

GEOTECHNICAL SOIL TEST REPORT

Client: Mr Coetzee

Project: Erf 2003, Wilderness

Date of test: 23.7.2021

Geotechnical Constraint	Risk			NHBC Classification
	Low	Medium	High	
Active clay	X			H
Compressible soil		X		
Collapsible soil		X		C1
Imported/uncontrolled fill	X			
Chemically aggressive soils	X			
Saturated soils/ groundwater seepage		X		
Shallow hard rock/ difficult excavations		X		R
Slope stability problems	X			
Flood potential	X			
Seismicity	X			
Dolomitic land	X			

Disclaimer: The above classification is provided as a guideline and is true for the specific locations that were tested and may not be true for the entire site.

Site description:

The topography of the property is quite variable and is characterised by a south- and southeast-facing moderate slope which becomes steeper towards a natural drainage line in the middle of the property. The proposed development consists of 4 chalets and a main residence along the northern and north-eastern side of the site. At the time of the investigation, the site was covered in thick indigenous vegetation and entry onto the site was restricted to access on foot (see Figure 1). The ground surface conditions in the proposed development area were generally dry with no signs of groundwater seepage or any significant slope stability problems.



Figure 1: View of site from the access point on the NE corner

Geology & Soil profile:

The site is underlain by phyllite, schist and feldspathic quartzite of the Soetkraal Formation of the Kaaimans Group. The geology is not visible in outcrop on the site, but this formation is well exposed on Whites Road to the east of the site and on the Kaaimans pass between Wilderness and George. The Kaaimans Formation rocks in the area were intruded by the George granite pluton and are generally southward-dipping at angles varying from 40-70°.

The soil profile that underlies the site was investigated by way of four shallow test pits, and found to consist of the following general horizons:

0-0.3m: Dark brown, firm, gravelly sandy clay/clayey sand – ***colluvium (topsoil)***

0.3-0.8m: Dark reddish brown, stiff, shattered, sandy silty clay - ***colluvium***

0.8-1.0m: Light grey to dark brown, dense to very dense, silty clayey gravel - ***residual completely weathered phyllite***

>1.0m: Light grey, very highly fractured, highly weathered, very soft to soft rock – ***phyllite bedrock***

The test pits were terminated due to difficult excavations or refusal on phyllite bedrock (see Fig 2). The depth to the bedrock is variable, and becomes shallower towards the west, but generally occurs at a depth of 0.8-1.5m. Large boulders or fragments of bedrock may also be encountered at this depth. No groundwater was encountered in test pits, but seepage can be expected in wet weather periods.

Observations in test pits and subsequent lab tests indicates a slightly expansive nature of the clayey soil cover above the bedrock, but this horizon is generally limited in thickness and the overall heave potential of the site is low.

In situ DCP tests conducted next to test pits from NGL indicate that the upper ~0.4m of the soil profile is loose, but firms up quickly below this depth and most tests refused on rock or boulders at a max depth of 1.5m. The DCP at TP1 penetrated in stiff material to 2m depth, indicating deeper rock at this position.

The founding conditions appear to be favourable with good bearing capacity on stiff/dense soil or rock at fairly shallow founding depths of 0.8m where EASBP ~ 125kPa, but variable rock levels may have an influence on final foundation levels.



Figure 3: Soil types encountered in test pits

Recommendations:

Earthworks & materials: The site is moderately sloping, becoming steep towards the west, and access/vegetation clearing will be challenging unless a minimal footprint area is adopted. Earthworks required to create level platforms (if any) may encounter shallow rock, mainly on the western side of the proposed development. Shallow excavations for the proposed development are unlikely to have any significant effect on the general stability of the site, but excavations should be assessed by a competent person as excavations progress. Excavations shallower than 1.5m are likely to be fairly stable at near-vertical angles for short periods (temporary works).

In situ granular soils (sandy/gravelly soils, not clay), less any large rock fragments >150mm diameter, obtained from excavations may be suitable for reuse as bulk filling material under floors and behind retaining walls but should be approved by the engineer before placement. Any unsuitable soil obtained from excavations should be spoiled in a suitable location on site (e.g. as landscaping fill). Allowance should be made for imported high quality materials (e.g. G5) for final selected fill layers under concrete surface beds. Imported free-draining fill material (coarse sand/crusher run/stone) will be required for drainage medium behind retaining walls (if any).

Foundations & floors: The recommended foundation type for single or double storey masonry or timber structures is reinforced strip and/or pad foundations placed on dense/stiff soil horizons or preferably bedrock at a minimum nominal depth of 0.8m below NGL. The recommended maximum bearing pressure for foundations is 125kPa. Structures founded at the correct levels on suitable bedrock or stiff/dense soil horizons are unlikely to induce or become susceptible to slope instability. Competent supervision in this regard is important. All foundations should be inspected by the engineer before placing reinforcement.

Driveway & parking areas: The proposed driveway onto the site with parking area will be a challenge due to the dense indigenous vegetation, which may be environmentally sensitive. Construction of the driveway may involve minor cutting and filling to achieve the correct line and levels. The in situ soils are generally poor quality in terms of road-building and it is recommended that an allowance is made for the importation of SSG gravel material to improve access during construction, in addition to the final subbase and paving layerworks.

Drainage: The soil has a low permeability and vertical infiltration will be restricted by the presence of shallow rock and dense soils, so stormwater will tend to run off site after heavy rainfall. Effective stormwater management systems are required to collect and discharge stormwater in a controlled manner down slopes. Subsoil drains are recommended behind retaining walls as standard.

Conclusions:

The investigation indicates that the site is potentially suitable for development but there are some geotechnical constraints, such as difficult access, restricted construction space, steep slopes and shallow/irregular rock, which may have an impact on the engineering design and construction costs. Some recommendations are offered for consideration by the structural engineer.

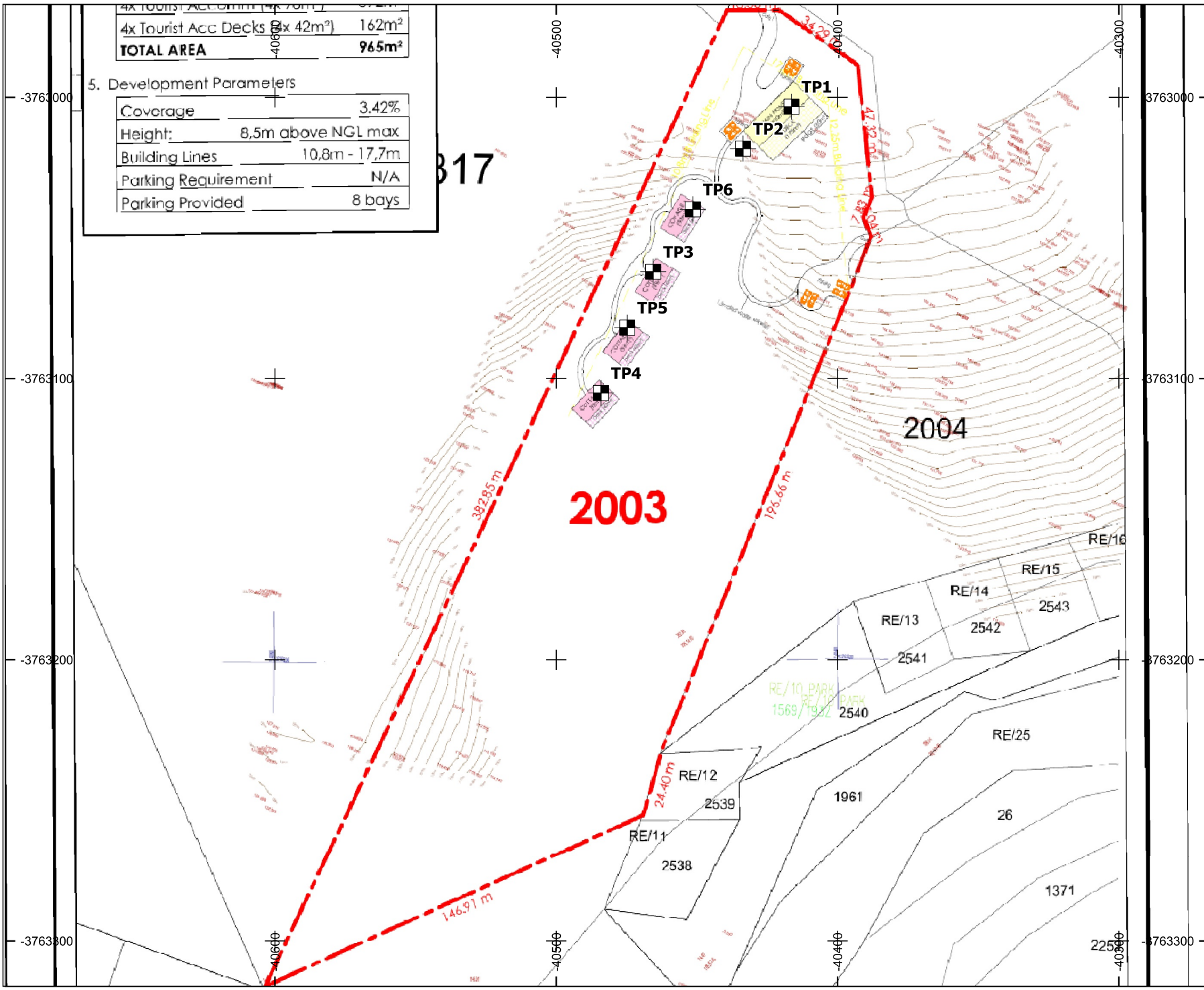
A handwritten signature in black ink, appearing to read 'Iain Paton', written in a cursive style.

