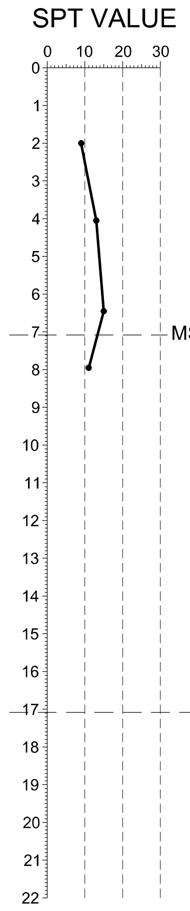
Elevation scale: 10,000 / 8,000 / 6,000 / 4,000 / 2,000 / 0,000 / - 2,000 / - 4,000 / - 6,000 / - 8,000 / - 10,000 / - 12,000 / - 14,000 / - 16,000 / - 18,000 / - 20,000 / - 22,000 / - 24,000 / - 26,000 / - 28,000 / - 30,000

MSL (MEAN SEA LEVEL)

BH 09

1 : 100



Collar elevation: 7,080

Depths (m): 0,00; 0,80; 1,00; 1,50; 1,70; 1,95; 2,15; 2,50; 6,00; 7,45; 11,55; 16,95; 21,70

Core samples: 11,25m - 11,69m; 12,11m - 12,3m; 17,11m - 17,35m

- Slightly moist, greyish brown, mottled, brown, apparently soft, sandy gravelly CLAY containing refuse. Fill.
- Slightly moist, brown and dark greyish brown to black, apparently very loose, silty SAND containing burnt coal and tillite gravel. Fill.
- Slightly moist, greyish brown, mottled orange brown and light grey, apparently, firm, silty CLAY containing tillite gravel. Fill
- Slightly moist, dark greyish brown to black, streaked brown, firm to stiff, silty CLAY.
- Slightly moist, brown, mottled olive green, streaked yellow, firm to stiff, silty CLAY containing tillite gravel.
- Slightly moist, dark greyish brown to black, streaked brown, firm to stiff, silty CLAY.
- Slightly moist, brown, mottled olive green, streaked yellow, firm to stiff, silty CLAY containing tillite gravel.
- Slightly moist, dark brown, speckled orangey brown and black, mottled grey, firm to stiff, intact, sandy silty CLAY. Transported Material.
- Slightly moist, dark brown, speckled orangey brown and black, mottled dark grey, firm to stiff, intact, silty CLAY. Transported Material.
- Slightly moist, dark greyish brown, firm to stiff, silty CLAY. Transported Material.
- Orangey brown, blotched light grey, stained orange, highly to moderately weathered, closely to medium fractured, medium hard rock strength, TILLITE. Dwyka Formation.
- Light grey, stained and speckled, orangey brown, blotched grey, medium fractured, medium hard rock strength, TILLITE with numerous quartz veins. Dwyka Formation.

End of Borehole

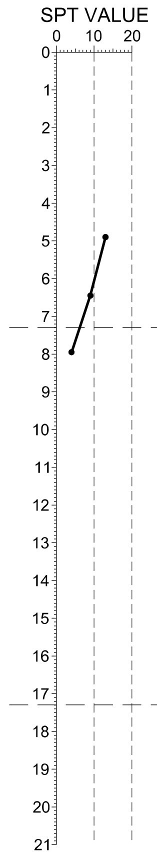
NOTES

1) End of Hole at 21.7m.

2) Rock core samples taken between 11.25-11.69m, 12.13-12.3m and 17.11-17.35m.

