02       |       | tr      |         | 3           |
| 8A133    | 2784265.6   | 6380717.6 | 4         | 40          | 120      | 10     | 14 |             |          |        |    |         |        | 5.71        |       | tr      |         | 1           |
| 8A134    | 2784530.5   | 6380523.2 | 28        | 135         | 70       | 16     | 44 |             |          |        |    |         |        | 11.72       |       | tr      |         | 3           |
| 8A135    | 2784445.3   | 6380432.4 | 30        | 60          | 30       | 8      | 38 |             | 65       | 25     | 8  | 34      |        | 26.57       | 24.78 | tr      |         | 2           |
| 8A136    | 2784395.2   | 6380389.8 | 22        | 35          | 35       | 8      | 30 |             |          |        |    |         |        | 32.15       |       | tr      |         | 3           |
| 8A137    | 2784389.7   | 6380343.5 | 26        | 70          | 65       | 8      | 34 |             |          |        |    |         |        | 20.38       |       | tr      |         | 3           |
| 8A138    | 2784350.8   | 6380276.8 | 16        | 37.5        | 50       | 8      | 24 |             |          |        |    |         |        | 23.11       |       | tr      |         | 3           |
| 8A139    | 2784539.7   | 6380267.6 | 6         | 20          | 175      | 48     | 54 |             |          |        |    |         |        | 16.70       |       | tr      |         | 1           |

| Ref. No. | Coordinates |           | Height(m) | Scarp       |          | Bottom |    | Runout      |          | Toe Top |    | Slope angle |        | Geology | Seepage | Geo. Symbol |
|----------|-------------|-----------|-----------|-------------|----------|--------|----|-------------|----------|---------|----|-------------|--------|---------|---------|-------------|
|          |             |           |           | Distance(m) | Width(m) | RL     | RL | Distance(m) | Width(m) | RL      | RL | Scarp       | Runout |         |         |             |
| 8A140    | 2784441.5   | 6380054.6 | 8         | 25          | 80       | 32     | 40 |             |          |         |    | 17.74       |        | tr      |         | 1           |
| 8A141    | 2784515.6   | 6379904.6 | 4         | 25          | 60       | 38     | 42 |             |          |         |    | 9.09        |        | tr      |         | 1           |
| 8A142    | 2784421.2   | 6379960.1 | 14        | 105         | 40       | 16     | 30 |             |          |         |    | 7.59        |        | tr      |         | 1           |
| 8A143    | 2784348.9   | 6379939.8 | 15        | 80          | 60       | 12     | 27 |             |          |         |    | 10.62       |        | tr      |         | 3           |
| 8A144    | 2784254.5   | 6379928.6 | 4         | 15          | 100      | 12     | 16 |             |          |         |    | 14.93       |        | tr      |         | 3           |
| 8A145    | 2783945.2   | 6379874.9 | 6         | 25          | 60       | 8      | 14 |             |          |         |    | 13.50       |        | fa      |         | 3           |
| 8A146    | 2783884.1   | 6379582.3 | 8         | 25          | 65       | 6      | 14 |             |          |         |    | 17.74       |        | fa      |         | 3           |
| 8A147    | 2784139.7   | 6379708.2 | 8         | 30          | 115      | 8      | 16 |             |          |         |    | 14.93       |        | tr      |         | 3           |
| 8A148    | 2784315.6   | 6379554.5 | 40        | 60          | 225      | 10     | 50 |             |          |         |    | 33.69       |        | tr      |         | 1           |
| 8A149    | 2784406.4   | 6379437.8 | ?         | 30          | 90       | ?      | 56 |             |          |         |    | ?           |        | tr      |         | 3           |
| 8A150    | 2784658.2   | 6379545.3 | 16        | 70          | 50       | 34     | 50 |             |          |         |    | 12.88       |        | tr      |         | 1           |
| 8A151    | 2784552.7   | 6379593.4 | 20        | 75          | 80       | 20     | 40 |             |          |         |    | 14.93       |        | tr      |         | 3           |
| 8A152    | 2784450.8   | 6379619.3 | 22        | 70          | 50       | 28     | 50 |             |          |         |    | 17.45       |        | tr      |         | 0           |
| 8A153    | 2784393.4   | 6379661.9 | 28        | 120         | 275      | 20     | 48 | 235         | 100      | 13      | 28 | 13.13       | 8.47   | tr      |         | 4/3         |
| 8A154    | 2784658.2   | 6379969.4 | 14        | 45          | 125      | 28     | 42 |             |          |         |    | 17.28       |        | tr      |         | 1           |
| 8A155    | 2784695.3   | 6380036.1 | 18        | 25          | 55       | 26     | 44 |             |          |         |    | 35.75       |        | tr      |         | 0           |
