



Manukau Heads Road, Manukau Heads

# Flood Recovery Status Update

## **MONTHLY UPDATE ON WORK COMPLETED**

Issued by: Programme Controller | Month: May 2025

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## OVERVIEW

The Recovery Team is focusing on providing information on key priorities as follows:

- ▶ Continue responding to our community's needs, in particular isolated communities.
- ▶ Consolidate updates from contractors across Auckland Region with focus on full road closures updates, damage assessment report and budget.
- ▶ Coordinating geotechnical assessments with key operational functions, prioritizing safety of staff and communities.
- ▶ Provide a map overview and statistics showcasing the response to road closures across all regions.
- ▶ Updating AT websites with current information on the work in progress.



## PROJECT OVERALL STATISTICS

| By Region                                                  |             |             |           |             |             |                           |
|------------------------------------------------------------|-------------|-------------|-----------|-------------|-------------|---------------------------|
|                                                            | North Rural | North Urban | West      | South Rural | South Urban | Central/ GBI/ WI & Rakino |
| <b>Total no. of Major Projects</b>                         | <b>70</b>   | <b>40</b>   | <b>75</b> | <b>20</b>   | <b>2</b>    | <b>15</b>                 |
| Major Active Projects                                      | 5           | 5           | 30        | 2           | 0           | 3                         |
| Major Projects Completed                                   | 65          | 35          | 45        | 18          | 2           | 12                        |
| Projects in Investigation stage                            | 0           | 0           | 7         | 1           | 0           | 0                         |
| Projects in Design stage                                   | 1           | 3           | 17        | 0           | 0           | 3                         |
| Projects in Construction stage                             | 4           | 2           | 6         | 1           | 0           | 0                         |
| No. of projects expected to be completed by end of FY24-25 | 0           | 0           | 15        | 0           | 0           | 1                         |
| No. of projects expected to be completed by end of FY25-26 | 5           | 5           | 15        | 2           | 0           | 2                         |

Note: Figures are up to date as of 6th June 2025

North Rural - 1 project removed

West - 1 project On Hold

## ROAD STATUS

Currently there are **7** local roads with full closures in place, **10** roads open to single lane, **1** road open – under restriction (traffic management) and **2** roads closed – (residents' access only). This remains fluid and will change depending on the road work requirements.

## MEDIA AND COMMUNICATIONS

This month in the media, communications and community / stakeholder engagement space, we:

- ▶ Produced and published site completion content internally and externally via AT web page, Auckland Council newsletter distribution and wider social sharing (e.g. Local Boards and Elected Members):
  - [West Auckland Road Repairs 80% complete](#)
  - [Flood Recovery Highlights for May](#)
  - [Coatesville Bridge replacement](#).
- ▶ Produced social media tiles and/or posts to update communities on construction works.
- ▶ Responded to local board and Coatesville Chronicle media enquiries about the status of the flood alert trial at Sunnyside Road; we provided an update and image for publication.
- ▶ Facilitated the progression of action points to remove material from Pohutukawa Glade, Karekare.
- ▶ Progressed a Lessons Learned process with the intention to prepare an internal working paper to guide actions in the event of another emergency.
- ▶ Updated Auckland Transport's Flood Recovery website pages.
- ▶ Updated the Auckland Transport Flood Recovery Communications & Engagement Plan.

## AREA: NORTH URBAN

### WORK COMPLETED IN THE LAST MONTH

- None this month

### PROJECTS IN CONSTRUCTION PHASE

| SITE NAME                               | ESTIMATED COMPLETION DATE |
|-----------------------------------------|---------------------------|
| Bush Road, Albany                       | September 2025            |
| Twin Wharf Road, Herald Island (stairs) | August 2025               |

### CONSTRUCTION PROGRESS UPDATE

- **BUSH ROAD, ALBANY:** Slip repair work commenced in April and will take up to five months to complete. This month the team:
  - Are 75% complete with completing the top wall which will be retaining the new footpath.
  - Are progressing with stormwater works in the lower part of our worksite.
  - Are currently working on constructing the foundations for the proposed concrete block wall at the toe of the slope.
  - Have reinstated the streetlight opposite Bushlands Park Drive (yet to be powered).

Bush Road remains open, with a reduction in lanes between Albany Expressway and Pinehurst School. The free left turn from Bush Road towards Albany Village is closed with a signposted detour in place. A WhatsApp group for neighbours is active with regular communication occurring.



## **ROAD STATUS**

### **CLOSED**

- None

### **OPEN – SINGLE LANE**

- None

### **OPEN – UNDER RESTRICTION**

- Bush Road, Albany

### **CLOSED – RESIDENTS ACCESS ONLY**

- None

## AREA: NORTH RURAL

### WORK COMPLETED IN THE LAST MONTH

- Pinchgut Road, Kaukapakapa

### PROJECTS IN CONSTRUCTION PHASE

| SITE NAME                          | ESTIMATED COMPLETION DATE |
|------------------------------------|---------------------------|
| Matakana Valley Road, Matakana     | July 2025                 |
| Mill Flat Road Bridge, Coatesville | Early-Mid 2026            |

Upcoming sites from July include Dairy Flat Highway, Dairy Flat and Wishart Road, Helensville.

### CONSTRUCTION PROGRESS UPDATE

- **MATAKANA VALLEY ROAD:** Slip repair work at the 10<sup>th</sup> and final site on Matakana Valley Road, known as the waterfall site, began on 20 January 2025. The team are now 93% of the way through the installation of the block wall blocks and backfilling. They have also started on new stormwater drainage uphill of the site and have installed 2 new box culverts towards the center of the road.



April 2025



19 May 2025



- **MILL FLAT ROAD BRIDGE:** JFC Ltd are making significant progress on the Mill Flat Bridge project. JFC crews have started work on the temporary walls parallel to the bridge on the Mill Flat Road side and the Coatesville-Riverhead Highway side. They are performing undercuts for the permanent retaining wall on the Coatesville-Riverhead Highway side. Traffic management plans are being developed for the next stage, with testing of automatic temporary traffic lights. Variable Message Signs (VMS) boards are being used to inform the public about ongoing works and to remind them to drive cautiously while travelling through the site. Despite wet weather expected to cause minor delays, the project is progressing well, with permanent piling works for the bridge expected to start soon.