BH 10

1 : 100



Collar elevation: 7,293

Depths (m): 0,00; 0,70; 1,50; 1,95; 2,50; 4,90; 7,17; 7,95; 8,45; 9,45; 10,00; 10,30; 10,45; 10,66; 10,85; 12,15; 20,45

Core sample: 19,5m - 19,67m

- Slightly moist, greyish brown to brown, apparently very loose, coarse grained, silty clayey GRAVEL. Fill.
- Slightly moist, dark brown to brown, apparently firm, gravelly silty, CLAY. Fill.
- Slightly moist, dark brown to black, mottled reddish brown, firm to stiff, silty sandy CLAY. Fill.
- Slightly moist to moist, brown, mottled reddish brown, apparently firm to stiff, intact, sandy silty CLAY containing builders rubble. Fill.
- Slightly moist, dark brown, speckled orangey brown and black, firm to stiff, intact, silty CLAY. Transported Material.
- Slightly moist, dark brown, speckled orangey brown, firm to stiff, intact, silty CLAY. Transported Material.
- Slightly moist, light brown, speckled greyish white, very loose, coarse to very corage grained, silty SAND - river sand. Alluvium.
- Wet, dark brown, speckled greyish white, apparently very loose, medium to coarse grained, clayey silty SAND. Alluvium.
- Moist, dark greyish brown to black, apparently firm to stiff, intact, sandy silty CLAY. Alluvium.
- Shelby.
- Moist, grey, speckled and mottled orangey brown, apparently, firm, intact, silty CLAY. Alluvium.
- Slightly moist, orangey brown, mottled grey, apparently medium dense, medium to coarse grained, clayey silty SAND. Alluvium.
- Moist, grey, speckled and mottled orangey brown, apparently, firm, intact, silty CLAY. Alluvium.
- Slightly moist, orangey brown, mottled grey, apparently medium dense, medium to coarse grained, clayey silty SAND. Alluvium.
- Moist, grey to orangey brown and yellowish brown, apparently stiff, silty gravelly CLAY. Gravel components comprising tillite. Residual Tillite.
- Grey to dark grey and orangey brown, speckled brown and black, highly to completely weathered, highly fractured, very soft to soft rock strength, TILLITE. Dwyka Formation.

End of Borehole

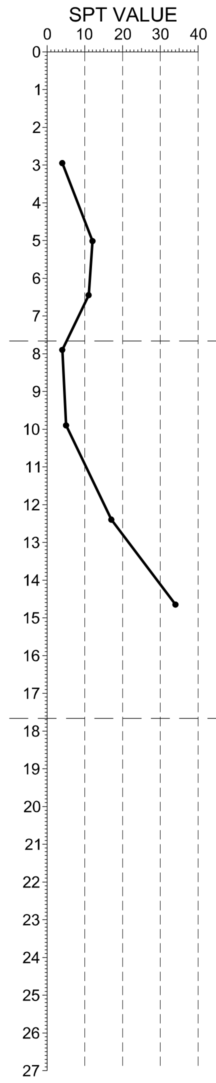
NOTES

1) End of hole at 20.45m.

2) Rock core sample taken between 19.5-19.67m.

BH 11

1 : 100



Collar elevation: 7,662

Depths (m): 0,00; 2,10; 2,95; 3,50; 4,50; 7,45; 8,95; 9,45; 9,90; 10,45; 12,40; 13,30; 15,15; 17,45; 19,50; 26,00

