

JK Geotechnics



295935

BH101

START

CORING

AT

4.96m

4

5

CORE LOSS 5.27-5.62

6

7

8

9

10

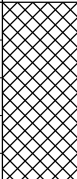
END AT 10.58m

10.80m

1 / 2

Location: SOUTH CIRCUIT, ORAN PARK, NSW

Logged/Checked By: K.S./P.S.

Groundwater Record	COMPLETION OF AUGERING	SAMPLES				Field Tests	RL (m AHD)	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel Density	Hand Penetrometer Readings (kPa)	Remarks				
		ES	U50	DB	DS														
DRY ON	COMPLETION OF AUGERING						94	1			FILL: Silty clay, medium plasticity, orange brown mottled grey.	MC<PL	H		GRASS COVER				
																N = 13 3,6,7	>600 >600 >600		
																N = 15 4,6,9	280 280 320		
																N = 9 3,4,5	400 440 500		
																N = 29 16,13,16	>600 >600 >600		
																VERY LOW TO LOW 'TC' BIT RESISTANCE			
																REFER TO CORED BOREHOLE LOG	DW	VL - L	

CORED BOREHOLE LOG

Client: WOOLACOTTS CONSULTING ENGINEERS
Project: PROPOSED ORAN PARK HIGH SCHOOL
Location: SOUTH CIRCUIT, ORAN PARK, NSW

Job No.: 29593V **Core Size:** NMLC **R.L. Surface:** ~95.0 m
Date: 16/1/17 **Inclination:** VERTICAL **Datum:** AHD
Plant Type: JK308 **Bearing:** N/A **Logged/Checked By:** K.S./P.S.

Water Loss/Level	Barrel Lift	RL (m AHD)	Depth (m)	Graphic Log	CORE DESCRIPTION Rock Type, grain characteristics, colour, structure, minor components.	Weathering	Strength	POINT LOAD STRENGTH INDEX $I_p(50)$	DEFECT DETAILS	
									DEFECT SPACING (mm)	DESCRIPTION Type, inclination, thickness, planarity, roughness, coating.
									500 300 100 50 30 10	Specific General
					START CORING AT 6.44m					
			88	7	SHALE: grey and brown.	DW	L - M			(6.68m) Be, 5°, P, S (6.72m) XWS, 0°, 18 mm.t (6.80m) XWS, 0°, 28 mm.t (6.92m) Be, 0°, P, S (7.29m) Be, 0°, P, S (7.59m) J, 30°, P, S, IS (7.70m) J, 70°, P, S, IS (7.83m) XWS, 0°, 6 mm.t (8.67m) XWS, 0°, 3 mm.t (8.70m) XWS, 0°, 4 mm.t (8.75m) XWS, 0°, 34 mm.t (8.82m) FRAGMENTED ZONE, 0°, 25 mm.t (8.88m) XWS, 0°, 40 mm.t (8.93m) XWS, 0°, 15 mm.t (9.12m) Be, 0°, P, S (9.14m) J, 80°, P, S (9.17m) Be, 0°, P, S
			87	8	INTERBEDDED SHALE AND SANDSTONE		M - H			
					SANDSTONE: fine grained, grey.		H			
					SHALE: dark grey.		VL - L			
					INTERBEDDED SHALE AND SANDSTONE		H			
			86	9						
						XW	EL			
					END OF BOREHOLE AT 9.50 m					
			85	10						
			84	11						
			83	12						

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295935 B41102 START CORING AT 6.44m

6

7

8

9

EDH AT 9.50m

OLE



Borehole No.
103
1 / 2

BOREHOLE LOG

Client: WOOLACOTTS CONSULTING ENGINEERS
Project: PROPOSED ORAN PARK HIGH SCHOOL
Location: SOUTH CIRCUIT, ORAN PARK, NSW

Job No.: 29593V **Method:** SPIRAL AUGER **R.L. Surface:** ~95.5 m
Date: 18/1/17 **Datum:** AHD
Plant Type: JK308 **Logged/Checked By:** K.S./P.S.