Iain Paton Pr Sci Nat Pr Tech Eng

4x Tourist Acc Decks (42m ²)	162m ²
TOTAL AREA	965m²

5. Development Parameters

Coverage	3,42%
Height:	8,5m above NGL max
Building Lines	10,8m - 17,7m
Parking Requirement	N/A
Parking Provided	8 bays

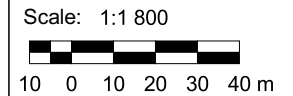


Legend

☒ Test pit/ DCP test position

Client: Wentzel Coetzee
 Project: Residential Development
 Site: Erf 2003 Wilderness Area: George





Drawing Name: Geotechnical Plan (2)
 Drawing No:
 Date: August 2021
 Revision: 0
 Drawn by: DB Snyders
 Checked by: I Paton



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 iain@outeniqua.co.za




Legend

-  Test pit/ DCP test position
-  Farm Portions
-  Erf
-  Contours 5m

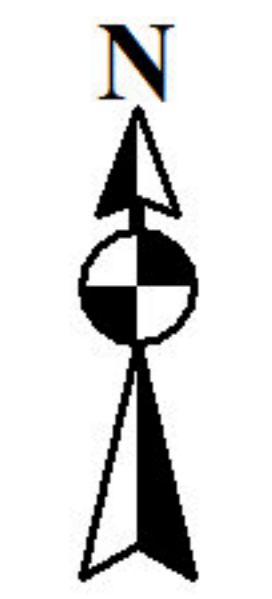
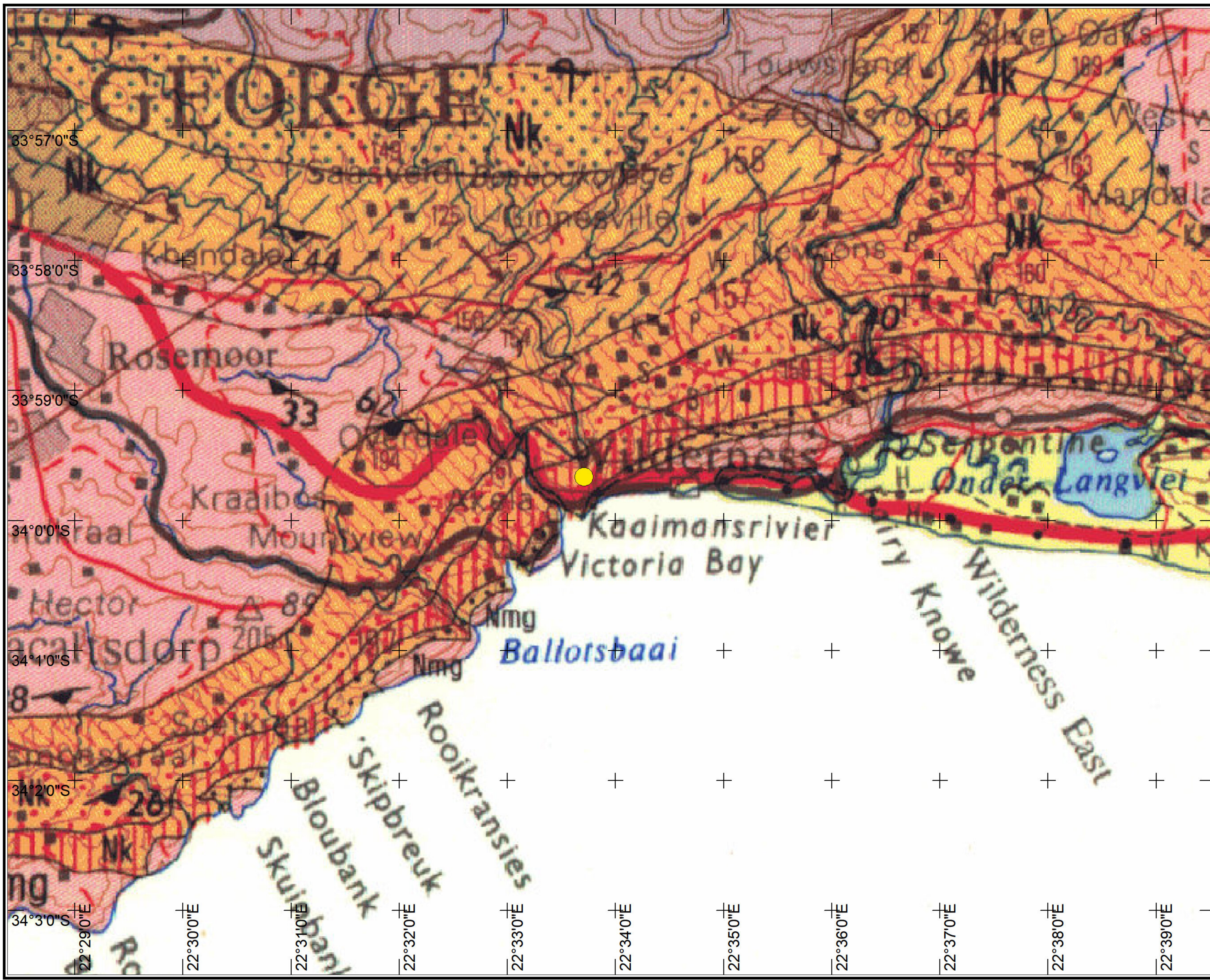
Client: Wentzel Coetzee
 Project: Residential Development
 Site: Erf 2003 Wilderness Area: George

Drawing Name: Geotechnical Plan
 Drawing No:
 Date: August 2021
 Revision: 0
 Drawn by: DB Snyders
 Checked by: I Paton

