

Mike A Evert

From: NR [redacted]@ventia.com>
Sent: Wednesday, 12 June 2024 10:00 AM
To: Mike A Evert
Subject: FW: Ventia-DQ-000361: Tamborine Mountain Road 205 E29 - 85% designs ACNXREF<zFFiACYdlua5T23xNhoY4> [SEC=Internal]
[SEC=INTERNAL]
Attachments: 205 TMR E29 Ch 5.46km.JPG; 205 TMR E29 Ch 5.75km.JPG; 205 TMR E29 Ch 5.86km.JPG; 205 TMR E29.JPG

fyi

Kind Regards,

NR [redacted]

Senior Design Project Engineer | Queensland Transport South Coast



In the spirit of reconciliation, Ventia acknowledges the Traditional Custodians of country throughout Australia and their connections to land, sea and community. We pay our respect to their Elders past, present and emerging and extend that respect to all Aboriginal and Torres Strait Islander peoples today.



Stapylton Depot | Lot 15 Eastern Service Road
PO BOX 701 | BEENLEIGH QLD 4207

M NR [redacted]

E NR [redacted]@ventia.com

W www.ventia.com

ABN 51 603 146 676

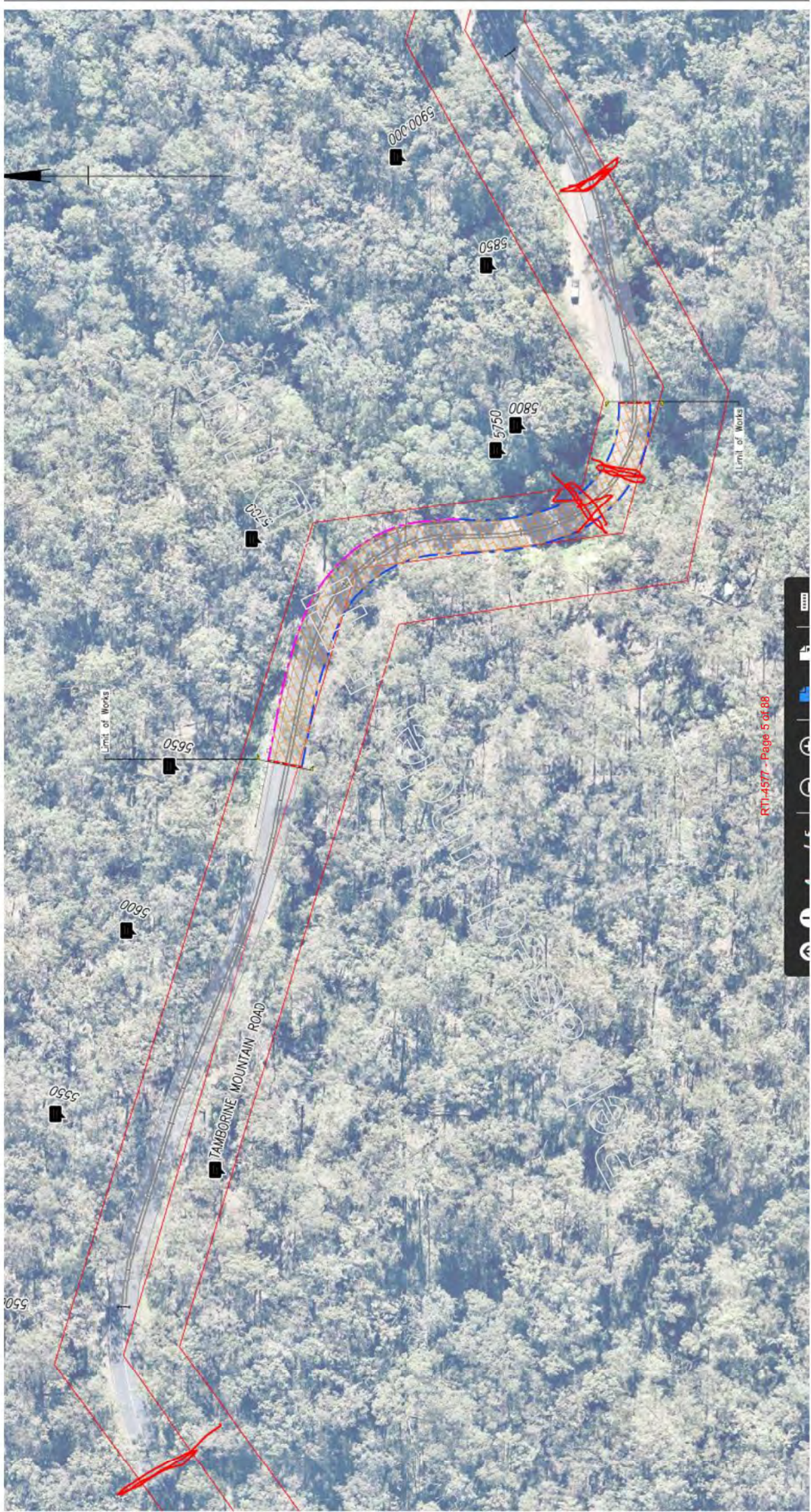
From: NR [redacted]
Sent: Thursday, March 2, 2023 10:49 AM
To: Samuel R Gilmore <Samuel.R.Gilmore@tmr.qld.gov.au>; NR [redacted]@ventia.com>; NR [redacted]@ventia.com>
Subject: FW: Ventia-DQ-000361: Tamborine Mountain Road 205 E29 - 85% designs ACNXREF<zFFiACYdlua5T23xNhoY4> [SEC=Internal]







RTI-4577 Page 4 of 88



Hi all

Just following up on the below emails to get all this on drawings correctly. The attached images are from DVR Feb-21 (there is a slight variation between the Feb-21 and the current Mar-22 DVR).

- Shot blast the Asphalt section form chainage 5.860 – 5.760 (this will address the crash black spot)

DVR Feb-21 Ch 5.76 looks right
DVR Feb-21 Ch 5.86 looks right

- Spray seal Ch 5.760 – 5.460 (given timeframes and budget this might not be able to happen this year, if it can that's great.)
A site visit with NR [redacted] would likely be needed to confirm there's no issues with getting a new spray seal down on this bend.

DVR Feb-21 Ch 5.46 looks right

Attached is the plan view showing where these DVR sections line up. The chainages on the plans will be adjusted to suit the images attached, so I will arrange to have the drawings updated.

Kind Regards,

NR [redacted]

Design Project Engineer | Queensland Transport South Coast



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M NR [redacted]

E NR [redacted] @ventia.com
W www.ventia.com

ABN 51 603 146 676

From: Samuel R Gilmore <Samuel.R.Gilmore@tmr.qld.gov.au>
Sent: Monday, 13 February 2023 8:15 AM
To: NR [REDACTED] <NR@ventia.com>
Cc: NR [REDACTED] <NR@ventia.com>; Mike A Evert <mike.a.evert@tmr.qld.gov.au>
Subject: RE: Ventia-DQ-000361: Tamborine Mountain Road 205 E29 - 85% designs ACNXREF<zFFIACYdlua5T23xNhoY4> [SEC=Internal]

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Thanks [REDACTED]

Kind regards,

Sam Gilmore
Senior Engineer (Traffic) | South Coast Region / Gold Coast Office
Program Delivery & Operation Branch | Department of Transport and Main Roads

16-18 White Street | Nerang Qld 4211
PO Box 442 | Nerang Qld 4211
P: (07) 55636507 | F: (07) 55969511
E: samuel.r.gilmore@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: NR [REDACTED] <NR@ventia.com>
Sent: Friday, 10 February 2023 9:47 AM
To: Samuel R Gilmore <Samuel.R.Gilmore@tmr.qld.gov.au>
Cc: NR [REDACTED] <NR@ventia.com>; NR [REDACTED] <NR@tmr.qld.gov.au>
Subject: RE: Ventia-DQ-000361: Tamborine Mountain Road 205 E29 - 85% designs ACNXREF<zFFIACYdlua5T23xNhoY4> [SEC=Internal]

Hi Sam,

Just heads up, I will provide a spray seal quote shortly and we have a capacity to deliver it in late March if TMR has a budget for it.

Kind Regards, [REDACTED]

Project Manager | Queensland Transport South Coast



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M NR [redacted]
E NR [redacted]@ventia.com
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From: Samuel R Gilmore <Samuel.R.Gilmore@tmr.qld.gov.au>

Sent: Monday, 6 February 2023 7:58 AM

To: NR [redacted]@ventia.com>; NR [redacted]@ventia.com>; Mike A Evert <mike.a.evert@tmr.qld.gov.au>

Subject: RE: Ventia-DQ-000361: Tamborine Mountain Road 205 E29 - 85% designs ACNXREF-zFFIAC/dlua5T23xNhoY4> [SEC=Internal]

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Thanks NR [redacted]

From my last catch up with NR [redacted] followed by our teams meeting:

- Shot blast the Asphalt section form chainage 5.860 – 5.760 (this will address the crash black spot)
- Spray seal Ch5.760 – 5.460 (given timeframes and budget this might not be able to happen this year, if it can that's great.)
- A site visit with NR [redacted] would likely be needed to confirm there's no issues with getting a new spray seal down on this bend.

Could you please let me know the process and timing for next steps?

Kind regards,

Sam Gilmore

Senior Engineer (Traffic) | South Coast Region / Gold Coast Office

Program Delivery & Operation Branch | Department of Transport and Main Roads

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From: NR [REDACTED] <NR@ventia.com>

Sent: Tuesday, 31 January 2023 2:46 PM

To: Samuel R Gilmore <Samuel.R.Gilmore@tmr.qld.gov.au>; NR [REDACTED] <NR@ventia.com>; Mike A Evert <Mike.A.Evert@tmr.qld.gov.au>

Subject: RE: Ventia-DQ-000361: Tamborine Mountain Road 205 E29 - 85% designs ACNREF<zFFIACYdlua5T23xNhoY4> [SEC=Internal]

Hi Sam,

My apologies, I confused this site with Tamborine Oxenford.
That is correct, the works extent needs to be confirmed and IFC drawings issued.

Kind Regards,

NR

Project Manager | Queensland Transport South Coast



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M NR [REDACTED]
E NR [REDACTED] <NR@ventia.com>
W www.ventia.com

From: NR

Sent: Tuesday, 31 January 2023 9:21 AM

To: Samuel R Gilmore <Samuel.R.Gilmore@tmr.qld.gov.au>; NR [REDACTED] <NR@ventia.com>; Mike A Evert <mike.a.evert@tmr.qld.gov.au>

Cc: [redacted]@ventia.com>

Subject: RE: Ventia-DQ-000361: Tamborine Mountain Road 205 E29 - 85% designs ACNXXREF<zFFIACYdlua5T23xNhoY4> [SEC=Internal]

Hi Sam,

No date for the works as yet.

Kind Regards,

NR

Project Manager | Queensland Transport South Coast



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NR

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W www.ventia.com

From: Samuel R Gilmore <Samuel.R.Gilmore@tmr.qld.gov.au>

Sent: Tuesday, 31 January 2023 9:20 AM

To:

NR

i@ventia.com>; NR

@ventia.com>; NR

NR

@ventia.com>; NR

NR @tmr.qld.gov.au>

Subject: RE: Ventia-DQ-000361: Tamborine Mountain Road 205 E29 - 85% designs ACNXXREF<zFFIACYdlua5T23xNhoY4> [SEC=Internal]

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Thanks NR

Mike, is it currently on the program. Do we have an approx. date for it?

Kind regards,

Sam Gilmore

Senior Engineer (Traffic) | South Coast Region / Gold Coast Office
Program Delivery & Operation Branch | Department of Transport and Main Roads

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E: samuel.r.gilmore@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: NR [REDACTED] <NR@ventia.com>

Sent: Tuesday, 31 January 2023 8:54 AM

To: Samuel R Gilmore <Samuel.R.Gilmore@tmr.qld.gov.au>; NR [REDACTED] <NR@ventia.com>; Mike A Evert <Mike.A.Evert@tmr.qld.gov.au>

Subject: RE: Ventia-DQ-000361: Tamborine Mountain Road 205 E29 - 85% designs ACNXPREF<ZFFIACYdiiua5T23xNhoY4> [SEC=Internal]

Correct it didn't get done, but i thought the extent was already determined.

