

Virginia Hemsley

To: Ian Toovey
Cc: davidw@evansbuilt.com.au; Rodney Carsburg
Subject: RE: Site Inspection 22.07
Attachments: 2021.05.14 - Cof - CBR.pdf; 2021.05.14 - Cof - QOM,EMC.pdf; VW004 Variation Charge Sheet .pdf; Proof Roll 28.07.21.pdf; Balmoral Unsuitable Volume

Hi Ian,

Please find attached Variation Charge Sheet for the undertaking of work associated with removal of unsuitable fill and replacement with imported fill (as the on-site material was unsuitable).

All work has been undertaken in accordance with Geotech Site Inspection reports and are inline with notes 4 and 5 on drawing CN.0.02.

The replacement fill material meets the requirements of note 4 on drawing CN.0.02. CBR and Material Test Reports attached.

Please also find attached survey volume as requested.

Regards,

Virginia Hemsley
Accounts Officer

'Earthmoving Excellence'

207 Elliot Road, Banyo QLD 4014

T: (07) 3267 8033 M:

virginia@carsburgearthmoving.com.au

www.carsburgearthmoving.com.au

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From: Ian Toovey <iant@evansbuilt.com.au>

Sent: Friday, 23 July 2021 10:02 AM



To: Rodney Carsburg <rodney@carsburgearthmoving.com.au>

Cc: David Wallace DavidW@evansbuilt.com.au; Virginia Hemsley

Subject: FW: Site Inspection 22.07

Hi Rodney please proceed with the removal of the unsuitable fill material from & replace with imported fill under the direction of your geotechnical engineer. In addition please provide the following information.

- Provide certification of proposed imported material in accordance with note 2 on drawing CN.0.02
- Provide survey confirmation for the export & import of materials
- Provide the extra over cost for the import of fill over & above the conditioning & re use of the existing fill material
- Anticipated delay to your program.

Any questions please do not hesitate to give me a call. Cheers



Ian Toovey | Project Manager

m | 0417 223 014 p | 07 5353 5050

e | iant@evansbuilt.com.au

w | www.evansbuilt.com.au

Evans Built Pty Ltd

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La Balsa, Suite 301

45 Brisbane Road Mooloolaba Qld 4557

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From: David Wallace <DavidW@evansbuilt.com.au>

Sent: Friday, 23 July 2021 7:25 AM

To: Ian Toovey <iant@evansbuilt.com.au>

Subject: FW: Site Inspection 22.07

Ian

As per attached from Carsburg

Regards,

David Wallace | Site Manager



M | 0435 360 093

E | davidw@evansbuilt.com.au

PO Box 1755 Buderim Q 4556

Suite 301, 45 Brisbane Rd Mooloolaba Q 4557

Evans Built Pty Ltd | ABN 61 120 743 099 | QBCC 1218054



www.evansbuilt.com.au

From: Rodney Carsburg <rodney@carsburgearthmoving.com.au>
Sent: Friday, 23 July 2021 6:56 AM
To: David Wallace <DavidW@evansbuilt.com.au>
Cc: Wade McGrath <WadeM@evansbuilt.com.au>
Subject: FW: Site Inspection 22.07

David,
My apology I had sent this to the wrong Wade yesterday once I had received it and did not have your email address on my phone.

Regards,

Rodney Carsburg
Director & Civil Contracts Manager

Earthmoving Excellence



207 Elliot Road, Banyo QLD 4014
T: (07) 3267 8033 M: 0417 779 245
rodney@carsburgearthmoving.com.au
www.carsburgearthmoving.com.au
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From: Broddie Krebs <broddie.krebs@constructionsciences.net>
Sent: Thursday, 22 July 2021 1:57 PM
To: Rodney Carsburg <rodney@carsburgearthmoving.com.au>
Subject: Site Inspection 22.07

Hi Rodney,

Please see attached, site inspection report for the material stockpile at Balmoral state high school.