Scale: 1:1 800

 10 0 10 20 30 40 m



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Legend

● Site locality

Client: Mr Coetzee
 Project: New development
 Site: Erf 2003
 Area: Wilderness

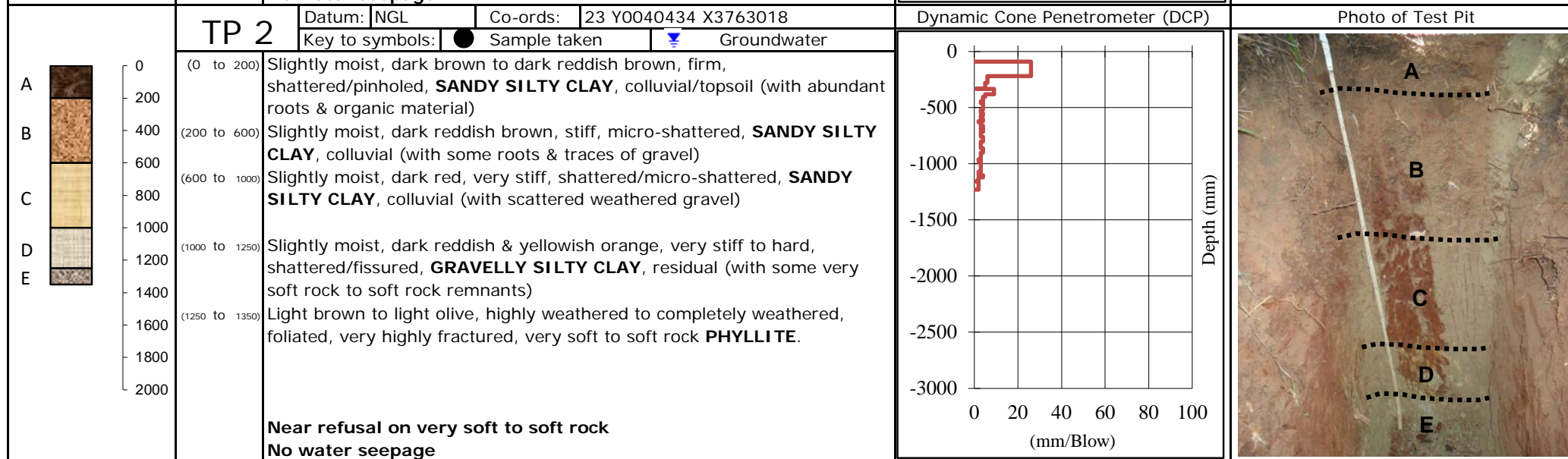
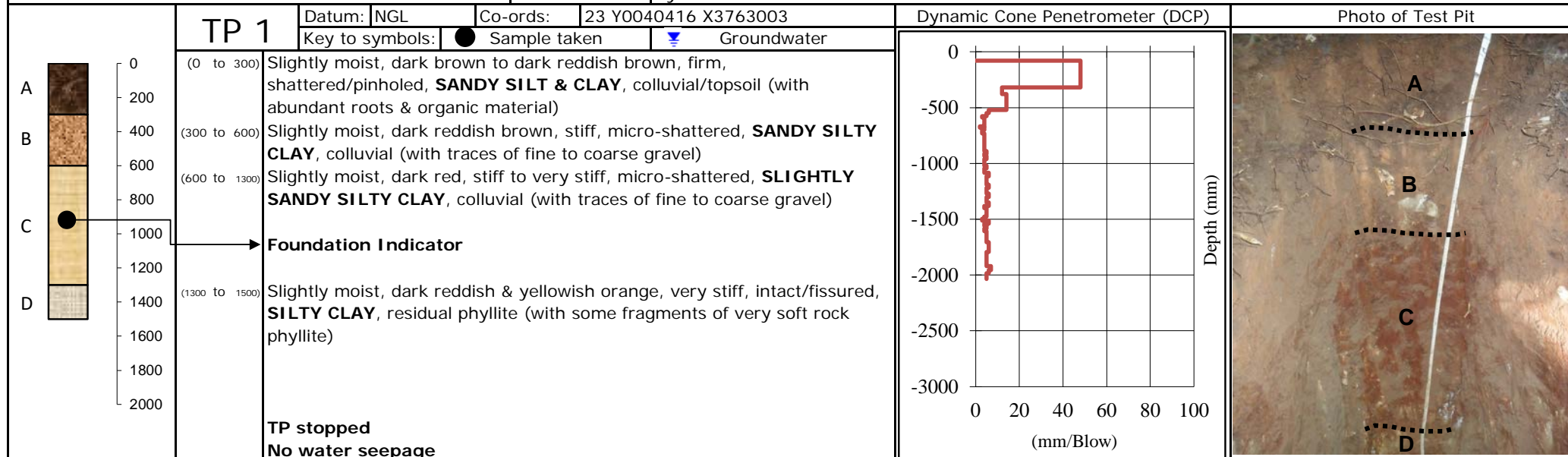
Drawing Name: Geology
 Drawing No:
 Date: July 2021
 Revision: 0
 Drawn By: S Ngema
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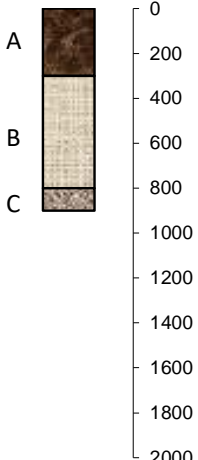
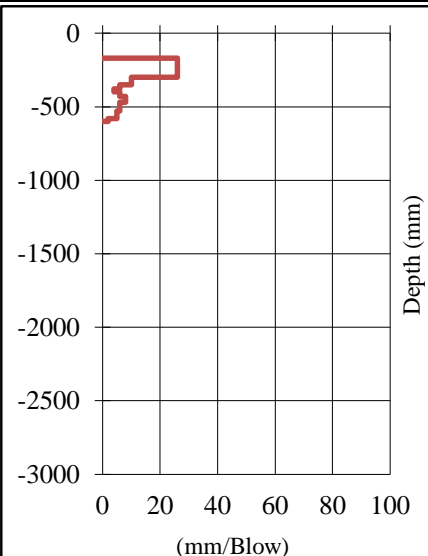
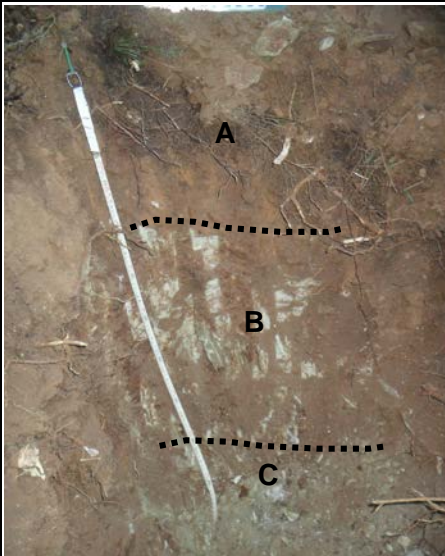
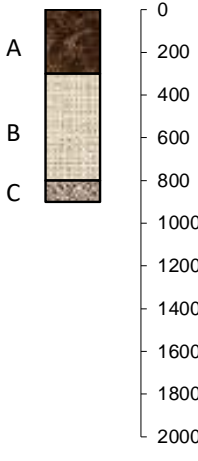
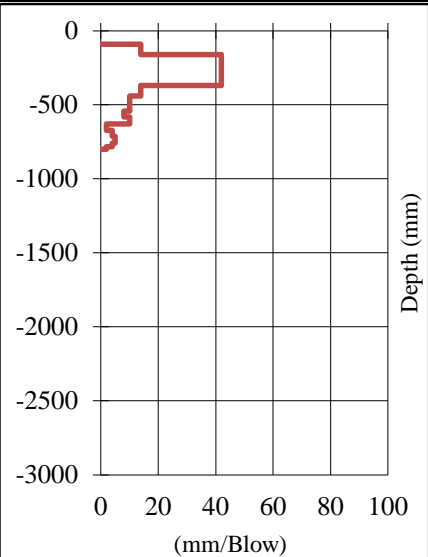
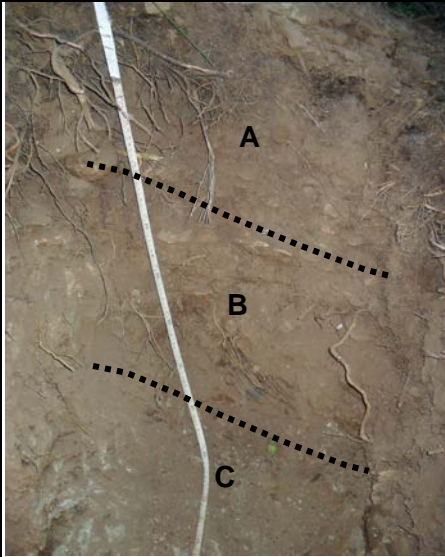
Geotechnical Soil Profile