- **PINCHGUT ROAD:** Work on the final slip repair site on Pinchgut Road started on 24 March 2025 and was completed at the end of May. The new retaining wall is now in place and final asphalt pavement reinstatement and guardrail installation has been completed at the end of May.





## **ROAD STATUS**

### **CLOSED**

- None

### **OPEN – SINGLE LANE**

- Matakana Valley Road (Waterfall site)

### **OPEN – UNDER RESTRICTION**

- None

### **CLOSED – RESIDENTS ACCESS ONLY**

- None

## AREA: SOUTH RURAL & URBAN

### WORK COMPLETED IN THE LAST MONTH

- Kemp Road, Awhitu
- Urquhart Road, Karaka

### PROJECTS IN CONSTRUCTION PHASE

| SITE NAME                         | ESTIMATED COMPLETION DATE |
|-----------------------------------|---------------------------|
| Manukau Heads Road, Manukau Heads | August 2025               |

Upcoming sites include:

- Ararimu Road, starting construction in mid-June, and complete around the 2<sup>nd</sup> week of August.
- Cemetery Road, starting June, subject to the weather, and taking about 6 weeks to complete.

### CONSTRUCTION PROGRESS UPDATE

- **KEMP ROAD:** Work on Kemp site 2 got underway late March and was completed in early May. The work involved the installation of a soil nail retaining wall and drainage improvements.



- **MANUKAU HEADS ROAD:** Work started at the end of March 2025 and is expected to take four months to complete. This month the construction team have continued work on the general fill of the site, switching to the use of crushed concrete because of the wet ground conditions. The head of the slip has been trimmed back and is ready to be hydroseeded. One of the two large stormwater pipes that will protect the road from flooding in the future has been installed.



- **URQUHART ROAD:** Work started on 7 April 2025 and was completed early May. Work included the installation of new drainage across the road and the construction of a mechanically stabilised earth (MSE) wall to mitigate the slip. New rock armor on the face of the MSE wall now protects the road from further erosion.



## ROAD STATUS

### CLOSED

- Manukau Heads Road, Manukau Heads

### OPEN – SINGLE LANE

- East Coast Road, Whakatiwai

### OPEN – UNDER RESTRICTION

- None

### CLOSED – RESIDENTS ACCESS ONLY

- None

## AREA: WEST

### WORK COMPLETED IN THE LAST MONTH

- Lone Kauri Road RP2.5
- Mountain Road 1580

### CONSTRUCTION PHASE – NEXT 7 MONTHS

| SITE NAME                                           | ESTIMATED COMPLETION DATE |
|-----------------------------------------------------|---------------------------|
| Duffy Road                                          | August 2025               |
| Huia Road, 5 Sites                                  | TBC                       |
| Karekare Road RPO.366 (new site)                    | Start in July             |
| Kay Road, Swanson                                   | Sept 2025                 |
| Konini Road, Titirangi                              | August 2025               |
| Mountain Road, Henderson Valley multiple sites (11) | Sept 2025                 |
| Ngaio Road, Waima                                   | July 2025                 |
| Opanuku Road, Henderson Valley 2 sites              | August 2025               |
| Paturoa Road, Titirangi                             | September 2025            |
| Scenic Drive, 'Elevation' Waiatarua                 | TBC                       |
| Scenic Drive, Arataki, 1 site (RP6.58)              | August 2025               |
| Scenic Drive /Shaw Road                             | TBC                       |
| Stoney Creek Road                                   | August 2025               |
| Tanekaha Road, Titirangi                            | TBC                       |
| Tasman Road, Te Henga                               | August 2025               |
| Waitakere Road Shoulder and Underpass -             | TBC                       |
| West Coast Road, Oratia                             | Stage 1 : June 2025       |

## CONSTRUCTION PROGRESS UPDATE

- **HUIA ROAD, HUIA (RP11.327) NEAR CORNWALLIS ROAD** Construction of the retaining wall is progressing well, with the lower section of piles now completed. Anchor installation has begun at the end of May.

The next phase of work will focus on completing all anchors and the concrete capping beam, followed by the remaining pile installations and the placement of precast concrete panels. We expect works to be completed around the end of June.



*Site RP11.327 Huia Road, works underway, sheet pile wall is installed to temporarily retain the road while the permanent wall is installed.*

- **KONINI ROAD:** We are working towards the final planning phase for the repair work on Konini Road. This work will be done in conjunction with Vector who will be relocating the gas main.



- **LONE KAURI ROAD, KAREKARE (RP2.5):** Work has been completed on this site, except for some minor finishing details.



*Slip site RP2.5 Lone Kauri Road.*

- **MOUNTAIN ROAD:** The repairs of the ninth slip are complete, and we are nearing completion of the 10<sup>th</sup> slip, expected to be finished by 30<sup>th</sup> May (weather dependent). The 11th slip repair is at design review stage, and we have included a new timeline in this letter. We have also been investigating the drainage system along this section of Mountain Road. A large amount of existing drainage was damaged and blocked. We are starting Drainage works at the end of May and aiming to be finished by 31<sup>st</sup> July. We are exploring options to carry out drainage works on both sites together, minimising the impact on Mountain Road, while ensuring safe management of road closures and vehicle movements.

These improvements are a major part of our efforts to make the road more resilient for the future. We aim to start the physical works on the 11th slip repair (0.970) in July and we aim to finish these works and open the road by end by September 2025.

