

No. 24 – June 2019 Monthly Progress Report

Bay Link Upgrade Project

CPB Project No. NZ1001
NZTA Contract No. 2/09-024/603



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EXECUTIVE SUMMARY

There have been no injuries or lost time incidents in this period. The projects last work-related injury occurred over 12 months ago, TRIFR remains at 0. During the month a Chorus duct was damaged while hand digging amongst tree roots with a wreacking bar, subsequently the use of wreacking bars being used as excavation tools have been banned on site. A successful subcontractor forum was held during the month which included participation from CPB SHEQ GM, NZ GM & OM. The targeted number of task observations and workplace inspections were not achieved during June.

BoPRC conducted a site visit 12 June 2019, the issued field sheet scored the site as compliant. Vibration monitoring is ongoing in areas 2C as pavement and footpath works progress, all results continue to be within the consented limits.

The B2B Team is in the process of a team re-structure and will be undertaking a "Quality Workshop" in the coming weeks to look at ways to streamline processes. Two joint quality audits were conducted during the month between BECA & CPB with a further three internal audits conducted by CPB Quality Manager.

Eight complaints were received during June. A Maunganui Road property owner requested compensation for the loss of rental income claiming the last flat mate moved out, this request was politely declined. There were two complaints about rubbish bins not being taken to the Concord Avenue collection point, or not returned the same day. A motorist raised concerns regarding the quality of traffic surface following night shift drainage works, the permanent reinstatement was completed the following evening. A traffic sign was relocated to increase visibility of a resident following a complaint. Two complaints were for vehicle damage, one from an airborne road cone the other a resident of SH2 is claiming compensation for damage to the bottom of his vehicle which scraped while entering his property following reinstatement by CPB. Another complaint was received about the rough temporary driveway entrance on Maunganui Road, there was no car damage and the issue since resolved.

Design progress continues. A bar chart program for design completion has been completed and is being monitored. Three Weekly Design meetings continue between T&T/CPB, JDT/CPB and T&T/CPB/JDT. Meetings with PA are as required. Overarching report is underway. Sight distance departures have been submitted, aquaplaning departure submission is imminent.

Construction at MGI has continued with completion of subgrade improvement to Area 2B - northern side of Matapihi Road. We have completed removal of organics and the import of fill, installation of stormwater and service relocations in area 2A - north of MGI Area 2C - south of MGI, pavement construction has continued following completion of subgrade prep, while streetlight ducting, footpath and driveway preparation is underway in preparation for the July traffic switch. Stone column installation in area 1E - triangle is now completed with quality documentation being reviewed by T&T. Area 1E - TEL, SH2 mainline boxcut has commenced in preparation of pavement works, while stone column installation in this area is nearing completion. Area 1D subgrade trim around the roundabout has been completed test results provide compliant CBR and density results, however Benkleman Beam deflections of 1.1mm are not being achieved. Chorus relocation work has begun in area 2E from the trial embankment to the recently closed slip lane. The relocation of services along this length of SH2 will open an area to allow an early start for stone columns.

A revised baseline programme has been prepared to confirm the programme impacts to date with the no Underpass decision which was announced 28 June. This programme is currently under internal review prior to formal submission. The programme indicates Contractors Target Completion mid-2021 with the Contract Completion late 2021. Progress in the north has not meet targets due to the removal of Organics and subgrade improvement works, while in the south stone column sign off has hindered progress. It was a great month stone column wise as productivities over the month of June are double the historical average.

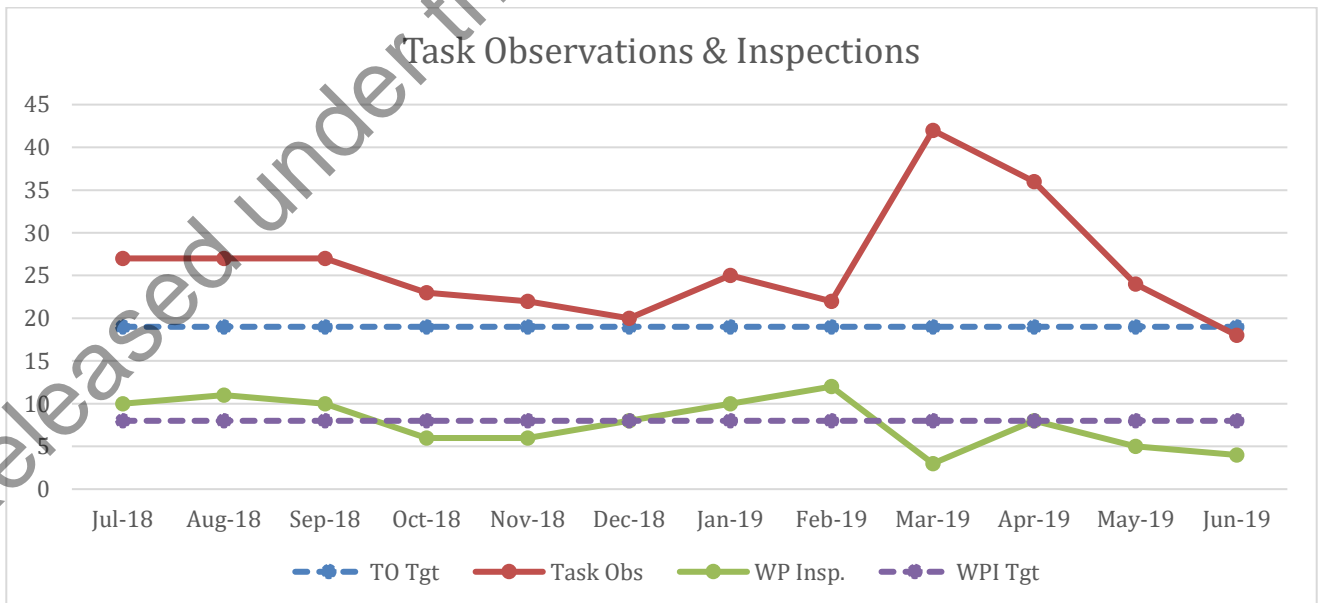
Two traffic incidents occurred during May 2019. During May 2019 TM audits scored 15 and 5, average 10. Target is for scores 15 or less. The overall trend during June was that traffic on the majority of routes was flowing well, with the time taken to travel through the project area either less than the May 2017 baseline or well within the allowable additional five-minute delay.