Client: Wentzel Coetzee
 Project: Erf 2003 Wilderness
 Area: George
 Date: 23.07.2021
 Excavator: By Hand



Geotechnical Soil Profile

Client:	Wentzel Coetzee
Project:	Erf 2003 Wilderness
Area:	George
Date:	23.07.2021
Excavator:	By Hand

		Datum:	Co-ords:	Dynamic Cone Penetrometer (DCP)	Photo of Test Pit
	TP 3	NGL	23 Y0040466 X3763062		
		Key to symbols: ● Sample taken	Groundwater		
	(0 to 300)	Slightly moist, dark brown to dark reddish brown, firm, shattered/pinholed, SANDY SILTY CLAY , colluvial/topsoil (with abundant roots & organic material)			
	(300 to 800)	Slightly moist, light grey to light olive & dark red bands, very dense, fissured/intact, SILTY CLAYEY GRAVEL , residual/completely weathered phyllite.			
	(800 to 900)	Light grey to light olive, highly weathered, foliated, very highly fractured, very soft rock to soft rock, PHYLLITE (dipping steeply at 70° southwards)			
		Refusal on soft rock phyllite No water seepage			
					
	TP 4	NGL	23 Y0040484 X3763105		
		Key to symbols: ● Sample taken	Groundwater		
	(0 to 300)	Slightly moist, dark brown, soft to firm, shattered/pinholed, GRAVELLY SILTY CLAY , colluvial/topsoil (with abundant roots & organic material)			
	(300 to 800)	Slightly moist, dark brown & light olive, dense to very dense, fissured, CLAYEY & SILTY GRAVEL , residual/completely weathered phyllite.			
	(800 to 900)	Light grey to light olive, highly weathered, foliated, very highly fractured, very soft rock to soft rock, PHYLLITE .			
		Refusal on very soft rock to soft rock phyllite No water seepage Relative steep natural slope (25-30°)			
					



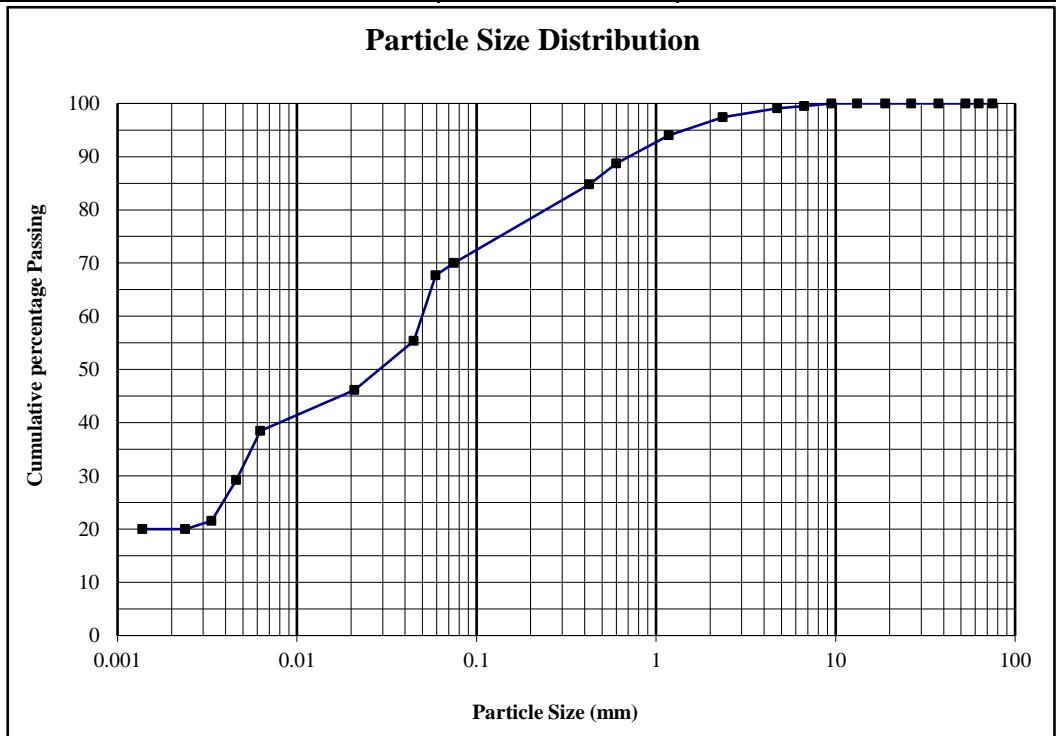
Customer :	Outeniqua Geotechnical Services	Project :	Erf 2003 - Wilderness
	P O Box 964	Date Received :	26/07/21
	Knysna	Date Reported :	30/07/21
Attention :	6570	Req. Number :	2548/21
	Iain Paton	No. of Pages :	1

TEST REPORT

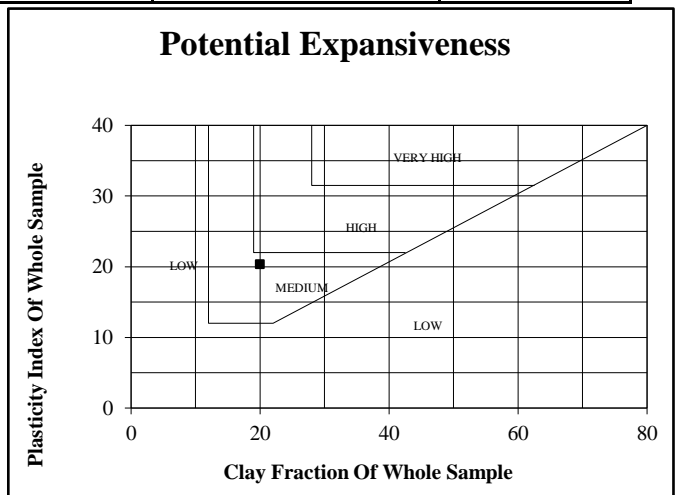
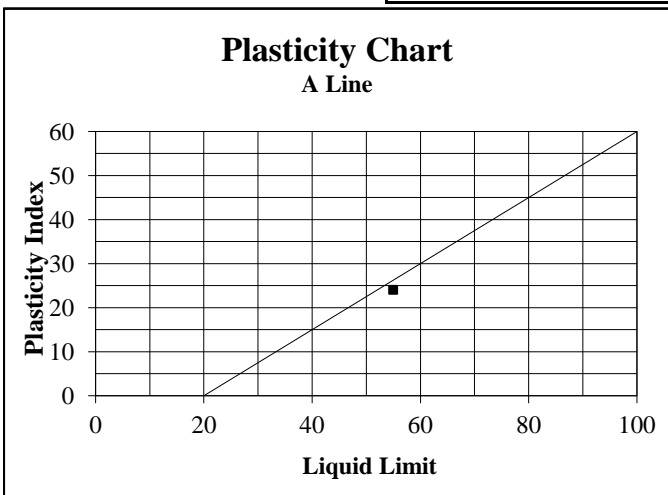
FOUNDATION INDICATOR - (TMH 1 Method A1(a),A2,A3,A4,A5) & (ASTM Method D422)

Material Description:	Dark Red Clayey Sandy Silt	Sample Number:	81971		
Position:	TP1 - Layer 2	Liquid Limit	55	Linear Shrinkage	12
Depth:	600-1300	Plasticity Index	24	Insitu M/C%	22

Sieve Size(mm)	% Passing
75.0	100
63.0	100
53.0	100
37.5	100
26.5	100
19.0	100
13.2	100
9.5	100
6.7	100
4.75	99
2.36	97
1.18	94
0.600	89
0.425	85
0.075	70
0.0591	68
0.0447	55
0.0209	46
0.0062	38
0.0046	29
0.0033	22
0.0024	20
0.0014	20



% Clay	20	% Silt	48	% Sand	28	% Gravel	4
Unified Soil Classification		MH		PRA Soil Classification		A-7-5	



Notes:

- Specimens delivered to Outeniqua Lab in good order.