We will continue to keep you informed with updates as work progresses and will notify you of any changes to the schedule. We acknowledge that these repairs are taking a significant amount of time.

| Mountain Road site location | Distance from Scenic Drive | Estimated Duration | Construction Dates (as of May 2025)        |
|-----------------------------|----------------------------|--------------------|--------------------------------------------|
| #175                        | 0.655                      |                    | Completed                                  |
| #170                        | 0.712                      |                    | Completed                                  |
| #94                         | 2.775                      |                    | Completed                                  |
| #148                        | 1.833                      |                    | Completed                                  |
| #150                        | 1.664                      |                    | Completed                                  |
| #150                        | 1.318                      |                    | Completed                                  |
| #150                        | 1.387                      |                    | Completed                                  |
| #150                        | 1.468                      |                    | Completed                                  |
| #150                        | 0.899                      |                    | Completed                                  |
| #150                        | 1580                       |                    | Estimated completion 30 <sup>th</sup> May  |
| Drainage Works #150         | 1660                       |                    | Estimated completion 30 <sup>th</sup> June |
| Drainage Works #150         | 700                        |                    | Estimated completion 31 <sup>st</sup> July |
| #150                        | 0.970 (New)                | TBC                | Estimated completion End of September 2025 |

The team has been working on the dig-out at RP1.586 on Mountain Road. Excavation went down to the rock layer, and backfilling has commenced in 400mm layers wrapped in geogrid. This phase of work is expected to be completed within the first couple of days of June, after which the team will transition to the drainage plan for Mountain Road.



*The excavation underway.*



*Back fill almost completed.*

- **PATUROA ROAD, TITIRANGI:** This site is one of the most challenging locations, the road, the bank and the previous retaining wall have all slipped. An existing timber pole retaining wall adjacent to the large slip is also failing and needs to be repaired. A new retaining wall is being constructed behind the current wall and will be anchored in place. The contractor was established onsite to start construction on 31 March 2025. Timber wall poles have all been installed for the repair of the timber retaining wall that needs replacing on the Titirangi Beach side approach to the large slip. The tie back anchors have been installed in May and the team continue working on completing the lagging.

Preparations are under way for the larger slip repairs to start once in June.



*Paturoa Road - The new timber retaining wall.*



*Paturoa Road - A view from below. Anchors being installed in the new wall.*



*Paturoa Road - Anchors being installed through the new retaining wall.*



*Large Slip on the corner of Paturoa Road, previous retaining wall has failed and fallen towards the beach.*

- **SCENIC DRIVE (RP 6.58), BETWEEN ARATAKI AND WEST COAST ROAD:** The repair design involves a concrete piled tied-back wall. Work on site began in March and requires a full road closure. The initial phase included vegetation clearing and earthworks. The first stage of piling has been completed, which included constructing eleven 900mm diameter piles, 8 to 13 metres deep, and a portion of the concrete capping beam. Temporary works to enable the construction of stage 2 were completed early in May. We are progressing through Stage 2 and have constructed of 13 x 900 diameter piles, 20 metres deep and are working on the installation of anchors, and the completion of the capping beam. The road will then be rebuilt behind the new wall. The works remain on programme to be completed in August, weather dependent.



*The final piles are installed.*



*The drilling underway in May.*



*A side on view of the site.*

- **WAITAKERE ROAD SHOULDER AND UNDERPASS - WALKWAY:** We are currently repairing the slip on the shoulder of the Waitakere Road, work will pause for the first part of June while we finalise some of the drainage designs, based on the discover.



We are still working on the design of the repair for the footpath under Waitakere Road, and the methodology for construction which will follow the work on the shoulder of the road.



- **WEST COAST ROAD:** Works during May included retaining walls, culvert repairs and drainage on both sides of the road. We have also installed the anchors to secure the wall. We will be continuing this work into June, with a short pause from around the 7<sup>th</sup> of June, as we are awaiting delivery of some of the components required for the culvert repairs. While we pause the works, we will have the road open to two lanes, with some flexiposts in place to guide drivers.

There are still some drainage works that will take place, along with a concrete capping between the wall and the road, to ensure if the water overtops the road in future events, the water does not erode the bank and the wall. We will also be completing pavement repairs on this site.



*Slip site West Coast Road*



*Slip site West Coast Road*



*Storm water drainage*

- **WHATIPU ROAD:** Work on the slip on Whatipu Road was completed in April, prior to Easter, and the road reopened to traffic. A second location on Whatipu Road is now under construction near #80 Whatipu Road. This second location is not included in the cyclone recovery works as it was identified later in 2023, it is being completed under the maintenance works. However, we are using crews who have been working on cyclone recovery sites, as the work is similar to other slip sites, and the crews will be using similar techniques to complete this repair. For the community we will use the networks established with cyclone recovery to keep them updated on this sites progress.
- **WOODLANDS PARK ROAD:** The first stage of the work will include relocating the watermain, and our contractor will be working with Watercare on this. The work started on 12 May 2025. This took approximately 1 weeks under a **full road closure**. The second stage of works will start after winter due to the location of the works in the stream bed. Stage 2 is planned to start Mid-September 2025 and is expected to take 3 months. The team is working to minimise full road closure for Stage 2 of the works (*aiming to keep one lane open where possible*). Closer to the start of stage two we will provide more information around the impact on the community.



*Slip site at 150 Woodlands Park Road after the relocation of the watermain.*

## **ROAD STATUS**

### **CLOSED**

- Paturoa Road 15, Titirangi
- Scenic Drive, Waiatarua
- Kay Road, Waitakere
- Mountain Road, Henderson Valley
- Lone Kauri Road, Karekare

### **OPEN – SINGLE LANE**

- Huia Road, Huia
- Huia Road 634, Titirangi
- Konini Road, Titirangi
- West Coast Road, Oratia – will be two lanes for 3 weeks in June
- Woodlands Park Road, Woodlands Park

## AREA: CENTRAL (URBAN)/ WAIHEKE & RAKINO ISLANDS/ GREAT BARRIER ISLAND

### WORK COMPLETED IN THE LAST MONTH

- Aotea Road, Great Barrier Island (site 2)
- Goodwin Avenue, Waiheke Island

### PROJECTS IN CONSTRUCTION PHASE

| SITE NAME                                           | ESTIMATED COMPLETION DATE |
|-----------------------------------------------------|---------------------------|
| Paritai Drive, Mission Bay                          | June 2025                 |
| Shoal Bay Road, Great Barrier Island (1 of 2 sites) | June 2025                 |

Upcoming sites include Esplanade Road, Waiheke Island and Shoal Bay Road, Great Barrier Island (Site 2 of 2).

### CONSTRUCTION PROGRESS UPDATE

- **AOTEA ROAD:** Slip repair work started on Monday 24 February 2025. Slips 1 and 2 are now complete. Site 3 will start construction later in the year as a large excavator needs to be transported to the Island. The map below shows the location of the three slips on Aotea Road.