HEALTH & SAFETY

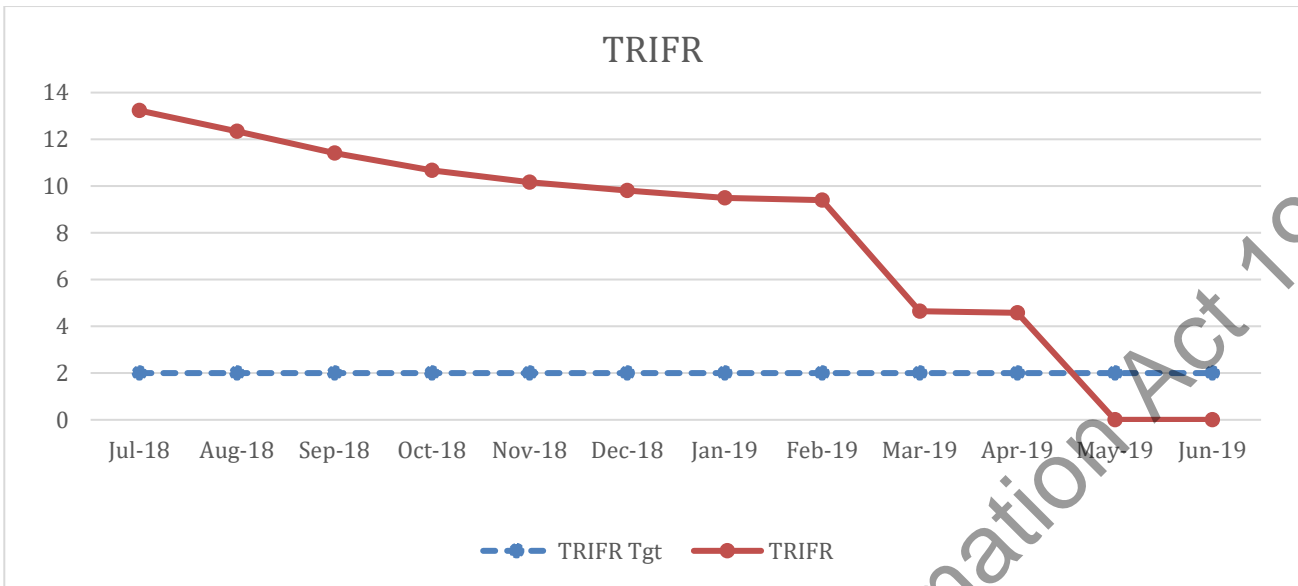
Lead Indicators	Target	Actual	Status	Comments
Toolbox Meetings	4	5	●	Topics: Monthly and weekly toolbox talks
Workplace Inspections	8	4	●	Target not achieved. Schedule to be posted on office wall for more ownership and accountability
Task Observations	19	18	●	Target not achieved. Target to be changed to reflect new structure
Safety Committee Meetings	1	1	●	Committee meeting held on 26.06.19
Leadership Walk & Talk	1	3	●	Dean Taylor & Iveshan Lauten / Iveshan Lauten & Paul Dalton / Iveshan Lauten & Mike Cassidy
Lag Indicators	Target	12mth Rolling	Status	Comments
TRIFR	2	0	●	No injuries reported in month of May
LTIFR	0	0	●	No lost time injury incidents reported
Work Hours	Month Total	Project Total	Comments	
Man-hours: CPB	7400	163680	nil	
Man-hours: Subcontractors	11083	193780	nil	
Man-hours: Project total	18483	357460	nil	

Key: Achieved ●
Not achieved ●

Lead Indicators:



Lag Indicators:



Commentary:

- Incidents during the month of June 2019 – Damage to duct containing live chorus line in area 2C. A drainage bar was used to clear hard ground encountered around a host of services. This was not the approved methodology and since the incident and debrief this piece tool has been banned from all digging related activities on site.
- Successful quarterly sub-contractor forum on 13th June 2019. Topics of discussion included innovative safety ideas, initiatives that have come out of the recent service incidents and a focus on the CIMIC 'Everyone Safe' campaign.
- CPB EGM SHEQ Manager site visit on 13th June 2019. Visit included attendance to sub-contractors forum as well as a general site walk around. Feedback from the visit was encouraging and positive, this was echoed to the wider team at the next morning's prestart and toolbox.
- Safety culture on site has improved significantly, and the site has maintained a TRIFR of 0 for the second successive month. This also signaled 12 months MTI free for the project and a BBQ was held in celebration with a focus placed on maintaining this level.
- Leadership walk, and talks conducted by Dean, Paul and Evo in June found the following.
 - Team are more aware of the critical risks on project.
 - The team involved in the chorus line near miss have come up with a solution for the hard ground issue moving forward – the use of a hydro-unit.
 - Emergency response plans and methodologies need to be further communicated to the teams.
 - Risk assessment to be conducted on smaller plant that is on site without the red/green light system.



1 ENVIRONMENTAL

Consents:

Permit	Description	Compliance	Status	Comment
66788A	INSTALL 20 GEOTECHNICAL BORES - MGI	100%		37/37
67198A	INSTALL A BORE - INVESTIGATIVE PURPOSES	100%		25/25
TRGCC-NZTA1	DESIGNATION FOR ROAD PURPOSES ROAD AS STATE HIGHWAY	100%		106/106
TRGCC-NZTA9	B2B RAIL RELOCATION PERMIT	94%		1 pending, 30 completed - NZTA permit - rail relocation (planting and project boundaries)
TRGCC-NZTA12	B2B RAIL RELOCATION PERMIT - Mt MAUNGANUI BRANCH RAILWAY	91%		2 pending, 30 completed - NZTA permit - rail relocation (planting and project boundaries)
TRGCC-NZTA14	STATE HIGHWAY 2 (PROPOSED ROAD WIDENING - TAURANGA EASTERN MOTORWAY)	100%		53/53
TRGCC-NZTA4	SH29 INTERSECTION TO TRUMAN LANE	97%		1 pending, 34 completed - Planting in accordance with landscape plan – to be completed
RM16-0178-DC.01	TO TEMPORARILY DISCHARGE TREATED STORMWATER TO THE OMANU GOLF CLUB	79%		3 pending, 11 completed
66788B	DISCHARGE DRILLING FLUIDS TO LAND - MAUNGANUI ROAD, GIRVEN ROAD, AND MATAPIHI ROAD INTERSECTION	100%		37/37
67198C	DISCHARGE DRILLING FLUIDS TO LAND - MAUNGANUI ROAD, GIRVEN ROAD, MATAPIHI ROAD, SH29 AND SH2	100%		25/25
RM16-0178-DC.02	TO DISCHARGE TREATED STORMWATER TO THE OMANU GOLF CLUB SIDE DRAIN	59%		13 pending, 19 completed. Stormwater discharge criteria to be maintained throughout construction
2015/1024	TO UNDERTAKE THE BAY PARK TO BAYFAIR UPGRADE BETWEEN MAUNGANUI/GIRVEN ROAD	80%		3 pending, 12 completed
RM16-0178-BC.01	TO CONSTRUCT (OR MODIFY) STORMWATER STRUCTURES	70%		11 pending, 25 completed
68126 A-D	TO UNDERTAKE EARTHWORKS ASSOCIATED WITH THE CONSTRUCTION OF THE BAYPARK TO BAYFAIR UPGRADE	76%		19 pending, 59 completed - Ongoing construction and maintenance monitoring. To be closed at end of earthworks
67198B	TAKE WATER FOR WELL TESTING PURPOSES	100%		25/25
RM16-0178-WT.01	TO TAKE GROUNDWATER FOR THE DEWATERING OF CONSTRUCTION SITES	100%		11/11

