

# Transmission Gully Project

Monthly Report to WGP

June 2018

TG-CPBH-RPT-ALL-GE-9173 Rev 00



**CPB HEB**  
Joint Venture





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**Monthly Report to WGP June 2018**



**Contents**

Executive Summary .....	4
Safety and Health .....	6
Construction .....	12
Environment .....	20
Communications / Stakeholder .....	23
Resources .....	24
Commercial .....	26
Quality .....	29
Appendix A: Media Monitor .....	33
Appendix B: Progress Reporting – Design .....	36
Appendix C: CPBHJB JV Top Risks and Opportunities .....	37
Appendix D: Overall Staging Plan .....	41
Appendix E: TG Notice Registers .....	42
Appendix F: Procurement Status .....	43
Appendix G: Reconciliation of Payment Claims and Invoices to Date .....	44
Appendix H: Monthly Progress Claim Graph .....	45
Appendix I: Revenue Flow Graph / Table .....	46
Appendix J: Cash Received .....	47
Appendix K: Programme Dashboard .....	48
Appendix L: Non Conformance Reports .....	49
Appendix M: Construction Programme – Key Milestones .....	50
Appendix N: Photos .....	51

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## Executive Summary

Over 4.38 million man hours completed on the Project to date. There were no recordable incidents during the month of June. s 9(2)(b)(ii)

Transition of Project Directors from Boyd Knights to Justin Redelinghuys occurring by 4 July 2018.

### Key Achievements:

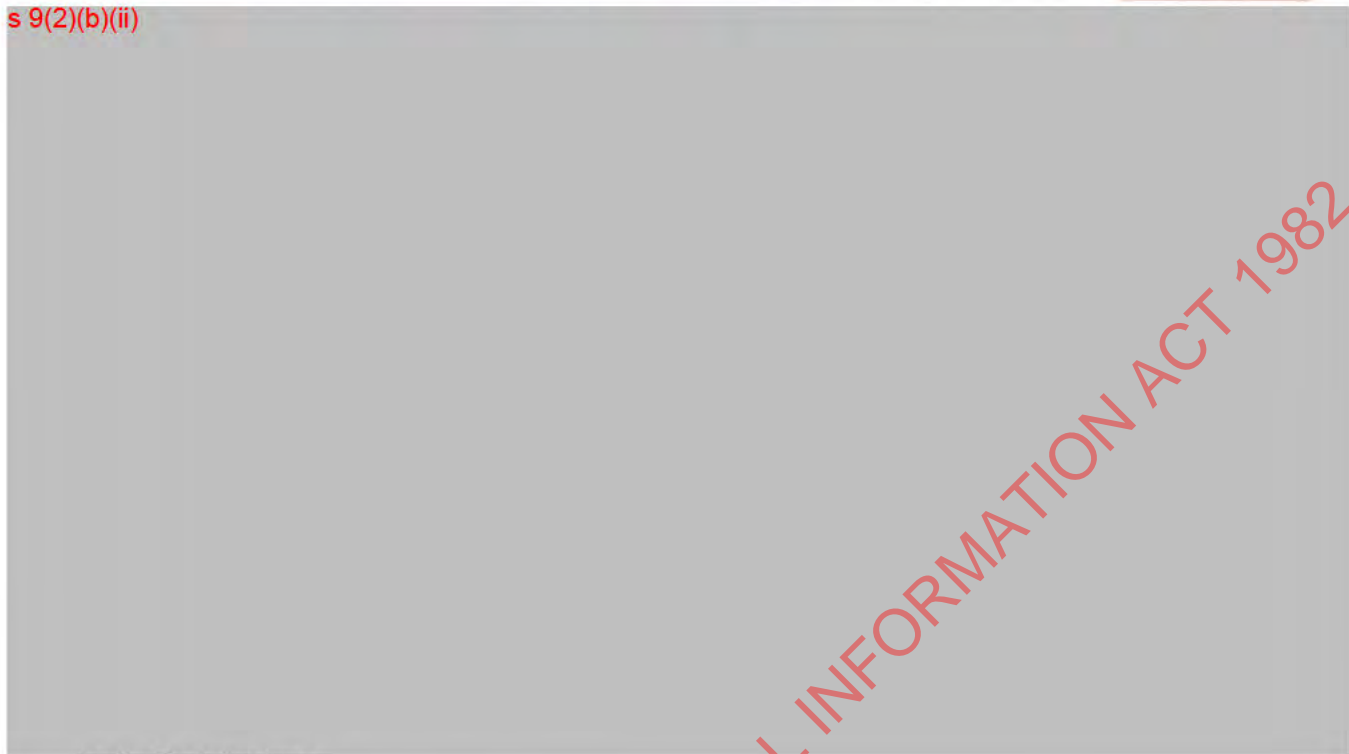
- s 9(2)(b)(ii)
- Completed subgrade for both the northern and southern Coast Rd tie-ins
- Completed access track to Cuts 5A and 5B
- Te Puka Section 4 Stage 1 Rip Rap channel 100% complete
- Horokiri Section 4: Stage 2 earthworks 100% complete.
- Fill 19A Stream Diversion has had all clearing and access completed.
- SH58: Two layers of subgrade have been installed to the western roundabout.
- BR19 final subsoil connection under the old watermain has been connected and foundation treatment commenced.
- Undercuts at RW7 and RW9 have been completed and handed over to the MSE Wall team.
- Bridge 26 Stage 1 stitch pours to concrete edge barriers completed on the bridge and northern L walls.
- RW4 – Capping beam and facing panel footing construction completed.
- ITS installation complete south of Bridge 26.
- Longitudinal drainage in Cut 47 complete.
- Bridge 6: The installation of the bridge barriers is complete.
- Bridge 13: The installation of the Super-T girders is complete.
- Bridge 20 Pier 2: First column pour complete.
- Bridge 20 Superstructure: The fabrication of the launch nose is complete and is currently being shipped to New Zealand due for delivery first week of August.
- ITS integration workshops have commenced.

