From:

FLYNN, Keelin; Darryl Walker To:

Subject: Problem on northern motorway near Greville Road

Date: Tuesday, 1 December 2020 2:42:17 PM

#### HI Keelin and Darryl

We've just seen the footage of what may be a burst water main under the motorway and are





RELEASED UNDER THE OFFICIAL INFORMATION ACT 1982

 From:
 Keelin Flynn

 To:
 Darryl Walker

 Cc:
 Sara Goessi

 Subject:
 key points

Date: Tuesday, 1 December 2020 2:58:49 PM

Hi Darryl,

## Here you go:

- One lane north and one lane southbound has been closed between SH1 Upper Harbour Highway and Greville Road Interchange.
- The surface of the lanes have lifted causing a small bump near the median barrier, this was caused by a blockage in an area under the lanes near the Rosedale Road Bridge.
- The lanes will remain closed for the rest of the day
- Motorists are advised to avoid the area and use State Highway 18, 16 and the Western Ring Route
- Delays are expected in both directions in the evening peak
- The motorway lanes are expected to be closed tonight so that crews can fix the issue

I will work on some more messages when I get the info shortly.

Thanks, Keelin

Keelin Flynn/ Principal Advisor

Te Waka Kotuia Engagement and Partnerships

M + 64 = 89(2)(a)

E keelin.flynn@nzta.govt.nz/ w nzta.govt.nz

Waka Kotahi NZ Transport Agency **Auckland** / Level 5, AMP Tower, 29 Customs Street West

Private Bag 106602, Auckland 1143, New Zealand









From: <u>Darryl Walker</u>
To: <u>Darryl Walker</u>

Subject: Uneven road surface closes two lanes on Northern Motorway

Date: Tuesday, 1 December 2020 3:07:00 PM

Attachments: image002.png

image005.png image006.png image007.png image008.png image010.png image011.png image004.png image015.png

# **MEDIA RELEASE**



1 December 2020

## Uneven road surface closes two lanes on Northern Motorway

Waka Kotahi NZ Transport Agency advises motorists that the right hand lanes in each direction on the Northern Motorway (SH1) between Greville Road and Upper Harbour Highway are closed.

There are still two lanes open in each direction, but there is already congestion in the area ahead of the evening peak traffic period, says Waka Kotahi Auckland System Manager Andrea Williamson.

The lanes are closed because the road surface in the two righthand lanes has lifted, causing a significant speed bump for vehicles.

The lanes will remain closed for the rest of the day. Road crews will work tonight to investigate and repair the damage.

Drivers can expect delays on the journey home tonight and are advised to avoid the area if possible.

Waka Kotahi thanks motorists for their patience and understanding.

# Plan ahead for a safe, enjoyable journey. Keep up to date with:

COVID-19 services update: <u>nzta.govt.nz/COVID19</u>

Traffic updates: journeys.nzta.govt.nz/traffic

· Facebook Auckland: facebook.com/nztaakl

• Facebook Northland: facebook.com/nztanorthland

Twitter: twitter.com/WakaKotahiAkNth
 Journey planner: journeys.nzta.govt.nz
 Phone: 0800 4 HIGHWAYS (0800 44 44 49)

#### For more information please contact:

Darryl Walker Media Manager Waka Kotahi NZ Transport Agency

**T**: 09 969 9824 **M**: 021 374 334

E: Darryl.Walker@nzta.govt.nz

W: www.nzta.govt.nz



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From: <u>Darryl Walker</u>

To: Keelin Flynn; NTIS - National Travel Information Service; Andrea Williamson SDD

Subject: FW: Uneven road surface closes two lanes on Northern Motorway

Date: Tuesday, 1 December 2020 3:08:00 PM

Attachments: image002.png

image005.png image006.png image007.png image008.png image010.png image011.png image04.png image015.png

Hi Keelin

Note ATOC not advising WRR as an alternative route Cheers Darryl

From: Darryl Walker

Sent: Tuesday, 1 December 2020 3:07 PM

To: DARRYL WALKER <darryl.walker@nzta.govt.nz>

Subject: Uneven road surface closes two lanes on Northern Motorway

# **MEDIA RELEASE**

1 December 2020



# Uneven road surface closes two lanes on Northern Motorway

Waka Kotahi NZ Transport Agency advises motorists that the right hand lanes in each direction on the Northern Motorway (SH1) between Greville Road and Upper Harbour Highway are closed.

There are still two lanes open in each direction, but there is already congestion in the area ahead of the evening peak traffic period, says Waka Kotahi Auckland System Manager Andrea Williamson.

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• Phone: 0800 4 HIGHWAYS (0800 44 44 49)

#### For more information please contact:

Darryl Walker Media Manager Waka Kotahi NZ Transport Agency

T: 09 969 9824 M: 021 374 334

E: Darryl.Walker@nzta.govt.nz

W: www.nzta.govt.nz



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From: FLYNN, Keelin
To: Keelin Flynn

Subject: FW: Uneven road surface closes two lanes on Northern Motorway

Date: Tuesday, 15 December 2020 11:09:45 AM

Attachments: image002.png

image005.png image006.png image007.png image008.png image010.png image011.png image04.png image015.png

From: FLYNN, Keelin

**Sent:** Tuesday, 1 December 2020 3:24 PM **To:** FH NZ-Northern Corridor Construction Team

<FHNZNorthernCorridorConstructionTeam@fultonhogan.com>; FH NZ-Northern Corridor Internal Services

<FHNZNorthernCorridorInternalServices@fultonhogan.com>

Cc: 'Peter Spies' <Peter.Spies@nzta.govt.nz>; s9(2)(a) @wsp.com>/Richard Wade

<Richard.wade@nzta.govt.nz>; \$9(2)(a)
@fultonhogan.com>;

@heb.co.nz>; s9(2)(a) @jacobs.com>; Stephen Collett

<Stephen.Collett@nzta.govt.nz>

Subject: FW: Uneven road surface closes two lanes on Northern Motorway

Hi all,

Please see the following release below which details the current status of the road surface on the motorway lanes near SH1 Rosedale Road Bridge.

We are working to fix the issue now and it is likely that the lanes will remain closed tonight for this to take place.

You can also follow updates on www.facebook.com/nztaakl and twitter.com/WakaKotahiAkNth

Kind regards, Keelin

From: Darryl Walker

Sent: Tuesday, 1 December 2020 3:07 PM

To: DARRYL WALKER < darryl.walker@nzta.govt.nz>

Subject: Uneven road surface closes two lanes on Northern Motorway

# **MEDIA RELEASE**



1 December 2020

#### Uneven road surface closes two lanes on Northern Motorway

Waka Kotahi NZ Transport Agency advises motorists that the right hand lanes in each direction on the Northern Motorway (SH1) between Greville Road and Upper Harbour Highway are closed.