Kind Regards,

Project Manager | Queensland Transport South Coast



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M NR [REDACTED]
E NR [REDACTED] <NR@ventia.com>
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From: Samuel R Gilmore <Samuel.R.Gilmore@tmr.qld.gov.au>

Sent: Tuesday, 31 January 2023 7:28 AM

To: NR [REDACTED] <NR@ventia.com>; NR [REDACTED] <NR@ventia.com>; Mike A Evert <Mike.A.Evert@tmr.qld.gov.au>

<mike.a.evert@tmr.qld.gov.au>

Subject: RE: Ventia-DQ-000361: Tamborine Mountain Road 205 E29 - 85% designs ACNXXREF<zFFIACYdlua5T23xNhoY4> [SEC=Internal]

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Morning Gents,

Having a look back through emails to see if this one ended up getting completed last year or if not, when it is booked in.

From memory we had a teams meeting to go over and confirm the extent of works.

Kind regards,

Sam Gilmore

Senior Engineer (Traffic) | South Coast Region / Gold Coast Office
Program Delivery & Operation Branch | Department of Transport and Main Roads

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E: samuel.r.gilmore@tmr.qld.gov.au

W: www.tmr.qld.gov.au

From: NR [REDACTED] <NR@ventia.com>

Sent: Tuesday, 5 July 2022 9:39 AM

To: Samuel R Gilmore <Samuel.R.Gilmore@tmr.qld.gov.au>; NR [REDACTED] <NR@ventia.com>;

[REDACTED] <NR@ventia.com>; Mike A Evert <Mike.A.Evert@tmr.qld.gov.au>

Subject: RE: Ventia-DQ-000361: Tamborine Mountain Road 205 E29 - 85% designs ACNXXREF<zFFIACYdlua5T23xNhoY4> [SEC=Internal]

Hi Sam,

No it didn't get done, we still need to confirm the extends etc.

Cheers

NR [REDACTED]

From: Samuel R Gilmore <Samuel.R.Gilmore@tmr.qld.gov.au>
Sent: Tuesday, 5 July 2022 7:49 AM
To: [REDACTED] <[\[REDACTED\]@ventia.com](mailto:[REDACTED]@ventia.com)>; NR [REDACTED] <[\[REDACTED\]@ventia.com](mailto:[REDACTED]@ventia.com)>; Mike A Evert <mike.a.evert@tmr.qld.gov.au>
Subject: RE: Ventia-DQ-000361: Tamborine Mountain Road 205 E29 - 85% designs ACNXXREF<zFFIACYdlua5T23xNhoY4> [SEC=Internal]

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Hi Gents,

Do we know if the shotblasting managed to be completed last month for this section?

Kind regards,

Sam Gilmore
Senior Engineer (Traffic) | South Coast Region / Gold Coast Office
Program Delivery & Operation Branch | Department of Transport and Main Roads

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E: samuel.r.gilmore@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Samuel R Gilmore
Sent: Monday, 23 May 2022 11:43 AM
To: NR [REDACTED] <[\[REDACTED\]@ventia.com](mailto:[REDACTED]@ventia.com)>; [REDACTED] <[\[REDACTED\]@ventia.com](mailto:[REDACTED]@ventia.com)>
Cc: Mike A Evert <Mike.A.Evert@tmr.qld.gov.au>
Subject: RE: Ventia-DQ-000361: Tamborine Mountain Road 205 E29 - 85% designs ACNXXREF<zFFIACYdlua5T23xNhoY4> [SEC=Internal]

Hi NR

I've just sat down with [REDACTED] to go through the scope for this one.

We went back to the first steps to look at the SCRIM and crash data along side DVR.

The best course of action based on this review we think is the following:

- Shot blast the Asphalt section form chainage 5.860 – 5.760 (this will address the crash black spot)
- Spray seal Ch5.760 – 5.460 (given timeframes and budget this might not be able to happen this year, if it can that's great.)
- A site visit with **NR** would likely be needed to confirm there's no issues with getting a new spray seal down on this bend.

Kind regards,

Sam Gilmore

Senior Engineer (Traffic) | South Coast Region / Gold Coast Office
Program Delivery & Operation Branch | Department of Transport and Main Roads

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 P: (07) 55636507 | F: (07) 55969511
 E: samuel.r.gilmore@tmr.qld.gov.au
 W: www.tmr.qld.gov.au

From: **NR** <NR@ventia.com>

Sent: Tuesday, 17 May 2022 4:20 PM

To: **NR** <NR@ventia.com>; Samuel R Gilmore <Samuel.R.Gilmore@tmr.qld.gov.au>; NR@ventia.com>

Subject: RE: Ventia-DQ-000361: Tamborine Mountain Road 205 E29 - 85% designs ACNREF<zFFIACYdlua5T23xNhoY4> [SEC=Internal]

Hi all

Following our meeting today the drawings appear to be incorrect. I have marked up the attached the best I could using the business case and DVR.

Kind Regards,

NR

Design Project Engineer | Queensland Transport South Coast



Stapylton Depot | Lot 15 Eastern Service Road
PO BOX 701 | BEENLEIGH QLD 4207

M NR

E NR @ventia.com
W www.ventia.com

ABN 51 603 146 676

From: NR @ventia.com>

Sent: Tuesday, 17 May 2022 3:45 PM

To: Samuel R Gilmore <Samuel.R.Gilmore@tmr.qld.gov.au>

Cc: NR @ventia.com>

Subject: RE: Ventia-DQ-000361: Tamborine Mountain Road 205 E29 - 85% designs ACNXXREF<zFFIACYdlua5T23xNhcY4> [SEC=Internal]

Hi Sam,

Yep Monday would be great maybe sneak out before 11 or between 12.30 and 2. I was just speaking to the designers and it sounds like we have a bit of confusion over the locations, it might be OK to check it out on DVR save a trip to site. We will mark up some drawings with the latest changes and send them through to you. Hopefully we can sort it out without a site visit but will be in the TMR office on Monday.

Cheers

NR

From: Samuel R Gilmore <Samuel.R.Gilmore@tmr.qld.gov.au>

Sent: Tuesday, 17 May 2022 1:56 PM

To: NR @ventia.com>

Subject: RE: Ventia-DQ-000361: Tamborine Mountain Road 205 E29 - 85% designs ACNXXREF<zFFIACYdlua5T23xNhoY4>

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Hi NR

Mike just got in touch about the Mt Tamborine site you mentioned to me last week. Looks like we might have to go for a site visit.

Are you available Monday?

2021 - 2025 Annual/Forward Works program													
E29 Skid resistance programmed maintenance													
CR Ranking	PMP Year	Road No.	Road Name	Cwy	Start Ch	End Ch	Proposed Treatment	E18 Overlap	Addressed by other funding?	Watercutting Flushing	E29 Program	Crash Data Checked	Review notes
5	21-22	205	TAMBORINE MOUNTAIN ROAD		5.65	5.80	AC resurfacing		no	no	20/21	Yes	10/24/21 Site Visit with NR Ventia: Have site Surveyed do AC (this will be similar to other corner treatment) 5 Crashes on 100m corner could address this with H Surface 11.5 years old

I'm getting pretty tight on time, I've got a half day Friday where I'm booked up then it's just Monday, Tuesday and

Kind regards,

Sam Gilmore
Senior Engineer (Traffic) | South Coast Region / Gold Coast Office
Program Delivery & Operation Branch | Department of Transport and Main Roads

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E: samuel.r.gilmore@tmr.qld.gov.au
W: www.tmr.qld.gov.au

From: Mike A Evert <Mike.A.Evert@tmr.qld.gov.au>
Sent: Tuesday, 17 May 2022 1:40 PM
To: Samuel R Gilmore <Samuel.R.Gilmore@tmr.qld.gov.au>
Cc: NR <NR@ventia.com>; NR <NR@ventia.com>
Subject: FW: Ventia-DQ-000361: Tamborine Mountain Road 205 E29 - 85% designs ACNREF<zFFiACYdlua5T23xNhoY4>

Hi Sam,

I've saved these docs in here;

[\\corp\shares\Groups\NERD\ROAD PROJECTS\RAMC\Gen 2\Contract Delivery\Projects\21-22\E29 Skid Resistance\02 Development](#)

There is a request for you to go on site to confirm **found**.

Kind regards,

Mike Evert RPEQ

A/Senior Engineer (Civil) | Preservation and Maintenance | South Coast Region

Program Delivery & Operations Branch | Department of Transport and Main Roads

Floor 1 | 36-38 Cotton St | Nerang Qld 4211

PO Box 442 | Nerang Qld 4211

T: 07 5563 6419

M: 

E: mike.a.evert@tmr.qld.gov.au

W: www.tmr.qld.gov.au



From: NR  <auto-reply-au1@au.aconex.com>

Sent: Tuesday, 17 May 2022 12:01 PM

To: Mike A Evert <Mike.A.Evert@tmr.qld.gov.au>

Subject: Ventia-DQ-000361: Tamborine Mountain Road 205 E29 - 85% designs ACNXREF<zFFiACydlua5T23xNhoY4>

When replying, do not delete the content below this line

You have received a new **Design Query: Ventia-DQ-000361**

Project: RAMC Gen 2

Type: Design Query

Mail Number: Ventia-DQ-000361

To: Mike Evert, Department Of Transport and Main Roads

Cc: [redacted] Ventia Pty Ltd
[redacted] Ventia Pty Ltd

From: [redacted] Ventia Pty Ltd

Sent: 17/05/2022 12:00:36 PM AEST (GMT +10:00)

Status: Outstanding

Response: **Revise and re-submit by Friday, 20 May 2022**

Subject: **Tamborine Mountain Road 205 E29 - 85% designs**

Hi Mike

Please find attached an 85% design submission for the E29 works on Tamborine Mountain Road 205 Ch 5.65 to 5.8km. We have reviewed it, refer the attached comments register. I have assigned some comments to TMR which need feedback.

The main item would be Comment 11 in the register. It appears the chainages on the DVR/business case do not quite line up with the centreline control line provided by ARMIS, so the extents shown on the drawings are different to the business case. However it should also be pointed out there is already asphalt within the extents so this might be causing the skid issues and might just need shot blasting to improve the surface.

There is also guardrail within the area marked on the drawings, impacts will differ depending on the above notes.

[redacted] suggested a site visit with Sam Gilmore to confirm the scope of what is required here.

Kind regards

[redacted]

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Regards,
The Aconex Team

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DEERAGUN Q 4818
P: 07 4774 4400
F: 07 4774 4422
david.symington@rpq.com.au

Double/Double Seal Design

Customer:	Ventia		Date:	13/03/2023		
Street / Road:	Tamborine Mountain Road		Job /No: Contract No:	CN-8334		
Location:	Tamborine Mountain Road		Design No:	S45R-2023-RPW-Tamborine		
Start Chainage:	5.46		End Chainage:	5.76		
Proposed Binders	S45R	S45R	AADT	5042		
Type of Treatment	Reseal		v/l/d	2521		
HV %	9.16	LHV %	0	EHV	9.16	
Surface Texture mm	0.9	Embedment mm	Design has no data		Exist. Surf.	10
Gradient	Flat/Downhill	Area type	Traffic Lane	Effect	Normal	
Coat			1st Coat	2nd Coat		
Aggregate Size (mm)			14	7		
Aggregate Flakiness			12	21		
Design Traffic (v/l/day)			2521			
ALD (mm)			8.9	4		
Design Aggregate Spread Rate (m²/m³)	950/ALD		107	1000/ALD	250	
Recommended Spread Rate (m²/m³)			105	230		
Basic Voids Factor (Vf)			0.12	0.14		
Adjustment	Aggregate (Va)		0.01	0.00		
	Traffic (Vt)		0.00	0.00		
Design Voids Factor (VF) = Vf+Va+Vt			0.130	0.140		
Basic Binder Rate (Bb) = VF * ALD			1.16	0.56		
PMB / Emulsion Factor (PF/EF)			1.20	1.20		
Modified Basic Binder App Rate (Bbm) Bb x Pf			1.39	0.67		
Allowances	Surface Texture (As)		0.3			
	Binder Absorption (Aba)		0.0			
	Embedment (Ae)		0.0			
Design Binder Application Rate (Bd) (L/m²)			1.70	0.70		
Recommended Application Rate (L/m²)			1.6	0.8		
Design method as per Austroads AGPT04K-18 & TN175						
Designed for first and second coat to be done on the same day. Rates do not service a single coat design.						
Surface texture to be confirmed on site and rates amended by seal designer's delegate						
RPQ Spray Seal			Client			
Designed by:	NR		Ventia			
Signature:						
Date:	Monday, 13 March 2023					

ROADS. PEOPLE. QUALITY.