s 9(2)(b)(ii)



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s 9(2)(b)(ii)



Justin Redelinghuys

Project Director, D&C – Transmission Gully

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**Safety and Health**

Overview

- 66 project inductions conducted during June.
- s 9(2)(b)(ii)
- 28 Constructsafe assessments undertaken in June.
- s 9(2)(b)(ii)
- Ninth TG Subcontractor Forum held.

Project Hours

Project Hours @ June 2018				
Area	Life Of Project	Last Month	This Month	12MR*
TG Project Total**	4,387,223	181,587	129,905	1,970,387

\*\* Excludes Early Works Hours

\*12MR = 12 Month Rolling Total

s 9(2)(b)(ii)

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## Construction

### Overview

s 9(2)(b)(ii)

Despite the lack of continuity Te Puka crestal cuts remain ahead of program and Section 5 of Te Puka has now been handed over to Mills Albert in the critical path B1 area.

In Zone 1, southern and northern tie in works continue on the Coast Road with the southern tie-in expected to be complete mid-August after which traffic will be switched. The main Coast Road switch is forecast for late November and program opportunities to bring this date forward are currently being reviewed. Liquefaction works at Bridge 2 continue with Abutment B expected to be available early August. Excavation at the Bridge 3 northern block continues as do geotechnical investigations. s 9(2)(b)(ii)

Construction of the final stream bed surface at Te Puka Section 4 continues. At Horokiri, armour rock placement in Section 5 has been completed.

In Zone 2, Bridge 4 MSE works continue with completion expected early August. At Bridge 6 barrier works are underway. At Bridge 11 wall remedial works have been required which has slowed progress. Bridge 13 Abutment works have been completed with beams expected to be placed early July with Bridge 14 Abutment B MSE works also completed. s 9(2)(b)(ii)

Retaining Wall 4 has now been completed. Foundation treatments for Retaining Wall 7 and 9 continue with RW 7 expected to be underway mid-July.

s 9(2)(b)(ii)

Column construction is now underway at Pier 2. Assembly of the column jump form system at pier 2 has been completed. At the launch yard all of the girders for the first launch are now on site.