Key:	Status	Criteria
		>90%
		0-90%

Inspections and Observations:

Inspections/Observations	Target	Month	Status	Comment
Task Observations	4	5		Nil
Environmental Inspections	4	6		Weekly and two post rainfall inspections conducted

Commentary:

- BoPRC site field sheet issued after site visit on the 12th June 2019. Site deemed as compliant and instruction given to let BoPRC know of any post rainfall inspections carried out.
- Vibration monitoring is ongoing in areas 2C for pavement and footpath works. All results are within the consented limits.
- Noise monitoring carried out during night shifts. TCC have approved the construction night works and will pass on any complaints to the construction team.
- Water quality testing done at outlets in Omanu golf course and across SH29A at Baypark outlet. All levels within discharge consent condition levels.
- Permits -
All site dewatering permits have been closed out.
Vegetation clearance permit issued for swale construction in the triangle.

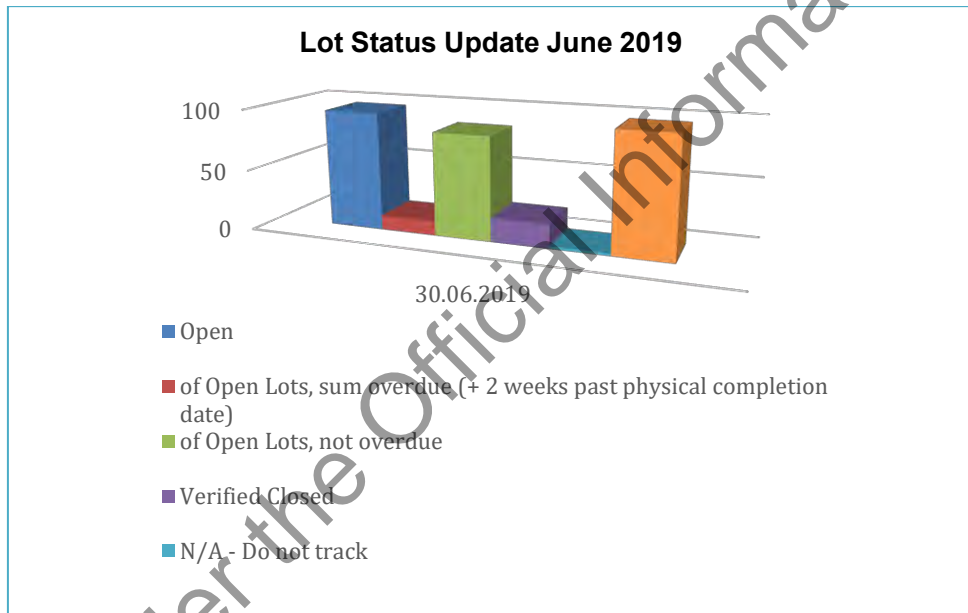
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QUALITY

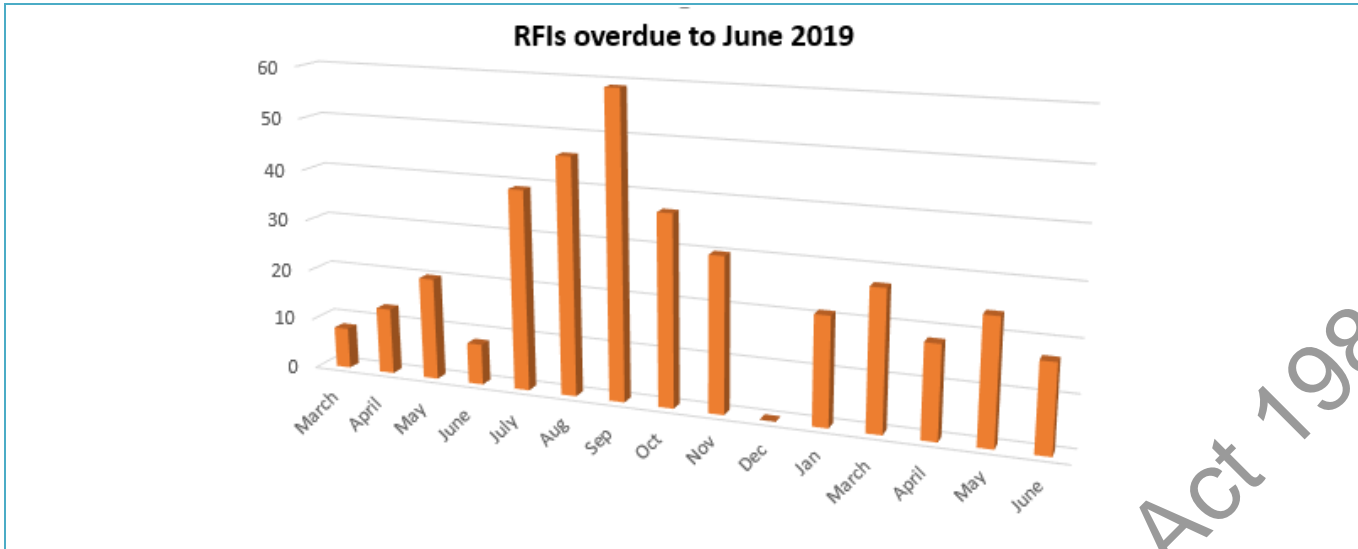
Lead Indicators		Status	Comments
Lots Overdue	12		Significant work with lots being undertaken
RFIs overdue	17		Designers working through RFI's
NCRs Raised	0		Nil

Key

Status	Lots	RFIs	NCRs
	0-5	0-5	0
	6-10	6-10	0-4
	10+	10+	5+



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Quality Team News:

- The B2B Team has had a team re-structure at the end of June and will be undertaking a “Quality Workshop” in the coming weeks to undertake a “Re-set” of QA Thinking and how to!
- This will be driven by 3 key points = “Structure, Discipline and Planning”

Testing:

- On site testing is being undertaken in many forms. Settlement and Monitoring testing will be on-going, and site testing is being regularly completed by Coffey’s staff for all the CPB team testing needs. The QA Team is currently working with Coffey’s to fine tune the testing data and how best to use this.

Audits:

- 2 Quality Joint Audits were conducted this month with Beca on the QA Documentation and will continue these audits going forward to assist both party’s in best practice for the project.
- 3 Internal Audits were completed by the QM on site and actions have been submitted to the team for review.