1. Sampling falls outside the scope of Outeniqua Lab's SANAS accreditation.

For Outeniqua Lab (Pty) Ltd.

2. The test results are reported with an approximate 95% level of confidence.

3. This report (with attachments) is the correct record of all measurements made, and may not be reproduced other than with full written approval from the Technical Director of Outeniqua Lab (Pty) Ltd.

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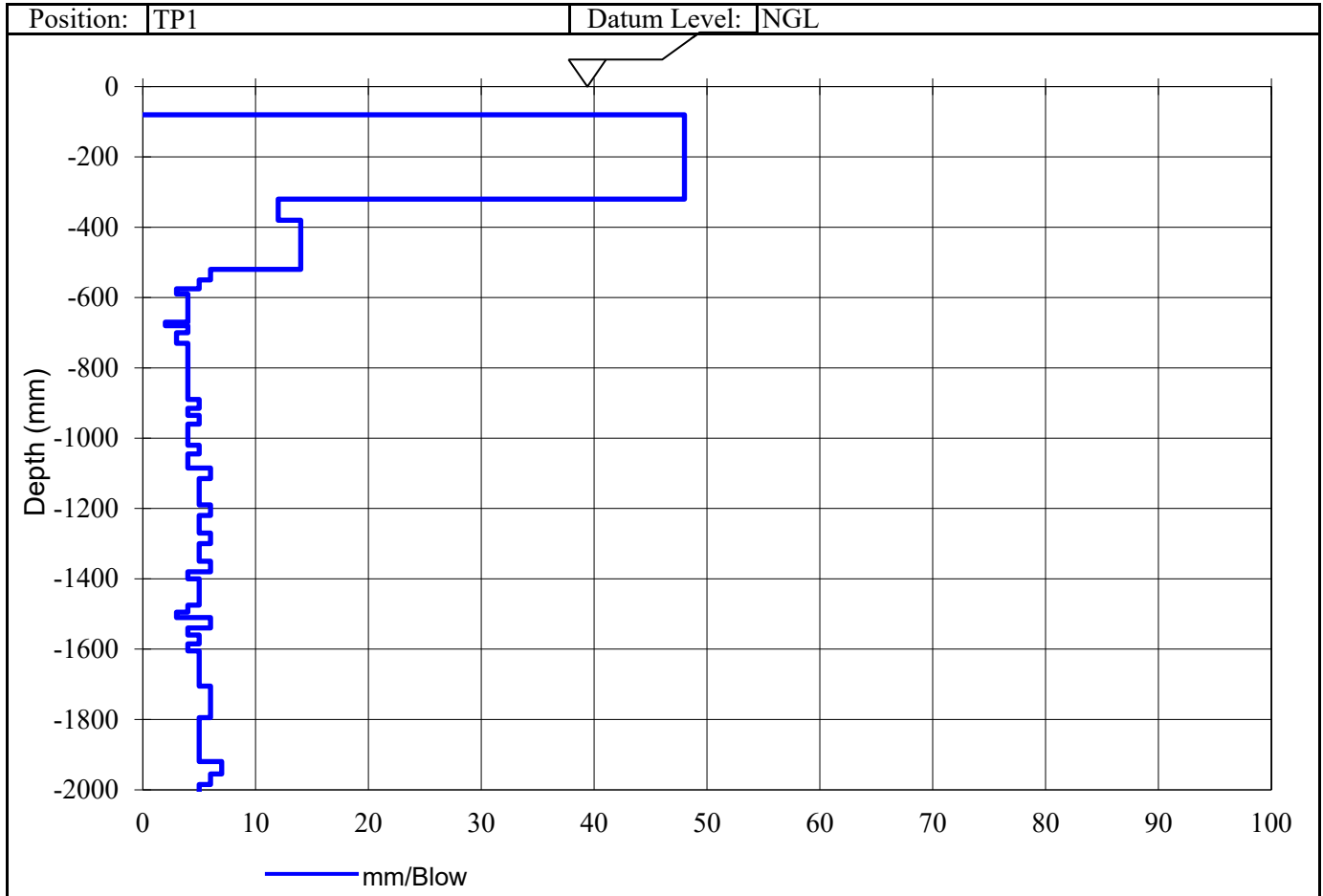
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Customer :	Wentzel Coetzee P.O. Box 401780 Gabrone Botswana	Project :	Erf 2003 Wilderness
		Date Received :	19.07.2021
Attention :	Wentzel Coetzee	Date Reported :	23.07.2021
		Req. Number :	
		No. of Pages :	1 of 6

TEST REPORT

Dynamic Cone Penetrometer (DCP) - (TMH 6 Method ST6)



I Paton (Member)
For Outeniqua Geotech. Services cc.
Technical Signatory

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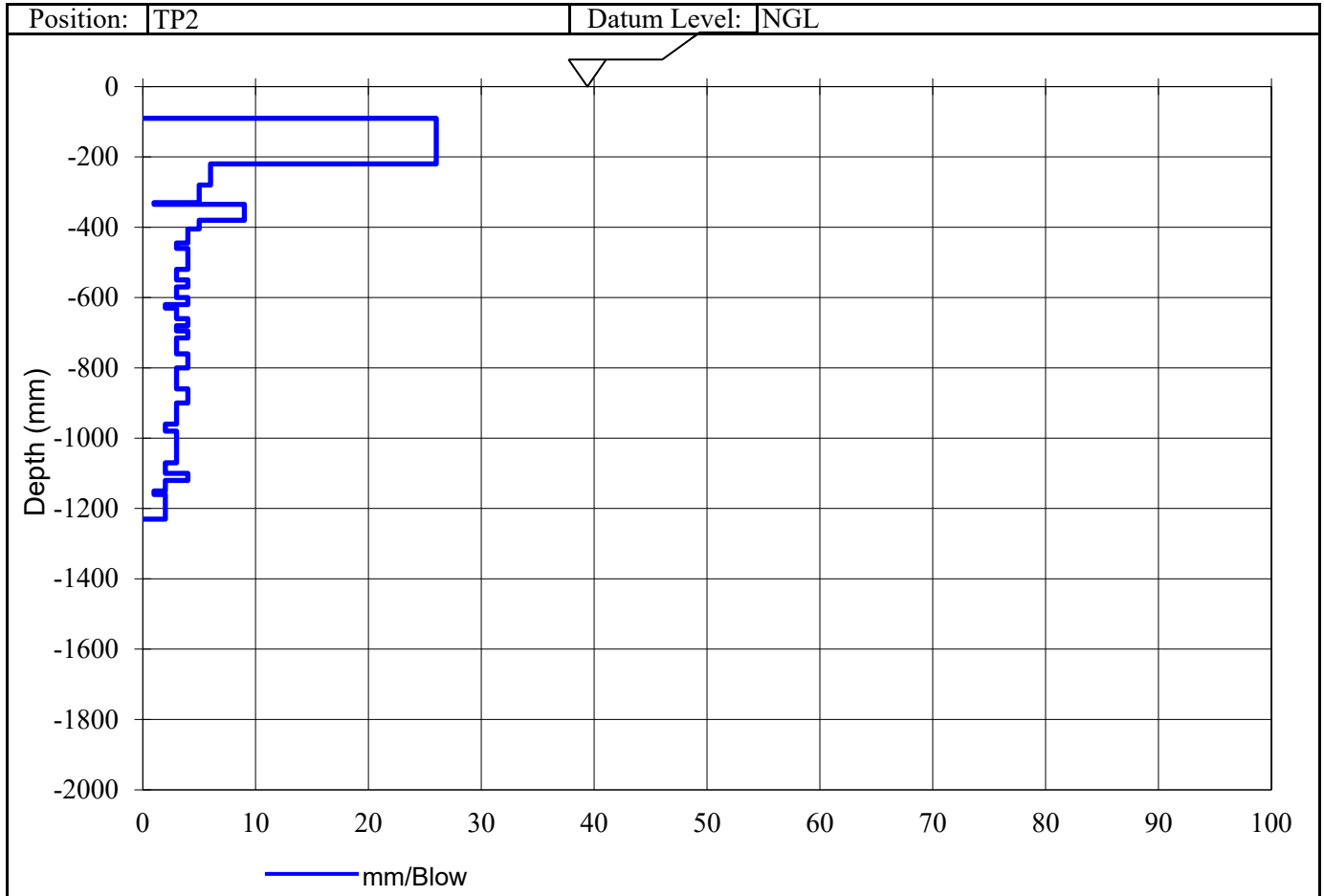
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	Wentzel Coetzee	No. of Pages :	2 of 6