### Zone 1

#### Achievements

- Completed subgrade for both the northern and southern Coast Rd tie-ins
- Commenced subsoil installation in section A1
- Completed access track to Cut 5A and commenced soil nail installation
- Completed access track and contour drain to Cut 5B
- Te Puka Section 5: Stage 1 rip rap 50% complete; Section 4: Stage 1 rip rap channel 100% complete





## Monthly Report to WGP June 2018

- Bridge 3 north block excavation commenced. Rock strength testing for arch foundation underway.
- Horokiri Section 4: Stage 2 earthworks 100% complete. Section 5 commenced northern tie-in. Section 1 and 2 completed de-fishing and commenced stream works.
- Slope stabilisation Cut 3.01NB to Cut 6.11NB ongoing. 1400m soil nails and sub-horizontal drains installed during June.

### Upcoming Milestones

- Lateral shift of traffic lanes at gate 2 in July
- Start Bridge 3 stream diversion, following north block excavation
- Liven Horokiri Section 5 stream channel late June

### Challenges and Mitigation

s 9(2)(b)(ii)

## Zone 2

### Achievements

- s 9(2)(b)(ii) The majority of areas are now sealed up over winter ready for next season; however Bridge 19 continues to be an area of production.
- BR08 Abutment A foundation is ready for the MSE Team. BR08 Abutment B cement stabilising foundation material has commenced.
- C2/3 has been 75% stabilised with polymer / hay mulch ready for winter.
- Fill 19A Stream Diversion has had all clearing and access completed. Permanent stream diversion remains to be completed (excavating and rip rap). Completion is planned for early August.
- Major Culvert Headwall 14455 has commenced with the base slabs poured at both ends. Reinforcing supply issues are causing big delays here.
- C2/3 winter works are the Major Culvert Headwalls along with gully muck out and preparation for culverts at the SH58 end.
- SH58: Two layers of subgrade have been installed to the western roundabout with the final two layers required before the longitudinal drainage can commence. CCL (drainage subcontractor) is due to commence in the middle of June.
- Utilities culvert has been backfilled and Cut 28 (access track for watermain) has also been completed.
- BR19 final subsoil connection under the old watermain has been connected, foundation treatment has now commenced and bulk fill will start in mid-July.

### Upcoming Milestones



**Monthly Report to WGP June 2018**

- SH58 Foundation Treatment Completion (for new SH58 route).
- Commencement of SH58 longitudinal drainage.
- Completion of major culvert headwall for STH/21310.
- Commencement of Fill 30 (first 1:1 wall in Zone 2)
- Commencement of Fill 35.02 (BR19) bulk fill operation.

**Challenges and Mitigations**

s 9(2)(b)(ii)

**Zone 3**

**Achievements / Milestones**

**Section F1**

- Bridge 27 – Abutment A RSE Embankment construction – remains at 20% complete due to inclement weather this month. Abutment B RSE embankment undercut ongoing – 20% complete.
- CLR2 Widening Works at Bridge 27 – Abutment B ongoing. s 9(2)(b)(ii)
- Undercuts at RW7 and RW9 have been completed and handed over to MSE Wall Team.
- Subgrade preparation works have commenced and ongoing on the 35 Kenepuru Drive Link Road.

**Section F2**

- Processing of Cut 42 material for RSE / MSE Embankments – ongoing. Overall 67% complete. Fills 43 and 44 – 90% complete by volume with remainder on hold until Phase 2 traffic switch complete.

**Section F3**

- Bridge 26 Stage 1 – Stitch pours to concrete edge barriers completed on the bridge and northern L-Walls. Southern L-Wall stitch pours remaining. s 9(2)(b)(ii)
- Bridge 25 – Abutment A RSE and MSE Embankment construction ongoing – 66% complete. Abutment B RSE and MSE Embankment construction commenced – 8% complete.





## Monthly Report to WGP June 2018

- Bridge 25 – Pier 3 Headstock reinforcement placement ongoing. s 9(2)(b)(ii)
- Subgrade preparation works ongoing in Cut 46 and Bridge 26 Stage 1 – Southern approach embankment.
- ITS installation complete south of Bridge 26. Remaining installation scheduled to be completed in July.
- Road lighting installation along SH1 ongoing northbound.
- RW4 – Capping beam and facing panel footing construction completed.
- RW5 – Capping beam and facing panel footing construction ongoing – 55% complete.
- Longitudinal drainage installation completed in Cut 47; remaining drainage installation works being completed at Tremewan Street.