RPQ PTY LTD
ABN: 53 010 760 826

RPQ ASPHALT PTY LTD
ABN: 70 088 212 757

TRICO ASPHALT PTY LTD
ABN: 47 140 432 015
RPQ NORTHCOAST PTY LTD
ABN: 38 126 601 241

RPQ SPRAY SEAL PTY LTD
ABN: 30 113 612 098



From: [SouthCoast](#)
To: NR
Subject: RE: Large pothole - Tamborine Mountain Road
Date: Friday, 29 July 2022 12:07:00 PM

Dear NR

Thank you for your enquiry to the Department of Transport and Main Roads regarding potholes on Tamborine Mountain Road especially those near Piano Rock.

We can advise that our maintenance contractors have attended this location and made repairs. We thank you for bringing this issue to our attention.

Kind regards

**Customer and Stakeholder Management Team
for Belinda Stewart**

Deputy Regional Director | South Coast Region

Program Delivery and Operations | Infrastructure Management and Delivery | Department of Transport and Main Roads

36-38 Cotton Street | Nerang Qld 4211

PO Box 442 | Nerang Qld 4211

P: (07) 5563 6600

E: southcoast@tmr.qld.gov.au

W: www.tmr.qld.gov.au

File ref: 500/03582

From: NR
Sent: Wednesday, 27 July 2022 7:49 PM
To: SouthCoast <SouthCoast@tmr.qld.gov.au>
Subject: Large pothole - Tamborine Mountain Road

Hi

There's been a large pothole on the downward run of Tamborine Mountain Rd (just down from the piano) for the last 3 weeks. I thought it may have been fixed through routine maintenance of the road, but alas this has not happened. I know of one person who has blown a tyre there in this time. The app, Waze, has even had a warning about it up for the last 3 weeks, that's how dangerous it is as it is right in the drive line. Could you please get someone (Scenic Rim Council?) to fix it.

There's also some more potholes further downhill before and after Barry Road that make the road a dodgem car event which is not safe. I understand there are a lot of potholes to fix, but these are on a heavily trafficked road and a tourist route that makes it in need of some urgency.

Many thanks

NR

Project Scope Identification

for an Infrastructure Type 3 project



Source of funds:

(Program, line item in
RIP)

QRSPP-Element 29 Skid resistance Management (2021-2022)

Region/District:

South Coast

Local Government:

Various

Road Names
(Sections):

Various roads as shown in the table below

Project Location:

Rd No	Treatment	Start Ch km	Finish Ch (km)	Surfacing Area (m2)	Distance (km)
114	Shot Blasting	4.31	5.60	4000 m ²	1.6
NR					
205	Reseal AC	5.65	5.80	1,890 m ²	0.15
NR					

Project Number

TBA

NR

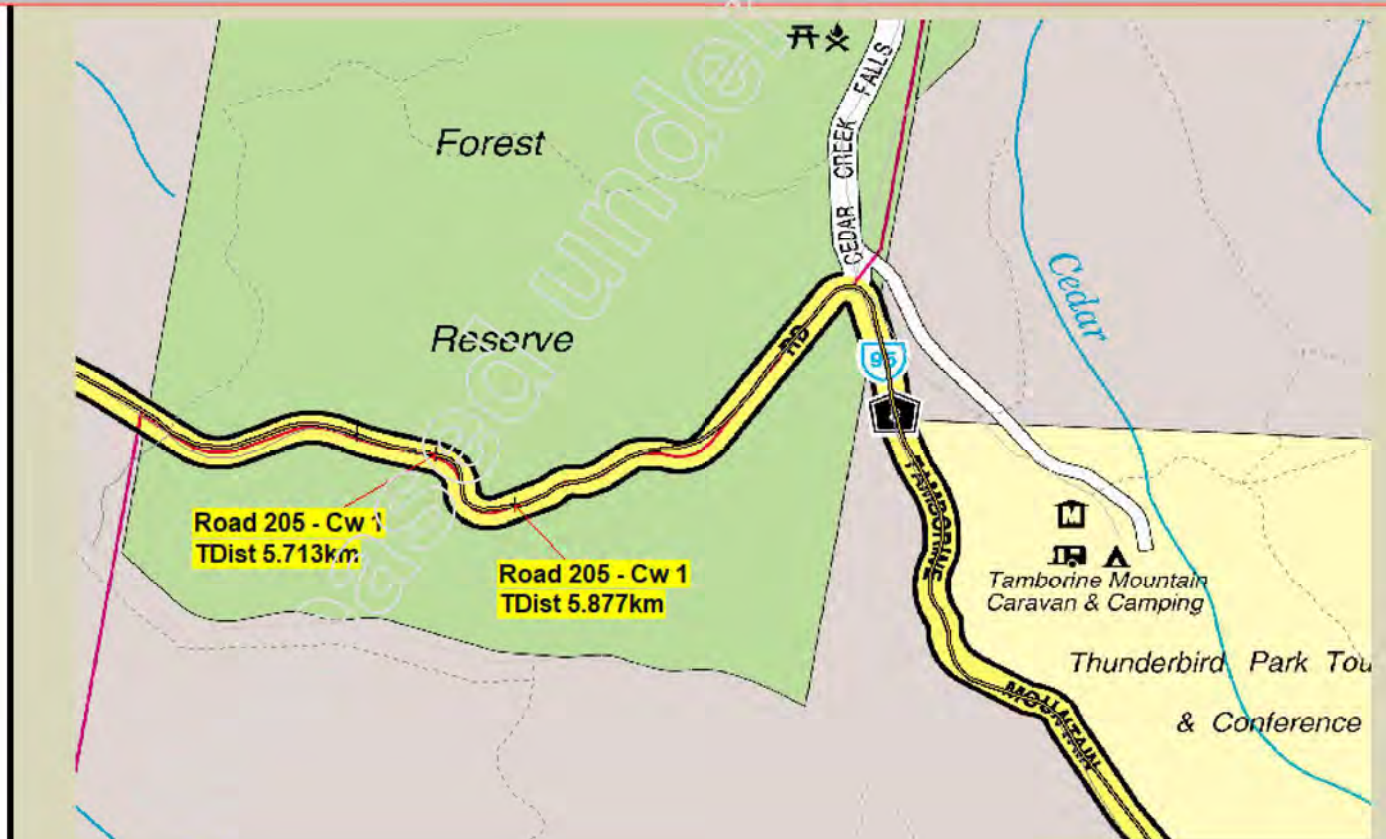


E29 Skid resistance treatment site at Hope Island Road, Rd 114.

NR



E29 Skid resistance treatment site at Beaudesert - Nerang Road, Rd 202.



E29 Skid resistance treatment site at Tamborine Mountain Road, Rd 205.

Released under RTI - DTMR

Released under RTI - DTMR

Existing conditions:

All sites were inspected by the SCR Asset Management team over April/May 2021, which resulted in proposed skid resistance treatments in these locations.

NOTE: The exact scope of the 25B project will be dependant on the remaining budget for the 2021/2022 financial year and can expand or contract in size based on that amount.

As such this project should be planned for the final quarter of the 2021/2022 financial year.

NR

**Road 205:**

This section of Tamborine Mountain Road is a narrow winding mountain road with a posted speed limit of 60km/h.

Chartview shows that the seal age is 12 years, and site inspections found the road surface is lacking texture.

Site inspections found the existing sprayed seal on the corner in question was slightly flushed and well-worn with some stripping of aggregate. Other similar corners in the area have previously been resealed and changed from a spray seal to AC seal.



NR

Need for Project:

All projects have been identified as priority treatment sites due to a combination of the SCRIM results and other site data such as crash history and average daily traffic counts.

Site specific needs are listed below:

- NR

	<p>NR</p>  <ul style="list-style-type: none"> • Road 205: low SCRIM data <p>Six crashes, five requiring hospitalisation and one requiring minor medical treatment, over the past 5 years on the 100m section of road.</p> <p>There are no plans for this section of road to be addressed by E17/18 in the four year works program</p> <p>NR</p>  <p>Seal age is 15.5 years.</p> <p>There is an Element 18 rehab project scheduled for 2024/25 from chainage 14.80 – 17.10 and a spray and seal project scheduled for 2025/26 from chainage 17.10 – 17.85</p>
<p>Date of any damage:</p>	<p>Information of polished surface of existing roads as per site inspections throughout April 2021.</p>

<p>•Crash history: (over last 5 years)</p>	<p>The crash histories for the last 5 years are as follows:</p> <p>NR</p> <p>Released under RTI - DTMR</p>
---	--

NR

205

DCA Group	Description	Fatal	Hospitalisation	Medical Treatment	Minor Injury	Total
20	Vehicles from opposing direction		2	1		3
50	Overtaking		1			1

	80	Off path on curve		2			2
	Total		0	5	1	0	6
<div>NR</div> <div>Released under RTI - DTMR</div>							
•AADT (% of heavy vehicles) (date):	AADT from 2018						

	<p>NR</p> <p></p> <ul style="list-style-type: none"> Rd 205: AADT 5,026 vehicles per day with 9.17% heavy vehicles <p>NR</p> <p></p>
<p>•Deficiencies:</p>	<p>NR</p> <p></p> <p>Road 205:</p> <ul style="list-style-type: none"> low SCRIM data Six crashes, five requiring hospitalisation and one requiring minor medical treatment, over the past 5 years on the 100m section of road. <p>NR</p> <p></p>

	NR
•Political and community issues:	<p>Old seals and polished cover aggregate on existing road have the potential to impact the roadway, which is a safety concern to the passing motorist.</p> <p>If incidents impacted on the road causing closures or traffic delays, the residents of the area would be affected.</p>
•Any associated works/projects:	<p>NR</p> <p>205: E17/18 Ch 2.80 - 3.80 Stabilise and spray seal (2025/2026) E17/18 Ch 8.75 - 8.96 AC Resurfacing (2022/2023)</p> <p>NR</p>
•Other: <i>(provide photos where applicable):</i>	<ul style="list-style-type: none"> • A search with TEP database revealed there is no existing relevant Traffic Safety Audit identifying any of the crashes with low skid resistance (see appendix D for email correspondence) • Refer to Site inspection notes where applicable and DVR footage of the existing road conditions.

•2018 Road Safety Policy – Safety Intervention and Improvement Guidelines (Interim)	Appendix D contains the Project Planning Safety Considerations that details the extent to which the interim Safety Intervention and Improvement Guidelines provided in the Road Safety Policy will be applied to this project to ensure that it is fit for purpose and delivers realisable safety benefits for the road users.
Program Benefits/ outcomes of proposed works:	<ul style="list-style-type: none"> • Driver safety due to the reduced risks of polished sealed section of road. • Potentially reduce the incidents during wet weather. • Potentially reduce the maintenance expenditure of the rescal sections especially at Intersections.

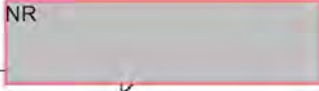
Scope of proposed project:	
<ul style="list-style-type: none"> • In Scope: 	<p>As per E29 Skid Resistance treatment in Element Management Plan and Guidelines for Road Design on Brownfield Sites for 'Class D' maintenance projects.</p> <p>NR</p> <p>Road 205:</p> <p>Asphalt resurfacing (with high PAFV aggregate)</p> <p>NR</p>

•Out of Scope:	<p>Scope of work deemed Class A, B and C types in Guidelines for Road Design on Brownfield Sites are to be excluded.</p> <p>NR</p> <p>Road 205:</p> <p>n/a</p> <p>NR</p>
Options considered:	<p>For all roads the option of a rehab or reseal was considered along with the programs, budgets and priorities of E17 and E18.</p>
Constraints:	<ul style="list-style-type: none"> • Changes to budget during the surfacing works. • Time delay to carry out surfacing works may increase required budget. • Extreme cold weather events have the potential to change the nature of the surfacing works being carried out or affect how the project is constructed. • Environmental, native title or cultural heritage issues – pollution or noise may impact the asphalt surfacing and associated works.
Delivery method:	<p>Project is to be managed by SCR Delivery team.</p>

Safety assessment	<p>Does the proposed work make any aspect of the road less safe? (e.g. <i>traffic moved closer to hazards, or approach speed to a tight curve increased</i>)</p> <p><i>No, ✓ proceed with the design</i></p> <p><i>Yes, do further mitigation work to achieve the appropriate level of safety.</i></p>			
Future operational performance:	<p>Periodic inspection of treated roads that may appear polished, flushed or bleedings</p>			
Significant risks identified:	<ul style="list-style-type: none"> • Increase of bitumen costs in market and escalation of project costs. • Traffic management may impact on road users. • Safety consideration in surfacing works especially on slope. • Assessment for debris/wastes from environmental management to be carried out. 			
Native Title/Environmental/Cultural Heritage concerns:	<ul style="list-style-type: none"> • Disposal of removed debris during construction stage. 			
Project Estimate: <i>(note include contingency allowance)</i>	\$ K (Construction costs only)			
	Road No.	Road Name	Treatment	Estimate (\$'000)
	NR	<div></div>		<div></div>
205	TAMBORINE MOUNTAIN ROAD		Reseal - Asphalt	NR
NR	<div></div>		<div></div>	