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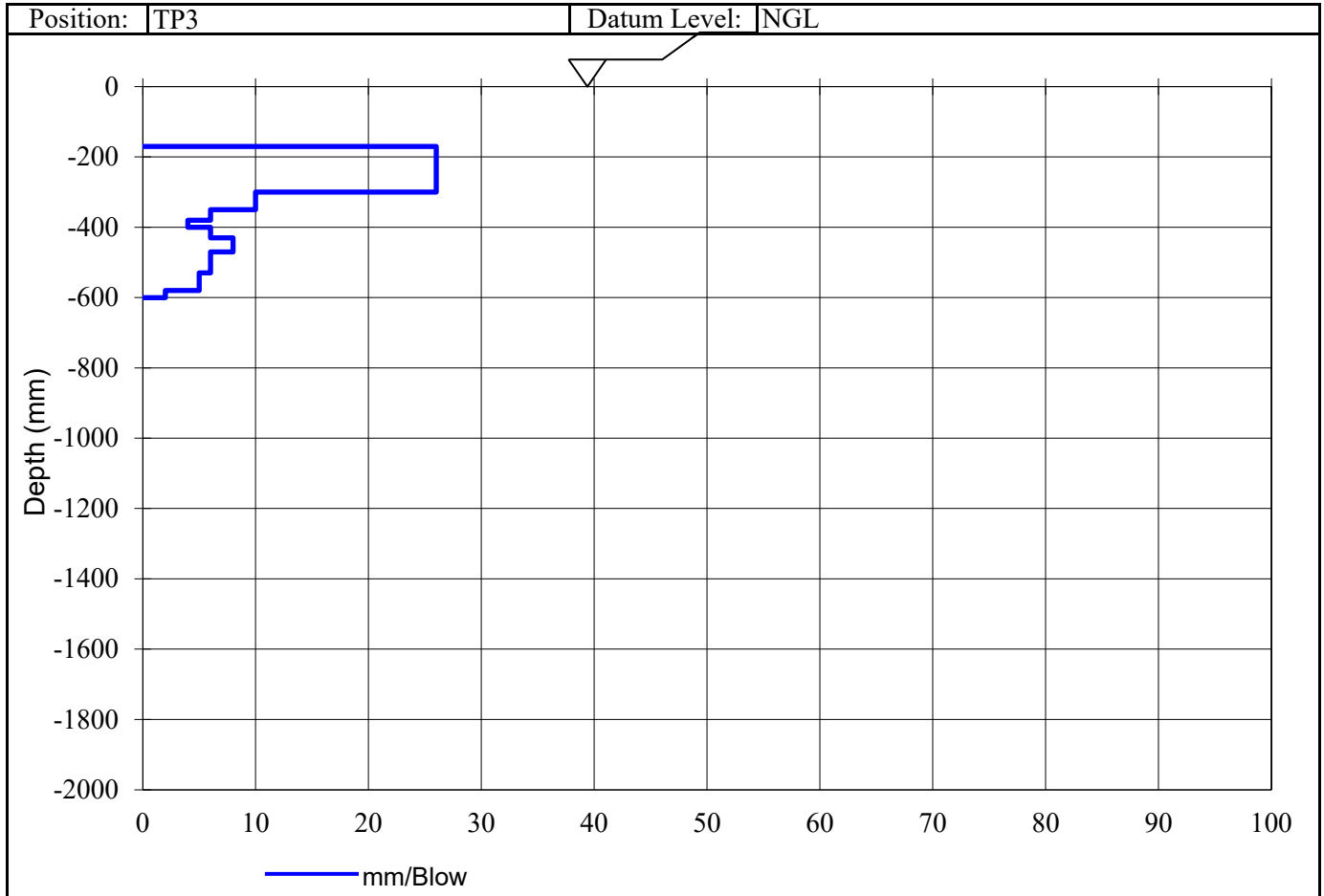
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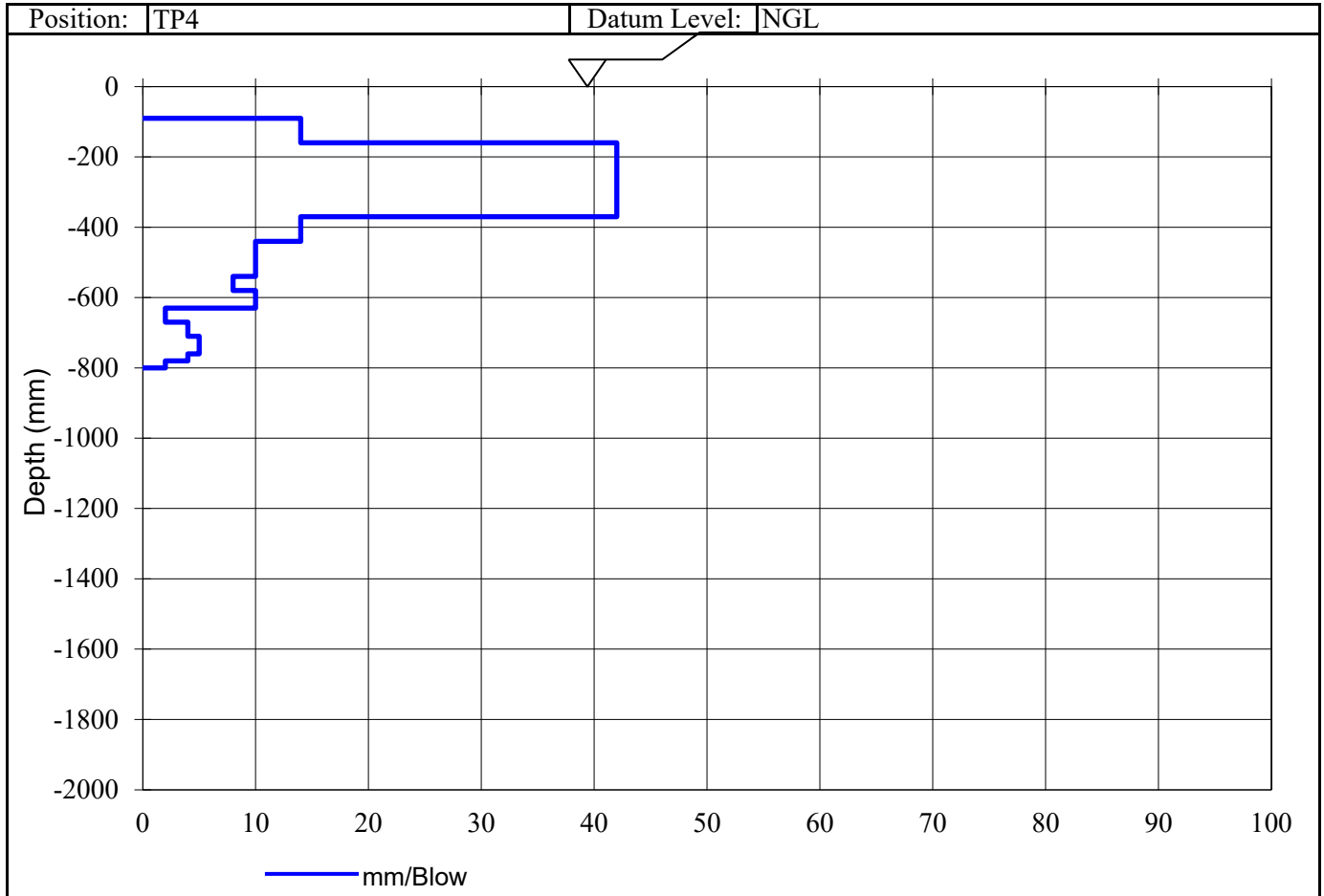
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	Botswana	Req. Number :	
Attention :	Wentzel Coetzee	No. of Pages :	4 of 6