Reporting:

- Design Verification Report review was conducted this month, with a collaborative meeting taking place between CPB, Tonkin+Taylor, Beca and NZTA to discuss the design Reports required for the project. A collaborated decision was made amongst all for CPB to provide a Monitoring report quarterly and a final DVR in conjunction with the designers to be submitted upon project completion.

Completion:

- Below is a projection chart for progress of QA for B2B project, we look forward to watching this space grow with stars!

Snag List

Bayfair to Baypark Upgrade - Snag List Register				
Project # NZ1001				
Snag List Item #	Area	Snag Item Description	Responsible Engineer/ Sub Contractor	Comments
SN001	1B	Sewer Main Finishing Works	s 9(2)(a)	B:\CS Construction\CS01 Draft Documentation\20. Quality\16. Snagging\SN01\SN01 - SMI.xls
SN002	1E	BA Line Finishing Works	s 9(2)(a)	B:\CS Construction\CS01 Draft Documentation\20. Quality\16. Snagging\SN02\SN02 - Henry.xls
SN003	South	450 Trunkmain Diversion - Leak	s 9(2)(a)	B:\CS Construction\CS01 Draft Documentation\20. Quality\16. Snagging\SN03\SN03 - Henry.xls
SN003				
SN004				
SN004				

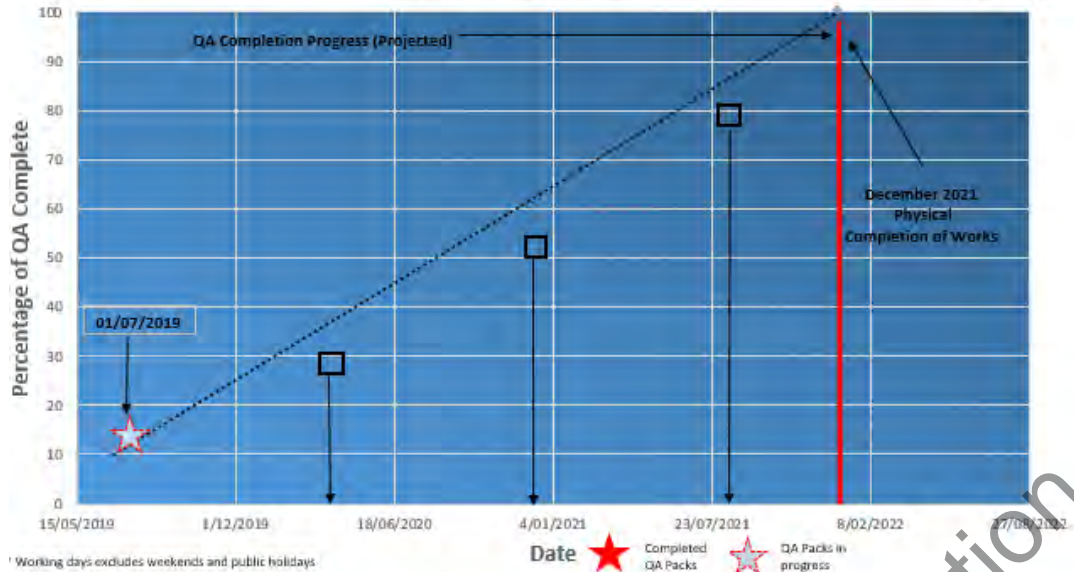
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SN001 - Example

Bayfair to Baypark - SNAG LIST			
Zone:		Chainage:	M000 450
Location:	Stage 1B	Originator:	s 9(2)(a)
Construction Lot:	B2B-01-UT-SMI-001	Discipline:	Sewer
Date:	25/05/2019		
Drawing Ref:	B2B-DRG-AS-SMI-001	Spec Ref:	TCC100
Snag Item Description:	Responsibility	What is required for completion	Closed Out Date
Further Epoxy Shaping at Invert base of manhole S6508. Tracer wire box to be installed. Tracer wire to be traced. Lid Level to be matched with surrounding area	s 9(2)(a)	TCC Shutdown and R2G to be available for works	
Attach Photo's			
			
CLOSE OUT BY ENGINEER WHEN WORK HAS BEEN COMPLETED			
Engineer:	Date completed:		
Comments:			

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Percentage of QA Completed
Bayfair to Baypark Upgrade