Groundwater Record	SAMPLES				Field Tests	RL (m AHD)	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel Density	Hand Penetrometer Readings (kPa)	Remarks
	ES	U50	DB	DS										
DRY ON COMPLETION OF AUGERING										FILL: Silty clay, low to medium plasticity, brown mottled orange brown and grey, with fine to medium grained igneous gravel and roots.	MC<PL			GRASS COVER
					N = 14 3,6,8		1							
					N = 19 6,8,11		2		CL-CH	SILTY CLAY: medium to high plasticity, red brown mottled orange brown.	MC<PL	H	>600 >600	
					N = 27 10,13,14		3			as above, but grey mottled red brown.			>600 >600 >600	
							4			SHALE: brown and grey, with EL strength bands.	DW	VL		VERY LOW 'TC' BIT RESISTANCE
							5							
							6							
							89					L		LOW RESISTANCE
										REFER TO CORED BOREHOLE LOG				

CORED BOREHOLE LOG

Client: WOOLACOTTS CONSULTING ENGINEERS
Project: PROPOSED ORAN PARK HIGH SCHOOL
Location: SOUTH CIRCUIT, ORAN PARK, NSW

Job No.: 29593V **Core Size:** NMLC **R.L. Surface:** ~95.5 m
Date: 18/1/17 **Inclination:** VERTICAL **Datum:** AHD
Plant Type: JK308 **Bearing:** N/A **Logged/Checked By:** K.S./P.S.

Water Loss/Level	Barrel Lift	RL (m AHD)	Depth (m)	Graphic Log	CORE DESCRIPTION Rock Type, grain characteristics, colour, structure, minor components.	Weathering	Strength	POINT LOAD STRENGTH INDEX $I_p(50)$	DEFECT DETAILS	
									DEFECT SPACING (mm)	DESCRIPTION Type, inclination, thickness, planarity, roughness, coating.
								EL-0.03 VL-0.1 L-0.3 M-1 H-3 VH-10 EH	500 300 100 50 30 10	Specific General
		89			START CORING AT 6.78m					
100% RETURN			7		SHALE: brown and dark grey.	DW	L - M			(6.92m) Be, 0°, P, R (6.93m) XWS, 0°, 3 mm.t (7.06m) XWS, 0°, 5 mm.t (7.09m) XWS, 0°, 3 mm.t (7.15m) XWS, 0°, 3 mm.t (7.20m) XWS, 0°, 15 mm.t
			8		INTERBEDDED SHALE AND SANDSTONE: fine grained, grey and light grey.		M			(7.50m) XWS, 0°, 55 mm.t (7.58m) XWS, 0°, 15 mm.t (7.66m) XWS, 0°, 17 mm.t (7.79m) HEALED J, 70°, IS (7.90m) J, 70°, P, S, IS
			8							(8.31m) XWS, 0°, 3 mm.t (8.38m) XWS, 0°, 11 mm.t (8.49m) J, 70°, P, S (8.55m) XWS, 0°, 140 mm.t
			9							(9.10m) XWS, 0°, 9 mm.t (9.13m) XWS, 0°, 16 mm.t (9.17m) XWS, 0°, 6 mm.t (9.29m) XWS, 0°, 8 mm.t (9.39m) XWS, 5°, 10 mm.t (9.45m) XWS, 5°, 7 mm.t
			86			SW	H			(9.76m) Be, 0°, P, S
			10		END OF BOREHOLE AT 9.84 m					
			85							
			11							
			84							
			12							
			83							

JK_LIB_CURRENT - V8.00.GLB Log J & K CORED BOREHOLE - MASTER 29593V ORAN PARK.GPJ <<DrawingFile>> 02/02/2017 17:34 Produced by gINT Professional. Developed by Dalgal

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295935 BH103 START CORING AT 6.78m

6

7

8

9

EDH AT 9.84m

PLE

BOREHOLE LOG

Client: WOOLACOTTS CONSULTING ENGINEERS

Project: PROPOSED ORAN PARK HIGH SCHOOL

Location: SOUTH CIRCUIT, ORAN PARK, NSW

Job No.: 29593V

Method: SPIRAL AUGER

R.L. Surface: ~92.7 m

Date: 18/1/17

Datum: AHD

Plant Type: JK308

Logged/Checked By: K.S./P.S.