There are still two lanes open in each direction, but there is already congestion in the area

ahead of the evening peak traffic period, says Waka Kotahi Auckland System Manager Andrea Williamson.

The lanes are closed because the road surface in the two righthand lanes has lifted, causing a significant speed bump for vehicles.

The lanes will remain closed for the rest of the day. Road crews will work tonight to investigate and repair the damage.

Drivers can expect delays on the journey home tonight and are advised to avoid the area if possible.

Waka Kotahi thanks motorists for their patience and understanding.

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- . Facebook Northland: facebook.com/nztanorthland
- Twitter: twitter.com/WakaKotahiAkNth
   Journey planner: journeys.nzta.govt.nz
   Phone: 0800 4 HIGHWAYS (0800 44 44 49)

#### For more information please contact:

Darryl Walker Media Manager Waka Kotahi NZ Transport Agency

**T**: 09 969 9824 **M**: 021 374 334

E: Darryl.Walker@nzta.govt.nz

W: www.nzta.govt.nz



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<u>Contact</u>











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From: Stephen Collett

Simon Paton; Keelin Flynn To:

Subject: NCI Issue

Date: Tuesday, 1 December 2020 3:34:25 PM

Hi both

AKELEASED UNDER THE OFFICIAL NEW PROPERTY.

 From:
 Keelin Flynn

 To:
 Darryl Walker

 Cc:
 Sara Goessi

 Subject:
 update

Date: Tuesday, 1 December 2020 4:37:00 PM

Hi Darryl,

### Here you go:

- One southbound lane will open this afternoon giving three lanes citybound. One northbound remains closed.
- Delays are likely this evening and people should take alternative routes and use local roads as much as they can.
- All motorway lanes will be closed in both directions from 10pm tonight from SH1 Upper
  Harbour Highway to Greville Road Interchange. People can follow the detour via Paul
  Matthews Road, Bush Road and Albany Highway. They can look out for messages on overhead
  and roadside signs.
- All lanes are expected to open to traffic at 5am tomorrow.
- Crews are working to fix the issue tonight and equipment has arrived at the area.
- The repair will involve stripping the surface, removing the grout material and then paving with asphalt.

Thanks, Keelin

Keelin Flynn/ Principal Advisor

Te Waka Kotuia Engagement and Partnerships

M +s9(2)(a)

E keelin.flynn@nzta.govt.nz/ w nzta.govt.nz

Waka Kotahi NZ Transport Agency
Auckland / Level 5, AMP Tower 29 Customs Street West
Private Bag 106602, Auckland 1143, New Zealand







From:

To: Brett Gliddon; Steve Mutton; Stephen Collett; Simon Paton; Andrew Thackwray; Peter Spies; Sarah Azam;

**Connie Rowe** 

Subject: SH1 lanes undate

Date: Tuesday, 1 December 2020 4:57:00 PM

Hi all.

An update on the current status of the uneven surface issue on the SH1 motorway lanes Upper Harbour Highway to Greville Road:

- The issue was caused by NCI work this morning. This involved grouting material under the motorway which built up pressure and caused a lifting of the surface of the lanes near the median barrier. One north and one southbound lane was then closed.
- Crews are working to fix the issue tonight and equipment has arrived at the area.
- The repair will involve stripping the surface, removing the grout material and then paving with asphalt.
- One southbound lane will open this afternoon giving three lanes citybound. One northbound remains closed.
- Delays will continue this evening and people should take alternative routes as much as they
- All motorway lanes will be closed in both directions from 10pm tonight from SH1 Upper Harbour Highway to Greville Road Interchange. People can follow the detour via Paul Matthews Road, Bush Road and Albany Highway. They can look out for messages on overhead and roadside signs.
- All lanes are expected to open to traffic at 5am tomorrow.

We are working closely with ATOC and ASM. Darryl will issue a media release and social media update shortly.

Regards, Keelin

Keelin Flynn/ Principal Advisor

Te Waka Kotuia Engagement and Partnerships

E keelin.flynn@nzta.govt.nz/ w nzta.govt.nz

Waka Kotani NZ Transport Agency **Auckland** Level 5, AMP Tower, 29 Customs Street West

Private Bag 106602, Auckland 1143, New Zealand







From: <u>Darryl Walker</u>
To: <u>Darryl Walker</u>

Subject: Two lanes on Northern Motorway remain closed for overnight repair

Date: Tuesday, 1 December 2020 5:08:00 PM

Attachments: <u>image002.png</u>

image005.png image006.png image007.png image008.png image010.png image011.png image004.png image015.png

# MEDIA RELEASE



1 December 2020

# Two lanes on Northern Motorway remain closed for overnight repair

Waka Kotahi NZ Transport Agency advises motorists that the right hand lane in both directions on the Northern Motorway (SH1) between Greville Road and Upper Harbour Highway will remain closed for the rest of the day.

There are two lanes open in each direction but there's heavy congestion. Long delays are expected for the rest of the evening peak period and motorists are advised to avoid the motorway, using alternative routes and local roads where possible, says Waka Kotahi Auckland System Manager Andrea Williamson.

The lanes are closed because the road surface has lifted, causing a significant speed bump for vehicles. Road crews will make repairs overnight.

"Repairs cannot start immediately because of the amount of traffic on the motorway. We have to prioritise the safety of our crews who would be working alongside live motorway lanes."

Their investigation has found the uneven surface was caused by road construction crews working under the raised motorway section. They were pumping grouting material which became blocked and seeped out under the road surface, causing it to lift.

The repair will involve stripping the road surface, removing the grout material and then paving with asphalt.

All motorway lanes will be closed in both directions from 9pm tonight from SH1 Upper Harbour Highway to Greville Road Interchange. Motorists are advised to follow the posted detour signs.

All motorway lanes are expected to open to traffic at 5am tomorrow.

Waka Kotahi thanks motorists for their patience and understanding.

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- Facebook Northland: facebook.com/nztanorthland
- Twitter: <u>twitter.com/WakaKotahiAkNth</u>
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From: <u>Darryl Walker</u>
To: <u>Darryl Walker</u>

Subject: All lanes open on Northern Motorway after overnight repairs

Date: Wednesday, 2 December 2020 5:07:13 AM

Attachments: <u>image002.png</u>

image005.png image006.png image007.png image008.png image010.png image011.png image004.png image015.png

# **MEDIA RELEASE**



2 December 2020

# All lanes open on Northern Motorway after overnight repairs

Waka Kotahi NZ Transport Agency advises that all lanes on Auckland's Northern Motorway (SH1) are open this morning.

Road crews have carried out overnight repairs on the right hand lane in each direction between Greville Road and Upper Harbour Highway. The two lanes were closed yesterday afternoon after the road surface lifted, making a significant speed bump for vehicles.

The uneven surface was caused by road construction crews working under the raised motorway section. They were pumping grouting material which became blocked and seeped out under the road surface, causing it to lift.