| 8A156    | 2784813.8   | 6380106.4 | 24        | 35          | 55       | 8      | 32 |             |          |         |    | 34.44       |        | tr      |         | 0           |
| 8A157    | 2784786.0   | 6380191.6 | 32        | 45          | 130      | 14     | 46 |             |          |         |    | 35.42       |        | tr      |         | 0           |
| 8A158    | 2784754.6   | 6380308.3 | 30        | 75          | 100      | 8      | 38 |             |          |         |    | 21.80       |        | tr      |         | 0           |
| 8A159    | 2784774.9   | 6380425.0 | 22        | 50          | 90       | 12     | 34 |             |          |         |    | 23.75       |        | tr      |         | 0           |
| 8A160    | 2784936.1   | 6380273.1 | 12        | 85          | 55       | 46     | 58 |             |          |         |    | 8.04        |        | wt      |         | 0           |
| 8A161    | 2784945.3   | 6380197.2 | 12        | 75          | 50       | 46     | 58 |             |          |         |    | 9.09        |        | wt      |         | 0           |
| 8A162    | 2784232.3   | 6382614.2 | 26        | 55          | 165      | 10     | 36 |             |          |         |    | 25.30       |        | wt      |         | 1           |
| 8A163    | 2784256.3   | 6382508.6 | 16        | 45          | 115      | 20     | 36 |             |          |         |    | 19.57       |        | wt      |         | 3           |
| 8A164    | 2784241.5   | 6382425.3 | 8         | 40          | 55       | 12     | 20 |             |          |         |    | 11.31       |        | wt      |         | 3           |
| 8A165    | 2784337.8   | 6382419.7 | 24        | 65          | 90       | 22     | 46 |             |          |         |    | 20.27       |        | wt      |         | 3           |
| 8A166    | 2784341.5   | 6382336.4 | 26        | 60          | 50       | 20     | 46 |             |          |         |    | 23.43       |        | wt      |         | 3           |
| 8A167    | 2784474.9   | 6382301.2 | 40        | 165         | 115      | 24     | 64 | 170         | 45       | 26      | 52 | 13.63       | 12.60  | wt      |         | 4           |
| 8A168    | 2784348.9   | 6382206.7 | 28        | 100         | 80       | 22     | 50 |             |          |         |    | 15.64       |        | wt      |         | 3           |
| 8A169    | 2784258.2   | 6382141.9 | 18        | 45          | 130      | 26     | 44 |             |          |         |    | 21.80       |        | wt      |         | 3           |
| 8A170    | 2783985.9   | 6382317.8 | 26        | 60          | 65       | 12     | 38 |             |          |         |    | 23.43       |        | wt      |         | 3           |
| 8A171    | 2783124.7   | 6382738.3 | 30        | 200         | 200      | 10     | 40 |             |          |         |    | 8.53        |        | wt      |         | 3           |
| 8A172    | 2784936.1   | 6380273.1 | 16        | 80          | 120      | 6      | 22 |             |          |         |    | 11.31       |        | wt      |         | 0           |
| 8A173    | 2784265.6   | 6380717.6 | 6         | 95          | 230      | 48     | 54 |             |          |         |    | 3.61        |        | wt      |         | 1           |
| 8A174    | 2784515.6   | 6379904.6 | 9         | 35          | 50       | 24     | 33 |             |          |         |    | 14.42       |        | tr      |         | 1           |
| 8B001    | 2784378.2   | 6377538.0 | 32        | 65          | 65       | 28     | 60 |             |          |         |    | 26.21       |        | tr      |         | 0           |
| 8B002    | 2784574.7   | 6377545.7 | 20        | 45          | 80       | 32     | 52 |             |          |         |    | 23.96       |        | tr      |         | 0           |
| 8B003    | 2784579.9   | 6377631.0 | 14        | 25          | 95       | 36     | 50 |             |          |         |    | 29.25       |        | tr      |         | 0           |
| 8B004    | 2784460.9   | 6378078.3 | 32        | 100         | 90       | 24     | 56 |             |          |         |    | 17.74       |        | tr      |         | 3           |
| 8B005    | 2784872.0   | 6377899.9 | 20        | 55          | 115      | 36     | 56 |             |          |         |    | 19.98       |        | tr      |         | 0           |
| 8B006    | 2784928.9   | 6378024.0 | 10        | 25          | 60       | 44     | 54 |             |          |         |    | 21.80       |        | tr      |         | 0           |
| 8B007    | 2784833.2   | 6378083.5 | 14        | 25          | 55       | 42     | 56 |             |          |         |    | 29.25       |        | tr      |         | 0           |