Regards,

Broddie Krebs
Laboratory Supervisor
Construction Sciences Pty Ltd



Direct +61 7 3865 3212 Head Office +61 1300 165 769 Mobile +61 478 305 481
Address 2 Aldinga Street, Brendale, QLD 4500
Email broddie.krebs@constructionsciences.net Web www.constructionsciences.net

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Variation Charge Sheet



PROJECT	Balmoral SHS	DATE	9/08/2021
INITIATED BY	Rod	Instruction No.	As per email
AUTHORISED BY	Ian	CV No.	
CHARGED TO	Evensbuilt	IV NO	VW004
DESCRIPTION	Remove and replace unsuitable material in Bldg pad		

[illegible]

Balmoral SHS - Bill of Quantities - Rev 3				
	Item Description	Quantity	Unit	Unit Rate (Ex GST)
				Amount (Ex GST)
1	P&G			
1.1	Site Establishment & Dis-establishment		Lump Sum	N/A
1.2	Additional Site Establishment & Dis-establishment's -should it be sequenced as such		Lump Sum	\$2,100.00
1.3	Supply HSQE documentation / program / insurances and any other necessary documentation - does not necessarily include the use of 3rd party online HSQE system - unless agreed		Lump Sum	N/A
1.4	Topographical Survey at commencement & on completion		Lump Sum	N/A
	Survey Costs - use lower value if not using our Stormwater Pricing below!!			
1.5	Survey setout - excl S/W		Lump Sum	\$1,400.00
1.7	Survey Asbuilt - excl S/W - by Registered Surveyor		Lump Sum	N/A
1.9	Traffic control - excluded by builder		Lump Sum	N/A
1.10	Pothole for Existing Services - 3T & Spotter		hrly	\$195.00
	Sub Total			\$5,700.00
2	Environmental Control			
	New Build			
2.1	Silt Fence Erection	50	m	\$7.50
2.2	Temporary entrance shake down's - excl steel grids		No	\$2,100.00
2.3	e/o- incl steel grids for job duration		No	\$1,900.00
2.4	Sediment Protection to various Pits - during construction - existing		No	\$125.00
2.5	Sediment Protection to various Pits - during construction - proposed		No	\$125.00
	Car Park			
2.1	Silt Fence Erection	125	m	\$7.50
2.2	Temporary entrance shake down's - excl steel grids	1	No	\$2,100.00
2.3	e/o- incl steel grids for job duration		No	\$1,900.00
2.4	Sediment Protection to various Pits - during construction - existing		No	\$125.00
2.5	Sediment Protection to various Pits - during construction - proposed		No	\$125.00
2.6	Dirty Water Diversion Drain incl check dams - turfing by landscaper	100	m	\$15.00
	All			
2.7	Dust Suppression - earthwork / pavement rates inclusive of onsite water-cart			incl
2.8	Road Sweeping - in the event material tracked onto roads - otherwise POA for daily / weekly undertaking			incl
2.9	Wash-down Bay			POA
	Temporary / Permanent - Sediment Basin			n/a
	BioRetention Basin			n/a
	Sub Total			\$2,475.00
3	Demolition & Earthworks			
	Demolition			
3.1	Building Removal		LS	by demo contractor
3.2	Hardstands / Fencing / Stairs / Retaining Walls and man-made surfacing		LS	by demo contractor
3.3	Tree Removal incl Root Structure		LS	by demo contractor
3.4	Fauna Spotter		LS	by demo contractor
	Earthworks - Bldg Pad			
3.6	Remove 100mm topsoil / grass covering to waste - approx 2000m2	200	m3	\$35.00
3.7	Remove 100mm topsoil / grass covering to stockpile for re-use in Landscape Zones		m2	\$10.00
3.19	Final Trim & Proof Roll Subgrade - Bldg Pad -	920	m2	\$1.50
3.19	Final Trim & Proof Roll Subgrade -External Paving / Paths	470	m2	\$1.50
3.19	Final Trim & Proof Roll Subgrade -Landscaping	470	m2	\$1.50
3.20	extra-over Remove & Replace soft spots - utilise on-site materials - rate only		m3	\$55.00
3.21	extra-over Remove & Replace soft spots - import - cohesive soil / cleanfill - CBR3+ - rate only		m3	\$65.00
3.22	extra-over Remove & Replace soft spots - import - granular - CBR10/15+ - rate only		m3	\$80.00
3.26	Cut to Fill - Select best materials from Spoil - no allowance lime / cement stabilisation to cut to fill material	565	m3	\$23.00
3.13	extra over for non rippable rock with 24T Excavator - rate only		m3	\$90.00
3.29	Import to Fill, Spread & Compact - import - granular - Bldg Pad - CBR10+ AP75 as per EW note 4 dwng CNO 02	500	m3	\$56.00
3.29	Import to Fill, Spread & Compact - secondary Wedge to R/W - CBR10+ AP75 as per EW note 4 dwng CNO 02	420	m3	\$77.00
3.29	Import to Fill, Spread & Compact - secondary Wedge to R/W Ramp 2 - CBR10+ AP75 as per EW note 4 dwng CNO 02	150	m3	\$77.00
3.19	Final Trim Fill - Bldg Pad -	920	m2	\$1.50
3.19	Final Trim Fill -External Paving / Paths	470	m2	\$1.50
	Detention Tank - Benched Excavation - deeper than 1.5m (no allowance shoring)			
3.32	Cut to Waste - at existing GL		m3	n/a
3.33	Backfill after installation of Tanks	30	m3	\$75.00
3.35	Base Sand - 25mm	1	LS	\$600.00
3.36	Supply / Placement of Tanks - by builder			by builder
3.29	Import to Fill, Spread & Compact - import - CBR15 x 100mm - Bldg Pad & Surround	150	m3	\$60.00
3.19	Final Trim Fill - Bldg Pad -	1500	m2	\$1.50
	Spoil removal - other trades - loose body truck measure (loaded by others)		load	\$250.00
	Earthworks - Car Park			
3.6	Remove 100mm topsoil / grass covering to waste - approx 2000m2	200	m3	\$35.00