The overnight repairs involved stripping the road surface, removing the grout material and then paying with asphalt.

Yesterday's lane closures caused significant congestion and delays for evening peak time motorists. Waka Kotahi thanks motorists for their patience and understanding.

#### Plan ahead for a safe, enjoyable journey. Keep up to date with:

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- Traffic updates: journeys.nzta.govt.nz/traffic
- Facebook Auckland: facebook.com/nztaakl
- Facebook Northland: facebook.com/nztanorthland
- Twitter: twitter.com/WakaKotahiAkNth
   Journey planner: journeys.nzta.govt.nz
- Phone: 0800 4 HIGHWAYS (0800 44 44 49)

#### For more information please contact:

Darryl Walker Media Manager Waka Kotahi NZ Transport Agency

**T**: 09 969 9824 **M**: 021 374 334

E: <u>Darryl.Walker@nzta.govt.nz</u>





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From: To:

FLYNN, Keelin Keelin Flynn FW: ATOC Situation Alerts #1 Road Surface Lifted Subject: Date: Tuesday, 15 December 2020 11:07:27 AM

Importance:

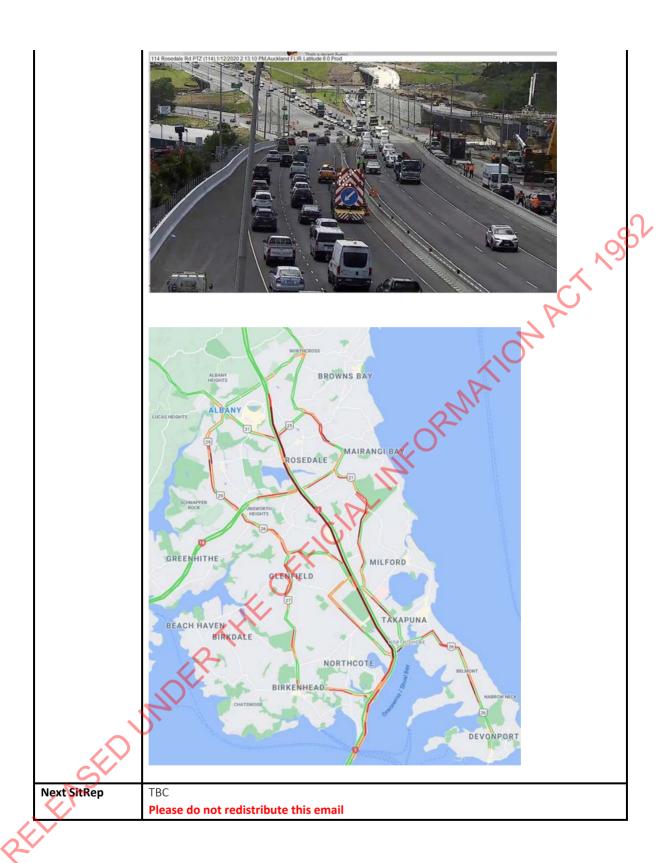
From: Claire Howard <Claire.Howard@jtoc.govt.nz>

Sent: Tuesday, 1 December 2020 3:33 PM

**Subject:** ATOC Situation Alerts #1 Road Surface Lifted

Importance: High

Event	Road Surface Lifted
Situation Alert #	1
Time & Date	December 1 <sup>st</sup> 2020
Unplanned	Time of event: Just before 14:00
Event:	
	Location:
	SH1 right lane north and southbound CLOSED between Upper Harbour and Greville
	Interchanges
	Details:
	A small part of the road has significantly lifted causing a raise in the road surface as per
	pictures below.  Engineers are currently at scene investigating the road surface and planning for next steps
	Engineers are currently at scene investigating the road surface and planning for next steps
	, CV
	Progression of event today:
	PM peak is likely to be significantly impacted for both north and southbound customers
	and on the local road network
	All customer messaging is being used including a media release
	Use of shoulder for general traffic
	Bus diversions being implemented
	Customers starting to use local road network and congestion is increasing
	Key strategic routes being optimised as much as possible
EASED	More to follow when known



Claire Howard
Manager - Real Time Operations
Auckland Transport Operations Centre (ATOC)
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From: To: Subject:

FLYNN\_Keelin Keelin Flynn FW: ATOC Situation Alerts #2 Road Surface Lifted Date: Tuesday, 15 December 2020 11:07:40 AM

Importance:

**From:** Claire Howard <Claire.Howard@jtoc.govt.nz> Sent: Tuesday, 1 December 2020 5:05 PM

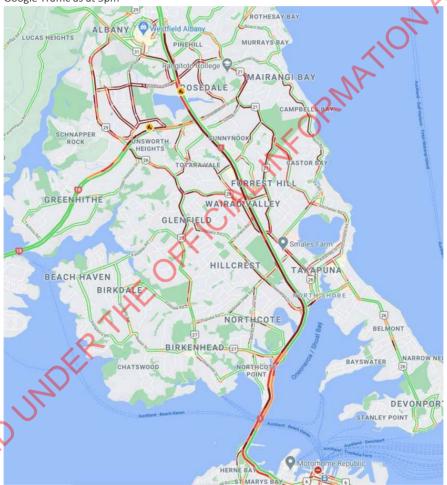
**Subject:** ATOC Situation Alerts #2 Road Surface Lifted

Importance: High

Event	Road Surface Lifted
Situation	2
Alert #	
Time & Date	December 1 <sup>st</sup> 2020
Unplanned	Time of event: Just before 14:00
Event:	
	Location:
	SH1 right lane north and southbound CLOSED between Upper Harbour and Greville Interchanges
	Details:
	A small part of the road has significantly lifted causing a rise in the road.
	Engineers are currently at scene investigating the road surface and planning for next steps
	Progression of event today:
	Current Update
	. All local strategic routes are being optimised to allow flow around key public transport routes and
	hubs
	. Southbound traffic back to the McClymonts Rd
	. Northbound traffic is back to St Marys Bay/Auckland Harbour Bridge
	. The fix will take place overnight when a full closure of SH1 in both directions from Greville and Upper Harbour will be required
	. At this stage the full closure will go in place between 9pm and 9:30pm
	. A plan currently being work on for bus diversions and customer communications
	. The aim is to have the repairs completed by AM peak tomorrow (Wednesday) morning
	. If this is not possible, the moving of the barrier, indicated by the arrow below, will provide 3 lanes southbound for AM peak
	. 2 lanes northbound will remain in place if works cannot be completed in time for AM peak
	Previous Update:
	PM peak is likely to be significantly impacted for both north and southbound customers and on the local
	road network
CX	All customer messaging is being used including a media release
	Use of shoulder for general traffic
	Bus diversions being implemented
	Customers starting to use local road network and congestion is increasing
	Key strategic routes being optimised as much as possible