Groundwater Record	SAMPLES				Field Tests	RL (m AHD)	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel Density	Hand Penetrometer Readings (kPa)	Remarks
	ES	U50	DB	DS										
DRY ON COMPLETION OF AUGERING										FILL: Silty clay, medium plasticity, brown mottled grey, with fine to medium grained sandstone and igneous gravel.	MC<PL			GRASS COVER
					N > 14 10,6,8/ 100mm REFUSAL	92	1							
					N = 18 8,10,8	91	2							
						90	3		CL-CH	SILTY CLAY: medium to high plasticity, red brown and grey, with fine to medium grained ironstone gravel.	MC<PL	H	>600 >600 >600	
					N = 18 4,7,11	89	4							
					N > 10 10,10/ 80mm REFUSAL	88	5			SHALE: grey.	XW	EL		
						87	6				DW	VL - L		VERY LOW TO LOW 'TC' BIT RESISTANCE
												L		LOW RESISTANCE
						86				REFER TO CORED BOREHOLE LOG				

JK_LIB_CURRENT - V8.00.GLB Log JK & K AUGERHOLE - MASTER 29593V ORAN PARK.GPJ <<DrawingFile>> 02/02/2017 17:34 Produced by gINT Professional. Developed by Datagel

CORED BOREHOLE LOG

Client: WOOLACOTTS CONSULTING ENGINEERS
Project: PROPOSED ORAN PARK HIGH SCHOOL
Location: SOUTH CIRCUIT, ORAN PARK, NSW

Job No.: 29593V **Core Size:** NMLC **R.L. Surface:** ~92.7 m
Date: 18/1/17 **Inclination:** VERTICAL **Datum:** AHD
Plant Type: JK308 **Bearing:** N/A **Logged/Checked By:** K.S./P.S.

Water Loss/Level	Barrel Lift	RL (m AHD)	Depth (m)	Graphic Log	CORE DESCRIPTION Rock Type, grain characteristics, colour, structure, minor components.	Weathering	Strength	POINT LOAD STRENGTH INDEX $I_p(50)$	DEFECT DETAILS	
									DEFECT SPACING (mm)	DESCRIPTION Type, inclination, thickness, planarity, roughness, coating.
								EL-0.03 VL-0.1 L-0.3 M-1 H-3 VH-10 EH	500 300 100 50 30 10	Specific General
					START CORING AT 6.71m					
		86	7		SHALE: grey and brown.	DW	L			(6.76m) Be, 0°, P, S (6.78m) XWS, 0°, 6 mm.t (6.88m) XWS, 0°, 52 mm.t (6.95m) FRAGMENTED ZONE
			8		INTERBEDDED SHALE AND SANDSTONE	XW	EL			
		85								
			9			DW	M			(9.15m) J, 80°, P, S (9.20m) J, 90°, P, S (9.44m - 9.56m) FRAGMENTED ZONE
		84								
			10		END OF BOREHOLE AT 9.69 m					
		83								
			11							
		82								
			12							
		81								
		80								

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295935 BH104 START CORING AT 6.71m

6

7

8

9

EOH AT 9.69m

FILE



Test Pit No.

19

1 / 1

TEST PIT LOG

Client: WOOLACOTTS CONSULTING ENGINEERS

Project: PROPOSED ORAN PARK HIGH SCHOOL

Location: SOUTH CIRCUIT, ORAN PARK, NSW

Job No.: 29593V

Method: HAND TOOLS

R.L. Surface: ~99 m

Date: 5/8/16

Datum: AHD

Plant Type:

Logged/Checked By: T.C./F.V.