| 8B008    | 2784590.2   | 6378251.5 | 34        | 85          | 180      | 22     | 56 |             |          |         |    | 21.80       |        | tr      | Yes     | 3           |
| 8B009    | 2784670.4   | 6378349.8 | 32        | 65          | 80       | 20     | 52 |             |          |         |    | 26.21       |        | tr      |         | 3           |
| 8B010    | 2784714.3   | 6378486.8 | 32        | 70          | 130      | 18     | 50 |             |          |         |    | 24.57       |        | tr      |         | 3           |
| 8B011    | 2784618.6   | 6378429.9 | 10        | 25          | 50       | 40     | 50 |             |          |         |    | 21.80       |        | tr      |         | 3           |
| 8B012    | 2784556.6   | 6378414.4 | 8         | 15          | 35       | 44     | 52 |             |          |         |    | 28.07       |        | tr      |         | 0           |
| 8B013    | 2784486.8   | 6378437.7 | 12        | 70          | 125      | 42     | 54 |             |          |         |    | 9.73        |        | tr      |         | 3           |
| 8B014    | 2784608.3   | 6378716.9 | 12        | 90          | 35       | 40     | 52 |             |          |         |    | 7.59        |        | tr      | Yes     | 0           |
| 8B015    | 2784670.4   | 6378903.0 | 28        | 55          | 50       | 20     | 48 |             |          |         |    | 26.98       |        | tr      | Yes     | 0           |
| 8B016    | 2784740.2   | 6379006.5 | 26        | 55          | 125      | 18     | 44 |             |          |         |    | 25.30       |        | tr      | Yes     | 3           |
| 8B017    | 2784791.9   | 6379140.9 | 24        | 55          | 100      | 22     | 46 |             |          |         |    | 23.57       |        | tr      |         | 3           |
| 8B018    | 2784264.4   | 6378941.8 | 34        | 70          | 70       | 12     | 46 |             |          |         |    | 25.91       |        | tr      |         | 3           |
| 8B019    | 2784153.3   | 6378833.2 | 18        | 55          | 50       | 32     | 50 |             |          |         |    | 18.12       |        | tr      |         | 3           |
| 8B020    | 2784036.9   | 6378820.3 | 28        | 40          | 90       | 16     | 44 |             |          |         |    | 34.99       |        | tr      |         | 3           |
| 8B021    | 2784398.9   | 6379399.4 | 36        | 115         | 110      | 18     | 54 |             |          |         |    | 17.38       |        | tr      |         | 3           |
| 8B022    | 2784217.9   | 6379352.9 | 24        | 25          | 110      | 10     | 34 |             |          |         |    | 43.83       |        | tr      |         | 3           |
| 8B023    | 2784155.9   | 6379371.0 | 20        | 45          | 115      | 12     | 32 | 80          | 60       | 6       | 22 | 23.96       | 18.00  | tr      |         | 4           |
| 8B024    | 2783072.6   | 6379151.2 | 7         | 50          | 35       | 14     | 21 |             |          |         |    | 7.97        |        | tr      |         | 0           |
| 8B025    | 2782718.4   | 6379140.9 | 26        | 30          | 130      | 28     | 54 |             |          |         |    | 40.91       |        | tr      |         | 0           |
| 8B026    | 2782690.0   | 6379050.4 | 16        | 65          | 70       | 38     | 54 |             |          |         |    | 13.83       |        | tr      |         | 0           |
| 8B027    | 2782449.5   | 6379130.6 | 30        | 70          | 80       | 28     | 58 |             |          |         |    | 23.20       |        | tr      |         | 0           |
| 8B028    | 2782346.1   | 6379107.3 | 30        | 110         | 130      | 14     | 44 |             |          |         |    | 15.26       |        | tr      |         | 0           |
| 8B029    | 2782136.7   | 6379063.3 | 18        | 35          | 75       | 20     | 38 |             |          |         |    | 27.22       |        | tr      |         | 0           |
| 8B030    | 2782596.9   | 6379363.2 | 14        | 40          | 175      | 42     | 56 |             |          |         |    | 19.29       |        | tr      |         | 0           |
| 8B031    | 2782793.4   | 6379536.5 | 48        | 120         | 55       | 16     | 64 |             |          |         |    | 21.80       |        | tr      |         | 0           |
| 8B032    | 2782845.1   | 6379412.4 | 24        | 50          | 75       | 24     | 48 |             |          |         |    | 25.64       |        | tr      |         | 0           |
| 8B033    | 2784998.7   | 6378830.7 | ?         | 55          | 90       | 20     | ?  |             |          |         |    | ?           |        | tr      |         | 3           |
| 8B034    | 2782596.9   | 6379363.2 | 24        | 125         | 175      | 30     | 54 |             |          |         |    | 10.87       |        | tr      |         | 0           |