- **GOODWIN AVENUE:** Slip Repair work on Goodwin Avenue started on 28 April 2025 and were completed 23 May 2025. Work involved installation of a timber pole retaining wall, handrail and concrete footpath.



- **PARITAI DRIVE:** Ongoing monitoring has been occurring for over a year. Our monitoring found that the ground is still moving, so further repairs began on 26 May 2025. Works involve installing 28 steel piles with interconnecting timber rails.



- **SHOAL BAY ROAD:** Slip Repair work on Shoal Bay Road started on 26 May 2025 and is expected to take approximately one month to complete. Rock revetment protection will be implemented here. The work involves rock placement to restore and strengthen the slope.



## ROAD STATUS

### CLOSED

- None

### OPEN – SINGLE LANE – STOP/GO

- Aotea Road, Great Barrier Island
- Paritai Drive, Orakei
- Shoal Bay Road, Great Barrier Island

### OPEN – UNDER RESTRICTION

- None

### CLOSED – RESIDENTS ACCESS ONLY

- None

## APPENDIX 1 - REGION-WIDE DETAILED SITE INFORMATION

| Area        | Suburb          | Road Name                       | Fault RP | Failure type | Road status               | Stage        |
|-------------|-----------------|---------------------------------|----------|--------------|---------------------------|--------------|
| North Urban | Albany Heights  | Albany Heights Road             | 545      | Under slip   | Open - Normal             | Complete     |
| North Urban | Stillwater      | Duck Creek Road                 | 4400     | Under slip   | Open - Normal             | Complete     |
| North Urban | Albany          | Gills Road                      | 591      | Under slip   | Open - Normal             | Complete     |
| North Urban | Birkenhead      | Hinemoa Tce                     | 11       | Under slip   | Open - Normal             | Complete     |
| North Urban | Redvale         | John Brian Dr                   | 240      | Under slip   | Open - Normal             | Complete     |
| North Urban | Lucas Creek     | Paremoremo Rd Site #1           | 166      | Under slip   | Open - Normal             | Complete     |
| North Urban | Paremoremo      | Paremoremo Rd Site #3           | 3275     | Under slip   | Open - Normal             | Complete     |
| North Urban | Paremoremo      | Paremoremo Road #4              | 3773     | Under slip   | Open - Normal             | Complete     |
| North Urban | Riverhead       | Ridge Road                      | 1234     | Under slip   | Open - Normal             | Complete     |
| North Urban | Stanmore Bay    | Riverhaven Drive                | 358      | Under slip   | Open - Normal             | Complete     |
| North Urban | Greenhithe      | Tauhinu Rd                      | 723      | Under slip   | Open - Normal             | Complete     |
| North Urban | Birkenhead      | Inkster St                      | 267      | Under slip   | Open - Normal             | Complete     |
| North Urban | Albany          | Bush Rd                         | 33       | Under slip   | Open - Under Restrictions | Construction |
| North Urban | Albany Heights  | Dairy Flat Highway #2           | 4252     | Under slip   | Open - Normal             | Complete     |
| North Urban | Albany Heights  | Dairy Flat Highway #1           | 4784     | Under slip   | Open - Normal             | Complete     |
| North Urban | Torbay          | Glenvar Road                    | 3030     | Under Slip   | Open - Normal             | Complete     |
| North Urban | Hatfields Beach | Hibiscus Coast Hwy              | 6155     | Under slip   | Open - Normal             | Complete     |
| North Urban | Redvale         | John Brian Dr                   | 30       | Under slip   | Open - Normal             | Complete     |
| North Urban | Glenfield       | Kaipatiki Rd (RP1077)           | 1077     | Under slip   | Open - Normal             | Complete     |
| North Urban | Paremoremo      | Paremoremo Rd Site #2           | 2794     | Under slip   | Open - Normal             | Complete     |
| North Urban | Greenhithe      | Rahui Rd                        | 304      | Under slip   | Open - Normal             | Complete     |
| North Urban | Northcote       | Raymond Tce                     | 230      | Under slip   | Open - Normal             | Complete     |
| North Urban | Riverhead       | Ridge Road                      | 1188     | Under slip   | Open - Normal             | Complete     |
| North Urban | Stanmore Bay    | Scott Road                      | 920      | Under slip   | Open - Normal             | Complete     |
| North Urban | Bayswater       | Sir Peter Blake Pde             | 180      | Under slip   | Open - Normal             | Complete     |
| North Urban | Stillwater      | Spur Rd                         | 2465     | Under slip   | Open - Normal             | Complete     |
| North Urban | Herald Island   | Twin Wharf Rd                   | 149      | Under slip   | Open - Normal             | Construction |
| North Urban | Whangaparoa     | Wade River Rd                   | 1615     | Under slip   | Open - Normal             | Complete     |
| North Urban | Stillwater      | Duck Creek Road Emergency Works | 2503     | Under slip   | Open - Normal             | Complete     |
| North Urban | Rothesay Bay    | Masterton Road                  | 663      | Under slip   | Open - Normal             | Complete     |
| North Urban | Torbay          | Glenvar Road Improvements       | 3030     | Under Slip   | Open - Normal             | Complete     |
| North Urban | Albany Heights  | Lonely Track Road               | 1930     | Under slip   | Open - Normal             | Complete     |
| North Urban | Redvale         | East Coast Road                 | 9916     | Under slip   | Open - Normal             | Complete     |