### Upcoming Milestones

- Completion of Bridge 26 Stage 1 – Approach embankments.
- Completion of noise wall installation at Bridge 26 including approaches.
- Completion of Cut 45 Construction Platform and handover to Pavement Team.
- Completion of RW5 capping beam and facing panel footings.
- Completion of CLR2 SH1 Southbound widening works at Bridge 27 – Abutment B.
- Completion of Bridge 25 – Abutment A & B RSE Embankment to a sufficient level to facilitate bridge abutment construction.
- Completion of ITS and Road Lighting installation to facilitate Phase 2 traffic switch.
- Commencement of pavement construction in Cut 45 and South of Bridge 26.
- Concrete placement to Bridge 25 – Pier 3 headstock.

### Challenges & Mitigation Strategies

s 9(2)(b)(ii)

## Structures



### Achievements

- MCK1850: The installation of the formwork on the outlet structures is complete and the structure will be poured next week.
- Bridge 6: The installation of the bridge barriers is complete.
- Bridge 13: The installation of the Super-T girders is complete.
- Bridge 20:
  - Pier 1: 8 of 11 foundation concrete pours completed.
  - Pier 2: First column pour completed.
  - Superstructure: The fabrication of the launch nose is complete and is currently being shipped to New Zealand due for delivery first week of August.

### Upcoming Milestones

- Bridge 6 – Final completion.
- Bridge 11 – complete the construction of the walls.
- Bridge 20:
  - Pier 1 – Installation of the column cage and cradle
  - Pier 2 – Complete the second column concrete pour.
  - Take delivery of the launch nose.
- Culvert Headwall CH1850: Complete both (Inlet & outlet) wing wall concrete pours.

### Challenges

s 9(2)(b)(ii)

## Utilities and ITS

### Achievements

- ITS integration workshops have commenced. Two workshops held in June with further workshops scheduled for the next 3 months.
- First pipe deliveries for the Te Marua bulk water relocation
- First luminaries delivered for street lighting
- Chorus relocation commenced (SH58)





### Milestones

- Bridge 19 permanent bulk water relocation – September - November
- Te Marua bulk water relocation – June – August
- Commencement of street light installation – July

s 9(2)(b)(ii)

### Project Wide Works

#### Achievements

- All Keystone Block MSE walls 35% complete across the Project. Works currently in progress on Bridge 12, 25, and RW2.
- REL walls 34% complete across the Project with works currently underway on Bridges 2, 4, 14, 14A, and 15.
- Reinforced Earth Ltd have commenced fabrication of panels for Bridge 19 (73% complete).
- IFC Design for BR2, BR3, BR4, BR6, BR8, BR14, BR14A, BR15
- FDD Design for BR13
- ITS Duct, lighting conduits and chambers installation ongoing at Kenepuru as part of Phase 2 traffic switch.
- Landscaping mitigation planting commenced in Te Puka, Horokiri and Pauatahanui catchments. Geosock installation 20% complete across the project and ongoing stabilisation with final hydro seeding treatments on cut and fill batters.
- 125 goats to date have been terminated prior to planting commencing.



## Monthly Report to WGP June 2018

- The mitigation fencing program continued through June. The team has started work up in the Te Puka and Horokiri catchments.
- Lateral shift of the traffic lanes at SH58 has been completed allowing foundation improvement works to commence. Temporary speed limit increased to 50km/hr.

### Upcoming Milestones

- Bridge 16; Bridge 28; RW7; RW9 Mechanically Stabilised Earth (MSE) Walls are expected to commence in July.
- ITS Duct and Chambers Installation to areas E1, E2, C1, and SH58 interchange crossings. Approximately 3km of subgrade at level to allow these works to commence.
- Permanent Barrier and line marking installation as part of the Phase 2 traffic switch at Kenepuru from July.
- Traffic Management:
  - Paekakariki Southbound lane shift programmed for July (Gate 2). Ongoing closures at Kenepuru interchange to accommodate shoulder widening works, trialling of alternate traffic separation device to be undertaken.
  - At Linden there will be various night closures through July to allow for shoulder widening activities. This is preparation works for the Stage 2 Traffic Switch. Through July – August variable speed zones will be implemented on both the southbound and northbound lanes. These zones will be posted at 80km/hr and 70km/hr once the traffic switch is completely implemented.