Source Fund \$'000	Proposed expenditure flows				
	Prior Expenditure \$'000	2021-22 \$'000	2022-23 \$'000	2023-24 \$'000	Total \$'000
E29	-	NR			

Submitted (Project Manager)

Name: Sam Gilmore	Position: Engineer (Civil)
Signature: 	Date: __ 21 __ / __ 06 __ / __ 2021 __

Recommended (Program Manager/Sponsor- Principal Engineer/Advisor/Coordinator)

In consideration of the network needs and safety improvements to be realised under this project, and the scope generally complying with E29 Skid Resistance Management Plan, MPO funding criteria, and the Safety Policy interim requirements, I recommend the projects be implemented in 2020/21 financial year.	
Name: Michael Wong	Position: Principal Engineer (Civil)
Signature: _____	Date: __ 21 __ / __ 06 __ / __ 2021 __

Comments:

Approved (Customer - M(PD&P), M(D&O) or M(PP&CM))

I approve the scope and funding as detailed for this E29 Skid Resistance Management Plan.	
Name: Rob Ebbstein	Position: Technical Services Manager
	Date: ____ / ____ / ____

Signature: _____

Comments:

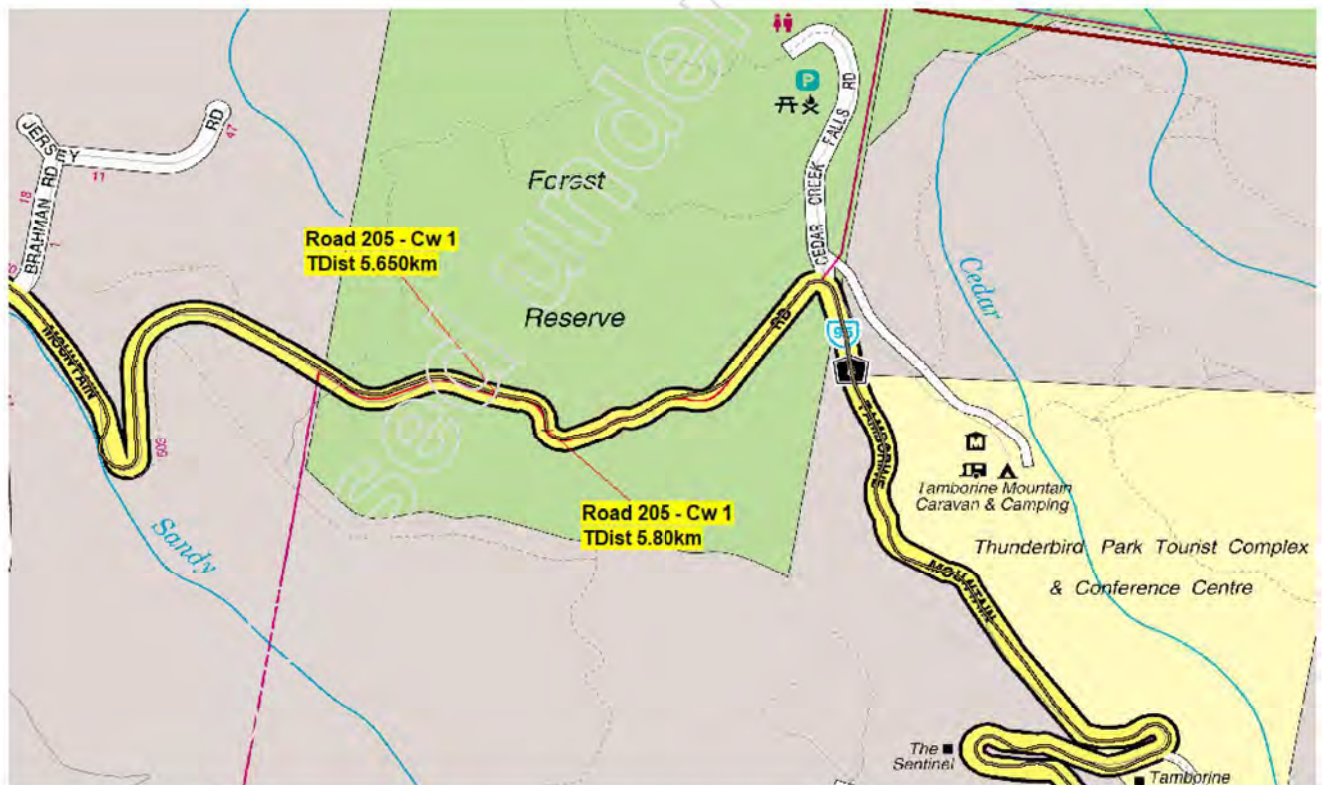
Attachments:

- A. Locality Sketch
- B. ARMIS information
- C. Crash diagram by TEP
- D. Project Planning Safety Considerations

Appendix A: Locality Sketch



E29 Skid resistance treatment site at Beaudesert - Nerang Road, Rd 202.



E29 Skid resistance treatment site at Tamborine Mountain Road, Rd 205.

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Released under RTI - DTMR

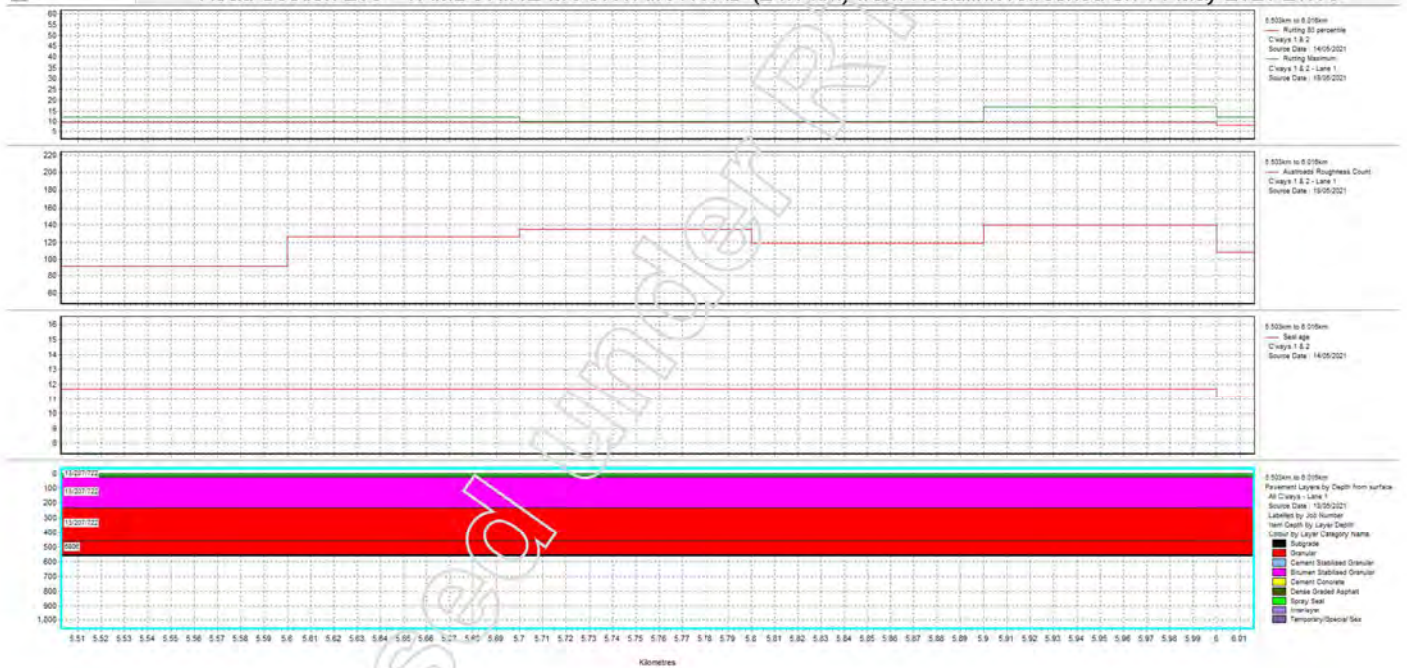
Released under RTI - DTMR

Appendix B: Armis information

NR

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Road Section 205 - TAMBORINE MOUNTAIN ROAD (24.1 km) from Roadlink refreshed on 14 May 2021 21:08



Released under RTI - DTMR

Released under RTI - DTMR

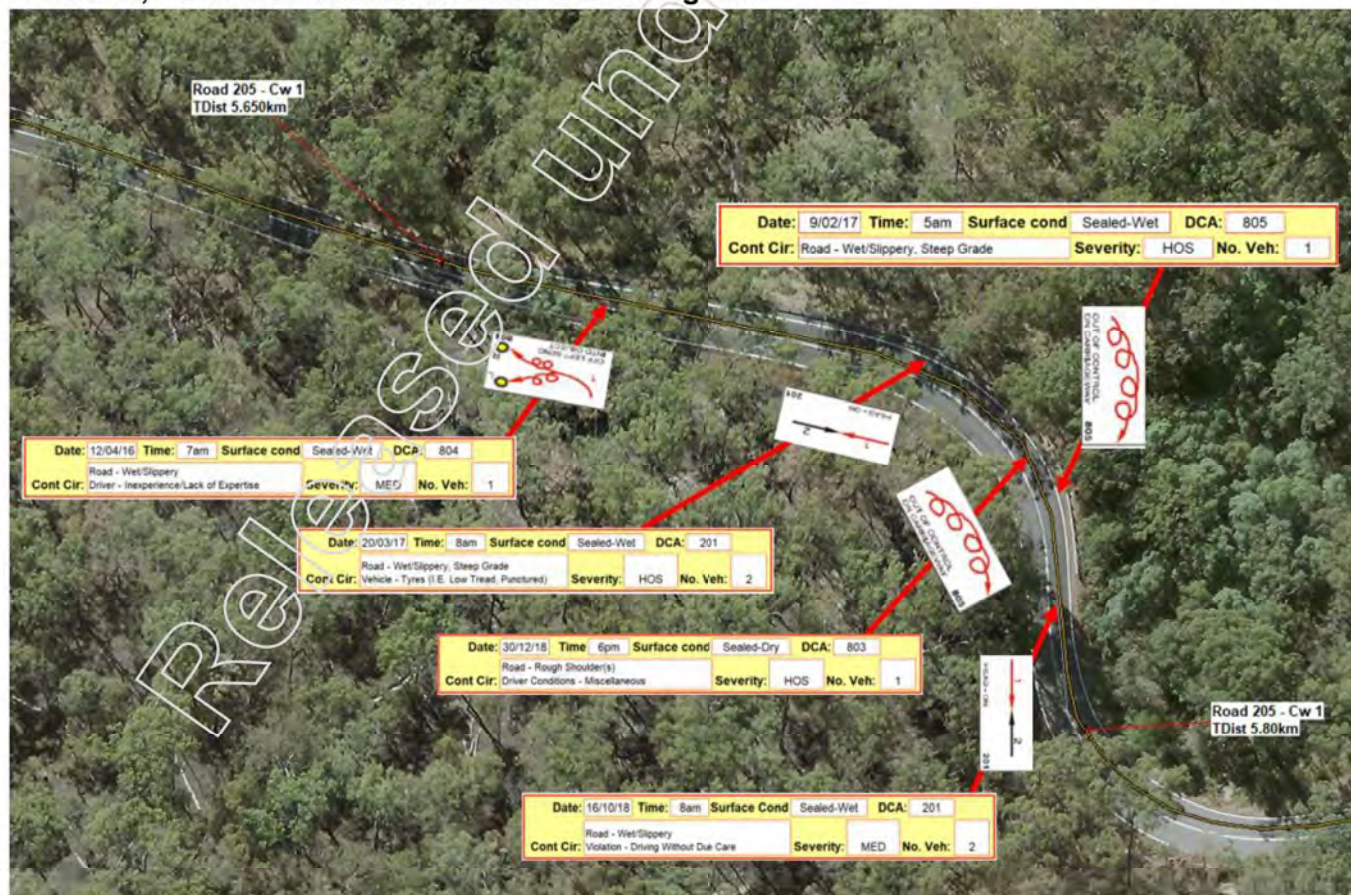
Appendix C: Crash Diagrams

NR

Released under RTI - DTMR

Released under RTI - DTMR

Road 205, Tamborine Mountain Road: Crash Diagram



Released under RTI - DTMR

NR



Released under RTI - DTMR

Appendix D: Project Planning Safety Considerations

The current Road Safety Policy was approved for use in August 2018, Appendix A of the Policy list the (interim) Safety Intervention and Improvement Guidelines, these are re-produced in Table 1 and form the basis of the Project Planning Safety Considerations.