TEST REPORT

Dynamic Cone Penetrometer (DCP) - (TMH 6 Method ST6)



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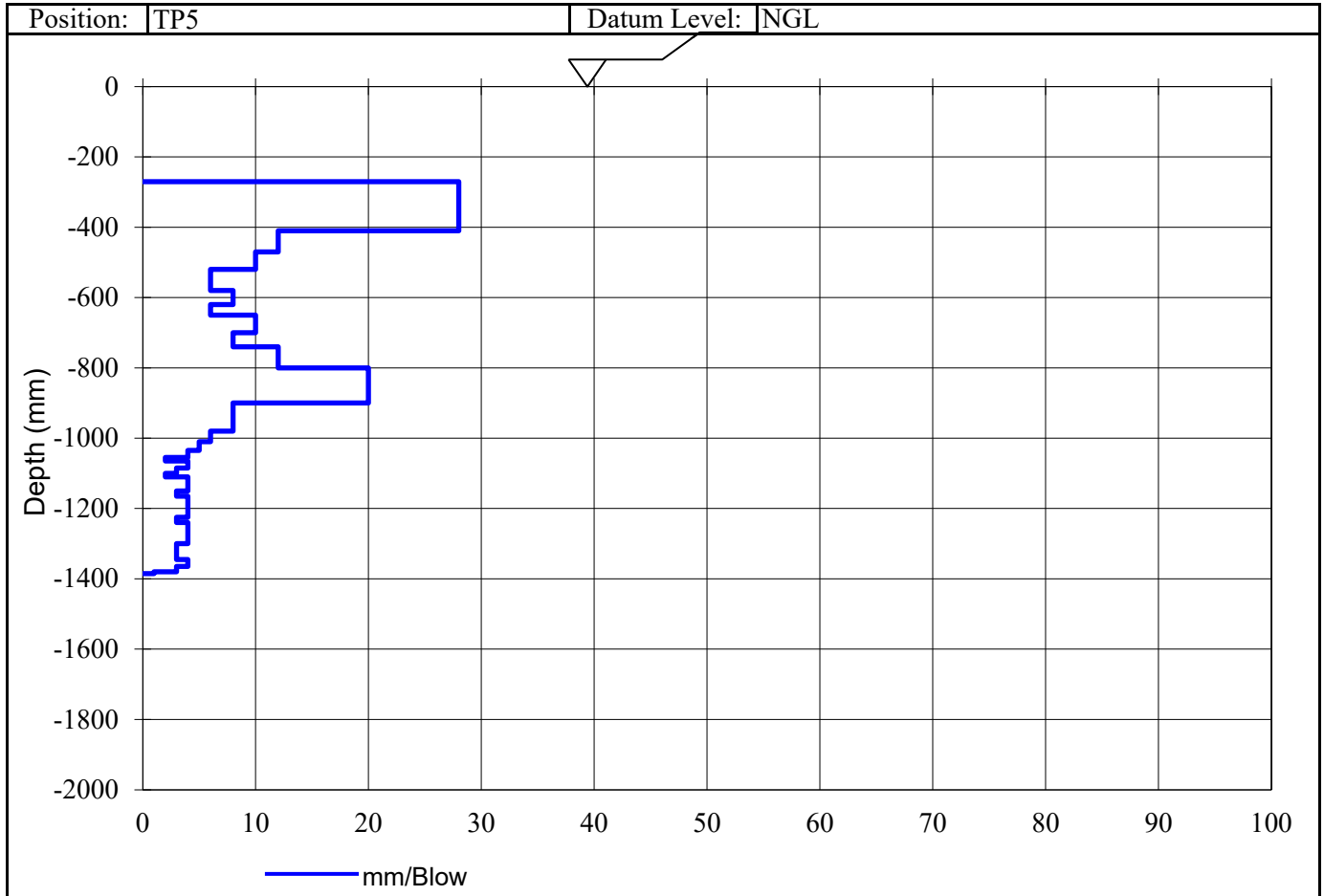
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	Botswana	Req. Number :	
	Wentzel Coetzee	No. of Pages :	5 of 6

TEST REPORT

Dynamic Cone Penetrometer (DCP) - (TMH 6 Method ST6)