Core samples: 21,69m - 21,90m; 25,1m - 25,56m

- Slightly moist, light grey and dark grey, apparently, very loose to loose, intact, intact, silty GRAVEL. Gravel components comprising builders rubble and crushed stone. Fill.
- Slightly moist, light reddish brown, stained light grey, soft, intact, silty sandy CLAY. Alluvium.
- Shelby.
- Slightly moist, dark greyish brown to reddish brown, apparently soft, intact, gravelly silty CLAY. Alluvium.
- Slightly moist, reddish brown, stained light and dark greyish brown, firm to stiff, intact, silty CLAY. Alluvium.
- Wet, dark greyish brown, very loose to loose, intact, SAND. Alluvium.
- Shelby
- Slightly moist to wet, dark greyish brown to greyish brown, soft to firm, intact, silty sandy CLAY. Alluvium.
- Slightly moist to moist, dark greyish brown, apparently firm, intact, silty CLAY - Organic. Transported Material.
- Slightly moist, orangey brown, mottled
- Slightly moist to moist, dark greyish brown, apparently firm, intact, silty CLAY - Organic. Transported Material.
- Slightly moist to wet, light yellowish brown, speckled dark brown, mottled orangey brown, very stiff, intact, gravelly silty CLAY. Residual Tillite.
- Yellowish brown, mottled orangey brown and white, highly to completely weathered, closely to medium fractured, very soft to soft rock strength, TILLITE. Dwyka Formation.
- Light yellowish brown, speckled white, mottled light grey, moderately weathered, medium fractured, medium hard rock strength, TILLITE with numerous quarzt veins. Dwyka Formation.
- Yellowish grey, motteld, streaked and blotched reddish brown and light grey, moderately to slightly weathered, medium fractured, medium hard rock strength, TILLITE. Dwyka Formation.

End of Borehole

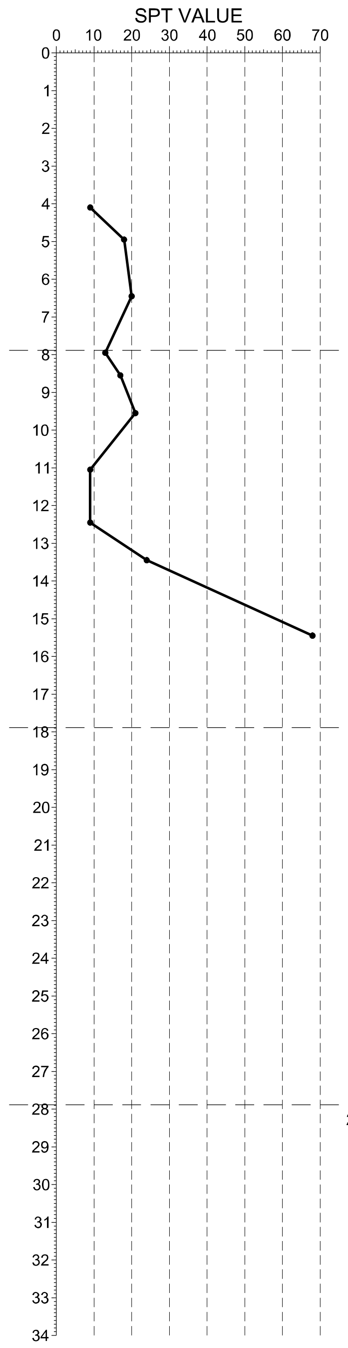
NOTES

1) End of Hole at 26.0m.

2) Rock core samples taken between 21.69-21.90m and 25.1-25.56m.

BH 12

1 : 100



Collar elevation: 7,884

Depths (m): 0,00; 0,77; 2,55; 3,09; 3,39; 4,50; 4,95; 5,26; 7,50; 7,95; 8,10; 9,90; 10,58; 11,03; 11,77; 12,00; 12,45; 13,95; 14,80; 15,00; 15,14; 15,95; 16,35; 16,74; 18,32; 22,72; 28,17; 33,45