Google Traffic as at 5pm





Next SitRep	TBC
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Claire Howard

Manager - Real Time Operations

Auckland Transport Operations Centre (ATOC)

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From: FLYNN Keelin
To: Keelin Flynn
Subject: FW: ATOC Situ

Subject: FW: ATOC Situation Alerts #3 Road Surface Lifted Date: Tuesday, 15 December 2020 11:08:29 AM

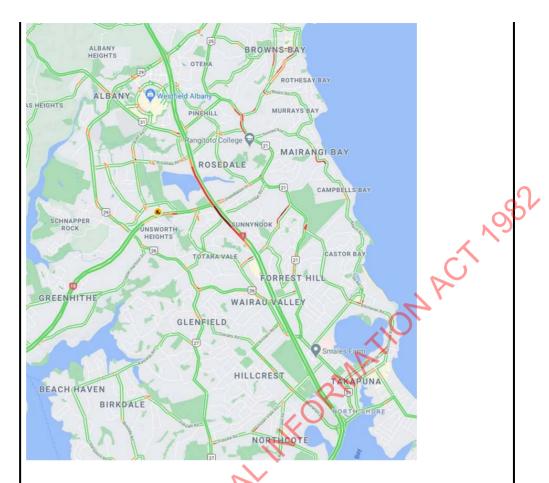
Importance: High

**From:** Claire Howard <Claire.Howard@jtoc.govt.nz> **Sent:** Tuesday, 1 December 2020 7:58 PM

**Subject:** ATOC Situation Alerts #3 Road Surface Lifted

Importance: High

Event	Road Surface Lifted
Situation Alert #	3
Time & Date	December 1 <sup>st</sup> 2020
Unplanned	Time of event: Just before 14:00
Event:	Lauretian.
	Location: SH1 right lane north and southbound CLOSED between Upper Harbour and Greville Interchanges
	3/11 hight rane north and 3outhboard e20325 between opper harboard and orevine interenanges
	Details:
	A part of the road has significantly lifted causing a rise in the road.
	Engineers are currently at scene investigating the road surface and planning for next steps
	Progression of event today:  Current Update
	. Congestion around the network has eased
	. Some delays remain on SH1 Northern motorway and surrounding network
	. Plans still on track for emergency full motorway closure tonight at approximately 9pm both
	directions between Upper Harbour and Greville Interchages
	. No further updates tonight unless significant changes
	. Next update Wednesday early morning
	Previous Update:  PM peak is likely to be significantly impacted for both north and southbound customers and on the local road
	network
	All customer messaging is being used including a media release
	Use of shoulder for general traffic
	Bus diversions being implemented Customers starting to use local road network and congestion is increasing
•	Key strategic routes being optimised as much as possible
	All local strategic routes are being optimised to allow flow around key public transport routes and hubs
	Southbound traffic back to the McClymonts Rd  Northbound traffic is back to St Marys Bay/Auckland Harbour Bridge
25	The fix will take place overnight when a full closure of SH1 in both directions from Greville and Upper Harbour will be
	required
	At this stage the full closure will go in place between 9pm and 9:30pm
	A plan currently being work on for bus diversions and customer communications The aim is to have the repairs completed by AM peak tomorrow (Wednesday) morning
	If this is not possible, the moving of the barrier, indicated by the arrow below, will provide 3 lanes southbound for
	AM peak
	2 lanes northbound will remain in place if works cannot be completed in time for AM peak
	Google traffic condition as at 7:55pm
	l ·





EASEL

Next SitRep

No further update tonight unless significant changes

Next update Wednesday early morning

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Claire Howard

Manager - Real Time Operations

Auckland Transport Operations Centre (ATOC)

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*f*------

 From:
 FLYNN Keelin

 To:
 Keelin Flynn

 Subject:
 FW: ATOC Situ

Subject: FW: ATOC Situation Alerts #4 Road Surface Lifted - FINAL

**Date:** Tuesday, 15 December 2020 11:08:29 AM

Importance: High

From: Claire Howard <Claire.Howard@jtoc.govt.nz>
Sent: Wednesday, 2 December 2020 5:18 AM

**Subject:** ATOC Situation Alerts #4 Road Surface Lifted - FINAL

Importance: High

Event	Road Surface Lifted
Situation Alert #	4 FINAL
Time & Date	December 2 <sup>nd</sup> 2020 05:15
Unplanned Event:	<b>Time of event:</b> Just before 14:00 1 <sup>st</sup> December 2020
	Location:
	SH1 right lane north and southbound CLOSED between Upper Harbour and Greville Interchanges
	Details:
	A part of the road has significantly lifted causing a rise in the road.
	Engineers are currently at scene investigating the road surface and planning for next steps
	Progression of event today:
	Current Update
	. Work progress well overnight and all lanes are now open in both directions between Upper Harbour and Greville
	. No further Situation Alerts
KASKID.	TORON.





#### **Previous Update:**

PM peak is likely to be significantly impacted for both north and southbound customers and on the local road network

All customer messaging is being used including a media release

Use of shoulder for general traffic

Bus diversions being implemented

Customers starting to use local road network and congestion is increasing

Key strategic routes being optimised as much as possible

All local strategic routes are being optimised to allow flow around key public transport routes and hubs

Southbound traffic back to the McClymonts Rd

Northbound traffic is back to St Marys Bay/Auckland Harbour Bridge

The fix will take place overnight when a full closure of SH1 in both directions from Greville and Upper Harbour will be required

At this stage the full closure will go in place between 9pm and 9:30pm

A plan currently being work on for bus diversions and customer communications

The aim is to have the repairs completed by AM peak tomorrow (Wednesday) morning

If this is not possible, the moving of the barrier, indicated by the arrow below, will provide 3 lanes southbound for AM peak

2 lanes northbound will remain in place if works cannot be completed in time for AM peak

Congestion around the network has eased

Some delays remain on SH1 Northern motorway and surrounding network  $\,$ 

Plans still on track for emergency full motorway closure tonight at approximately 9pm both directions between Upper Harbour and Greville Interchages

Next SitRep

No further updates

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ONACTORY

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3ELEASED

**Subject:** FW: Nightshift Handover - SH1 Uneven Surface Repairs 01/12/2020

From: MATTHEWS, Hamish

Sent: Wednesday, 2 December 2020 5:41 AM

To: Simon Paton <Simon.Paton@nzta.govt.nz>; FLYNN, Keelin <Keelin.Flynn@northerncorridor.co.nz>;

Subject: Fwd: Nightshift Handover - SH1 Uneven Surface Repairs 01/12/2020

FYI

Begin forwarded message:

From: "SOMMERVILLE, James"