Groundwater Record	SAMPLES				Field Tests	RL (m AHD)	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel Density	Hand Penetrometer Readings (kPa)	Remarks
	ES	U50	DB	DS										
										FILL: Silty clay, low plasticity, orange brown, grey and red brown, with fine to coarse grained shale gravel, shale cobbles, root fibres and fine grained sand.	MC~PL			SOIL COVER STOCKPILE
						98.5	0.5			END OF TEST PIT AT 0.40 m				
						98.0	1.0							
						97.5	1.5							
						97.0	2.0							
						96.5	2.5							
						96.0	3.0							

1 / 1

Client: WOOLACOTTS CONSULTING ENGINEERS Project: PROPOSED ORAN PARK HIGH SCHOOL Location: SOUTH CIRCUIT, ORAN PARK, NSW														
Job No.: 29593V Method: HAND TOOLS R.L. Surface: ~98.5 m Date: 5/8/16 Datum: AHD Plant Type: Logged/Checked By: T.C./F.V.														
Groundwater Record	SAMPLES				Field Tests	RL (m AHD)	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel Density	Hand Penetrometer Readings (kPa)	Remarks
	ES	U50	DB	DS										
DRY ON COMPLETION										FILL: Silty sandy clay, medium plasticity, dark brown and red brown, with root fibres, organic material and medium to coarse grained shale gravel.				GRASS COVER
														STOCKPILE
						98.0	0.5			END OF TEST PIT AT 0.50 m				END OF TEST PIT AT BASE OF STOCKPILE
						97.5	1.0							
						97.0	1.5							
						96.5	2.0							
					96.0	2.5								
					95.5	3.0								



Test Pit No.

21

1 / 1

TEST PIT LOG

Client: WOOLACOTTS CONSULTING ENGINEERS

Project: PROPOSED ORAN PARK HIGH SCHOOL

Location: SOUTH CIRCUIT, ORAN PARK, NSW

Job No.: 29593V

Method: HAND TOOLS

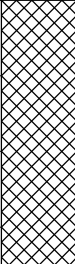
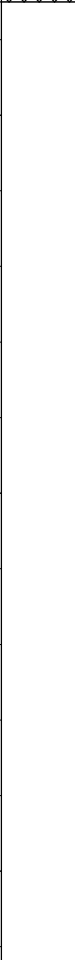
R.L. Surface: ~98.2 m