	Item Description	Quantity	Unit	Unit Rate (Ex GST)	Amount (Ex GST)
3.7	Remove 100mm topsoil / grass covering to stockpile for re-use in Landscape Zones		m2	\$10.00	rate only
3.12	Cut to Waste	400	m3	\$36.00	rate only
3.13	extra over for non rippable rock with 24T Excavator - rate only		m3	\$90.00	rate only
3.19	Final Trim & Proof Roll Subgrade	630	m2	\$3.00	rate only
3.20	extra-over Remove & Replace soft spots - utilise on-site materials - rate only		m3	\$55.00	rate only
3.21	extra-over Remove & Replace soft spots - import - cohesive soil / cleanfill - CBR3+ - rate only		m3	\$65.00	rate only
3.22	extra-over Remove & Replace soft spots - import - granular - CBR10/15+ - rate only		m3	\$80.00	rate only
	Earthworks - All				
	Geotechnical				
3.47	Geotech Supervision - Level 1 incl N/D testing - but excluding RPEQ certification	1	LS	\$3,000.00	\$3,000.00
	Sub Total				\$113,155.00
4	Stormwater				
	Drainage - trench, supply, bed, lay, cap, joint and backfill concrete RCRRJ pipe incl CCTV				
	Sub Total				\$0.00
	Sewer - By Plumber				
	Sewer - trench, supply, bed, lay, cap, joint and backfill hdpe pipe incl , bends, bulk heads, marker posts, surface boxes, pressure testing etc				
	Sub Total				\$0.00
	Water - By Plumber				
	Water - trench, supply, bed, lay, cap, joint and backfill hdpe pipe incl , bends, bulk heads, marker posts, surface boxes, pressure testing etc				
	Sub Total				\$0.00
	Site Services - excl by Electrical - Price available upon request				
	Services- trench, supply, bed, lay, cap, joint and backfill hdpe pipe incl , bends, bulk heads, marker posts, surface boxes, pressure testing etc				
	Sub Total				\$0.00
5	Pavements - Optional				
	Supply, lay, grade, compact and compaction test				
	Internal Only				
	Flexible Pavment				
5.1	CBR15 x		m3	\$65.00	rate only
5.2	CBR45 x		m3	\$70.00	rate only
5.3	e/o CBR45 x for kerb placement	8	m3	\$70.00	rate only
5.4	Trim CBR45 - pre kerb		m2	\$3.00	rate only
5.5	CBR80 x 175mm	111	m3	\$75.00	rate only
5.6	Trim CBR80 - pre primecoat	630	m2	\$5.00	rate only
5.7	Prime Coat	630	m2	\$3.00	rate only
5.8	30mm x AC	630	m2	\$18.50	rate only
	Rigid Pavment				
5.9	CBR45 x		m3	\$70.00	rate only
5.10	Trim CBR45 - pre mesh		m2	\$3.00	rate only
5.11	Concrete Supply & Placement				by concretor
	Concrete Paths				
5.12	CBR15 x		m3	\$80.00	rate only
5.13	Concrete Supply & Placement				by concretor
	Kerbing				
5.16	Nib Type - Machine Pour	101	m	\$50.00	rate only
5.17	Flush Kerb - Machine Pour		m	\$90.00	by concretor
5.17	Concrete Upstands		m	\$90.00	by concretor
5.19	Transition to existing kerb	2	ea	\$100.00	rate only
5.20	Subsoil drainage to kerbs (point of discharge by plumber if stormwater not part of scope)	150	m	\$35.00	rate only
	Road Marking				
5.21	White Lines - Single Coat - double rate for 2nd coat	130	m	\$2.00	rate only
5.24	Disabled Symbols		No	\$250.00	rate only
5.27	Chevron Markings		m2	\$35.00	rate only
5.31	Wheel Stops	22	No	\$135.00	rate only
5.32	Bollards		ea	\$750.00	rate only
	Signage				excl
	External Only				
	Vehicle Crossing				by concretor
	Sub Total				\$0.00
6	Detailed Excavations				
	Excavate for				
6.1	Lift Pit excavation including 1m working space -12m2 x 1.85m deep	23	m3	\$90.00	\$2,070.00
6.2	Free Draining Agg	11	m3	\$80.00	\$880.00
	Sub Total				\$2,950.00
7	Retaining Walls				
	Backfill to				
7.1	Bidum Cloth	260	m2	\$5.00	\$1,300.00
7.2	Agg Drains - (point of discharge by plumber if stormwater not part of scope)	85	m	\$6.00	\$510.00
7.3	Connection to existing GP / Field PIT	2	No	\$1,100.00	\$2,200.00
7.4	Free Draining Agg	60	m3	\$65.00	\$3,900.00
	Sub Total				\$7,910.00