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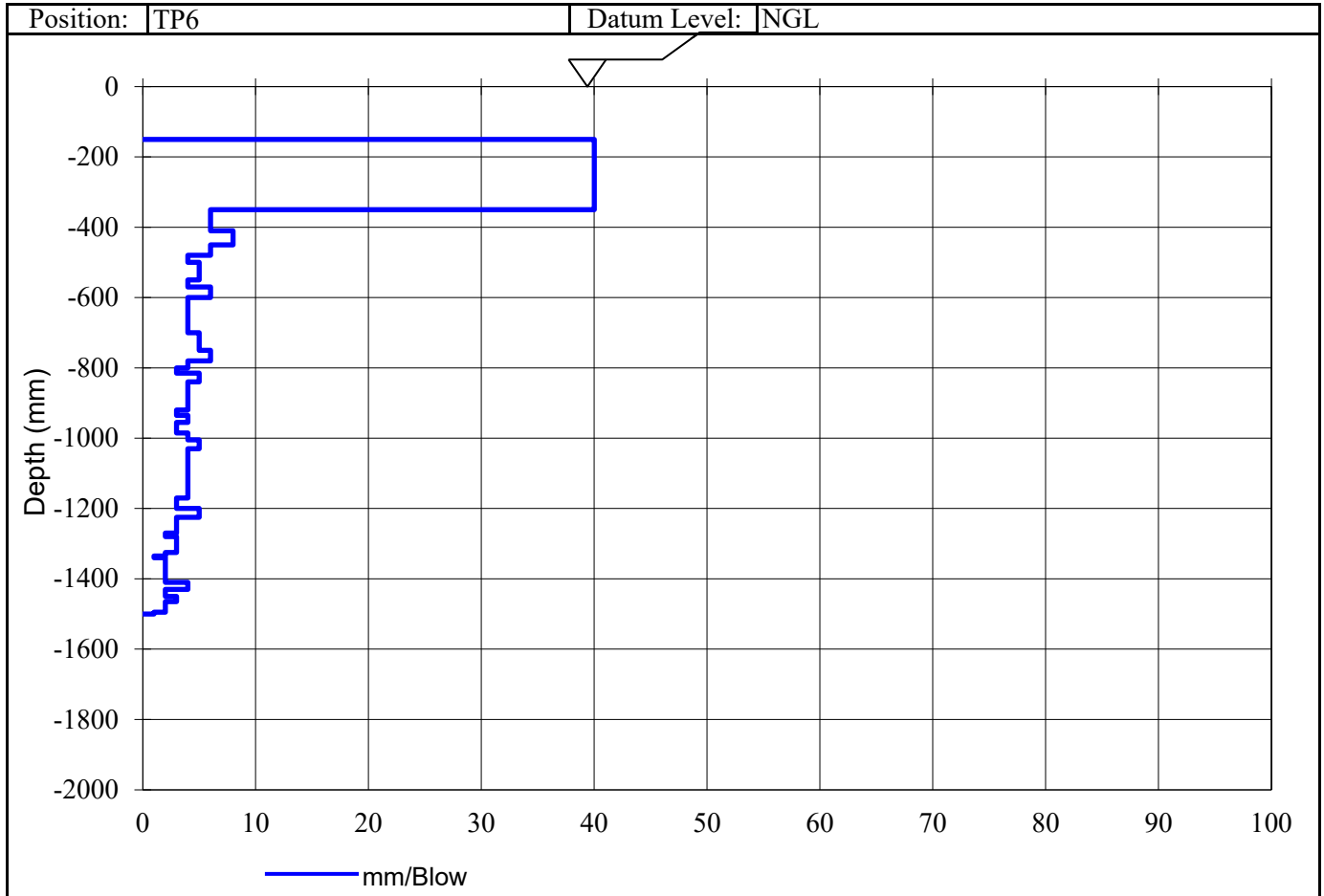
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OFFICE: George OUR REF: G3636 YOUR REF: DATE: 18 January 1995

OUR NEW STREET ADDRESS
66 VICTORIA STREET

Mr I Alder
P O Box 377
WILDERNESS
6560

Dear Sir

REMAINDER OF ERF 1 : WILDERNESS : GEOTECHNICAL INVESTIGATION

This report is compiled in accordance with the requirements of the Wilderness Local Council as set out in paragraph 2.3 and the paragraph headed "Rioolbeskikking" of their letter ref. 14/7/2/927 dated 25 August 1994.

The remainder of erf 1, hereinafter called "the site", is located between the national road N2 and the Map of Africa road. The site is somewhat broken but slopes generally to the South East. Slopes vary from 1:7 to 1:1. Only those parts of the site with slopes flatter than 1:4 will be developed.

The site is covered with indigenous bush and trees. The ground surface consists of a layer of rich humus approximately 100 mm thick over clay over weathered rock.

There is no evidence of hard rock on the surface or in trial holes dug at the sites of proposed houses. Trial hole profiles and locality sketch are appended.

The upper reaches of the site is underlain by phyllites, schists, hornstones and quartzites of the Soetkraal member of the Kaaimans formation. The Soetkraal member dips towards the south at between 20° and 35°.

Rock anchors have been used at Dolphin's Point to stabilise the cut slope of the N2 however it is most unlikely that slips in the national road cut will occur that will effect buildings erected at the positions selected on the site. Should rock be encountered in excavations it must not be removed without first consulting a Geotechnical Engineer as the dip is at such an angle that slips could be caused in higher lying materials.

SECTORS	REGIONAL PARTNER	P D TOWNSHEND	PrEng BSc(Eng) MSAICE MICE FIMESA
B P SCHROEDER R P TWEMLOW W J VAN DER MERWE K G MILLAR J M WILLIAMS R A DURDEN A G POLLARD C A ROSE B N CROSS A B JORDAAN G S T LOWDEN	Pr Eng C Eng MStructE MSAICE MSAACE PrEng PhD BSc MICE MStructE MASCE MSAICE MSAACE PrScNat MSc(Eng Geol) CEng DIC MIMM MSAIEG PrEng BSc(Eng) MSAICE MSAACE PrEng BSc(Eng) MSAICE MSAACE PrEng BSc(Eng) MSAICE MSAACE PrEng MICE MSAICE MIHT MSAACE PrEng MSc(Eng) BSc(Eng) FSAICE MSAACE PrEng BSc(Eng) MSAICE MSAACE PrEng BSc(Eng) MSAICE MSAACE PrEng MSc BSc(Eng) MSAICE MSAACE	CONSULTANT D D WILSON ASSOCIATES D J AYRES F DU PLESSIS N HIRSHMAN SOILS LABORATORIES CAPE TOWN	PrEng BSc(Eng) MSAICE L E BAKER G KERR H MARSH PORT SHEPSTONE LB COX GR TYNDALL G BAKER GEORGE



Ons verw: W/D/212

1995-06-05

Die Streeksingenieur
Departement van Vervoer
Privaatsak X9054
KAAPSTAD
8000

U verw: 11/3/3/-2/7-26

Meneer

VOORGESTELDE ONDERVERDELING: ERF 1, WILDERNIS

'n Aansoek om onderverdeling van Erf 1 in vier gedeeltes het betrekking.

Die voorgestelde onderverdeling is reeds in die verlede deur die Suid-Kaap Streekdiensteraad na u vir kommentaar verwys. Volgens u skrywe, gedateer 11 Augustus 1993, het u geen beswaar teen die voorgestelde onderverdeling gehad nie, maar het u verlang dat 'n geotegniese ondersoek gedoen word om te bepaal of die ontwikkeling die ondergrondse water sal affekteer en sodoende die stabiliteit van die gebied sal beïnvloed.

In opdrag van die eienaar is 'n geotegniese ondersoek deur die raadgewende ingenieursfirma Kantley & Templer gedoen - 'n afskrif van die verslag wat hulle opgestel het, gedateer 18 Januarie 1995 word hierby aangeheg. Hiervolgens blyk dit dat die voorgestelde onderverdeling nie enige gevaar vir die N2 inhou nie. Sekere voorstelle word nietemin daarin gemaak met betrekking tot die hantering van stormwater om te voorkom dat dit gekonsentreer word. Hierdie voorstelle sal uiteraard as voorwaardes vir goedkeuring gestel moet word.

Ter aansluiting hierby dien dit net vermeld te word dat die ontwikkeling wat voorgestel word so wyd verspreid en derhalwe so lae digtheid sal hê, dat dit geen invloed op die N2 behoort te hê nie. Daarbenewens is die terrein ook met digte inheemse kreupelwoud begroei wat as 'n effektiewe absorbeerder en verspreider van afloopwater sal dien. Daar kom ook twee klowe op die terrein voor waarlangs water onderdeur die pad gedreineer sal word - soos reeds vermeld, is die digtheid so laag dat dit nouliks enige invloed op hierdie klowes sal hê.

Ons vertrou dat ons aansoek u gunstige oorweging sal geniet en om spoedig van u te verneem.

Die uwe
NEL & DE KOCK STADS- EN STREEKBEPLANNERS

per: DEON NEL SS(SA)
/ds

5.13 Subdivision Erf 1 Wilderness : I K Alder (14/7/2/927)

RESOLVED

That the applicant be informed that Council is pleased with the Geotechnical Report and completion certificate.

That Council approve the subdivision.

That the words "and the Directorate Planning of the PAWC" be added to paragraph 21.2.1 on page 15 of the Home Owners' Association Constitution of Dolphin's Leap.

Hierdie aanbeveling is deur die raad
bekragtig. Paragraaf 5.13 van
raadsnotule gedateer 27/11/93 verwys