### Challenges and Mitigation

s 9(2)(b)(ii)

## Pavements / Stage 2 Earthworks

### Achievements



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- Willowbank Quarry – s 9(2)(a) [redacted]  
signed allowing NZTA to sign-off on affected party approval. Iwi consultation has been completed with a site visit.

**Milestones**

- Nil

**Challenges and Mitigation**

s 9(2)(b)(ii) [redacted]

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## Communications / Stakeholder

### Community Engagement

#### Stakeholder Concerns and Issues

Planning for the broad community engagement about the upcoming traffic switches on SH1 is underway. We have a draft Comms Plan for the SH1 switch and are working with the NZTA Communications Representative, s 9(2)(a) to progress.

A separate Comms Plan will be drafted for the affected community around Br26 for the demo and ongoing night works. WCC has approved night shift work for the FRP works for phase 2 of Br26 until January s 9(2)(b)(ii)

Belinda has given presentations on the project to Porirua RSA, Wellington High School and Mana U3A this month. Several Rotary and Lions clubs are seeking speakers for Jul and August. Dates for these will be confirmed.

The Project will be involved in the upcoming IPENZ Week of Engineering in August as per last year and will host a group of students for a site tour and will be present at the Wellington Expo to be held at Shed 5.

#### Visitor Centre

The visitor centre is currently located in Dolly Varden Park beside SH1 in Mana. We are reviewing the content and imagery with a view to refreshing prior to the move to Wellington in September.

### Communications

#### Construction Updates / Quarterly e-Newsletter

June newsletter is awaiting dispatch.

#### Website

We had 13,482 page views in the month of June.

#### Radio Interviews

- Fred Witton – Area Manager – Pavements
- Tom Puxley – Project Engineer for Bridge 26
- Belinda Mackenzie-Dodds – Community Stakeholder Manager



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s 9(2)(b)(ii)



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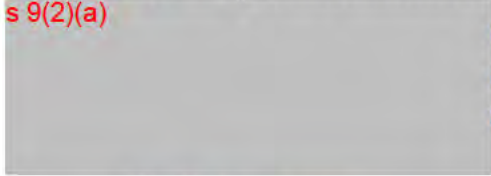


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New People

The following staff commenced on the Project during the month of June:

s 9(2)(a)



- Graduate Engineer
- Graduate Engineer
- Supervisor

Staff Turnover

Rolling average for period June 2017 to June 2018 is 15.65% up from 12.28% last month.