TOTALCOST (excl GST) \$132,190.00

GST \$ 13,219.00

TOTALCOST (incl GST) \$ 145,409.00

Virginia Hemsley

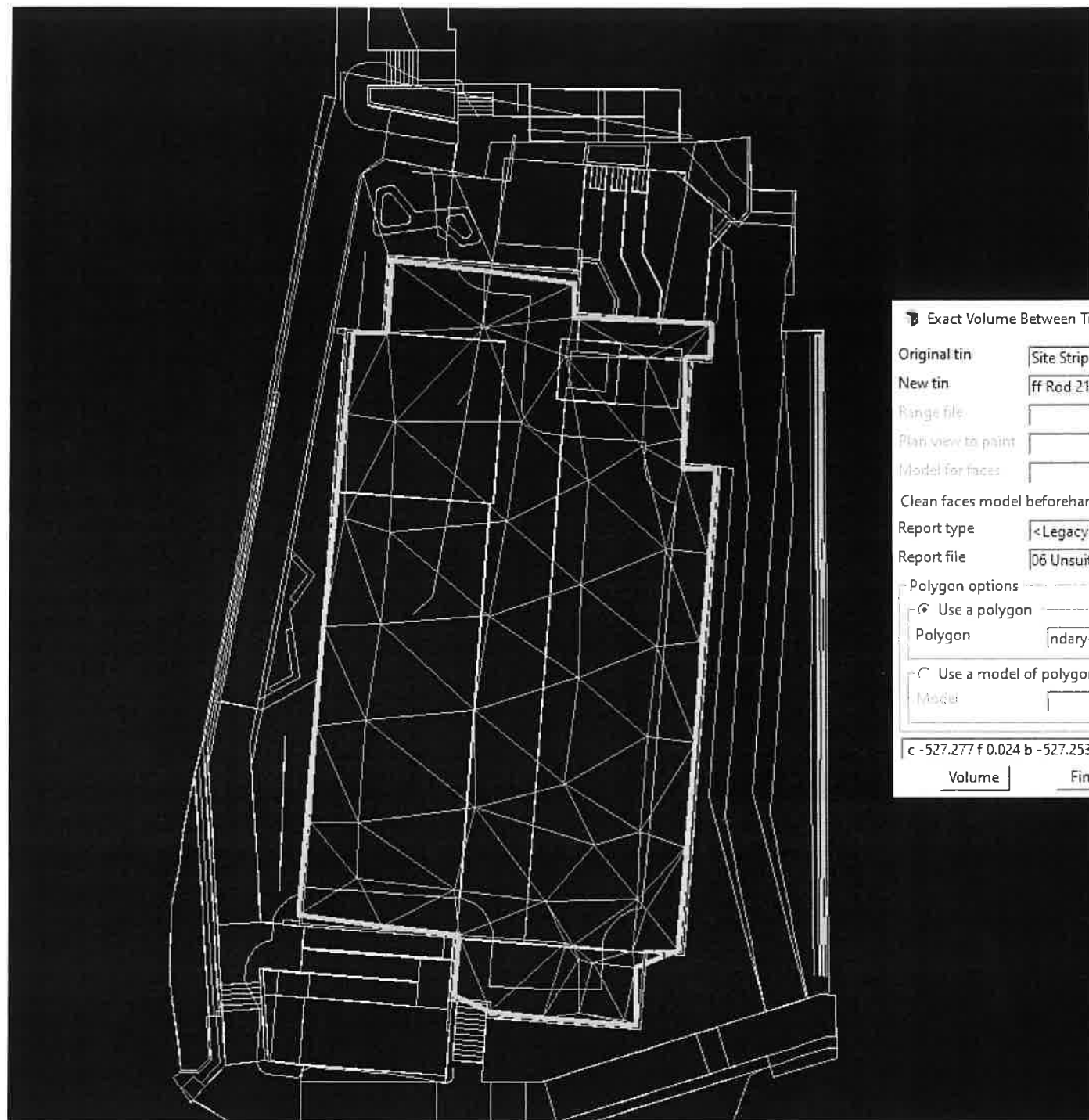
From: Nick Bardsley <nbardsley@visionsurveysqld.com.au>
Sent: Friday, 6 August 2021 6:51 AM
To: Rodney Carsburg
Subject: Balmoral Unsuitable Volume