Core samples: 19,92m - 19,1m; 20,5m - 20,85m; 28,17m - 28,37m

- Slightly moist, dark greyish brown, apparently loose, sandy clayey GRAVEL containing refuse. Fill.
- Slightly moist, brown, mottled reddish brown, apparently soft, intact, sandy garvelly CLAY containing refuse. Fill.
- Slightly moist, brown, mottled and speckled reddish brown, apparently firm to stiff, intact, sandy silty CLAY. Fill.
- Shelby.
- Slightly moist, dark brown to brown, mottled orangey brown, firm to stiff, sandy gravelly CLAY containing aggregate. Fill.
- Slightly moist, brown, speckled orangey brown and black, stiff to very stiff, silty sandy CLAY. Transported Material.
- Shelby.
- Slightly moist, dark greyish brown to brown, mottled orangey brown, stiff to very stiff, sandy silty CLAY. Transported Material.
- Slightly moist, light brown, speckled light grey to white, medium dense, coarse grained, SAND - river sand. Alluvium.
- Slightly moist, brown, mottled dark grey to black and orangey brown, apparently firm to stiff, silty sandy CLAY. Alluvium.
- Slightly moist, greyish brown to black, firm to stiff, intact, silty CLAY. Alluvium.
- Slightly moist, light brown, speckled light grey to white, medium dense, coarse grained, SAND - river sand. Alluvium.
- Slightly moist, greyish brown to black, firm to stiff, intact, silty CLAY. Alluvium.
- Slightly moist dark to light greyish, streaked yellowish orange, apparently firm to stiff, intact, silty CLAY. Transported Material.
- Slightly moist, orangey brown, apparently firm to stiff, silty CLAY. Transported Material.
- Dry to slightly moist, dark orangey brown, mottled light grey,intact, silty sandy CLAY. Transported Material.
- Slightly moist dark to light greyish, streaked yellowish orange, mottled and blotched orangey brown, apparently firm to stiff, intact, silty CLAY. Transported Material.
- Slightly moist, orangey brown, mottled and blotched brown and light grey, speckled orange, apparently soft to firm, silty CLAY. Transported Material.
- Slightly moist, greyish brown to brown, apparently firm to stiff, silty CLAY. Transported Material.
- Slightly moist, orangey brown, mottled and blotched brown and light grey, speckled orange, apparently soft to firm, silty CLAY. Transported Material.
- Slightly moist, greyish brown to brown, apparently firm to stiff, silty CLAY. Transported Material.
- Slightly moist, brown, mottled light grey, apparently very stiff, intact, sandy silty CLAY. Transported Material.
- Slightly moist, orangey brown, mottled and blotched brown and light grey, speckled orange, apparently soft to firm, silty CLAY. Transported Material.
- Light orangey brown, mottled light grey, speckled brown, completely to highly weathered, very soft rock strength, TILLITE. Dwyka Formation.
- Light greyish brown, mottled orangey brown, streaked brown, highly to completely weathered, medium fractured, medium hard rock strength, TILLITE. Dwyka Formation.
- Light orangey brown, mottled light grey to olive green, highly weathered, moderately to highly fractured, soft to medium hard rock strength, TILLITE containing highly fractured zones in places. Dwyka Formation.
- Light greyish blue mottled orange brown, speckled black, moderately to slightly weathered, medium fractured, medium hard rock strength, TILLITE. Dwyka Formation.

End of Borehole

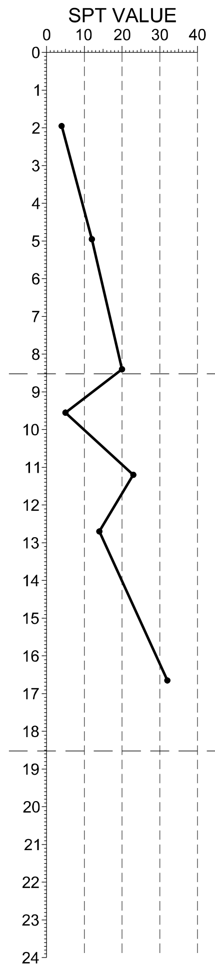
NOTES

1) End of hole at 33.45m.

2) Rock core sample taken between 19.72-19.1m, 20.5-20.85m and 28.17-28.37m

BH 13

1 : 100



Collar elevation: 8,518

Depths (m): 0,00; 0,90; 1,50; 6,25; 7,95; 9,37; 9,55; 10,72; 11,17; 12,22; 12,67; 13,40; 14,17; 15,50; 16,00; 16,79; 17,83; 23,62