**Date:** 2 December 2020 at 4:19:24 AM NZDT **To:** FH NZ-Northern Corridor Night Shift Handover

Subject: Nightshift Handover - SH1 Uneven Surface Repairs 01/12/2020

	Nightly Update
Day/Date:	Tuesday 01/12/2020
Location	SH1
TTM Out:	2120
TTM In:	0400
Weather	fine, 14 degrees.
No. of people onsite	Jimmy Sommerville - NCI  NCI – Adam, Rob, Mike, Mike Ra, Sam, Andrew, 2 x labourers, Excavator operator, Shaugn, Bradley, Tim, Daniel, others throughout the night FH Paving – Supervisor (Eric), Foreman (Travis), (QA/engineer), 7 x Labourer/Operator, 8 x 6w truck + Driver, 1.3m miller FH Lab
HSQE:	18:30 Pre-start at Greville West

Activity: SH1 uneven surface repair: 2120 closure in both sides 2150 start milling off hump 2220 milling of hump complete 2220 start excavation to find chamber lid 2250 lid exposed and removed 2300 chamber top re-placed Notes: 2350 start laying CTB 0000 first layer CTB in 0015 second layer CTB 0030 third layer CTB 0050 fourth layer CTB 0115 milling complete 0130 rolling of final layer CTB complete 0140 tack coat 0150 start AC20 layer 1 0220 start AC20 layer 2 run 1 0235 start AC20 run 2 0245 start AC20 run 3 0300 paving complete 0330 final rolling complete 0330 start placing barriers 0345 barriers placed 0345 start pinning barriers 0356 handover to traffic 0410 road open Quantities: 15tn CTB 95tn AC20 Notes/actions: Next paving shift. Wednesday 02/12/20 MCN0 SMA

Kind Regards,

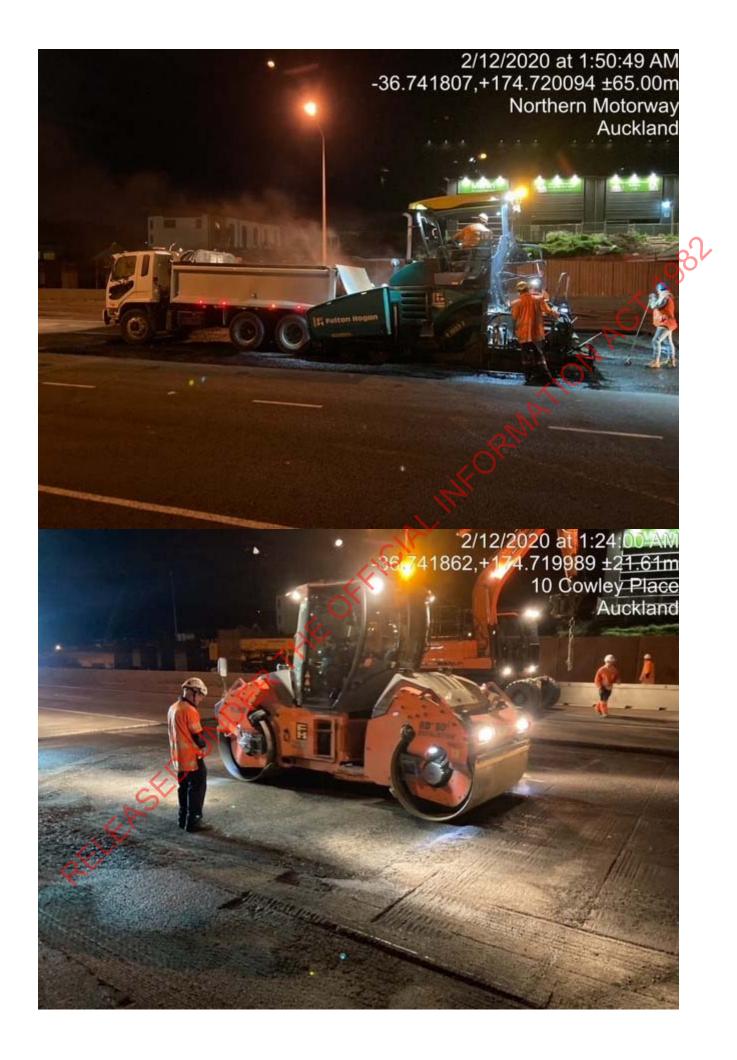
Jimmy Sommerville / Site Engineer - Pavements & Surfacing