| Area                 | Suburb         | Road Name                  | Fault RP | Failure type | Road status        | Stage         |
|----------------------|----------------|----------------------------|----------|--------------|--------------------|---------------|
| North Urban          | Riverhead      | Ridge Road                 | 1160     | Under slip   | Open - Normal      | Complete      |
| North Urban          | Whangaparoa    | Hobbs Rd                   | 127      | Under slip   | Open - Normal      | Complete      |
| North Urban          | Paremoremo     | Elmore Road                | 940      | Under slip   | Open - Normal      | Complete      |
| North Urban          | Stillwater     | Duck Creek Rd Improvements | 2630     | Under slip   | Open - Normal      | Complete      |
| North Urban          | Albany Heights | Albany Heights Road        | 1300     | Under slip   | Open - Normal      | Design        |
| North Urban          | Birkenhead     | Huka Road                  | 80       | Under slip   | Open - Normal      | Design        |
| North Urban          | Birkdale       | Lanigan Street             | 260      | Under slip   | Open - Normal      | Design        |
| South Rural          | Karaka         | Linwood Rd 1               | 9100     | Under slip   | Open - Normal      | Complete      |
| South Rural          | Karaka         | Linwood Rd 2               | 8750     | Under slip   | Open - Normal      | Complete      |
| South Rural          | Manukau Heads  | Manukau Heads Rd           | 6960     |              | Closed             | Construction  |
| South Rural          | Clevedon       | Monument Rd                | 6000     | Under slip   | Open - Normal      | Complete      |
| South Rural          | Clevedon       | Monument Rd                | 6400     | Under slip   | Open - Normal      | Complete      |
| South Rural          | Clevedon       | Otau Mountain Rd           | 3300     | Under slip   | Open - Normal      | Complete      |
| South Rural          | Awhitu Rural   | Awhitu Rd                  | 23454    | Over Slip    | Open - Normal      | Complete      |
| South Rural          | Wiauku         | Kohekohe Kariotahi         | 3500     | Under slip   | Open - Normal      | Complete      |
| South Rural          | Pukekohe       | East St (Pukekohe)         | 285      | Over Slip    | Open - Normal      | Complete      |
| South Rural          | Awhitu Rural   | 1966 Awhitu Road           | 23750    | Under slip   | Open - Normal      | Complete      |
| South Rural          | Mauku          | Union Road                 | 2346     | Under slip   | Open - Normal      | Complete      |
| South Rural          | Awhitu         | Kemp Road                  | 3455     | Under slip   | Open - Normal      | Complete      |
| South Rural          | Awhitu         | Te Toro Road               | 740      | Under slip   | Open - Normal      | Complete      |
| South Rural          | Karaka         | Urquhart Road              | 295      | Under slip   | Open - Normal      | Complete      |
| South Rural          | Manukau Heads  | Grahams Beach Road         | 780      | Under slip   | Open - Normal      | Complete      |
| South Rural          | Hunua          | Hunua Gorge Road           | 2098     | Under slip   | Open - Normal      | Complete      |
| South Rural          | Patumahoe      | Kingseat Road              | 2680     | Under slip   | Open - Normal      | Complete      |
| South Rural          | Hunua          | Skyhigh Road               | 2575     | Under slip   | Open - Normal      | Complete      |
| South Rural          | Clevedon       | McNicoll Road              | 0        | Under slip   | Open - Normal      | Complete      |
| South Urban          | Cockle Bay     | Marine Parade              | 392      | Under slip   | Open - Normal      | Complete      |
| South Rural          | Whakatiwai     | East Coast Road            | 3135     | Over Slip    | Open - Single Lane | Investigation |
| South Urban          | Mellons Bay    | Marine Pde (Cockle Bay)    | 392      | Under slip   | Open - Normal      | Complete      |
| Central Urban        | Hillsborough   | Waikowhai Road             | 200      | Under slip   | Open - Normal      | Complete      |
| Central Urban        | Remuera        | #160 Bassett Road          | 1280     | Under Slip   | Open - Normal      | Complete      |
| Central Urban        | Orakei         | 70 Paratai Road            | 1063     | Under Slip   | Open - Normal      | Design        |
| Great Barrier Island | Shoal Bay      | Shoal Bay Road             | 2292     | Under slip   | Open - Single Lane | Complete      |

| Area                 | Suburb         | Road Name                                      | Fault RP  | Failure type       | Road status        | Stage    |
|----------------------|----------------|------------------------------------------------|-----------|--------------------|--------------------|----------|
| Great Barrier Island | Tryphena       | Cape Barrier Road                              | 1522      | Under slip         | Open - Normal      | Complete |
| Great Barrier Island | Awana #1       | Aotea Road                                     | 8274      | Under slip         | Open - Normal      | Complete |
| Great Barrier Island | Awana #2       | Aotea Road                                     | 8638      | Under slip         | Open - Normal      | Complete |
| Great Barrier Island | Awana #3       | Aotea Road                                     | 19498     | Under slip         | Open - Normal      | Design   |
| Great Barrier Island | Whangaparapara | Whangaparapara Road                            | 2922      | Under slip         | Open - Normal      | Complete |
| Waiheke Island       | Cowes Bay      | 203-231 Orapiu Road                            | 1995      | Under slip         | Open - Normal      | Complete |
| Waiheke Island       | Little Oneroa  | 40 Hekerua Road                                | 175       | Under slip         | Open - Normal      | Complete |
| Waiheke Island       | Ostend         | Wharf Road / Waitai Road                       | 460       | Under slip         | Open - Normal      | Complete |
| Rakino               |                | South Pacific Road                             | 0         | Under slip         | Open - Normal      | Complete |
| Rakino               |                | Jane York Place                                | 100       | Under slip         | Open - Normal      | Complete |
| Waiheke Island       |                | The Esplanade Seawall (opposite 46 Moa Avenue) | 170       | Scouring           | Open - Normal      | Design   |
| North Rural          | Puhoi          | Ahuroa Rd                                      | 8710      | Under slip - Major | Open - Normal      | Complete |
| North Rural          | Puhoi          | Ahuroa Rd (Hill)-Realignment                   | 8200-8600 | Under slip - Major | Open - Normal      | Complete |
| North Rural          | Puhoi          | Ahuroa Rd (Hill)-Realignment                   | 8330      | Under slip - Major | Open - Normal      | Complete |
| North Rural          | Puhoi          | Ahuroa Rd (Included In The July/Aug23)         | 7540      | Under slip - Major | Open - Normal      | Complete |
| North Rural          | Puhoi          | Ahuroa Rd/7784                                 | 7784      | Under slip - Major | Open - Single Lane | Complete |
| North Rural          |                | Ashton Road                                    | 1350      | Under slip - Major | Open - Normal      | Complete |
| North Rural          |                | Coatesville-Riverhead Highway                  | 1178      | Under slip - Major | Open - Normal      | Complete |
| North Rural          | Dairy Flat     | Dairy Flat Highway/6634                        | 6634      | Under slip - Minor | Open - Normal      | Design   |
| North Rural          | Leigh          | Goat Island Rd                                 | 133       | Under slip - Major | Open - Normal      | Complete |
| North Rural          | Wainui         | Haruru Road                                    | 9536      | Under slip - Major | Open - Normal      | Complete |
| North Rural          | Wainui         | Haruru Road                                    | 2000      | Under slip - Major | Open - Normal      | Complete |
| North Rural          | Makarau        | Jordan Rd (Makarau)                            | 1453      | Under slip - Minor | Open - Normal      | Complete |
| North Rural          | Waitoki        | Kahikatea Flat Rd                              | 1877      | Under slip - Major | Open - Normal      | Complete |
| North Rural          | Puhoi          | Krippner Rd                                    | 2506      | Under slip - Major | Open - Single Lane | Complete |
| North Rural          | Puhoi          | Krippner Rd                                    | 2400      | Under slip - Major | Open - Normal      | Complete |
| North Rural          | Puhoi          | Krippner Rd                                    | 1821      | Under slip - Major | Open - Normal      | Complete |
| North Rural          | Puhoi          | Krippner Rd                                    | 1550      | Under slip - Major | Open - Normal      | Complete |
| North Rural          | Puhoi          | Krippner Rd                                    | 2550      | Under slip - Major | Open - Normal      | Complete |