Date: 5/8/16

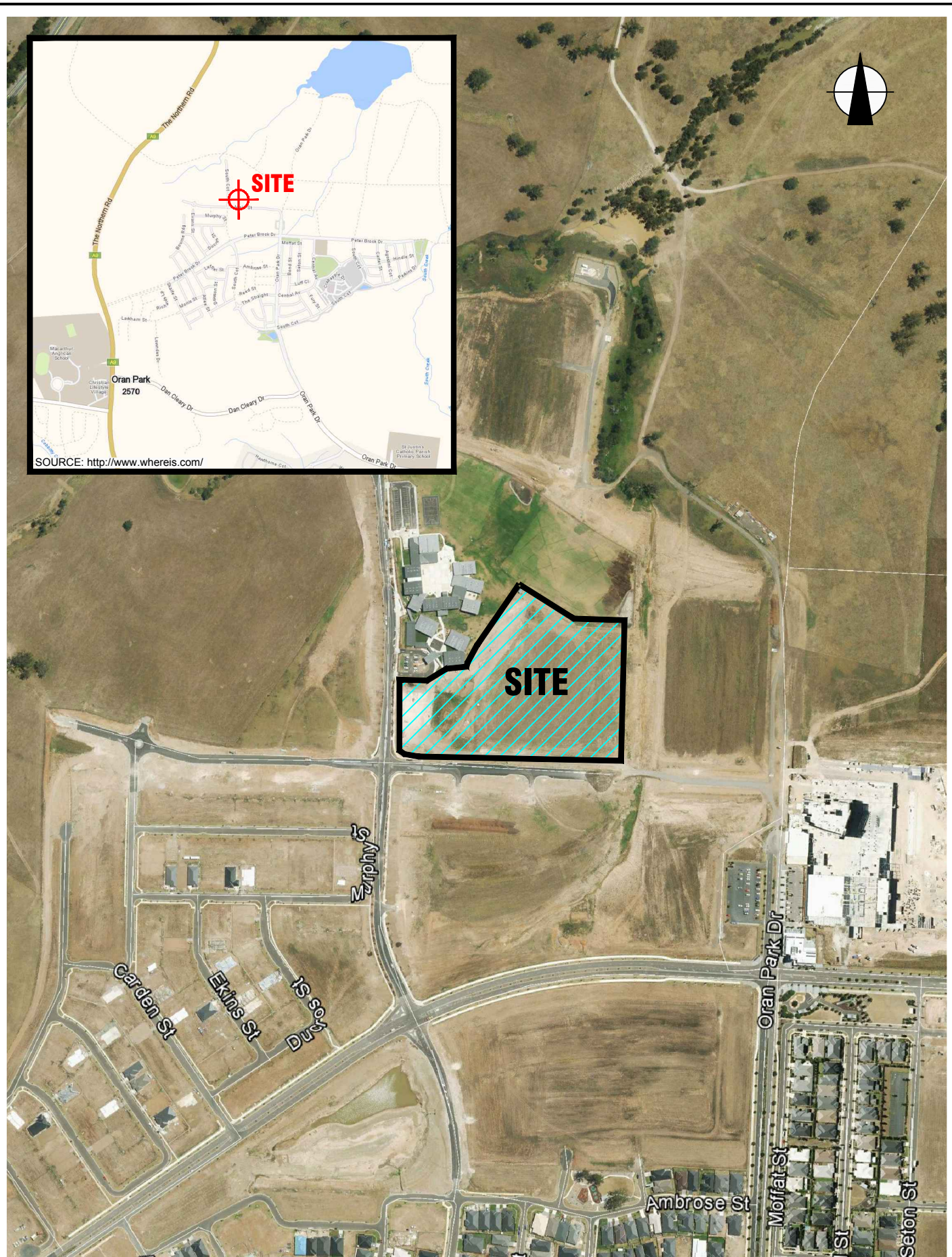
Datum: AHD

Plant Type:

Logged/Checked By: T.C./F.V.

Groundwater Record	SAMPLES				Field Tests	RL (m AHD)	Depth (m)	Graphic Log	Unified Classification	DESCRIPTION	Moisture Condition/ Weathering	Strength/ Rel Density	Hand Penetrometer Readings (kPa)	Remarks
	ES	U50	DB	DS										
	DRY ON COMPLETION													
						98.0			FILL: Silty sandy clay, medium plasticity, orange brown and red brown, with coarse grained shale gravel, shale cobbles with root fibres.					GRASS COVER STOCKPILE
						0.5			FILL: Sandy clay topsoil, low plasticity, dark grey and dark brown, with root fibres.					
						97.5			END OF TEST PIT AT 0.70 m					END OF TEST PIT AT BASE OF STOCKPILE

PLOT DATE: 18/08/2016 5:09:27 PM DWG FILE: S:\6 GEOTECHNICAL\6F GEOTECHNICAL JOBS\29000\29593V ORAN PARK\CAD\29593V.DWG



AERIAL IMAGE SOURCE: GOOGLE EARTH PRO 7.1.5.1557
AERIAL IMAGE ©: 2015 GOOGLE INC.

Title:

SITE LOCATION PLAN

Project:

PROPOSED ORAN PARK HIGH SCHOOL
SOUTH CIRCUIT, ORAN PARK, NSW

Report No:

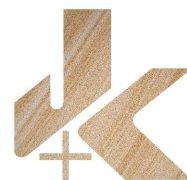
29593V

Figure No:

1

This plan should be read in conjunction with the JK Geotechnics report.

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PLOT DATE: 30/01/2017 1:02:28 PM DWG FILE: S:\6 GEOTECHNICAL\6F GEOTECHNICAL_JOBS\295933\295933V ORAN PARK\CAD295933.DWG