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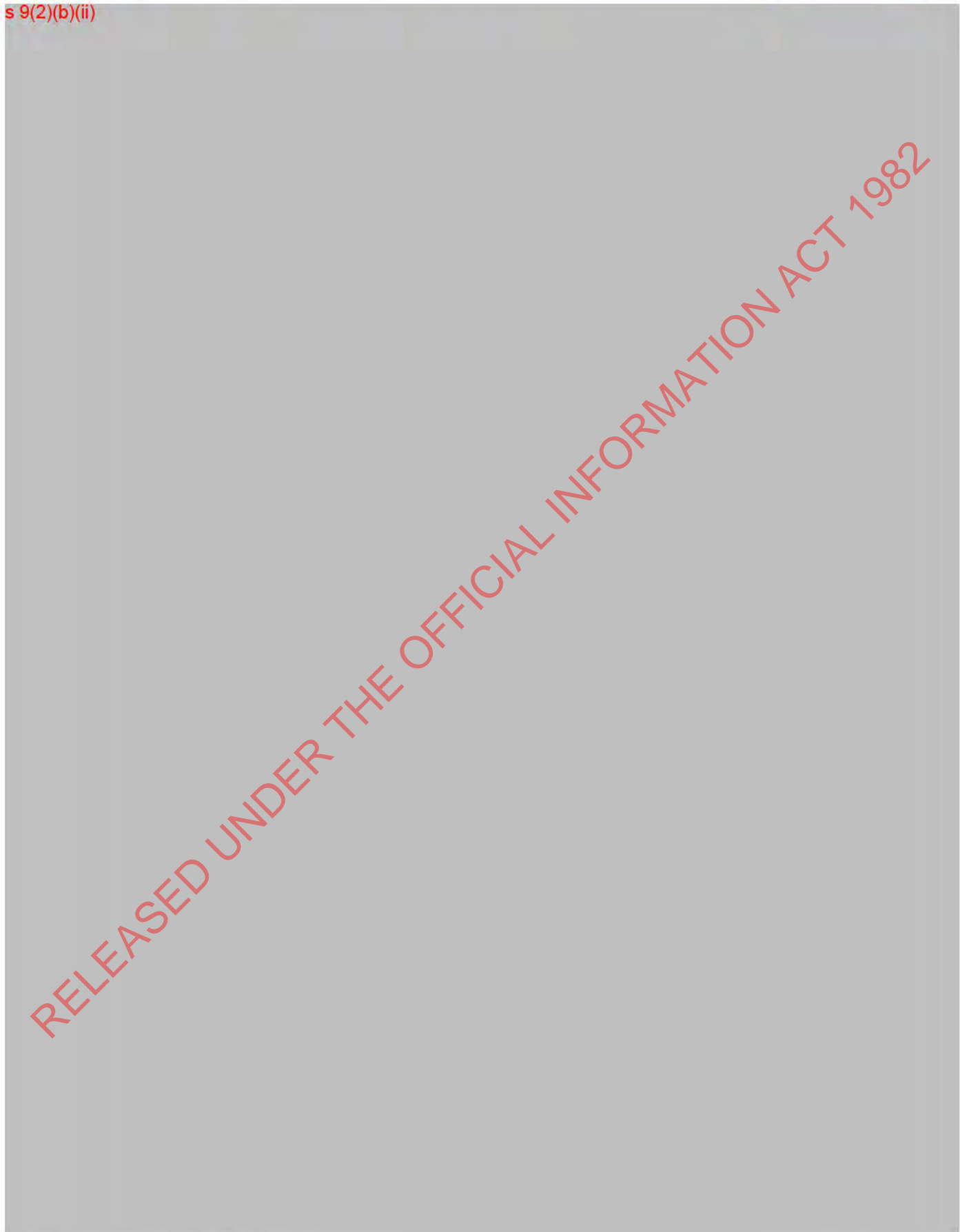
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**Appendix A: Media Monitor**

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News Media



[Transmission Gully motorway looks likely to be user-pays after Labour ...](#)

Stuff.co.nz-16 hours ago

Paying to use the **Transmission Gully** motorway is creeping closer to reality after the Transport Minister was warned the \$852 million road north ...



[Wellington's Transmission Gully motorway project hits halfway mark](#)

Stuff.co.nz-10/06/2018

The countdown is on: **Transmission Gully** is halfway finished and set to open in two years' time. Work on the \$850 million, four-lane motorway ...



[Wellington's Transmission Gully opens \(but still two years till it opens\)](#)

Stuff.co.nz-2/06/2018

**Transmission Gully** road works, looking from Pauatahanui south towards Tawa, in December taken by Leo Cooney from Manawatu Aviation ...

[Porirua city decides against allocating \\$11 million for strategic property](#)

The Dominion Post-6/06/2018

The council is preparing itself for the impact of **Transmission Gully**. Pictured here looking from Pauatahanui south towards Tawa. (File photo).

[NZTA knew about substandard Chinese steel, emails show](#)

Newshub-6/06/2018

The emails also show steel planned for use in Wellington's **Transmission Gully** project didn't have to be tested at all. NZTA said it has since ...

Social Media

Like Page

Stuff

3 hrs ·

Paying to use the Transmission Gully motorway is creeping closer to reality. Would you be happy to pay a toll?



STUFF.CO.NZ

**Transmission Gully motorway looks likely to be user-pays after Labour shifts gears on tolling**

NZTA concerned that new \$850m motorway north of Wellington may make driving too attractive.