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COMMUNITY AND STAKEHOLDER

Stakeholder Relationships

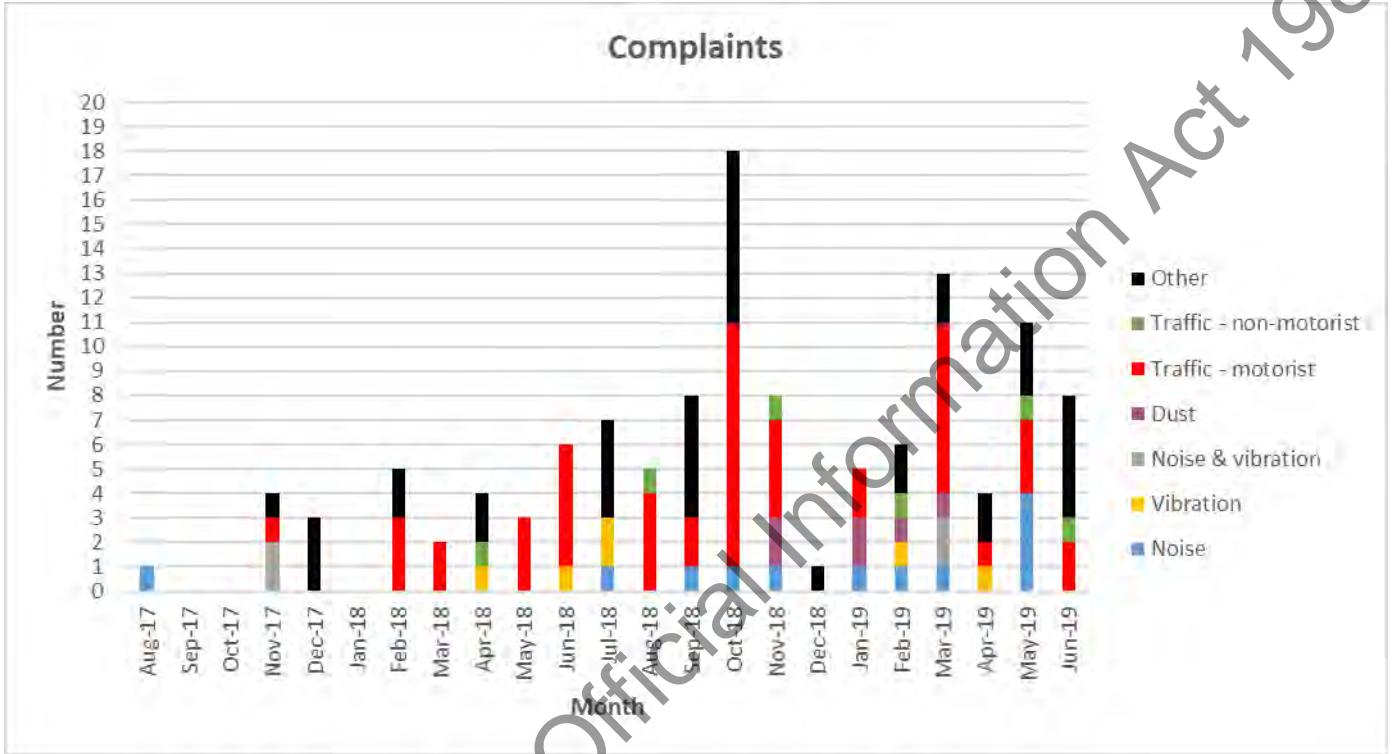
Key Stakeholder	Status	Comments
Local businesses:	●	<ul style="list-style-type: none"> Night works notifications distributed and June Project Update.
<ul style="list-style-type: none"> <i>Bayfair/AMP</i> 	●	<ul style="list-style-type: none"> Liaison regarding water cutover affecting one of their fire system feeds. Construction update provided at monthly PCG meeting.
<ul style="list-style-type: none"> <i>Baypark</i> 	●	<ul style="list-style-type: none"> Re-stocked NZTA project stand with June Project Update. Met with the Operations Manager and Commercial Manager to provide an update on construction.
<ul style="list-style-type: none"> <i>Golf 360</i> 	●	<ul style="list-style-type: none"> Liaison regarding implementation of temporary driveway to avoid disruption during Area 2B pavement works. Requested an update on the TCC bus interchange and whether the Golf 360 location could be affected. Contacted Beca to progress the additional car parking area and frustration is evident. Gavin advised until the underpass decision is known no commitment can be made.
<ul style="list-style-type: none"> <i>HomeZone</i> 	●	<ul style="list-style-type: none"> NZTA updated HZ regarding camera installation for vehicle count to understand the likely impact removal of right turn into Owens Place may have. The adjacent area has not been finished yet.
<ul style="list-style-type: none"> <i>LiquorLand</i> 	●	<ul style="list-style-type: none"> NZTA was on site to assess a project information poster opportunity. In April concerns were raised at location of new rising main along SH2 due to the smell in their building. CPB to investigate a solution with Jacobs.
TCC	●	<ul style="list-style-type: none"> Contacted Acting Head of Transportation regarding progress o the bus interchange (to advise Golf 360). No reply yet.
Motorists	●	Refer car damage and road surface complaints below.
Pedestrians	●	Refer Matapihi Rd traffic sign placement complaint below.
Cyclists	●	No contact.
Iwi / Hapū	●	<ul style="list-style-type: none"> Hapū Advisory Group hui discussed the detail of various urban design elements.
Residential neighbours:	●	<ul style="list-style-type: none"> Distributed June Project Update, night works and day works notifications.
<ul style="list-style-type: none"> <i>Maunganui Road (Concord to MGI) / Harris Street</i> 	●	<ul style="list-style-type: none"> Regular liaison with residents of 636-644 Maunganui Road during works. Two rubbish collection complaints, one complaint regarding rough temporary driveway entrance and one complaint about loss of rental income. Refer complaints below. 1 Concord Ave has been unresponsive to three property pre-condition survey requests and will not be pursued further. Note: it is unclear if the property is tenanted or Owner/Occupied.
<ul style="list-style-type: none"> <i>Maunganui Road (MGI to SH29A) / Exeter Street / Eversham Road</i> 	●	<ul style="list-style-type: none"> Regular liaison with residents of 732-743 Maunganui Road during works. One complaint regarding rough temporary driveway entrance. Refer complaints below. Liaison with Church of the Latter Day Saints to access Area 2E through their car park for one week. Two adjacent Owners remain unresponsive to four (or more) property pre-condition survey requests and will not be pursued further: 739 Maunganui Road (Hamilton owner) and 103B Eversham Road (Matapihi Road owner).
<ul style="list-style-type: none"> <i>Matapihi Road / Liffan Place</i> 	●	Complaint about location of temporary traffic sign. Refer complaints below.
<ul style="list-style-type: none"> <i>Owens Place residential apartments</i> 	●	No contact apart from letterbox drops to residents.

• <i>Girven Road / Palliser Place</i>		No contact.
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Status Key:

-  stakeholder supportive of project and/or willing to resolve issues
-  stakeholder neutral about project and/or has ongoing concerns
-  stakeholder not supportive of project and/or may escalate issues

Complaints



Total number of complaints: 122

Complaints:

Eight (8) complaints were received in June -

- A Maunganui Road property owner requested compensation for the loss of rental income claiming the last flat mate moved out because of the works and could not replace them for the same reason. The request was politely declined. (Closed.)
- There were two complaints about rubbish bins not being taken to the Concord Avenue collection point, or not returned the same day. (Closed.)
- A motorist was concerned at the temporary surface that was in place between night shifts to complete the drainage works in Area 2A. The crew ensured the final temporary surface over the trench was acceptable. (Closed.)
- A Matapihi Road resident was concerned about a traffic sign near Russley Drive impacting on visibility for pedestrians to see approaching traffic before crossing the road. The sign was moved. (Closed.)
- Two complaints were due to vehicle damage – one from an airborne road cone on SH2 near MGI (the claim is being assessed) and the other due to a rough temporary residential Maunganui Road driveway entrance (CPB to pay for repairs). (Open.)
- Another complaint was received about the rough temporary driveway entrance on Maunganui Road but there was no car damage. (Closed.)

Upcoming Significant Events (5000+ participants)

Significant Event	Date	Status
Womens Lifestyle Expo	24-25 Aug 2019	CPB to liaise with STMS/event organisers ahead of event.
AIMS Games	8-13 Sept 2019	No Baypark booking as yet
Tarnished Frocks & Divas	25-29 Sept 2019	CPB to liaise with STMS/event organisers ahead of event.
Spring Home Show	18-20 Oct 2019	CPB to liaise with STMS/event organisers ahead of event.
Hoopnation	26-27 Oct 2019	CPB to liaise with STMS/event organisers ahead of event.
Fishing & Boat Show	1-3 Nov 2019	CPB to liaise with STMS/event organisers ahead of event.
Toi Ohomai Grad Ceremony	10-13 Dec 2019	5000 attendees expected, spread over four days
Bay Dreams	1-2 January 2020	CPB liaising with STMS/event organisers ahead of event.
<i>Tauranga Home Show</i>	TBC May 2020	CPB to liaise with STMS/event organisers ahead of event.
<i>Armageddon</i>	TBC June 2019	CPB to liaise with STMS/event organisers ahead of event.
<i>Pet Animal Expo</i>	TBC June 2019	CPB to liaise with STMS/event organisers ahead of event.
<i>The Seriously Good Food Show</i>	TBC June 2019	CPB to liaise with STMS/event organisers ahead of event.