LEGEND

- BOREHOLE
- TEST PIT

0 10 20 30 40 50
SCALE 1:1000 @A3 METRES

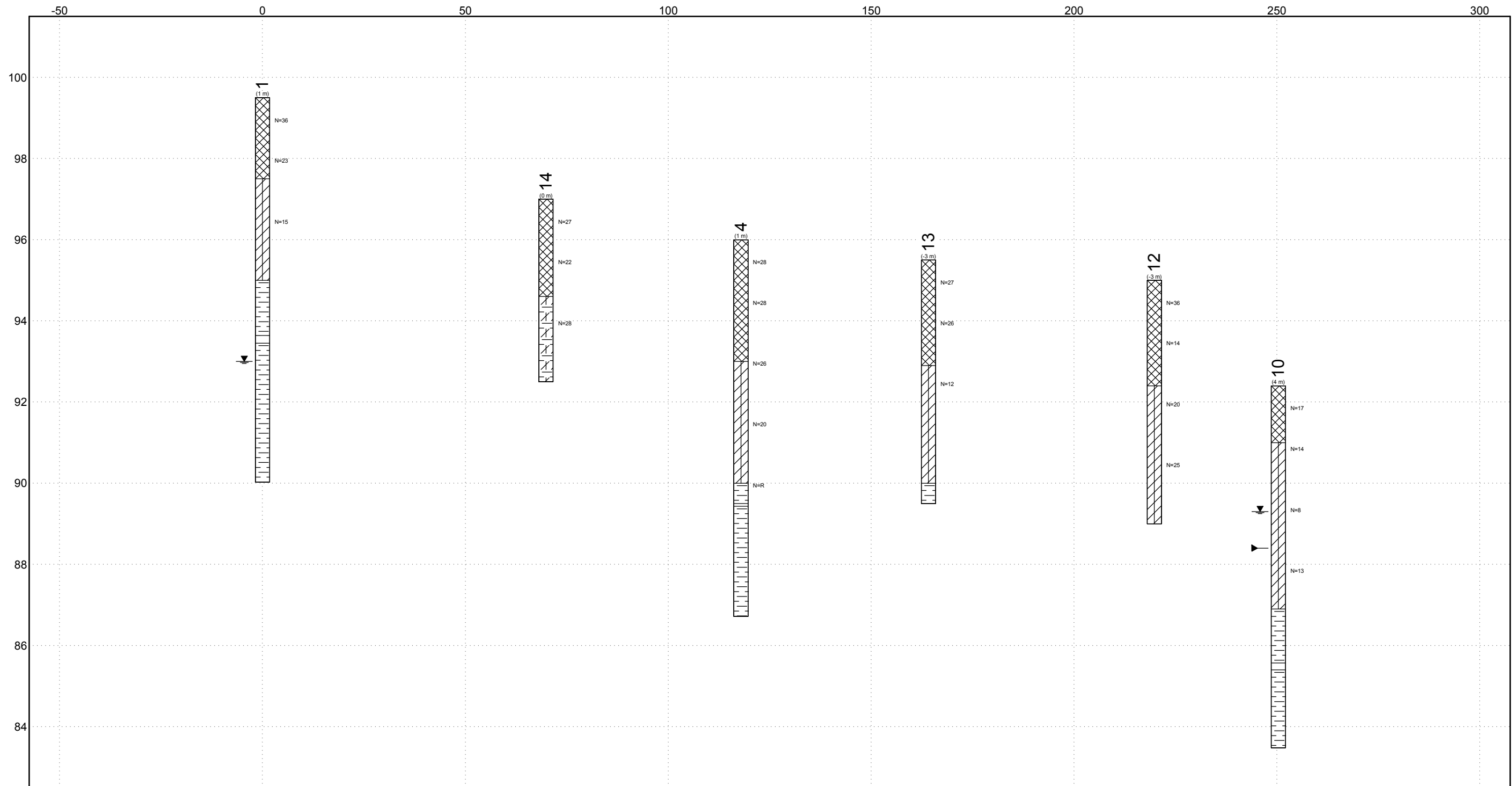
This plan should be read in conjunction with the JK Geotechnics report.

Title:		BOREHOLE LOCATION PLAN	
Project:		PROPOSED ORAN PARK HIGH SCHOOL SOUTH CIRCUIT, ORAN PARK, NSW	
Report No:		29593S	Figure No: 2
JK Geotechnics			



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ELEVATION (m AHD)



- CORE LOSS ▨ SHALE
- ▧ SILTY CLAY
- ▩ FILL

Scales(A3)

H 1:1000

V 1:100

Title:

SECTION A

Location:

SOUTH CIRCUIT, ORAN PARK, NSW

Report No:

29593V

Figure No:

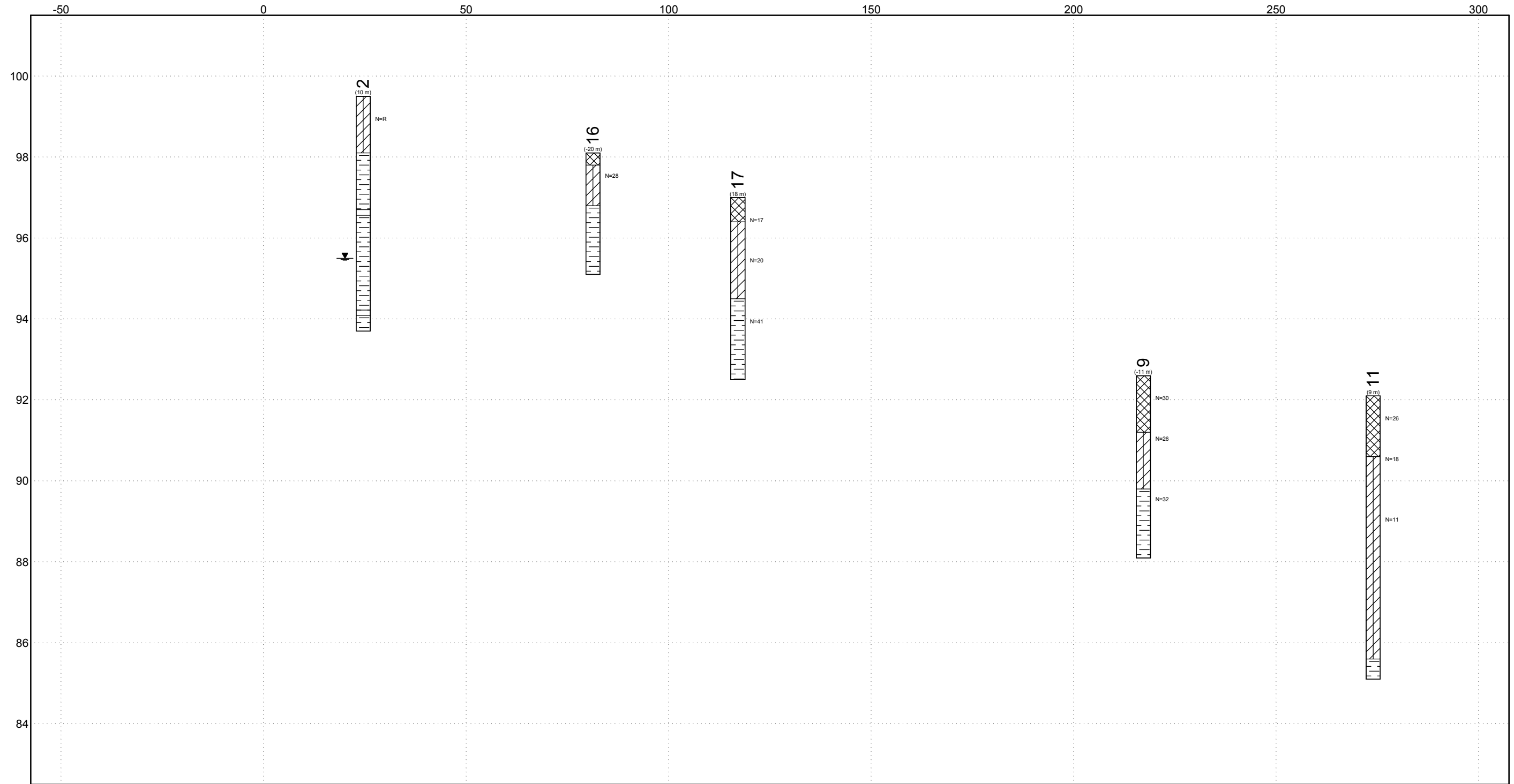
3

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JK_LIB_CURRENT - V8.00.GLB Fence FENCE A3L NO PLAN 28593V ORAN PARK.GPJ <<DrawingFile>> 02/09/2016 13:19 Produced by gINT Professional. Developed by Datgel

ELEVATION (m AHD)



- CORE LOSS
- SILTY CLAY
- FILL
- SHALE

Scales(A3)

H 1:1000

V 1:100

Title:

SECTION B

Location:

SOUTH CIRCUIT, ORAN PARK, NSW

Report No:

29593V

Figure No:

4

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