| Area        | Suburb       | Road Name                                  | Fault RP    | Failure type             | Road status   | Stage        |
|-------------|--------------|--------------------------------------------|-------------|--------------------------|---------------|--------------|
| North Rural | Puhoi        | Krippner Rd                                | 2351        | Under slip - Major       | Open - Normal | Complete     |
| North Rural | Puhoi        | Krippner Rd                                | 2214        | Under slip - Major       | Open - Normal | Complete     |
| North Rural | Puhoi        | Krippner Rd                                | 2656        | Under slip - Major       | Open - Normal | Complete     |
| North Rural | Puhoi        | Krippner Rd                                | 2584        | Under slip - Major       | Open - Normal | Complete     |
| North Rural | Leigh        | Leigh Rd                                   | 5577        | Under slip - Major       | Open - Normal | Complete     |
| North Rural | Snells Beach | Mahurangi East Rd                          | 1450        | Under slip - Major       | Open - Normal | Complete     |
| North Rural | Makarau      | Makarau Rd                                 | 4740        | Under slip - Major       | Open - Normal | Complete     |
| North Rural | Makarau      | Makarau Rd                                 | 4740        | Under slip - Major       | Open - Normal | Complete     |
| North Rural | Matakana     | Matakana Valley Rd                         | 7330-7257   | Under slip - Major       | Open - Normal | Complete     |
| North Rural | Matakana     | Matakana Valley Rd                         | 5990        | Under slip - Major       | Open - Normal | Complete     |
| North Rural | Matakana     | Matakana Valley Rd (not showing up on WIP) | 7500        | Under slip - Major       | Open - Normal | Construction |
| North Rural | Matakana     | Matakana Valley Rd (not showing up on WIP) | 7730        | Under slip - Major       | Open - Normal | Construction |
| North Rural | Matakana     | Matakana Valley Rd                         | 7037        | Under slip - Major       | Open - Normal | Complete     |
| North Rural | Matakana     | Matakana Valley Rd (A part of RP7037)      | 7091 (7037) | Over Slip - Major        | Open - Normal | Complete     |
| North Rural | Matakana     | Matakana Valley Rd                         | 5875        | Under slip - Major       | Open - Normal | Complete     |
| North Rural | Matakana     | Matakana Valley Road                       | 5900        |                          | Open - Normal | Complete     |
| North Rural | Matakana     | Matakana Valley Road                       | 4900        | Drain-Scour Damages      | Open - Normal | Complete     |
| North Rural | Coatesville  | Mill Flat Road Bridge                      | 0           | Bridge/structure Failure | Closed        | Construction |
| North Rural | Warkworth    | Moir Hill Rd                               | 150         | Under slip - Major       | Open - Normal | Complete     |
| North Rural | Warkworth    | Moir Hill Rd                               | 2317        | Under slip - Major       | Open - Normal | Complete     |
| North Rural | Warkworth    | Moir Hill Rd                               | 111         | Under slip - Major       | Open - Normal | Complete     |
| North Rural | Warkworth    | Moir Hill Rd                               | 198         | Under slip - Major       | Open - Normal | Complete     |
| North Rural | Warkworth    | Moir Hill Rd                               | 279         | Under slip - Major       | Open - Normal | Complete     |
| North Rural | Warkworth    | Moir Hill Rd                               | 1531        | Under slip - Major       | Open - Normal | Complete     |
| North Rural | Warkworth    | Moir Hill Rd                               | 162         | Under slip - Major       | Open - Normal | Complete     |
| North Rural | Leigh        | Pakiri Rd                                  | 4218        | Under slip - Major       | Open - Normal | Complete     |
| North Rural | Leigh        | Pakiri Rd                                  | 12395       | Under slip - Minor       | Open - Normal | Complete     |
| North Rural | Leigh        | Pakiri Rd                                  | 12768       | Under slip - Major       | Open - Normal | Complete     |
| North Rural | Kaukapakapa  | Pinchgut Road                              | 1015        | Under slip - Major       | Open - Normal | Complete     |
| North Rural | Kaukapakapa  | Pinchgut Road, Pinchgut 2.0 Additional     | 1673        | Under slip - Major       | Open - Normal | Complete     |
| North Rural | Dairy Flat   | Pine Valley Rd                             | 1790        | Under slip - Major       | Open - Normal | Complete     |