The Interim Safety Standards are the default requirements unless justification is documented in a planning report or design exception. They are based on addressing safety issues on Queensland's road network with proven countermeasures that are considered good practice in the design and construction of safer road infrastructure to proactively reduce the risk of fatal and serious injury crashes.

The Project Planning Safety Considerations details how each Safety Issue will be addressed in the design process and provides justification for the inclusion or exclusion of each Safety Standard.

Table 1 Project Planning Safety Considerations

Safety Issue	Safety Standards	Justification	Applicability
Motorcyclists	All new installations of road safety barriers (and terminals) shall be fitted with motorcyclist injury countermeasures (such as underrun) suitable to the barrier type.	There are no new barriers to be installed as part of the scope of this project. Therefore, there is no scope to include motorcycle injury counter measures.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> N-o
Vulnerable users	<p>In all urban environments, and where demand exists or may develop in a rural environment, projects will include provisions for pedestrians, cyclists and people with a disability, including footpaths and crossings.</p> <p>Appropriate speed limits in areas of high pedestrian and cyclist use as per MUTCD Part 4.</p>	<p>The project is in a rural environment and there is no demand to provide provisions for pedestrians and people with a disability.</p> <p>This section of Henri Robert Drive is not part of the Principal Cycle and existing unsealed shoulder is 1.2m</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Intersection – Pedestrian	<p>Pedestrian crossings to be provided on all approaches at signalised intersections.</p> <p>Pedestrian crossing protection (delayed start to vehicle movements) is required.</p>	There are no signalised intersections within the project limits.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Intersection - Pedestrian	Unsignalised left turn slip lanes should	There are no unsignalised left turn slip lanes within the project	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Safety Issue	Safety Standards	Justification	Applicability
	generally be avoided at intersections unless signalised with pedestrian protection.	Scope	
Intersection - Urban	New and upgraded signalised intersections must have protected right turn lanes on the major road. Filtered green arrows for right turns to be excluded unless justified through a risk assessment	Not applicable – there are no signalised intersections within the project limits.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Intersection - Rural	Auxiliary Right Turn Lanes will be replaced with at least a CHR(s).	<p>There is no existing CHR within the Henri Robert Drive at the 3 intersections of Flores Ct, Sumba Ct and Celebas Ct respectively.</p> <p>The existing pavement width is not sufficient to apply a higher order turning treatment.</p> <p>Due to the required works to allow the installation of CHR treatment (widening of an approximate minimum of 4m) the upgrade has been deemed out of scope. An upgrade such as this would create significant cost to the project and would in turn would cause the project to be cost prohibitive.</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Intersection - Rural	Where a high volume of left turning traffic is present on high speed rural roads, sight lines must not be obscured for traffic entering from the minor road. Depending on sight lines and traffic volumes, left turn lanes may need to be repositioned or channelised. Side road throat widths should be considered for widening to allow Stop/Give way lines to be brought as far forward towards edge of shoulder as possible, with appropriate sealed	<p>This project location does not have any existing left turn movement into Flores Ct, Sumba Court and Celebas Court. Within the project limits these sites do not have any turning treatments applied.</p> <p>Due to the required works to allow the installation of a higher order turn treatment (widening of an approximate minimum of 3m) the upgrade has been deemed out of scope.</p> <p>An upgrade such as this would</p>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Safety Issue	Safety Standards	Justification	Applicability
	area for design vehicle turning path.	create significant cost to the project and would in turn would cause the project to be cost prohibitive.	
Head on - Rural	Rural roads with AADT greater than 4,000 vehicles per day should have a wide centreline and ATLM.	Not applicable, the AADT is 1748 vpd	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Head on – All Roads	<p>For all divided roads with posted speed greater than or equal to 80km/hr, medians will be clear of all hazards unless protected by roadside barrier.</p> <p>For all divided roads with posted speed greater than or equal to 80km/hr with AADT greater than 10,000 vehicle per day, physical separation by median barrier is required.</p>	Not applicable, undivided road.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Run off road - Rural	Audible Tactile Line Marking (ATLM) will be installed on edge lines and centre lines on all rural roads with sealed shoulder greater than 0.5m and a history of fatigue related crashes	Not applicable, there are no shoulders provided within the project limits, and there is no history of fatigue related crashes.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Line marking – All Roads	All new permanent line marking shall be cold applied plastic.	If the technology is available at the time of construction cold applied plastics can be investigated.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Rest Areas and Stopping Bays	On rural roads, ensure there are stopping bays every 30km. Rest areas to be provided every 80km.	Not applicable-This section of Henri Robert Drive is about 18Km away from Nerang.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Safety Issue	Safety Standards	Justification	Applicability
Enforcement	<p>On all motorway upgrades, provision must be made for speed enforcement. In particular, the works must design to accommodate:</p> <ul style="list-style-type: none"> Point to point camera infrastructure, including provision of footings with associated structures and electrical supply, suitably placed for enforcement during operation Provide for the construction of enforcement pads/bays for use by mobile speed camera vehicles/trailers encompassing electrical power supply with concrete base at appropriate locations during and at the completion of construction. 	Not Applicable – not a Motorway	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Email Correspondence regarding Existing Road Safety Audits:

From: Dieu V Vuong

To: Samuel R Gilmore

Subject: RE: Road Crash Safety Audits

Date: Tuesday, 1 June 2021 2:24:44 PM

Attachments: [RSA+Post+Construction+Scrubby+Creek+-+FINAL+APPROVED+_+12Dec17.pdf](#)
[230_206_3+RSA+9529+Signed+Copy.pdf](#)

Hi Sam,

Please see below for my response.

I could only locate the above reports for the roads that you requested for. Please note that although there are no records on Pursuit database of any past audits done, it is likely that the PMs at the time did not file them and just simply put them away. You can speak to the manager of Delivery if you wish to find out about specific projects that you may know of.

Rd No	Road Name	Start Ch km	Finish Ch (km)	Road Safety Audit?
NR				
205	TAMBORINE MOUNTAIN ROAD	5.65	5.80	N
NR				

Department of Transport and Main Roads
Nerang - Gold Coast Office
36-38 Cotton Street
Nerang Qld 4211
Email: projects.southcoast@tmr.qld.gov.au

Ventia Pty Ltd
Lot 15, Eastern Service Road
Stapylton QLD 4207

Attention: Mike Evert

16 March 2023

Dear Mike,

RE: Request for Quote – E29 Shotblasting Submission Letter – Various roads

Ventia is pleased to submit a proposal for the shotblasting works for the following locations:

- NR [REDACTED]
- Shot Blasting - Mount Tamborine CH 5.860 – CH 5.760
- NR [REDACTED]

Scope of Works

- Implementation, maintenance, and removal of temporary traffic management
- Pavement retexturing works by means of shotblasting.

Our submission is based on the following:

- The listed works will be undertaken as specified by Ventia Pty Ltd.
- All works are priced to be undertaken during night shift Monday- Thursday
- Clear unobstructed access is to be provided for Ventia to undertake the works. Delay or miscommunication due to other unsolicited works which requires Ventia to halt, delay or change programmed works will be on charged to TMR as a variation.
- Ventia hasn't allowed any test results in the submission.

Costing

The summary pricing table for this project is included below.

Site Description	Road No.	Work Description	Cost
NR [REDACTED]			
Shot Blasting - Mount Tamborine CH 5.860 – CH 5.760	205	Shotblasting	NR [REDACTED]

NR			
			NR
GST			
TOTAL (incl GST)			NR

The more detailed pricing breakdown table is also attached.

If you have any queries regarding our pricing and assumptions, please do not hesitate in contacting me directly.

Yours sincerely,

NR

NR

Project Manager
Ventia Pty Ltd

Direct Line:

NR

Mobile:

Email:

NR

@ventia.com

[illegible]



QA Lot Submission

Client:	Ventia	Date:	26/03/2023
Location/s:	Tamborine Mountain Rd, Tamborine	Job Limits:	n/a

Job Number:	502
Lot Number/s:	VE-AC-25/03/23
Works Completed:	Asphalt Pavement Repairs
Products Provided:	AC20H/C320



QUALITY CONFORMANCE REPORT ASPHALT LAYING



CLIENT: Ventia JOB No.: 502 DATE LAID: 26/03/2023

LOCATION: Tamborine Mountain Rd, Tamborine

LOT No.: VE-AC-26/03/23 CHAINAGE START: n/a FINISH: n/a

AREA: 1. 224.6 m² TACK COAT: 68 L NOMINAL THICKNESS: 1. 100 mm
2. 2.5 m² 2. 60 mm

QUANTITIES ORDERED: 54.4 t QUANTITIES CLAIMED: 54.4 t
t t
t t

APPLICABLE	DOCUMENT TITLE	ATTACHED
YES	Authorisation To Proceed	YES
YES	Agreed Quantity Record	YES
NO	Traceability Record	NO
NO	Compaction Report (Correct Client Details/Job Site/Mix Design/Lot No.)	NO
NO	Compaction Sample Location Map (Correct Site & Lot No.)	NO
YES	Asphalt Summary Report (Correct Client Details/Job Site/Mix Design/Lot No.)	YES
NO	3m Straight Edge Test (Correct Client Details/Job Site/Mix Design/Lot No.)	NO
NO	String Line Record (Correct Client Details/Job Site)	NO
YES	Delivery Dockets (Correct Client Details/Job Site/Mix Design/Lot No.)	YES
NO	Site Variation Form (Correct Client Details/Job Site/Variation Details)	NO
NO	Texture Depth Test Report (required for surfacing layer only)	NO
YES	Pavement Repairs, Trenches & Patches (Correct Client Details/Job Site)	YES
NO	Nonconformance Report (NCR)	NO

Non Conformance Reports (NCR's)	
Variations	
Comments	

Complied By: S. Ingoo Signature: Date: 29.03.2023



AUTHORISATION TO PROCEED – ASPHALT

Client: Ventia Job No.: 502Job Location: Tambourine Mountain Rd Tambourine Date: 26/3/23Lot Description: Asphalt Pavement Repairs Lot No.: VE-AC-26/C3/23

All underlying and adjacent lots affected by this lot, are conforming. The Daily Lot Conformance reports for any underlying and adjacent lots are submitted and all items have been inspected in accordance with the Quality/Inspection & Test Plan.

Lot Numbers:

VE	AC	26	C3	23
----	----	----	----	----

Name: NR Signature: NR Date: 26/3/23
(RPQ Contract Quality Representative)

Comments: Pavement failure repairs profiling at 100mm replacing with 100mm AC20/C320

Spray CRS Emulsion on base and joins

Indicative Conformance Report

Where multiple layers of asphalt are placed during one day's construction, RPQ acknowledges that some test results may not be available for confirmation of conformance due to time constraints and accepts risk of the lot, and subsequent underlying lots, being rejected if the underlying work subsequently fails to comply with the stated requirements.

Name: NR Signature: NR Date: 26/3/23
(RPQ Contract Quality Representative)

Client Response

The following requires attention:

Release of the Hold Point described above is hereby granted. Work on this lot may proceed.