Hi Rod,

Site Strip 100mm to your Unsuitable Pickup from 29/7/21

Total cut -527.277
Total fill 0.024
Total balance -527.253
ie excess of cut over fill 527.253m³

Polygon plan area = 802.499²



Let me know if this doesn't agree with your numbers.

Cheers
Nick Bardsley



Nick Bardsley / Senior Surveyor

☎ 0423 135 628

☎ 07 3638 0259

✉ nbardsley@visionsurveysqld.com.au

🖱 www.visionsurveysqld.com.au

📍 7B/191 Hedley Ave, Hendra, QLD 4011

AIRLIE BEACH TOWNSVILLE MACKAY ROCKHAMPTON SE QLD

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Client:	Carsburg Civil Pty Ltd	Test Request Number:	2624/T/25639
Project:	Site Works	Project Number:	2624/P/1157
Client Reference:	Balmoral State High School	Inspector:	Broddie Krebs
Owner:	-	Inspection Date:	21/07/2021
Constructor:	Carsburg Civil	Arrival Time:	09:00
Superintendent:	Dave	Departure Time:	10:30
Earthworks In Current Progress	Element:	Site Inspection	
	Result:	Inspection carried out to determine extent of uncontrolled fill on site. A number of test pits were excavated across the site. the depth of uncontrolled fill was determined to be approx 600-700mm, this aligns with the BH report from Soil Surveys.	

Reviewed By:	-	Corrective Action Required?	Yes	Re-Inspection Date:	22/07/2021
Corrective Action Details	The uncontrolled fill will have to be removed to expose the natural ground to conduct a proof roll before fill can be reinstated on the site under level 1 supervision.				

Client:	Carsburg Civil Pty Ltd	Test Request Number:	2624/T/25639
Project:	Site Works	Project Number:	2624/P/1157
Client Reference:	Balmoral State High School	Inspector:	Broddie Krebs
Owner:	-	Inspection Date:	21/07/2021
Constructor:	Carsburg Civil	Arrival Time:	09:00
Superintendent:	Dave	Departure Time:	10:30



Reviewed By:	-	Corrective Action Required?	Yes	Re-Inspection Date:	22/07/2021
Corrective Action Details	The uncontrolled fill will have to be removed to expose the natural ground to conduct a proof roll before fill can be reinstated on the site under level 1 supervision.				