Core samples: 17,99m - 18,14m; 20,02m - 20,24m

- Slightly moist, dark greyish brown to black, apparently very loose, medium to coarse grained, gravelly silty SAND containing rock fragments. Fill.
- Slightly moist, greyish brown, apparently soft to firm, silty sandy CLAY containing builders rubble. Fill.
- Slightly moist, dark brown, occasionally speckled orangey brown, soft to firm, intact, sandy silty CLAY. Transported Material.
- Slightly moist, brown to dark brown, speckled orangey brown, soft to firm, silty sandy CLAY. Transported Material.
- Slightly moist, light greyish brown to brown, speckled grey to white, apparently very loose, coarse to very coarse grained, silty SAND - river sand. Alluvium.
- Slightly moist, dark greyish brown to black, brown, soft, silty CLAY. Alluvium.
- Slightly moist, light greyish brown to brown, speckled grey to white, apparently very loose, coarse to very coarse grained, silty SAND - river sand. Alluvium.
- Slightly moist, dak greyish brown to black, firm to stiff, silty CLAY. Alluvium.
- Moist, dark greyish brown, mottled orangey brown, medium dense, medium to coarse grained, clayey silty SAND. Alluvium.
- Slightly moist to moist, greyish brown to orangey brown, mottled black, firm to stiff, sandy CLAY. Alluvium.
- Moist, dark brown, occasionally mottled orangey brown, apparently soft, intact, sandy silty CLAY. Alluvium.
- Moist, dark greyish brown to black, firm to stiff, intact, silty CLAY. Alluvium.
- Moist, dark grey, stained orangey brown, fine to medium grained, clayey silty SAND. Alluvium.
- Shelby.
- Moist, dark grey to black, mottled orangey brown, stained black, soft to firm, sandy silty CLAY. Alluvium.
- Orangey brown to reddish brown, blotched grey to olive green, speckled light grey, highly weathered, highly to moderately fractured, soft to medium hard rock strength, TILLITE comprisong quartz veins. Dwyka Formation.
- Light orangey brown to yellowish olive green, blotched, speckled and mottled light grey, highly to moderately weathered, closely to medium fractured, medium hard rock strength, TILLITE. Dwyka Formation.

End of Borehole

NOTES

1) End of hole at 23.62m.

2) Rock core sample taken between 17.99--18.14m, 20.03--20.24m

SCALE BAR 1:100 (0 10 20 30 40 50)

REV	DESCRIPTION	DATE	REV BY	CHKD
A	ISSUED FOR APPROVAL	03/08/2021	LAV	HdW

REVISIONS

DRG. No.	DRAWING TITLE

REFERENCE DRAWINGS

RCE Consultants
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Irene
0062
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fax : +27 (12) 450 0060

APPROVED BY DESIGN ENGINEER: MJ la GRANGE
SIGNATURE:
DATE: 03/08/2021 Prof. Reg. No: 20160548

APPROVED BY CHECKING ENGINEER: H de WET
SIGNATURE:
DATE: 03/08/2021 Prof. Reg. No: 720570

DRAWN BY: LA VENTER DATE: 03/08/2021

CONSULTANT/SUB CONSULTANT: NAIDU CONSULTING

PROJECT: GO! durban

CLIENT: ETHEKWINI METROPOLITAN MUNICIPALITY

PROJECT TITLE: ETHEKWINI TRANSPORT AUTHORITY
BUS RAPID TRANSPORT NETWORK (BRT) PHASE 1: ROUTE C1A

DRAWING DESCRIPTION: SECTION 3 - INANDA ROAD
BOREHOLE LOGS - BRIDGE 3 : PRASA

DISCIPLINE: T
PHASE: T

AS BUILT PLAN (Full signature)
CLIENT DATE
ENGINEER DATE

SCALE: 1:100
SHEET: 1 OF 1
CONTRACT No.
PROJECT No.: 1300042
DRAWING No.: 1300042-T-4704
REV: A

X:\RCE PROJECTS\RCE 609 - Realignment of Inanda Arterial\Drawings\01 - Issued for Approval 2021-05-21\07_Geotechnical\1300042-T-4704 - Borehole Logs - Bridge 3.dgn : Folder Path
lourensv : User