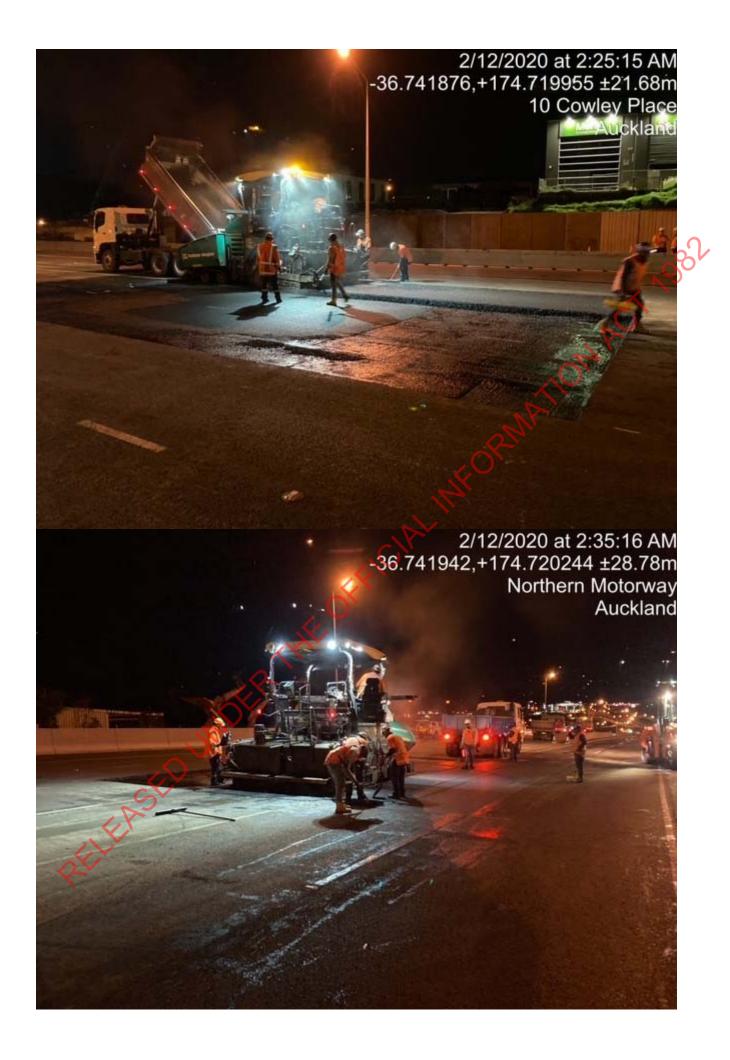
Northern Corridor Improvements

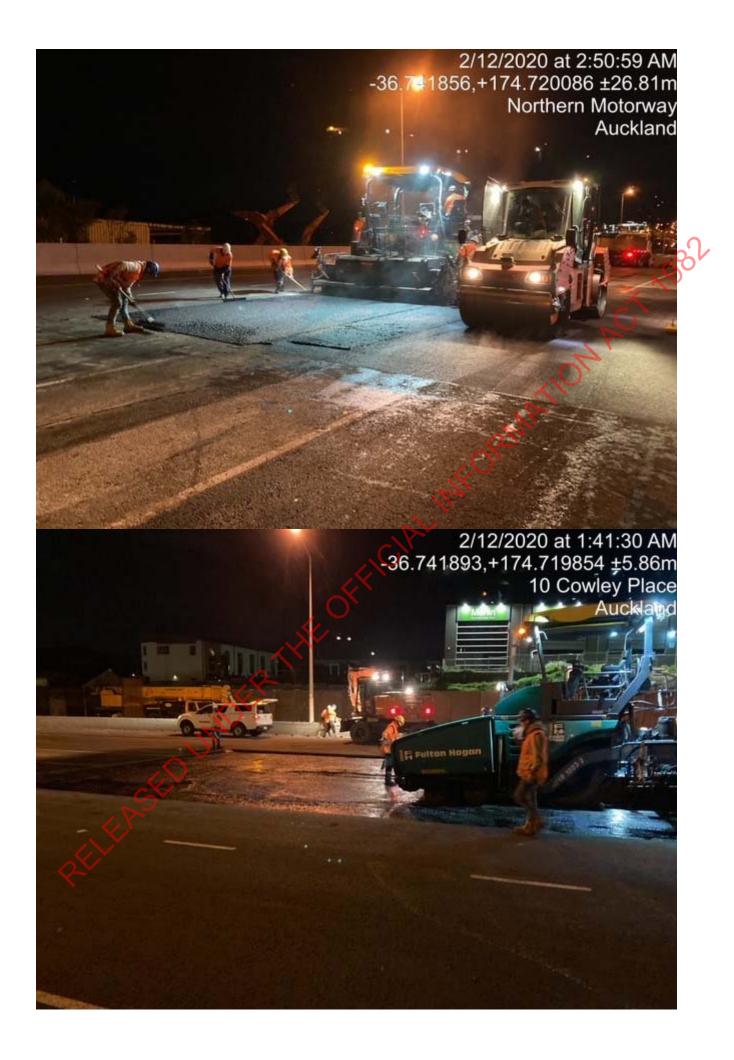
Project office / 10 Rothwell Avenue, Rosedale, Albany, Auckland 0632