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DESIGN

Design Issues Update

Overall Status June 2019

A bar chart program for design completion is being updated and transmitted weekly via the weekly report. A NCR and Departure log has been developed for internal tracking.

Package list has 52 packages. Of the 52 current design packages: (The 7 Underpass packages are excluded from those numbers)

- 3 packages are completed
- 9 packages are IFC
- 7 packages are 100%
- 15 have been issued at 95%
- 9 packages are at 85%
- 3 packages are at 50%
- 6 remaining are, bridge 4 structure and geotechnical at 30%, new gantry 9 package at 30%, Hydrology Model at 60%, SH2/SH29A Southbound offramp geotechnical report at 30% and the Truman Stairs Urban Design Package at 30%.

Departure	Status
Creep Settlement	approved
Aquaplaning	Submission imminent
SH2/29A SSD	Departure Submitted

Geotechnical

- SH2/29A GI – CI 0918 (NCR) mainly for overarching report and PS1,2,3, head designer issues.
- Bridge 2 Ground improvement– 95% package re-submitted.
- MGI ground improvement – 100% package in preparation for official submittal

Pavements

- Sub-soil drain design being reviewed by T&T
- TEL Tie-in design under development

Geometry

- AMP entrance design is completed, and comments received from Beca (CI 0910). Additional design work required to provide raised pedestrian walkway across entrance. Design ongoing to address comments, additional design work and finalize design.

Drainage

- Waiting on TCC written approval to finalize the drainage packages.

Traffic Signals

- Alternative Linsig modelling been instructed. NTE 0921 sent in response to CI 0916. Waiting on Beca's instruction before progressing with the design.

Structures

- Bridge 01: 100% submitted currently responding to NCR (CI 0812).
- Bridge 02: 100% package received, waiting on producer statements
- Bridge 03: 100% package in preparation to be submitted in July 2019
- Bridge 04: Few corrections to be made to the preliminary report from T&T before official transmission to Beca

Underpass

- Design at 50%

Design Delivery Schedule

Designer	Design Package Number	Lot Name	Current Owner	Last Status	Urgency	Design Submission	30 %	50 %	85 %	95 %	100 %	IF C	PS 1	PS 2	PS1 Recd	PS2 Recd	Comments / Issues	
Jacobs	Geometrics and Roading																	
	B2B-DE-GR-001	Alignment Geometrics	Jacobs	CI 0434 (NCR)	Complete	IFC						1	1	1	07-May-18	25-May-18	Conditional IFC issued to NZTA. Submit revised departure re-aquaplaning, Submit revised departure re-sight lines. Close out conditions. Access nr4 has been added to the model. CI434 For Non Conformances	
	B2B-DE-GR-002	AMP Entrance 4 Variation	Jacobs	CI 0910	Complete	95%				1							Comments received from Beca and currently being addressed. Confirmation received that 25 m B Train required. 2 layouts submitted. Awaiting BECA response on preferred layout. CI 0910 received on 24/5/19 regarding the detail of the pedestrian crossing	
	Drainage																	
	B2B-DE-DR-001	Carriageway Drainage	Jacobs	CI 0356 CI 0317	Normal	95%				1								Close out hydrology model approval from TCC
	B2B-DE-DR-002	Cross Culvert Drainage (SP1)	Jacobs	NTE 0293 (Cancelled??) CI 0190 (Departure)	Normal	85%				1					9/01/2018 (Cancelled??)			Close out hydrology model approval from TCC See NTE 0149
	B2B-DE-DR-003	Wetlands/Ponds	Jacobs	CI 0154	Normal	95%				1								Close out hydrology model approval from TCC
	B2B-DE-DR-004	Hydrology- Model (60%)	Jacobs	CI 0153 CI 0786	Normal	60%				1								Close out hydrology model approval from TCC
	Bridges and Structures																	
		Structures Design Philosophy	-	CI 0035	Complete	Complete						1						
	B2B-DE-STR-001	Bridge BG01 - MGI Overpass	Jacobs	CI 0812 (NCR)	Normal	100%						1						Bridge 1 Conditional 100% issued to PR and PA. Some outstanding issues to be resolved. CI812 for List of Non Conformance - PS1 received from JDT on 24/5/19 waiting on response for NCR to send it all to Beca Updated dwg received from JDT 18/6/19
	B2B-DE-STR-002	Bridge BG02 - SH29A Underpass	Jacobs	CI 0506	Normal	95%				1								Creep Departure - Awaiting information from T&T. Geometrics will be more challenging than BR03. Creep Settlement Re-analysis report received from Jacobs CDR from CPB sent to Jacobs 12/6/19 - Updated package received from JDT 18/6/19