Name: NR Signature: NR Date: 26/3/23
(Client Representative)

White (Supervisor)

Yellow (Client on request)

Blue (Remains in Book)

F8.1.2.1 1A – 1A

Uncontrolled when printed or copied

Page 1 of 1





AGREED QUANTITY RECORD



Client: Ventia Job No.: 502
 Job Location: Tambourine Mountain Rd Tambourine Date: 26/3/23
 Lot Description: Asphalt Pavement Repairs Lot No.: VE-AC-26/03/23
 Start Chainage: n/a End Chainage: n/a

Item No.	Description	Quantities				
		Area (m ²)	Application Rate (L/m ² , m ² /m ³ , mm)	Quantity (T or L)		
				Delivered to Site	Deductions	Claimed
Asphalt	AC20/320	224.6m ²	100mm	54.4t	0t	53.94t
	AC20/320	2.5m ²	60mm			.46t
Emulsion	Crs		.3L			68L
Profiling	1m	224.6m ²	100mm			22.46m ³
		2.5m ²	60mm			.15m ³
Temp Stick n Stomps						14

Comments:

Quantities Agreed By:

Name: NR Signature: NR Date: 26/3/23
 (RPQ Contract Quality Representative)
 Name: NR Signature: NR Date: 26/3/23
 (Client Representative)

White (Supervisor)

Yellow (Client on request)

Blue (Remains in book)



ASPHALT SUMMARY REPORT



Client:	RPQ Spray Seal Ph. (07) 3294 4555	Mix type:	AC20H/22/5037	Report no.:	IR230326-1
Job number:	25307/502	Mixing plant:	Swanbank	Date laid:	26/03/2023
Location:	Tamborine Mtn Rd, Tamborine	Binder type:	C320	Date issued:	26/03/2023
Standard/Specification:	MRTS30 / MRS30	Comments:			

Lot number	RPQSS-AC-26/03/23				
Laboratory sample number:	IA230326-1				
Docket number:	103202				
Progressive total (tonnes):	44.14				
Date sampled:	26/03/2023				AC20H/22/5037
Time sampled:	8:47 PM				Approved
Date tested:	26/03/2023				Job Mix Limits

Sample temperature (°C)	173				C.Binder 145 - 175 °C
Maximum density (t/m³)	2.467				PMB 145 -185°C
Average maximum density (t/m³)	2.467				TBR
Binder content (%)	5.10				2.415 - 2.485 t/m3
Compacted density (t/m³)	2.362				4.70 % - 5.30 %
Water absorption (%)	0.9				TBR
Air voids (%)	4.3				Max. 2.0%
Particle coating (%)	N/A				3.0% - 6.5%
Moisture content of asphalt (%)	N/A				Min. 99 %
					Max. 0.5%

AS Sieve 37.50 mm % Passing	100				100
26.50 mm	100				100
19.00 mm	98				91-100
13.20 mm	85				75-89
9.50 mm	73				61-75
6.70 mm	57				45-59
4.75 mm	44				34-48
2.36 mm	31				27-37
1.18 mm	23				17-27
0.600 mm	19				14-22
0.300 mm	13				9-17
0.150 mm	6.2				4.1-9.1
0.075 mm	4.8				3.5-6.5

Test Methods Used: (/) AS2891.1.1 Sampling & Preparation of Asphalt
(/) Q305 Marshall Stability & Flow of Asphalt Section 5
(/) AS2891.9.2 Compacted Density of Asphalt (Presaturation)
(/) AS2891.7.1 Maximum Density of Asphalt by Water Displacement
(/) AS2891.3.1 Bitumen Content and Aggregate Grading of Asphalt
(/) AS2891.11 Particle Coating of Asphalt
(/) Q311 Void Calculations of Compacted Asphalt
(/) RMS T660 Moisture Content of Asphalt

Comments: NR [redacted] represents a combined production lot over multiple locations

Checked by: NR [redacted] Snr Laboratory Technician

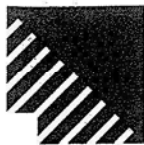
DATE: 26/03/2023

NATA Signatory: [redacted] Simon Thorogood - Laboratory Supervisor

DATE: 28/03/2023



NATA Laboratory Accreditation Number: 15731
Accredited for compliance with ISO/IEC 17025 – Testing
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TRICO ASPHALT PTY LTD

ABN: 47 140 432 015

206-258 SWANBANK RD
SWANBANK QLD 4306

P: 07 3294 4555

www.rpq.com.au

DATE: 3/26/2023

TICKET NO.: 103207

RPQ

CUSTOMER: RPQ SPRAY SEAL

TIME:

STREET: TAMBORINE MTN RD

DISTANCE: UHF 13

SUBURB: MT TAMBORINE

TRUCK: XD80ZK

HH

MATERIAL: AC20-320

MIX TEMP: 172

JOB CODE:

LOADS DELIVERED 3

Progressive Totals: 54.40 tonnes

NR

D

D

* GROSS 21.12 tonnes *
* *
* TARE 10.86 tonnes *
* *
* NET 10.26 tonnes *

WAITING TIME SUMMARY

PLANT IN TIME:

PLANT OUT TIME:

11:16:32 PM

SITE IN TIME:

SITE OUT TIME:

SIGNATURE

NR



TRICO ASPHALT PTY LTD

ABN: 47 140 432 015

206-258 SWANBANK RD
SWANBANK QLD 4306

P: 07 3294 4555

www.rpq.com.au

DATE: 3/26/2023

TICKET NO.: 103202

RPQ

CUSTOMER: RPQ SPRAY SEAL

TIME:

STREET: TAMBORINE MTN RD

DISTANCE: UHF 13

SUBURB: MT TAMBORINE

TRUCK: XD29WR

HH

MATERIAL: AC20-320

MIX TEMP: 173

JOB CODE:

LOADS DELIVERED 2

Progressive Totals: 44.14 tonnes

NR

Dispatch

Driver: DB

* GROSS 31.00 tonnes *
* *
* TARE 12.74 tonnes *
* *
* NET 18.26 tonnes *

WAITING TIME SUMMARY

PLANT IN TIME:

PLANT OUT TIME:

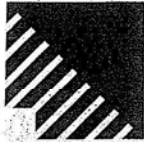
9:47:16 PM

SITE IN TIME:

SITE OUT TIME:

SIGNATURE

NR



TRICO ASPHALT PTY LTD
 ABN: 47 140 432 015
 206-258 SWANBANK RD
 SWANBANK QLD 4306

RPQ

P: 07 3294 4555
 www.rpq.com.au

CUSTOMER: RPQ SPRAY SEAL

STREET: TAMBORINE MTN RD

SUBURB: MT TAMBORINE
 HH

MATERIAL: AC20-30A

JOB CODE:

LOADS DELIVERED 1

DATE: 7/26/2023

TICKET NO.: 103201

TIME:

DISTANCE: 100F 13

TRUCK: 2P3WGA

WTS TEMP: 174

Progressive Totals 25.88 tonnes

NR

 GROSS 42.48 tonnes *
 TARE 16.60 tonnes *
 NET 25.88 tonnes *

Dispatch:

NR

WAITING TIME SUMMARY

PLANT IN TIME:

PLANT OUT TIME:

SITE IN TIME:

SITE OUT TIME:

NR



CONFORMANCE REPORT SPRAY SEALING



Lot Summary

CLIENT: Ventia Pty Ltd JOB No.: 1017 JOB DATE: 11/04/2023
LOCATION: Tamborine Mountain Rd
SEGMENT: CHAINAGE START: 5.478 FINISH: 5.79
DESCRIPTION OF WORK: S45R

APPLICABLE	DOCUMENT TITLE	ATTACHED
YES	Bitumen Sprayer Certificate	YES
YES	Product Test Reports	YES
NO	Ball Penetration Test	NO
YES	Authorisation To Proceed	YES
YES	Quantity Agreement – Spray Seal	YES
YES	Site Assessment & Induction	YES
YES	Spray Sheet	YES
NO	Field Spread Rate of Cover Aggregate	NO
NO	Loose Aggregate & Signage Removal	NO
NO	Nonconformance Report/s (NCR/s)	NO

Non Conformance Reports (NCR's)	
Variations	
Comments	Verbal ATP

Authorised By: NR Signature: Date: 17/04/2023

Lot Conformance Report

LOT INFORMATION

CLIENT: Ventia Pty Ltd

LOT NUMBER: VE-SS-11042023

JOB NUMBER: 1017

DATE: 11/04/2023

JOB LOCATION: Tamborine Mountain Rd

CONFORMANCE INFORMATION

Authorisation To Proceed signed: ☒ YES ☐ NO

Job Details On Spray Sheet No.: 42748

Relevant Specification: MRTS-11-JUL-2019

Product Sprayed: S45R

Road Temperatures. Min. Required: 20 °C

Actual Road Temperature: 29 °C

Allowable Bitumen Temperature: 180 °C to 200 °C

Actual Bitumen Temperature: 200 °C

Spray Rate Tolerance: + / - 5 %

Spread Rate Tolerance: + / - 10 %

Job No.	Control Line	From Chainage	To Chainage	Spray Rate	Area	Litres	Stone Size	Spread Rate
1		5.478	5.79	1.62	1186	1926	14	1/105
2		5.478	5.79	0.79	1096	876	7	1/230
3		5.478	5.79	1.64	1248	2057	14	1/105
4		5.478	5.79	0.81	1346	1095	7	1/230
5								
6								
Total					4876	5954		

Aggregate Quantity Used:	23.2 m3 of 14 mm	10.7 m3 of 7 mm
Additive Rate:	2 % = 60 Litres	Cutter Rate: % = 29 Litres
Bituminous Certificate:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Report No.: 235182
Aggregate Certificate:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Report No.: 22S61101J & 22P70701F
Sprayer Certificate:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	Report No.: QSC1029
NCR as a result of this lot:	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Report No.: -

Comments:

LOT CONFORMANCE

This Lot is: ☒ Conforming ☐ Nonconforming ☐ Conformance Guaranteed

RPQ's Representative: NR

Date: 17/04/2023



AUTHORISATION TO PROCEED – SPRAY SEAL



LOT INFORMATION

CLIENT: Ventia LOT NUMBER: 1
 JOB NUMBER: 1017 DATE: 11/4/2023
 JOB LOCATION: Tamborine mountain road

JOB INFORMATION

RELEVANT SPECIFICATION: _____

Job No:	Control Line	From Chainage	To Chainage	Bituminous Product	Spray Rate l/m ²	Aggregate Used	Spread Rate m ² /m ²
1	Main	5.478	5.790	S45R	1.6	14mm	1/105
2	Main	5.778	5.790	S45R	0.8	7mm	1/230
3							
4							

Hold Point	Clause	Hold Point Description	Hold Point	Clause	Hold Point Description

Released By: _____ Date: _____

Witness Point	Clause	Witness Point Description	Witness Point	Clause	Witness Point Description

Witnessed By: NR Date: 11/4/2023Underlying Lot: Seal Surface Swept: ☒ YES ☐ NOWorks / Surface Visually Inspected: ☒ YES ☐ NO By RPO: ☒ By Client: ☒Precoated Aggregate Free of Excess Surface Moisture: ☒ Yes ☐ No Grit Cover Required: ☐ YES ☐ NOComments: 0.5% additive in both coats, 1% cutter in both coats

We, the Client, confirm that the underlying lot as described above, conforms to the specification and we authorise RPO Spray Seal Pty Ltd to proceed with its works, as described.

Verbal OK: ☒

Superintendent's Representative: _____ Date: _____

Client's Representative: Verbal ok to spray, Date: 11/4/2023RPO's Representative: NR Date: 11/4/2023



QUANTITY AGREEMENT – SPRAY SEAL



LOT INFORMATION

Client: Ventia Lot Number: 1

Job Number: 1017 Date Laid: 11/4/2023

Job Location: Tamborine mountain road

LOCATION MAP

SCHEDULED ITEMS

Item Number	Description	Total Quantity	Item Number	Description	Total Quantity
1	Area	4876m2			
2	S45R	5954lts			
3	14mm	23.2m3			
4	7mm	10.7m3			
5	Cutter@1%	60lts			
6	Additive@0.5%	29lts			

Clients Representative: _____ Date: _____

(Name)

(Signature)

NR

RFO Representative: _____

(Name)

(Signature)

Date: 11/4/2023

White (Supervisor)

Yellow (Client on request)

Blue (Remains in bank)

F 8.1.2.2 1D – 18

Uncontrolled when printed or copied

Page 1 of 1





SITE ASSESSMENT & INDUCTION

Workplace Address: Tamborine mountain roadClient: VentiaYour Name: NRDate: 11/4/2023Activity: ☐ Asphalt/Foam Bitumen Laying ☒ Spray Sealing ☒ Crack Sealing ☐ Profiling ☐ Traffic Control