Client:	Carsburg Civil Pty Ltd	Test Request Number:	2624/T/25639
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Client Reference:	Balmoral State High School	Inspector:	Broddie Krebs
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Constructor:	Carsburg Civil	Arrival Time:	09:00
Superintendent:	Dave	Departure Time:	10:30

Image Description:



Image Description:



Reviewed By:	-	Corrective Action Required?	Yes	Re-Inspection Date:	22/07/2021
Corrective Action Details	The uncontrolled fill will have to be removed to expose the natural ground to conduct a proof roll before fill can be reinstated on the site under level 1 supervision.				

Client:	Carsburg Civil Pty Ltd	Test Request Number:	2624/T/25639
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Client Reference:	Balmoral State High School	Inspector:	Broddie Krebs
Owner:	-	Inspection Date:	21/07/2021
Constructor:	Carsburg Civil	Arrival Time:	09:00
Superintendent:	Dave	Departure Time:	10:30

Image Description:


Reviewed By:	-	Corrective Action Required?	Yes	Re-Inspection Date:	22/07/2021
Corrective Action Details	The uncontrolled fill will have to be removed to expose the natural ground to conduct a proof roll before fill can be reinstated on the site under level 1 supervision.				

Client:	Carsburg Civil Pty Ltd	Test Request Number:	2624/T/25661
Project:	Site Works	Project Number:	2624/P/1157
Client Reference:	Balmoral State high School	Inspector:	Broddie Krebs
Owner:	-	Inspection Date:	22/07/2021
Constructor:	Carsburg Civil	Arrival Time:	09:00
Superintendent:	Rodney Carsburg	Departure Time:	10:00
Earthworks In Current Progress	Element:	Site Inspection	
	Result:	Inspection to determine suitability of on site material for reinstatement as fill. The stockpile inspected on site showed to have large volumes of topsoil, severely root-affected subsoils and peat. Other contaminants such as wood, metal, plastic, and building waste were also observed. As per AS 3798 section 4.3 (a), (f) The stockpiled material is unsuitable to be used in structural fill areas.	

Reviewed By:	-	Corrective Action Required?	-	Re-Inspection Date:	-
Corrective Action Details					

Client:	Carsburg Civil Pty Ltd	Test Request Number:	2624/T/25661
Project:	Site Works	Project Number:	2624/P/1157
Client Reference:	Balmoral State high School	Inspector:	Broddie Krebs
Owner:	-	Inspection Date:	22/07/2021
Constructor:	Carsburg Civil	Arrival Time:	09:00
Superintendent:	Rodney Carsburg	Departure Time:	10:00

Image Description:	
	

Image Description:	
	

Reviewed By: -	Corrective Action Required? -	Re-Inspection Date: -
Corrective Action Details		

Client:	Carsburg Civil Pty Ltd	Test Request Number:	2624/T/25661
Project:	Site Works	Project Number:	2624/P/1157
Client Reference:	Balmoral State high School	Inspector:	Broddie Krebs
Owner:	-	Inspection Date:	22/07/2021
Constructor:	Carsburg Civil	Arrival Time:	09:00
Superintendent:	Rodney Carsburg	Departure Time:	10:00

Image Description:	
	

Image Description:	
	

Reviewed By:	-	Corrective Action Required?	-	Re-Inspection Date:	-
Corrective Action Details					

Client:	Carsburg Civil Pty Ltd	Test Request Number:	2624/T/25661
Project:	Site Works	Project Number:	2624/P/1157
Client Reference:	Balmoral State high School	Inspector:	Broddie Krebs
Owner:	-	Inspection Date:	22/07/2021
Constructor:	Carsburg Civil	Arrival Time:	09:00
Superintendent:	Rodney Carsburg	Departure Time:	10:00

Image Description:	
	

Reviewed By: -	Corrective Action Required? -	Re-Inspection Date: -
Corrective Action Details		

Client:	Carsburg Civil Pty Ltd	Test Request Number:	2624/T/25735
Project:	Site Works	Project Number:	2624/P/1157
Client Reference:	Proof Roll Inspection	Inspector:	Brendan Hoveling
Owner:	-	Inspection Date:	28/07/2021
Constructor:	Carsburg Civil	Arrival Time:	13:00
Superintendent:	Rodney Carsburg	Departure Time:	14:00