	B2B-DE-STR-003	Bridge BG03 - ECMT Rail Overpass	Jacobs	CI 0891	Critical	95%				1								Bridge 3 design re-started 18th Feb. 95% Design issued to CPB 25 March 2019. NTE 0838 95% Design Issued Beca 01/04/19 reponded CI0891 16/5/19. Revised 95% drawings uploaded in Aconex 5/6/19 Working on 100% submission
	B2B-DE-STR-004	Bridge BG04 - Baily Bridge	Jacobs		Critical	30%												Design load sent to T&T on 20/05/19
	B2B-DE-STR-005	Gantry Structures & RW - Gantries 1-2	Jacobs	CI 0330	Critical	85%			1									85% passed on to the site team.
	B2B-DE-STR-006	L Walls	Jacobs	CI 0503	Critical	50%				1								50% Comments received from Beca.
	B2B-DE-STR-007	Gantry Structures & RW - Gantries 3 to 8	Jacobs		Critical	85%			1									Gantry 4 and 5 commented on. Survey information sent to Jacobs for Gantry 8 on 6/6/19
	B2B-DE-STR-008	Gantry Structures & RW - Gantry 9	Beca	NTE 0899	Critical	30%		1										Mangatawa issued to CPB for comment. Concept drawing to be sent for approval to Beca. Received from Jacobs on 10/5/19 NTE 0899 concept drawing sent to beca on 6/6/19
	B2B-DE-STR-009	MSE Facing Panels	Beca	NTE 0910	Critical	95%		1	1	1								New package created for facing panels 16/5/19. 95% Received from Jacobs on 13/5/19 CPB to review before sending it to Beca, NTE 0910 sent to Beca for 95% packages
	Traffic Services																	
	B2B-DE-TS-001	Traffic Control & Signals Infrastructure Layout	Jacobs	CI 0300 CI 0792 (VO061) CI 0815 (VPRO28)	Critical	50%												Drawings at 95% whilst report is still at 50%
	B2B-DE-TS-002	Lighting and ITS	Jacobs	CI 0476	Normal	95%				1								OK, resume this 23rd March -> Waiting on the underpass approval
	B2B-DE-TS-003	Signs and Lines (Incl. Gantry Structures)	Jacobs	CI 0607	Normal	100%				1								Complete bar the pedestrian way sighting on hold for underpass
	B2B-DE-TS-004	Barriers (Incl. Ped. And Cycle Paths)	-	CI 0458 (NCR)	Complete	IFC						1	1	1	07-May-18	07-May-18		Outstanding comments to be closed out (Outstanding issues communicated in CI 0458)
	B2B-DE-TS-005	Traffic Control & Signals Controller/Phasing	Jacobs	CI 0748 (VO057)	Critical	85%				1								Dec meeting with TCC completed. Awaiting supplementary information pertaining to suitability of Sidra for modelling before responding to CI 0748 LINSIG CI 0916 responded to with 0921
	Utilities																	
		Jacobs GA Drawings	GPB		Normal	85%				1								CAD services provided by Jacobs.
	B2B-DE-UT-002	TW01: Temporary Works - TCC Rising Main at Matapihi Road		???	Complete	IFC						1		1			9-Jan-19	OK
	B2B-DE-UT-003	TW11: Temporary Works - TCC Water Relocations South	Calibre	CI 0593 (NCR)	Normal	IFC						1		1	7-Aug-18	15-Aug-18		Outstanding comments to be closed out (Outstanding Issues communicated in CI 0593)
	B2B-DE-UT-004	TW13: Temporary Works - TCC Sewer Replacement Ch 1320	-	CI 0581 (NCR)	Complete	IFC						1	1	1	9-Jan-19	9-Jan-19		Outstanding comments to be closed out (Outstanding Issues communicated in CI 0445 + 0582)

	B2B-DE-UT-005	TW17: TCC Sewer Relocation Jackson Street	-	CI 0494 (NCR)	Complete	IFC						1	1	1	9-Jan-19	9-Jan-19	Outstanding comments to be closed out (Outstanding Issues communicated in CI 0494)		
	B2B-DE-UT-006	TW10: TCC Water Relocation MGI	-	CI 0525 (NCR)	Complete	IFC						1		1	9-Jan-19	9-Jan-19	Outstanding comments to be closed out (Outstanding Issues communicated in CI 0525)		
	B2B-DE-UT-007	TW02: Temporary Works - Design of Gravity Sewer BR03	Calibre	CI 0719	Complete	100%					1								
T&T	Geotechnical																		
		Geotechnical design philosophy report	Complete	CI 0285	Complete	Complete													
	B2B-DE-GT-000	Geotechnical interpretive report	Complete	CI 0189	Complete	Complete													
	B2B-DE-GT-001	BR01 geotechnical report (Part of Bridge Package)	T&T	CI 0787	Normal	95%						1						Closing out Beca comments. Response to CI0746 (overarching CI regarding ground improvement design) submitted to Beca on 17/01/19 (NTE0770). See CI 0787 30/01/19. Revised settlement parameters issued to Jacobs for comment/close out.	
	B2B-DE-GT-002	BR02 geotechnical report (Part of Bridge Package)	Beca	NTE 0922	Normal	95%						1							Design pending creep departure. 95% resubmission to GHD for cat1 design check - Comments received from GHD on 31/05/19 T&T responded to GHD comments 5/6/19 GHD responded to T&T comments closed off 10/6/19 No comments to report from CDR 12/6/19 95% re-submission package received from TT on 18/6/19 NTE 0922 submitted on 24/6/19
	B2B-DE-GT-003	BR03 geotechnical report (Part of Bridge Package)	T&T	CI 0470	Normal	50%						1							Design pending creep departure outcome. T&T instructed to proceed or otherwise with ground improvement design (re-submission of 95% report comments from CPB sent to T&T on 4/6/19)
	B2B-DE-GT-006	SH2/29A Southbound Offramp Geotechnical Design	T&T		Normal	30%													
	B2B-DE-GT-007	BR04 geotechnical report	CPB/JA COBS		Critical	30%													CDR Review on draft report by JDT + CPB (14/06/19)
	B2B-DE-GT-005	Instrumentation and Monitoring	Complete	CI 0783 (NCR)	Complete	IFC							1	1		7-Jan-19			PS1 received. Outstanding Issues communicated in CI 783
	B2B-DE-GI-001	SH2/29A Intersection and SH29A approach – Ground improvement design	T&T	CI 0918 (NCR)	Critical	100%							1	1		9/05/2019			Responses to CI0616 submitted to Beca on 28 Feb 19 (NTE 807). CI 0851 received 29/03/19. NTE 0857 23/04/19 closing out 95% Comments. NTE0876 submitted 100% Package with PS1 - CI 0918 NCR received 29/5/19
	B2B-DE-GI-002	MGI – Ground Improvement Design	T&T	CI 0709	Critical	95%							1						CI 0787 received 30/01/19 - Comment sheet with CPB for review and closure Comments sheet response to CI 0709 from T&T received 27/5/19, currently being reviewed by CPB T&T to proceed to 100% - 100% drawing updated in aconex
	B2B-DE-EW-001	Site wide earthworks design	T&T	CI 0919 (NCR) CI 0929 (Departure)	Critical	100%							1	1		9/05/2019			CI 0799 received 07/02/19. NTE 0856 23/04/19 closing out 95% Comments. Package progressing to 100 % NTE0874 submitted 100% Package with PS1 Comments received for NTE 0856 waiting on comments for NTE 0874 CI 0919 (NCR) received on 29/5/19 (Departure 037 - Palisade Wall exemption accepted 5/6/19)