| Area          | Suburb        | Road Name                              | Fault RP      | Failure type       | Road status                         | Stage         |
|---------------|---------------|----------------------------------------|---------------|--------------------|-------------------------------------|---------------|
| North Rural   | Coatesville   | Potter Road                            | 1259          | Under slip - Major | Open - Normal                       | Removed       |
| North Rural   | Te Arai       | Red Hill Rd                            | 1155          | Under slip - Major | Open - Normal                       | Complete      |
| North Rural   | Riverhead     | Ridge Road                             | 1672          | Under slip - Major | Open - Normal                       | Complete      |
| North Rural   | Dome Forest   | Smyth Rd                               | 2301          | Under slip - Major | Open - Normal                       | Complete      |
| North Rural   | South Head    | South Head Road                        | 23717         | Under slip - Major | Open - Normal                       | Complete      |
| North Rural   | Tahekeroa     | Tahekeroa Rd                           | 3610          | Under slip - Major | Open - Normal                       | Complete      |
| North Rural   | Tahekeroa     | Tahekeroa Rd (Kiwi Rail)               | 0             | Over Slip - Major  | Open - Normal                       | Complete      |
| North Rural   | Matakana      | Takatu Rd                              | 6109          | Under slip - Major | Open - Normal                       | Complete      |
| North Rural   | Matakana      | Takatu Rd                              | 7852          | Over Slip - Major  | Open - Normal                       | Complete      |
| North Rural   |               | Takatu Rd                              | 8290-8381     | Under slip - Major | Open - Normal                       | Complete      |
| North Rural   | Matakana      | Takatu Rd                              | 8300          | Under slip - Major | Open - Normal                       | Complete      |
| North Rural   | Matakana      | Takatu Rd                              | 8350          | Under slip - Major | Open - Normal                       | Complete      |
| North Rural   | Kaipara Flats | Tauhoa Rd                              | 9516          | Under slip - Major | Open - Normal                       | Complete      |
| North Rural   | Wainui        | Wainui Rd (Albert Su-July/Aug23 Storm) | 7960          | Under slip - Major | Open - Normal                       | Complete      |
| North Rural   |               | Wainui Road                            | 7960-8115     |                    | Open - Normal                       | Complete      |
| North Rural   | Dome Valley   | Waiwhiu Rd                             | 498           | Under slip - Major | Open - Normal                       | Complete      |
| North Rural   | Puhoi         | Weranui Road                           | 6280          | Under slip - Major | Open - Normal                       | Complete      |
| North Rural   | Puhoi         | Weranui Road                           | 7312          | Under slip - Major | Open - Normal                       | Complete      |
| North Rural   | Woodcocks     | West Coast Rd (Woodcocks)              | 10429 (11900) | Under slip - Major | Open - Normal                       | Complete      |
| North Rural   | Woodcocks     | West Coast Rd (Woodcocks)              | 13570         | Under slip - Major | Open - Normal                       | Complete      |
| North Rural   | Kaukapakapa   | West Rd (Kaukapakapa)                  | 271           | Under slip - Major | Open - Normal                       | Complete      |
| North Rural   | Helensville   | Wishart Road                           | 961           | Under slip - Major | Open - Normal                       | Re-alignment  |
| West (Ventia) | Titirangi     | 40 Otitori Bay Road                    | 270           | Under slip         | Open - Normal                       | Complete      |
| West (Ventia) | Waitakere     | Bethells Road                          | 3790 (3.6)    | Under slip         | Open - Normal                       | Complete      |
| West (Ventia) | Waitakere     | Bethells Road                          | 2799          | Under slip         | Open - Normal                       | Complete      |
| West          | Waitakere     | Bethells Road                          | 9315          | Under slip         | Open - Normal                       | Complete      |
| West (Ventia) | Waitakere     | Bethells Road                          | 11036         | Under slip         | Open - Normal                       | Complete      |
| West (Ventia) | Waitakere     | Caton Road 16                          | 91            | Under slip         | Open - Normal                       | Complete      |
| West          | Piha          | Glenesk Road                           | 61            | Under slip         | Open - Normal                       | Complete      |
| West          | Piha          | Glenesk Road                           | 178           | Under slip         | Open - Normal                       | Complete      |
| West (Ventia) | Piha          | Huia Road                              | 12500         | Under slip         | Open - Single Lane                  | Investigation |
| West (Ventia) | Titirangi     | Huia Road                              | 4072          | Under slip         | Open - Single Lane - Traffic Lights | Design        |
| West (Ventia) | Piha          | Huia Road                              | 11347         | Under slip         | Open - Single Lane                  | Construction  |
| West (Ventia) | Titirangi     | Huia Road                              | 13700         | Under slip         | Open - Normal (Footpath closure)    | Design        |