[262 Comments](#)

[15 Shares](#)

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**Appendix B: Progress Reporting – Design**

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**Appendix C: CPBHEB JV Top Risks and Opportunities**

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s 9(2)(b)(ii)



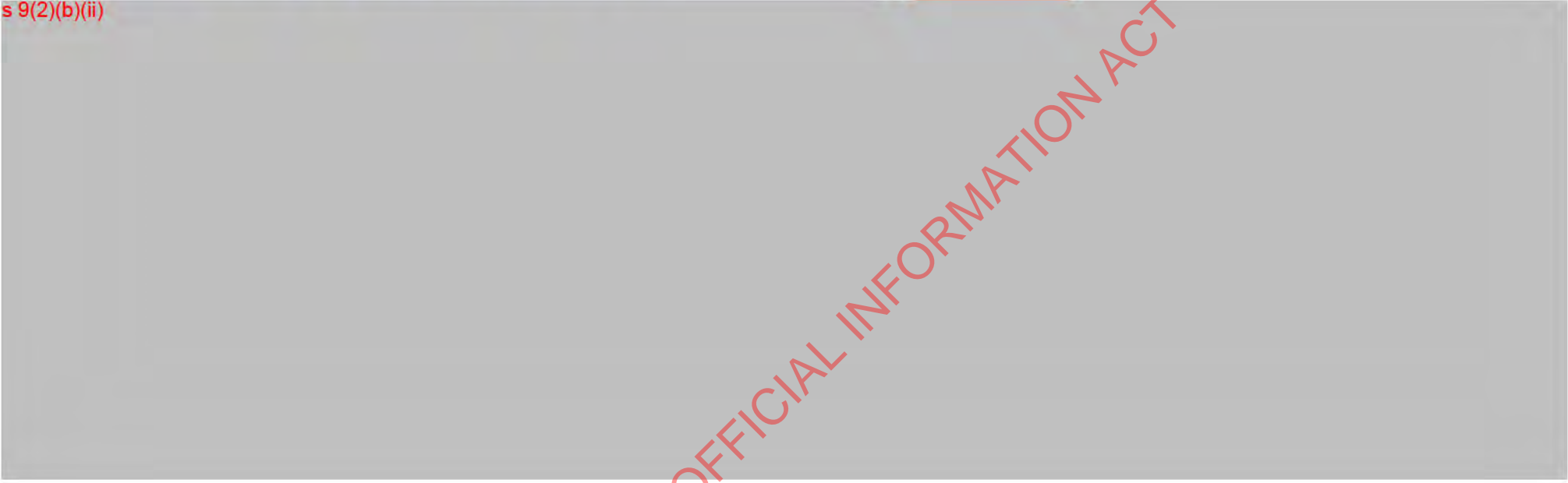
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**Appendix D: Overall Staging Plan**

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**Appendix E: TG Notice Registers**

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**Appendix F: Procurement Status**

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**Appendix G: Reconciliation of Payment Claims and Invoices to Date**

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**Appendix H: Monthly Progress Claim Graph**

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**Appendix I: Revenue Flow Graph / Table**

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**Appendix J: Cash Received**

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**Appendix K: Programme Dashboard**

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**Appendix L: Non Conformance Reports**

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**Appendix M: Construction Programme – Key Milestones**

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**Appendix N: Photos**

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Zone 1



Photo Above: A1 Coast Rd Swale drain Fill 1 batter Ch 850 - 600



Photo Above: B1 Bridge 3 Excavation



Photo Above: B1 Cut 5B access track

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Photo Above: B1 Te Puka 5 Stream Diversion



Photo Above: Ch. 6700



Photo Above: Horokiri 4



Zone 2



Photo Above: Bridge 19



Photos Above: Cut 26



Photos Above: Cut 35 Stabilisation





Photo Above: James Cook Interchange



Photo Above: SH58 Interchange

Zone 3



Photo Above: Bridge 26 - Northern approach embankment





Photo Above: CLR2 SH1 SB widening works - construction platform



Photo Above: Cut 45 - Construction Platform



Photo Above: Retaining Wall 4 capping beam and precast panel foundation complete



Photo Above: Stabilisation works to Cut 42

### Structures



Photos Above: Bridge 13 Beam



Photo Above: Bridge 20 Launch Nose





Photos Above: Bridge 20 Superstructure – Deck Panels



Photo Above: Bridge 20 – Pier 2 Column Pour

Project Wide



Photo Above: Bridge 2



Photo Above: Bridge 4



Photo Above: Bridge 15



Photo Above: Bridge 25A - SH1

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Photo Above: ITS backbone



Photo Above: Pauatahanui Stream

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