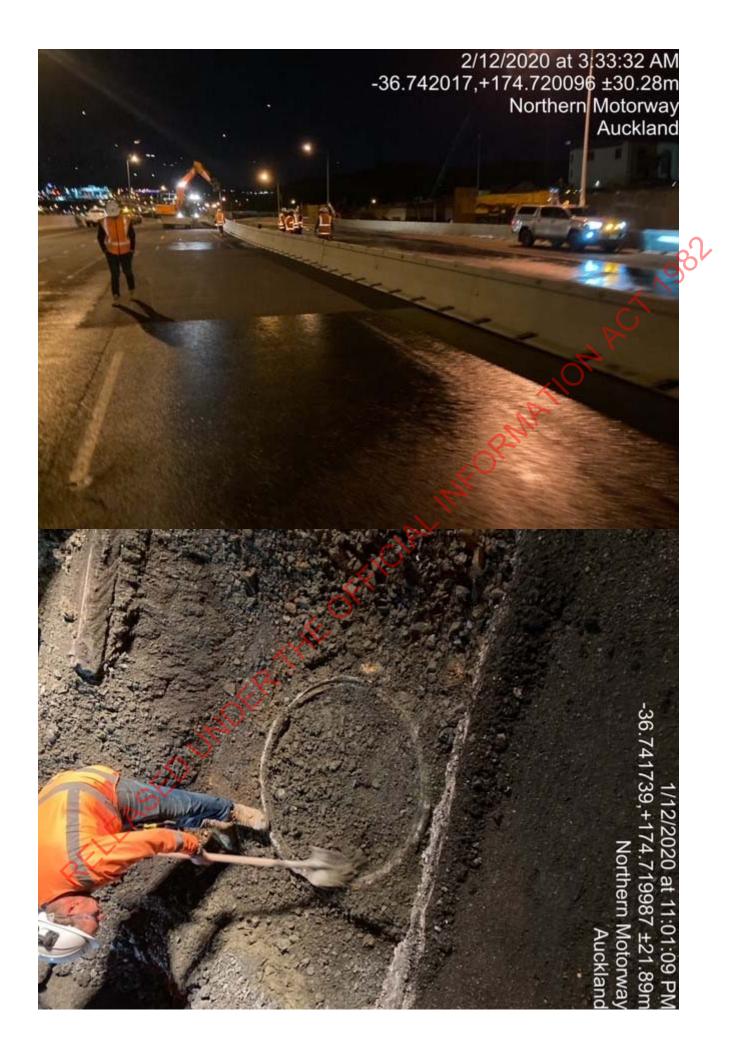


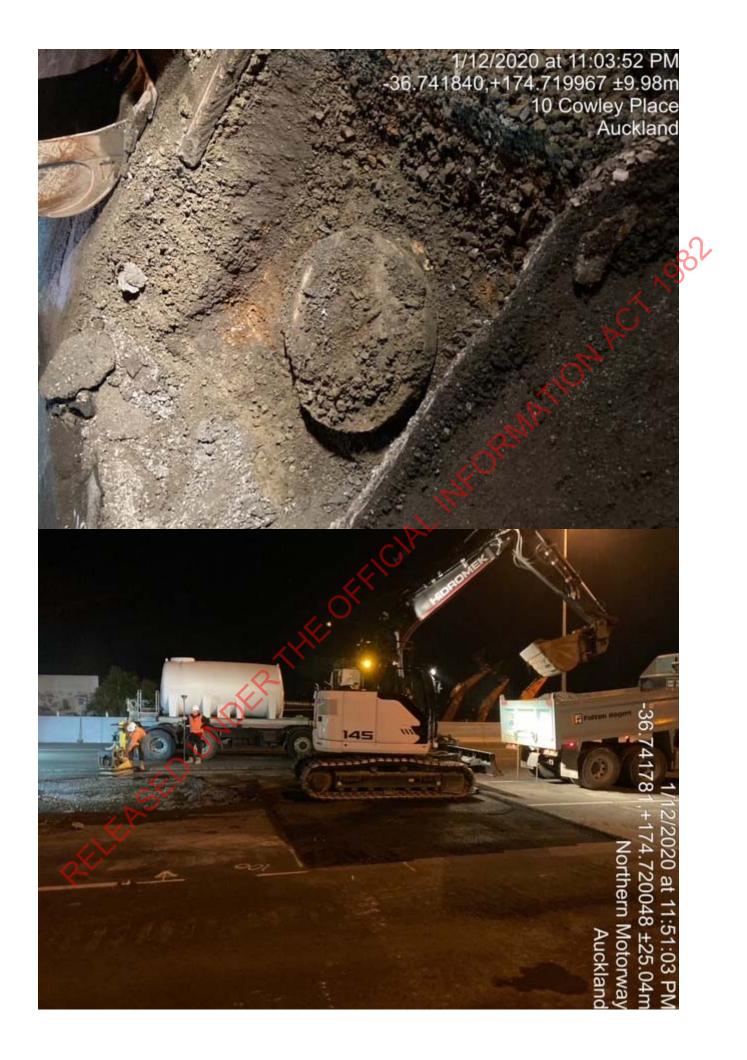
**Northern Corridor Improvements** 

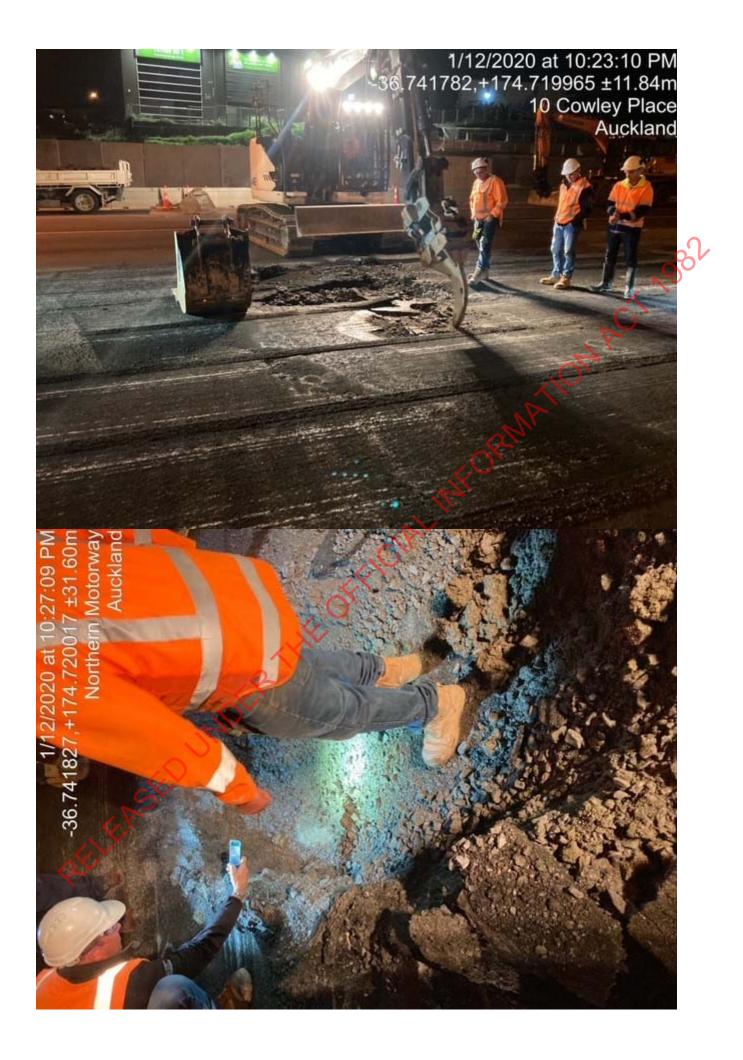


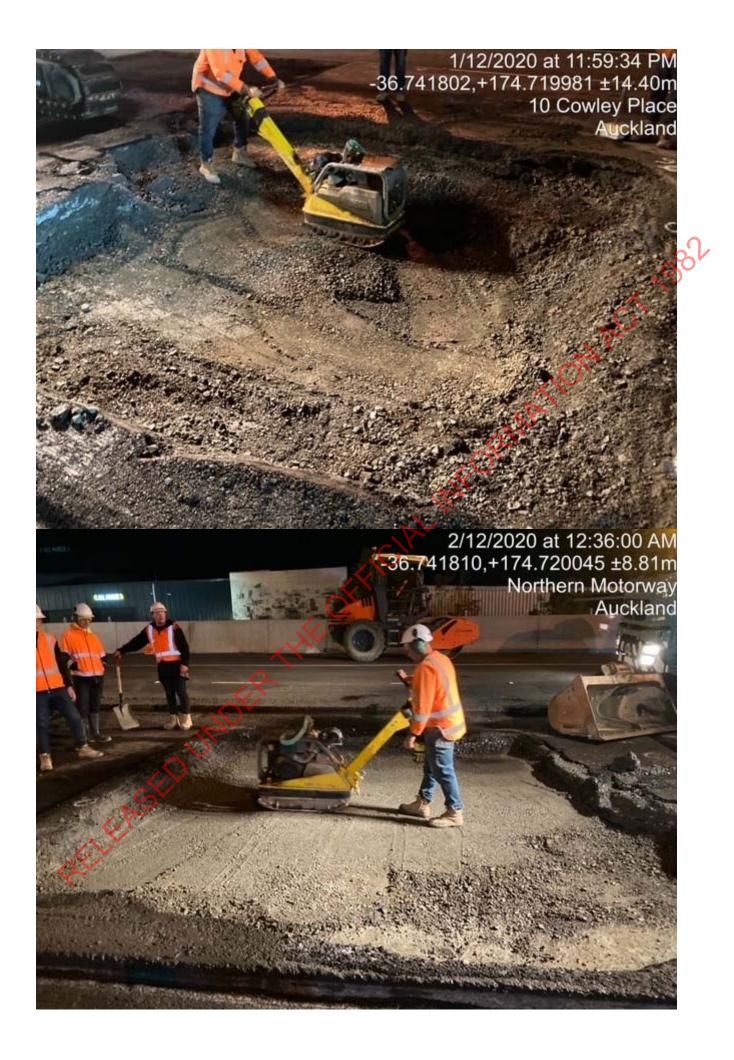