| Area          | Suburb              | Road Name       | Fault RP      | Failure type   | Road status                      | Stage         |
|---------------|---------------------|-----------------|---------------|----------------|----------------------------------|---------------|
| West (Ventia) | Titirangi           | Huia Road 81-85 | 916           | Under Slip     | Open - Single Lane               | Complete      |
| West          | Piha                | Karekare Road   | 555 (582)     | Under slip     | Closed                           | Complete      |
| West          | Piha                | Karekare Road   | 1260          | Under slip     | Closed                           | Complete      |
| West          | Piha                | M               | 1143          | Under slip     | Closed                           | Complete      |
| West          | Piha                | Karekare Road   | 941           | Under slip     | Closed                           | Complete      |
| West          | Piha                | Karekare Road   | 150           | Under slip     | Closed                           | Complete      |
| West (Ventia) | Waitakere           | Kay Road        | 1090          | Under slip     | Closed                           | Design        |
| West (Ventia) | Glen Eden or Oratia | Kellys Road     | 240           | Under slip     | Closed                           | Complete      |
| West (Ventia) | Titirangi           | Konini Road 157 | 1501          | Under slip     | Footpath closed                  | Design        |
| West          | Piha                | Lone Kauri Road | 2085          | Under slip     | Closed - Residents Only          | Complete      |
| West          | Piha                | Lone Kauri Road | 600           | Under slip     | Closed - Residents Only          | Complete      |
| West          | Piha                | Lone Kauri Road | 2500          | Under slip     | Open - Normal                    | Construction  |
| West          | Piha                | Lone Kauri Road | 5170          | Under slip     | Closed - Residents Only          | Complete      |
| West (Ventia) | Henderson Valley    | Mountain Road   | 655 (No. 177) | Under slip     | Closed - Residents Only          | Complete      |
| West (Ventia) | Henderson Valley    | Mountain Road   | 712           | Under slip     | Closed - Residents Only          | Complete      |
| West (Ventia) | Henderson Valley    | Mountain Road   | 899           | Under slip     | Closed - Residents Only          | Construction  |
| West (Ventia) | Henderson Valley    | Mountain Road   | 1318/ 970     | Under slip     | Closed - Residents Only          | Complete      |
| West (Ventia) | Henderson Valley    | Mountain Road   | 636           | Under slip     | Closed - Residents Only          | Complete      |
| West (Ventia) | Henderson Valley    | Mountain Road   | 1387/ 1580    | Under slip     | Closed - Residents Only          | Complete      |
| West (Ventia) | Henderson Valley    | Mountain Road   | 1468          | Under slip     | Closed - Residents Only          | Complete      |
| West (Ventia) | Henderson Valley    | Mountain Road   | 2775          | Under slip     | Closed - Residents Only          | Complete      |
| West (Ventia) | Henderson Valley    | Mountain Road   | 1664          | Under slip     | Closed - Residents Only          | Complete      |
| West (Ventia) | Henderson Valley    | Mountain Road   | 1833          | Under slip     | Closed - Residents Only          | Complete      |
| West (Ventia) | Titirangi           | Ngaio Road      | 25            | Over Slip      | Open - Normal (Shoulder Closure) | Design        |
| West (Ventia) | Henderson Valley    | Opanuku Road    | 1280          | Under slip     | Open - Normal (Shoulder Closure) | Design        |
| West (Ventia) | Henderson Valley    | Opanuku Road    | 1550          | Under slip     | Open - Normal (Shoulder Closure) | Design        |
| West          | Titirangi           | Paturoa Rd 15   | 260           | Over slip      | Closed                           | On Hold       |
| West          | Titirangi           | Paturoa Road 17 | 260           | Retaining Wall | Closed                           | Construction  |
| West          | Titirangi           | Paturoa Road 15 | 262           | Under slip     | Closed                           | Design        |
| West          | Piha                | Piha Road       | 12755 (12782) | Under slip     | Open                             | Design        |
| West          | Piha                | Rayner Road     | 560           | Under Slip     | Open - Normal                    | Investigation |
| West (Ventia) | Massey              | Red Hills Road  | 2150          | Under slip     | Open - Normal (Shoulder Closure) | Design        |
| West (Ventia) | Waiatarua           | Scenic Dr       | 6580          | Under slip     | Closed                           | Design        |
| West (Ventia) | Waiatarua           | Scenic Dr       | 6735          | Under slip     | Closed                           | Construction  |

| Area          | Suburb           | Road Name           | Fault RP   | Failure type             | Road status                         | Stage         |
|---------------|------------------|---------------------|------------|--------------------------|-------------------------------------|---------------|
| West          | Swanson          | Scenic Dr           | 12500      | Road Surface             | Open - Normal                       | Complete      |
| West          | Titirangi        | Scenic Dr           | 900        | Under slip               | Closed                              | Complete      |
| West          | Titirangi        | Scenic Dr           | 750        | Under slip               | Closed                              | Complete      |
| West          | Waiatarua        | Scenic Dr           | 9500       | Under slip               | Open - Normal                       | Design        |
| West          | Waiatarua        | Scenic Dr           | 8250       | Under slip               | Closed                              | Complete      |
| West          | Waiatarua        | Scenic Dr           | 850        | Under slip               | Open - Normal                       | Complete      |
| West          | Waiatarua        | Scenic Drive North  | 1658       | Under slip               | Open - Normal                       | Complete      |
| West          | Oratia           | Shaw Rd             | 3720       | Road Surface             | Open - Restrictions                 | Design        |
| West          | Henderson Valley | Simpson Road        | 1850       | Bridge/structure Failure | Open - Normal                       | Complete      |
| West (Ventia) | Waitakere        | Stoney Creek Drive  | 775        | Over Slip                | Open - Normal                       | Investigation |
| West (Ventia) | Waitakere        | Stoney Creek Drive  | 850        | Under slip               | Open - Normal                       | Design        |
| West          | Titirangi        | Takahe Rd           | 261        | Under slip               | Open - Normal                       | Complete      |
| West (Ventia) | Titirangi        | Tanekaha Road 28    | 530        | Under slip               | Open - Single Lane - Traffic Lights | Investigation |
| West (Ventia) | Te Henga         | Tasman View Road    | 65         | Under slip               | Open - Single Lane                  | Investigation |
| West          | Waitakere        | Te Henga Road       | 1600       | Under slip               | Open - Normal                       | Complete      |
| West          | Titirangi        | Titirangi Beach Rd  | 375        | Under slip               | Open - Normal                       | Complete      |
| West          | Titirangi        | Titirangi Beach Rd  | 735        | Under slip               | Open - Normal                       | Complete      |
| West          | Titirangi        | Titirangi Road      | 4246 (418) | Under slip               | Open - Normal                       | Complete      |
| West          |                  | Vineyard Road       | 615        | Under slip               | Open - Normal                       | Complete      |
| West          | Waitakere        | Wairere Road        | 3427       | Under slip               | Open - Single Lane                  | Complete      |
| West          | Oratia           | West Coast Road     | 5267       | Under slip               | Open - Single Lane                  | Construction  |
| West          | Titirangi        | Woodlands Park Road | 1511       | Under slip               | Open - Single Lane                  | Design        |
| West          | Massey           | Yelash Road         | 538        | Under slip               | Open - Normal                       | Complete      |
| West (Ventia) | Blockhouse Bay   | Taunton Road 45     | 119        | Under slip               | Open - Single Lane                  | Complete      |
| West (Ventia) | Huia             | Whatipu Road        | 3762       | Under slip               | Open - Single Lane                  | Complete      |
| West (Ventia) | Titirangi        | Huia Road 634       | 6384       |                          | Open - Single Lane                  | Design        |
| West (Ventia) | Piha             | Karakare Road       | 0.366      | Overslip                 | Open - Single Lane                  | Design        |
| West (Ventia) | Laingholm        | Warner Park Ave 38  |            | Under slip               | Open - Normal                       | Investigation |
| West (Ventia) | Swanson          | Tram Valley Rd 25   | 1511       | Road Surface             | Open - Normal                       | Investigation |
| West (Ventia) | Titirangi        | Huia Road 177-199   | 1485       | Under slip               | Open - Normal                       | Complete      |