SITE ASSESSMENT

SITE SPECIFIC HAZARDS <input checked="" type="checkbox"/> = Applicable <input type="checkbox"/> = Not Applicable	CONTROL MEASURES <input checked="" type="checkbox"/> = Applicable <input type="checkbox"/> = Not Applicable
<input checked="" type="checkbox"/> Communicable diseases (e.g. COVID-19)	<input checked="" type="checkbox"/> You are instructed NOT TO COME TO WORK if you have any cold/flu symptoms. <input checked="" type="checkbox"/> Social distancing and good hygiene practices are to be maintained at all times. <input checked="" type="checkbox"/> You must IMMEDIATELY REPORT any illness to the RPQ Supervisor/Foreman. <input checked="" type="checkbox"/> Visitors to RPQ/NSWSS construction worksites are asked to wear a face mask.
<input checked="" type="checkbox"/> Fire Ant restricted areas (Qld Only)	<input checked="" type="checkbox"/> Conduct site inspection & immediately report any Fire Ant find. Phone 13 25 23. <input checked="" type="checkbox"/> Excavated spoil must not be moved out of a Fire Ant Restricted Area.
<input checked="" type="checkbox"/> Site congestion Working with or adjacent to other workers <input checked="" type="checkbox"/> Times of reduced visibility	<input checked="" type="checkbox"/> Communicate the location of other construction activities on site and designated paths to be taken to avoid interaction with others. <input type="checkbox"/> Lighting devices installed at appropriate locations. <input checked="" type="checkbox"/> Retro reflective clothing must be worn.
<input checked="" type="checkbox"/> Public pedestrian traffic Consider nearby schools, parks, shops etc. <input type="checkbox"/> Open pits or ditches <input checked="" type="checkbox"/> Obstacles	<input checked="" type="checkbox"/> Public pedestrian access around site is to be controlled. Work area is designated with devices and/or signage as appropriate to restrict public access. <input type="checkbox"/> Open pits, ditches and/or obstacles appropriately, barricaded or fenced. <input type="checkbox"/> Open pits or ditches appropriately filled or covered.
<input checked="" type="checkbox"/> At risk overhead obstructions Including powerlines, trees, signs, etc.	<input type="checkbox"/> Place yellow cones indicating locations of at risk overhead obstructions. <input checked="" type="checkbox"/> Discuss the locations of at risk overhead obstructions. <input checked="" type="checkbox"/> Qualified Electrical Safety Spotter appointed as required.
<input checked="" type="checkbox"/> Blind corners or crests causing diminished view of worksite	<input checked="" type="checkbox"/> Traffic signs & devices installed in accordance with the Traffic Guidance Scheme. <input checked="" type="checkbox"/> Advance warning signs at appropriate distance on approach to site. <input checked="" type="checkbox"/> Vehicles entering site and re-entering the travelled path is controlled.
<input checked="" type="checkbox"/> Steep grades <input checked="" type="checkbox"/> Steep drop offs <input checked="" type="checkbox"/> Soft verges	<input checked="" type="checkbox"/> Only experienced qualified operators on mobile plant. <input checked="" type="checkbox"/> Travel in a forwards direction where possible. <input type="checkbox"/> Barricades and/or fencing adjacent to steep drop offs. <input checked="" type="checkbox"/> Maintain a <u>1.5</u> m clearance from steep drop offs/soft verges at all times.
<input checked="" type="checkbox"/> Live traffic	<input checked="" type="checkbox"/> Maintain a <u>1.5</u> m clearance from live traffic at all times. Note: Where clearance is less than 1.2 m, the speed limit must be reduced to 40 km/h
<input checked="" type="checkbox"/> Heat Stress Management <i>RPQ Heat Stress Management work instruction should be implemented in hot conditions. Mandatory in temps. > 35°C</i>	<input checked="" type="checkbox"/> Drink at least 150-200ml of cool fluids every 15 to 20 minutes. <input checked="" type="checkbox"/> Rotate tasks as necessary. On days of high heat, and/or at the discretion of the Supervisor/Foreman/Manager, rotate tasks at least every 2 hours. <input checked="" type="checkbox"/> Take short breaks as necessary, & immediately report any heat stress symptoms.

SITE SPECIFIC HAZARDS	CONTROL MEASURES

NOTES

TRAFFIC CONTROL INSPECTION RPQ/NSWSS Supervisor/Foreman (qualified person) shall ensure traffic control signs & devices are:

- Erected in accordance with the Traffic Guidance Scheme/Traffic Control Plan before work starts.
- Reviewed when changes are made to sign arrangements.
- Appropriate for after-hours (where required), prior to leaving site.

Full Name (Print)	Comments	Time	Signature



New Form (43)

Done



FIELD SPREAD RATE OF COVER AGGREGATE



CLIENT: Ventia JOB No.: 1017 DATE: 11/4/2023
 LOCATION: Tamborine mountain road TEST No.: 1-4
 SEGMENT: 14mm,7mm CHAINAGE START: 5.478 FINISH: 5.790

Truck Registration	Loc L, R, C	Agg Size (mm)	Bag Area (m ²)	Mass Mat (kg)	Mass Mat + Agg (kg)	Mass Agg (kg)	Spread (kg/m ²)	DL m	Result (m ² /m ³)	Target (m ² /m ³)
Example	L	14mm	1.05	1.3	13.8	12.5	11.9	1.5	120	
G107	L	14	1	0.5	14.4	13.9	13.9	1.460	1/105	1/105
G62	L	14	1	0.5	14.4	13.9	13.9	1.460	1/105	1/105
G107	L	7	1	0.5	6.8	6.3	6.3	1.460	1/230	1/230
G62	L	7	1	0.5	6.8	6.3	6.3	1.460	1/230	1/230

CALCULATIONS: $m3 = m2 - m1$ Test Methods: Austroads - AG/PT/T537
 $R1 = m3/A$ NSW RMS - T274
 $R2 = 1000 \times DL/R1$

COMMENTS: Mat test preforemed at stockpile site

Tested By: NR Signature: NR Date: 11/4/2023



Puma Bitumen Bulwer Island Terminal
398 Tingira Street, Pinkenba
Queensland 4008 Australia

PO Box 202
Pinkenba
Queensland 4008 Australia

Email
NR @pumaenergy.com
@pumaenergy.com

Telephone
NR

Laboratory Test Report

Page 1 of 1

Product Name	: Bitumen Class 170	Report Number	: 23/23028
Product Grade	: Class 170	Date Reported	: 11-Apr-2023
Batch Number	: 23-5182	Testing Laboratory	: Bulwer Laboratory
Sample Number	: 48308	Specification Quoted	: AS2008
Sample Date	: 11-Apr-2023 4:20	Customer / Originator	: Puma Bitumen Bulwer Island Terminal
Sampled From	: BL3130		: 392 Tingira Street Pinkenba
Sample Remarks	:		: Queensland 4008

SAMPLE RESULTS

Analysis	Method	Units	Results	Specification Limits	
				Min	Max
Dynamic Viscosity at 60°C					
Dynamic Viscosity @ 60°C	AS/NZS 2341.2	Pa s	184	140	200
Penetration at 25°C					
Penetration @ 25°C (100g, 5s)	AS 2341.12	pu	63	62	
Dynamic Viscosity at 135°C					
Dynamic Viscosity @ 135°C	AS/NZS 2341.2	Pa s	0.397	0.25	0.45
Dynamic Viscosity at 60°C after RTFO Treatment					
Dynamic Viscosity @ 60°C after RTFO	AS/NZS 2341.2	Pa s	384		
Short Term Effect of Heat & Air					
% Change in Viscosity @ 60°C after RTFO	AS/NZS 2341.10	%	209		300.0

SAMPLE COMMENTS

All tests have been performed in accordance with the latest revision of the test methods indicated. This report relates specifically to the sample as received.
All testing was performed between the sample date and date reported.
The Limit of Uncertainty on all tests is the reproducibility of the published test method.
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NR

NR
(Approved Signatory)



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NATA Accreditation No. 19832; Site No. 23821

Puma Energy (Australia) Bitumen Pty Ltd
ABN 78 147 981 020



KARREMAN QUARRIES

PTY LTD-ATF Karreman Quarries Trust - ABN 42 482 600 638

• Aggregate • Road Base • River Sand • Fill •

PHONE: (07) 3206 6311 FACSIMILE: (07) 3206 6136

P.O. BOX 716, CLEVELAND QLD 4163

CERTIFICATION OF PRECOAT

This document is to certify the date in which the aggregate was precoated

Date: 20/02/2023

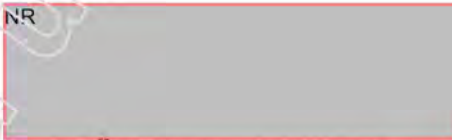
Material: 14mm Aggregate

Lot Number: 22S61101J

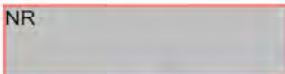
Precoat Agent Used: Bituminous Products – Supa DS

Batch 10

NR



NR



Laboratory Manager



KARREMAN QUARRIES

PTY LTD-ATF Karreman Quarries Trust - ABN 42 482 600 638

• Aggregate • Road Base • River Sand • Fill •

PHONE: (07) 3206 6311 FACSIMILE: (07) 3206 6136

P.O. BOX 716, CLEVELAND QLD 4163

Aggregate Stripping Value

Client:	Karreman Quarries	Report Number:	Q-SV-331
Job Number	Aggregate Stripping	Report Date:	20/02/23
Project:	Quality Control	Order Number:	
Location:	Sinnamons Lane, Harlin, QLD	Test Method:	Q212B

Lab No:	TQ-5943		
Date Sampled:	20/02/23		
Date Tested:	20/02/23		
For Use As:	14mm Precoat		
Sample method:	AS 1141.3.1 9.3		
Lot No:	22S61101J		
Binder:	C170		
Precoat Agent:	Bituminous Products – Supa DS		
Test condition:	As Received		
Stripping Value (%)	4		

Remarks: This material is coated.



Accredited for compliance with ISO IEC 17025 - Testing

APPROVED SIGNATORY

NR

NR

Laboratory Manager
NATA Accreditation Number
9874 – Mt Cotton

Material Test Report

Report Number: 14mm Precoat-69
Issue Number: 1
Date Issued: 28/02/2023
Client: Karreman Quarries Harlin (TMR Quarry Reference No. RQ271)
 Sinnamons Lane, Harlin Qld

Karreman Quarries Pty Ltd
 ABN: 60 010 168 742
 Harlin Laboratory
 145 Sinnamons Lane Harlin QLD 4314
 Phone: (07) 3206 6311
 Email: lab@karreman.com.au

Contact: NR
Project Number: 14mm Precoat
Project Name: Quality Control
Project Location: Sinnamons Lane, Harlin
Work Request: 641
Sample Number: H23-641A
Date Sampled: 20/02/2023
Dates Tested: 20/02/2023 - 20/02/2023
Sampling Method: Q060 8.2 - Single layer formed stockpile – loader back blading
Remarks: All Tested Product Coated Except H23-641B
Specification: 14mm Precoat
Lot No: 22S61101
Sub Lot No: J
Material: 14mm Precoat
Material Source: TQ/SSP/R1/R2/R3/R4/R5/R6/R7/R8



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NR

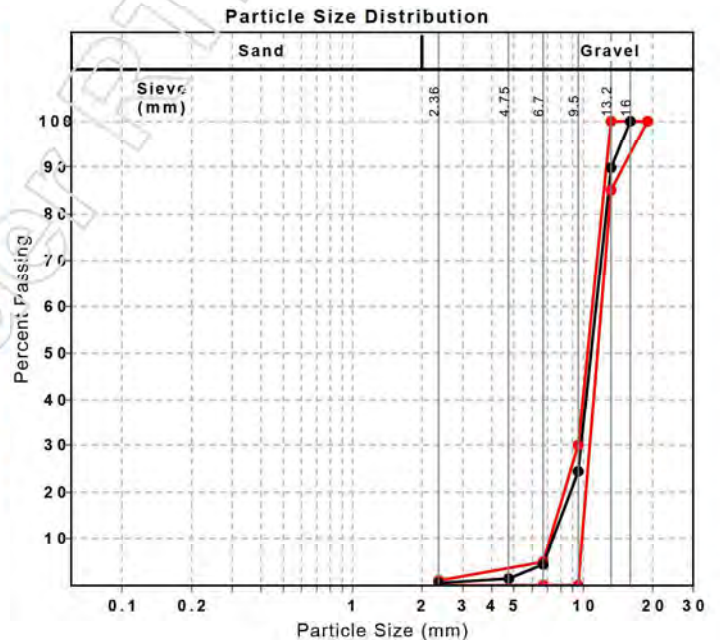
Approved Signatory: NR

Laboratory Manager

NATA Accredited Laboratory Number: 9874

MRTS 22 July 2020

Particle Size Distribution (AS1141.11.1)			
Sample Washing	Sample was Washed		
Sieve	Passed %	Passing Limits	
16 mm	100		
13.2 mm	90	85	100
9.5 mm	24	0	30
6.7 mm	4	0	5
4.75 mm	1		
2.36 mm	0	0	1
Flakiness Index (AS 1141.15)			
Flakiness Index	12	Min	Max
Average Least Dimension (AS 1141.20.3)			
Average Least Dimension (mm)	8.8	Min	Max
Degree of Aggregate Precoating (Q216)			
Degree of Aggregate Precoating (%)	95	70	



Material Test Report

Report Number: 14mm Precoat-69
Issue Number: 1
Date Issued: 28/02/2023
Client: Karreman Quarries Harlin (TMR Quarry Reference No. RQ271)
Sinnamons Lane, Harlin Qld