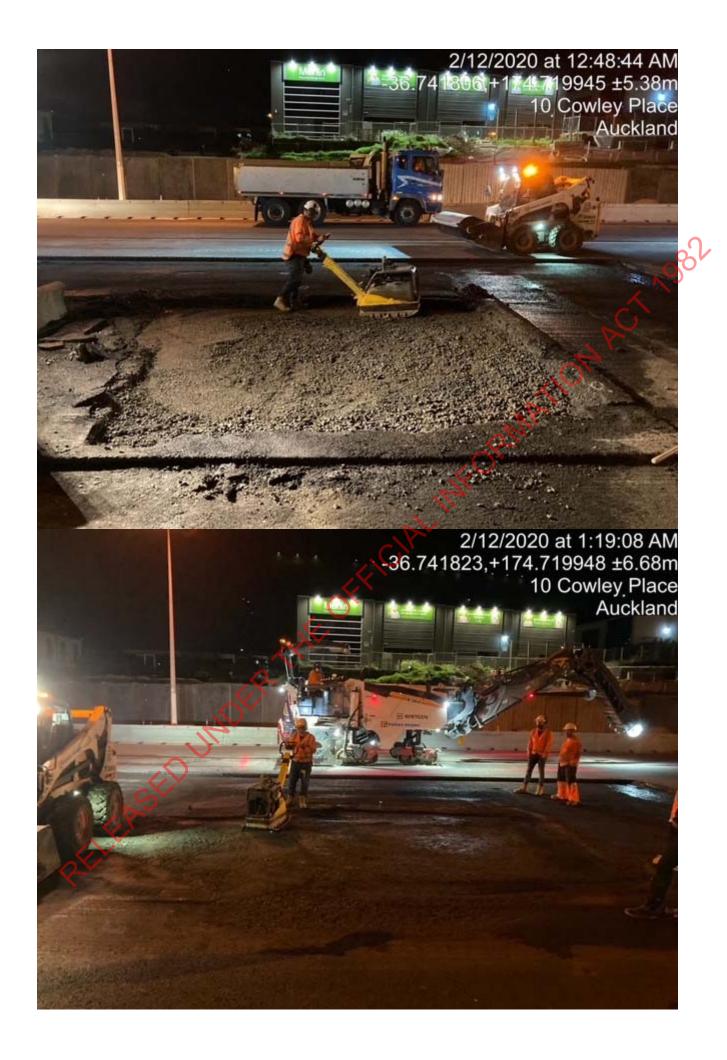


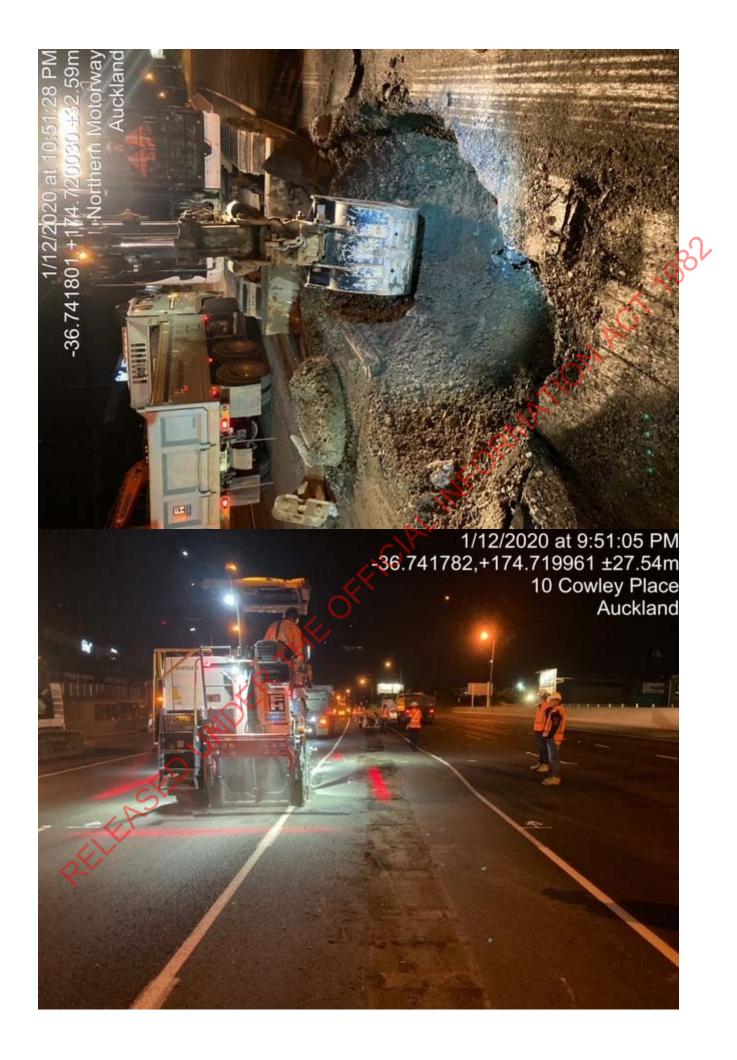


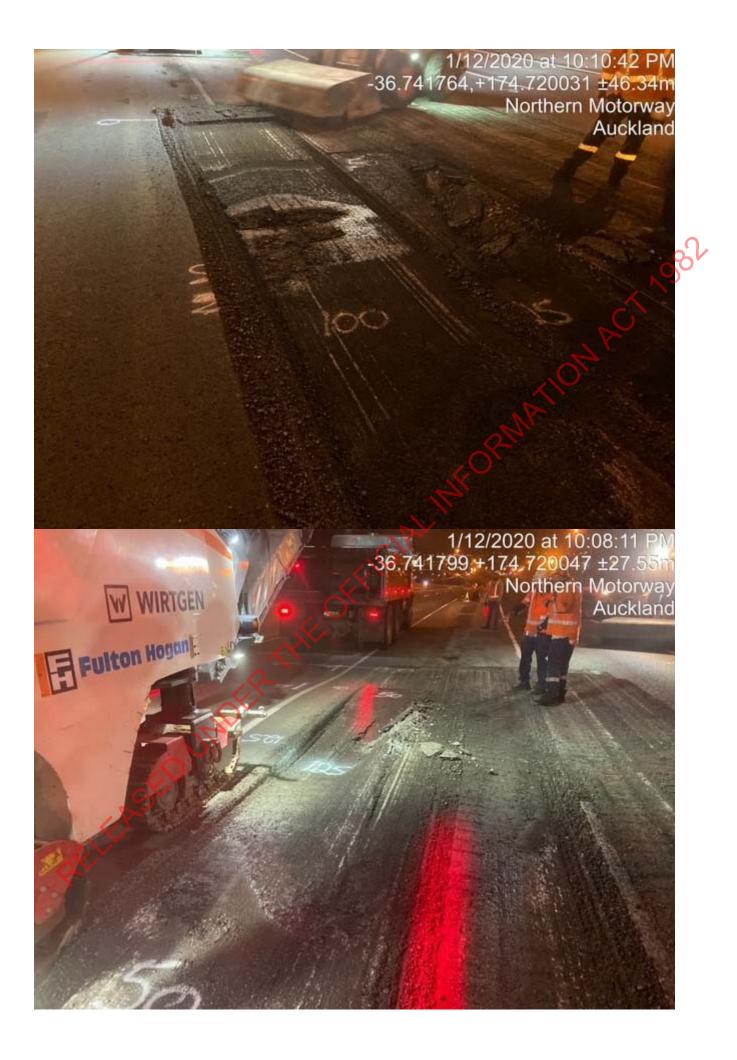














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