Apparatus	Element:	Proof roller can be either: a)water tanker with tandem rear axle, internal baffles to minimise sloshing and a minimum 600 kPa tyre pressure. The water tank must contain at least 10,000 litres of water during use b) water tanker with single rear axle, internal baffles to minimise sloshing and a minimum of 600 kPa tyre pressure. The water tank must contain at least 7,000 litres of water during use, or c)other equipment with at least the same rear axle loading as the water tanker, may be used
	Result:	A water tanker with a single rear axle and at least 10000L of water was used.
Preparation	Element:	Layer is compacted in accordance with relevant construction specification. Surface level, homogenous, without depressions/protrusions and free of loose material
	Result:	The area was compacted prior to inspection, some loose material visible during inspection.
Rolling procedure	Element:	Test vehicle operated at speed of 3-10km/h. Rolling pattern to cover the full area under test. Successive passes offset laterally by 40 - 50%.
	Result:	Test vehicle operated at walking speed, successive passes were offset by 40-50% and testing covered the entire area
Surface deformation assessment	Element:	surface deformation under the test vehicle assessed as perceptible or not perceptible
	Result:	Surface area of building pad was classed as not perceptible after proof rolling inspection.
Reporting - Equipment used	Element:	Details of equipment used to include the type, model, gross mass, tyre pressures and registration / identification number
	Result:	A water tanker with a single rear axle and at least 10000L of water was used.
Reporting - Time of test	Element:	The time of proof rolling after final compaction, and whether the surface was wetted prior to proof rolling
	Result:	Surface was not wetted prior to proof rolling
Reporting - Surface deformation	Element:	Report the surface deformation as: a) perceptible or non-perceptible for specific locations, b) uniform or non-uniform over the lot.
	Result:	Surface deformation was deemed to be non-perceptible and the area uniform

Reviewed By:	Corrective Action Required? No	Re-Inspection Date: -
Corrective Action Details		

Client:	Carsburg Civil Pty Ltd	Test Request Number:	2624/T/25735
Project:	Site Works	Project Number:	2624/P/1157
Client Reference:	Proof Roll Inspection	Inspector:	Brendan Hoveling
Owner:	-	Inspection Date:	28/07/2021
Constructor:	Carsburg Civil	Arrival Time:	13:00
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Image Description:



Image Description:



Reviewed By: -	Corrective Action Required? No	Re-Inpsection Date: -
Corrective Action Details		

Client:	Carsburg Civil Pty Ltd	Test Request Number:	2624/T/25735
Project:	Site Works	Project Number:	2624/P/1157
Client Reference:	Proof Roll Inspection	Inspector:	Brendan Hoveling
Owner:	-	Inspection Date:	28/07/2021
Constructor:	Carsburg Civil	Arrival Time:	13:00
Superintendent:	Rodney Carsburg	Departure Time:	14:00

Image Description:

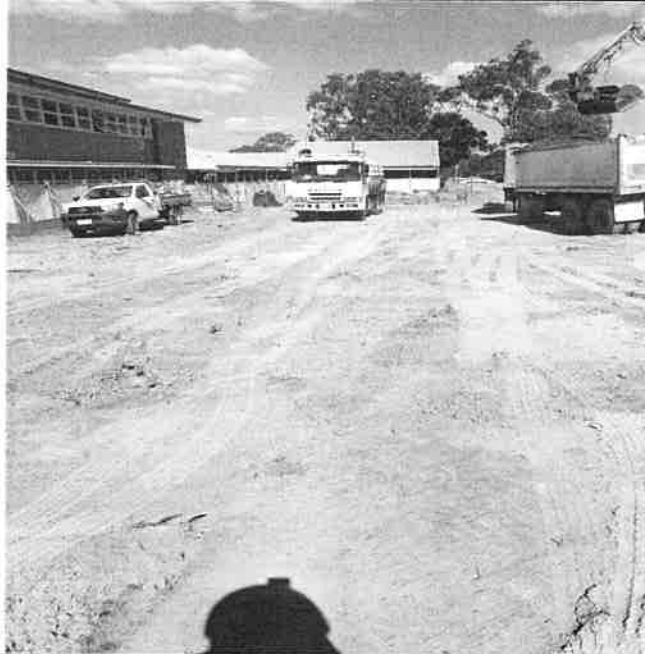


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Reviewed By:	-	Corrective Action Required?	No	Re-Inspection Date:	-
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Corrective Action Details