Karreman Quarries Pty Ltd
ABN: 60 010 168 742
Harlin Laboratory
145 Sinnamons Lane Harlin QLD 4314
Phone: (07) 3206 6311
Email: lab@karreman.com.au

Contact: NR
Project Number: 14mm Precoat
Project Name: Quality Control
Project Location: Sinnamons Lane, Harlin
Work Request: 641
Sample Number: H23-641B
Date Sampled: 20/02/2023
Dates Tested: 21/02/2023 - 21/02/2023
Sampling Method: Q060 8.2 - Single layer formed stockpile – loader back blading
Remarks: All Tested Product Coated Except H23-641B
Specification: 14mm Precoat
Lot No: 22S61101
Sub Lot No: J
Material: 14mm Precoat
Material Source: TQ/SSP/R1/R2/R3/R4/R5/R6/R7/R8

MRTS 22 July 2020

Weak Particles (AS 1141.32)		Min	Max
Material Passing 2.36mm Sieve (%)	2.0		
Weak Particles (including clay lumps, soft & friable particles) (%)	0.2		1



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NR

Approved Signatory: NR

Laboratory Manager

NATA Accredited Laboratory Number: 9874

Material Test Report

Report Number: 14mm Precoat-59
Issue Number: 1
Date Issued: 09/11/2022
Client: Karreman Quarries Harlin
 Sinnamons Lane, Harlin Qld

Karreman Quarries Pty Ltd
 ABN: 60 010 168 742
 Mount Cotton Laboratory
 616 - 632 West Mt Cotton Road Sheldon QLD 4157
 Phone: (07) 3206 6311
 Email: lab@karreman.com.au

Contact: NR
Project Number: 14mm Precoat
Project Name: Quality Control
Project Location: Sinnamons Lane, Harlin
Work Request: 2934
Sample Number: C22-2934A
Date Sampled: 01/11/2022
Dates Tested: 02/11/2022 - 02/11/2022
Sampling Method: AS 1141.3.1 9.3 - Sampling aided by power equipment - with backblading
Specification: 14mm Precoat
Lot No: 22S61101
Material: 14mm Precoat
Material Source: TQ/SSP/R1/R2/R3/R4/R5/R6/R7/R8



Accredited for compliance with ISO/IEC 17025 - Testing

NR

Approved Signatory: NR
 Laboratory Manager

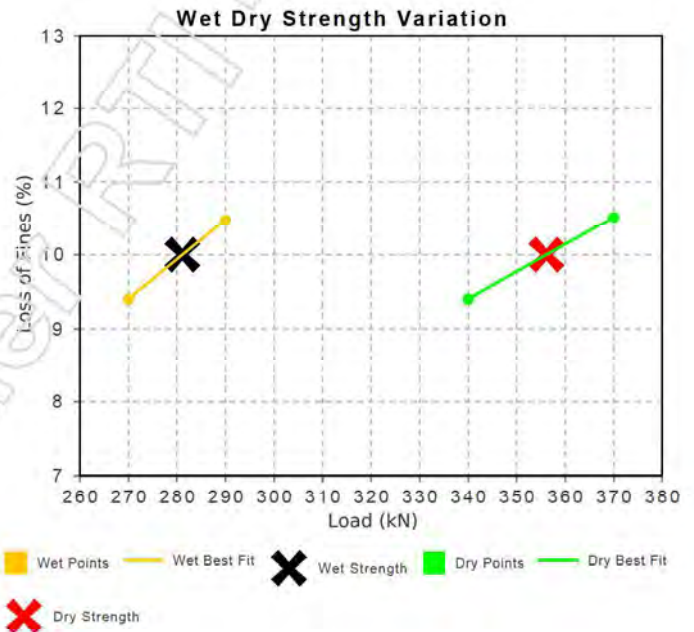
NATA Accredited Laboratory Number: 9874

MRTS 22 July 2020

Wet / Dry Strength Variation (AS 1141.22)		Min	Max
Dry Strength (kN)	356		
Wet Strength (kN)	281	175	
Variation (%)	21		35
Nominal Size of Aggregate (mm)	14.0		
Fraction Tested (mm)	-13.2mm +9.5mm		
Test Cylinder Size (mm)	150		
Breakdown	0		
Nature of Bulk Sample	Crushed Rock		
Duplicate Testing Performed ?	No		

Density and Water Absorption of Coarse Aggregate (AS 1141.6.1)		Min	Max
Apparent Particle Density (t/m ³)	2.70		
Particle Density Dry (t/m ³)	2.62		
Particle Density SSD (t/m ³)	2.65		
Water Absorption (%)	1.3		

Degradation Factor (AS1141.25.2)		Min	Max
Degradation Factor (D _c)	72	45	
Wash Water Clear	Y		





KARREMAN QUARRIES

PTY LTD-ATF Karreman Quarries Trust - ABN 42 482 600 638

• Aggregate • Road Base • River Sand • Fill •

PHONE: (07) 3206 6311 FACSIMILE: (07) 3206 6136

P.O. BOX 716, CLEVELAND QLD 4163

CERTIFICATION OF PRECOAT

This document is to certify the date in which the aggregate was precoated

Date: 13/02/2023

Material: 7mm Aggregate

Lot Number: 22P70701F

Precoat Agent Used: Bituminous Products – Supa DS

Batch 6

NR

NR

Laboratory Manager



KARREMAN QUARRIES

PTY LTD-ATF Karreman Quarries Trust - ABN 42 482 600 638

• Aggregate • Road Base • River Sand • Fill •


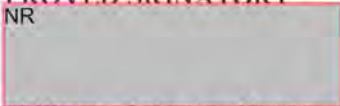
PHONE: (07) 3206 6311 FACSIMILE: (07) 3206 6136

P.O. BOX 716, CLEVELAND QLD 4163

Aggregate Stripping Value

Client:	Karreman Quarries	Report Number:	Q-SV-329
Job Number	Aggregate Stripping	Report Date:	13/02/23
Project:	Quality Control	Order Number:	
Location:	Sinnamons Lane, Harlin, QLD	Test Method:	Q212B

Lab No:	TQ-5935			
Date Sampled:	13/02/23			
Date Tested:	13/02/23			
For Use As:	7mm Precoat			
Sample method:	AS 1141.3.1 9.3			
Lot No:	22P70701F			
Binder:	C170			
Precoat Agent:	Bituminous Products – Supa DS			
Test condition:	As Received			
Stripping Value (%)	3			
Remarks: This material is coated.				

 Accredited for compliance with ISO IEC 17025 - Testing	APPROVED SIGNATORY NR  Jack Warnar – Laboratory Manager NATA Accreditation Number 9874 – Mt Cotton
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Material Test Report

Report Number: 7mm Precoat-38
Issue Number: 1
Date Issued: 22/02/2023
Client: Karreman Quarries Harlin (TMR Quarry Reference No. RQ271)
Sinnamons Lane, Harlin Qld

Karreman Quarries Pty Ltd
ABN: 60 010 168 742
Harlin Laboratory
145 Sinnamons Lane Harlin QLD 4314
Phone: (07) 3206 6311
Email: lab@karreman.com.au

Contact: NR
Project Number: 7mm Precoat
Project Name: Quality Control
Project Location: Sinnamons Lane, Harlin
Work Request: 634
Sample Number: H23-634A
Date Sampled: 13/02/2023
Dates Tested: 13/02/2023 - 13/02/2023
Sampling Method: Q060 8.2 - Single layer formed stockpile – loader back blading
Remarks: All Tested Product Coated Except H23-634B
Specification: 7mm Precoat
Lot No: 22P70701
Sub Lot No: F
Material: 7mm Precoat
Material Source: TQ/SSP

MRTS 22 July 2020

Particle Size Distribution (AS1141.11.1)			
Sample Washing		Sample was Washed	
Sieve	Passed %	Passing Limits	
9.5 mm	100	100	100
6.7 mm	91	85	100
4.75 mm	26	0	30
2.36 mm	1	0	10
Flakiness Index (AS 1141.15)			
Flakiness Index		Min	Max
21			
Average Least Dimension (AS 1141.20.3)			
Average Least Dimension (mm)		Min	Max
4.0			
Degree of Aggregate Precoating (Q216)			
Degree of Aggregate Precoating (%)		Min	Max
93		70	

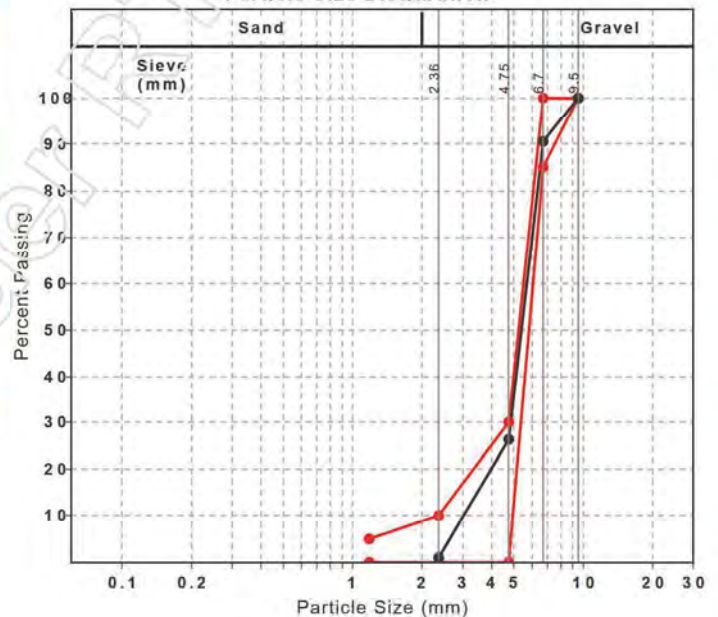


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NR

Approved Signatory: NR
Laboratory Manager
NATA Accredited Laboratory Number: 9874

Particle Size Distribution



Material Test Report

Report Number: 7mm Precoat-38
Issue Number: 1
Date Issued: 22/02/2023
Client: Karreman Quarries Harlin (TMR Quarry Reference No. RQ271)
Sinnamons Lane, Harlin Qld
Contact: NR
Project Number: 7mm Precoat
Project Name: Quality Control
Project Location: Sinnamons Lane, Harlin
Work Request: 634
Sample Number: H23-634B
Date Sampled: 13/02/2023
Dates Tested: 13/02/2023 - 13/02/2023
Sampling Method: Q060 8.2 - Single layer formed stockpile – loader back blading
Remarks: All Tested Product Coated Except H23-634B
Specification: 7mm Precoat
Lot No: 22P70701
Sub Lot No: F
Material: 7mm Precoat
Material Source: TQ/SSP

MRTS 22 July 2020

Weak Particles (AS 1141.32)		Min	Max
Material Passing 2.36mm Sieve (%)	2.8		
Weak Particles (including clay lumps, soft & friable particles) (%)	0.4		1

Karreman Quarries Pty Ltd

ABN: 60 010 168 742

Harlin Laboratory

145 Sinnamons Lane Harlin QLD 4314

Phone: (07) 3206 6311

Email: lab@karreman.com.au

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NR

Approved Signatory:

NR

Laboratory Manager

NATA Accredited Laboratory Number: 9874

Material Test Report

Report Number: 7mm Precoat-33
Issue Number: 1
Date Issued: 26/09/2022
Client: Karreman Quarries Harlin
Sinnamons Lane, Harlin Qld

Karreman Quarries Pty Ltd
ABN: 60 010 168 742
Mount Cotton Laboratory
616 - 632 West Mt Cotton Road Sheldon QLD 4157
Phone: (07) 3206 6311
Email: lab@karreman.com.au

Contact: NR
Project Number: 7mm Precoat
Project Name: Quality Control
Project Location: Sinnamons Lane, Harlin
Work Request: 2731
Sample Number: C22-2731A
Date Sampled: 12/09/2022
Dates Tested: 13/09/2022 - 13/09/2022
Sampling Method: AS 1141.3.1 9.3 - Sampling aided by power equipment - with backblading
Specification: 7mm Precoat
Lot No: 22P70701
Material: 7mm Precoat
Material Source: TQ/SSP/R1/R2/R3/R4/R5/R6/R7/R8



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NR

Approved Signatory: NR
Laboratory Manager
NATA Accredited Laboratory Number: 9874

MRTS 22 July 2020

Density and Water Absorption of Coarse Aggregate (AS 1141.6.1)			
	Min	Max	
Apparent Particle Density (t/m ³)	2.72		
Particle Density Dry (t/m ³)	2.63		
Particle Density SSD (t/m ³)	2.66		
Water Absorption (%)	1.3		