	B2B-DE-RW-001	MSE walls -supporting bridges 01	T&T	CI 0740	Critical	95%													Closing out Beca comments. Updated pull out forces received ex Jacobs following Beca comments. Reviews being conducted MSE BR01 Abutment wall design report 100% draft was sent to GHD for review on 23/5/19 GHD comment received on 20/06/19
	B2B-DE-RW-002	MSE walls -supporting bridges 02	CPB	CI 0884 (NCR) Report CI 0834 SP	Critical	100%							1	1	29-Mar-19	5-Jun-19			100% Design submitted to Beca 01/04/19. Comment sheet closed out and submitted NTE 0846 - Responded CI 0884 on 2/5/19 (NCR) - CPB to discuss acceptance of BECA comments and resolve head designer issues
	B2B-DE-RW-003	MSE walls -supporting bridges 03	T&T		Critical	85%							1						Updating report to 95%. Awaiting sheet pile asbuilt. Updated pull out forces received ex Jacobs following Beca comments. Reviews being conducted - 95% draft report was sent to GHD for review 16/5/19 GHD have minor comments and will response to the impact wall separately 12/6/19 T&T responded to GHD comments on 20/06/2019 GHD responded on 20/06/2019 with other comments
	B2B-DE-RW-004	Site wide MSE walls -not supporting bridges	GHD	CI 0735	Critical	95%							1						Closing out Beca comments, being held up by Beca as they are awaiting barriers and panels design package. Updated pull out forces received ex Jacobs following Beca comments. Reviews being conducted. 100% draft design report sent to GHD on 15/5/19
		Pavements																	
	B2B-DE-PV-001	Pavement Design - Tie-ins	T&T	CI 0713	Normal	IFC							1	1	1				Subsoil Drains still being finalised
Align		Urban Design and Landscaping																	
	B2B-DE-LS-001	Urban Design & Landscape Architecture - UDLMP	Align	CI 0439	Normal	100%							0	1					Drawings/report updated 100% Aconex, waiting on answer to CI 0439 From Align
	B2B-DE-LS-002	Landscape Plans for Eversham St Area [NOR conds]	Align	CI 0416	Normal	95%							1						Drawings/report updated 100% Aconex, waiting on answer to CI 0416 From Align
	B2B-DE-LS-003	MGI Intersection - Urban Design	Align	CI 0428	Normal	85%							1						On Hold for Underpass
	B2B-DE-LS-004	Minor Structures and Walls	Align	CI 0555	Normal	95%							1						Drawings/report updated 100% Aconex, waiting on answer to CI 0555 From Align, CI 0555 resent to Align on 20/06/19
	B2B-DE-LS-005	Planting Plans and Schedule	Align	CI 0436	Normal	85%							1						On Hold for Underpass
	B2B-DE-LS-006	Landscape Hard Works Specification	Align	CI 0313	Normal	85%							1						On Hold for Underpass
	B2B-DE-LS-007	Landscape Plan Drawing Set for Church [NOR conds]	Align	CI 0553	Normal	95%							1						Is there an update on departur for the PR CI 0553
	B2B-DE-LS-008	Southern Interface / Staircase - Truman	Align	CI 0588	Normal	30%	1												Align waiting on Jacobs to integrate the batter and stairs into the road alignment

CONSTRUCTION

MGI Roundabout

Work Undertaken Last Month

- Area 1B:
 - No progress during the month
- Area 2B:
 - Completed SIL boxcut including removal/replacement of unsuitable material with imported pumice fill
 - Continued network drainage
- Area 2A:
 - Completed streetlight ducting
 - Completed SIL boxcut including removal/replacement of unsuitable material with pumice
- Area 2C:
 - Street light ducting installation continued, and footpath preparation commenced
 - Completed remaining SIL boxcut removing organics adjacent to stone columns
 - Subsoil drainage completed
 - Street light ducting and columns installation
 - Installation of rider main drainage
 - Subgrade testing completed
 - Commenced aggregate placement Ch450 to Ch680

Next Month's Planned Works

- Area 1B:
 - Continue finishing work
- Area 2B:
 - Complete network drainage and Cesspits
 - Complete subgrade improvement layer
 - Subgrade testing and QA sign-off
 - ITS and streetlight ducting installation
 - Aggregate sub-base placement
 - Installation of subsoils followed by K&C
- Area 2A:
 - Complete SIL boxcut including removal/replacement of unsuitable material with pumice
 - Subgrade testing and QA sign-off
 - Aggregate sub-base placement
 - Entrance #4 construction works
- Area 2C:
 - Complete installation of street light ducting, columns and commission
 - Complete footpath and driveway concrete
 - Topsoil, seed and apply mulch or coconut matting to swales
 - Complete temporary pavement construction
 - Linemark and switch traffic

Risks to Achieving Progress

- Continuing to discover organic materials under the existing SH 2
- High quantity of live, unknown redundant buried services reducing earthworks productivity



Hand & Hydro excavation works in 2A & 2C

Te Maunga

Work Undertaken Last Month

Area 1D:

- Work with T&T to sign off stone columns. Following this install drainage blanket and fabric to allow fill to progress
- SH29a roundabout and ECMT embankment – Issues getting beams to pass. Subgrade trials

Area 1E (Triangle):

- Complete area 1E triangle canyon SIL (NB mainline)
- Complete stone column installation in triangle
- Commence constructing large swale behind ITM

Area 1E (TEL):

- Continue area 1E TEL canyon box cut (NB mainline). Issues getting beams to pass
- Relocate sewer

Area 2E:

- Close slip lane
- Relocate water & Chorus SB shoulder adjacent to Church

Next Month's Planned Works

Area 1D:

- Work with T&T to sign off stone columns. Following this install drainage blanket and fabric to allow fill to progress
- SH29a roundabout and ECMT embankment – Issues getting beams to pass. Subgrade trials

Area 1E (Triangle):

- Install subsoils in canyon pavement (NB mainline)
- Commence canyon pavement (NB mainline)
- Work with T&T to sign off stone columns. Following this install drainage blanket and fabric to allow fill to progress
- Continue constructing large swale behind ITM

Area 1E (TEL):

- Complete area 1E TEL canyon box cut (NB mainline)
- Complete stone columns

Area 2E:

- Water & Chorus SB shoulder relocation on hold. Prep for stone column platform

- Divert pedestrians permanently around Eversham Rd via Eversham walkway



Relocation of Chorus network Trial Embankment area (area 2E)



Canyon Subgrade (NB mainline) in triangle

Risks to Achieving Progress

- compliant Benkleman beam results
- Stone column sign off

Resources

LABOUR	Activity	RESOURCES
CPB	Engineering, Lead hands, Operators and Labour	36 people
Labour National Labour	Labour	8 people
RZG	Labour	8 people
Taylors Transport	Operator	6 people
Frontline	Labour	6 people
Downer	Pavement	6 people
Crossroads	Pavement	6 People
March	Stone Columns	7 people
Other	Labour	27 people
		Total onsite 110
CPB	Minor plant	2 containers , 3 VMS boards, 2 trailers
Heavy Hire	Earthmoving machinery	2no 25 tonne excavators , 5 tonne excavator, D6 dozer, 2 watercarts, 8-10t roller
Taylors Transport	Import of aggregates, pumice fill & site works	2 no 6wheel tip trucks 5 No Truck & Trailer units
Hirepool	Small plant hire	2 light towers & 6 tonne padfoot roller
Kennards	Small plant hire	
RZG	Drainage	20 & 5 tonne excavator
Wild civil	earthworks	14t excavator
Crossroads	pavement	10 tonne roller , grader, watercart
Evolution	Traffic Management	2 TMAs
Linton	Earthworks	20 tonne excavator
Frontline	Earthworks & service relocations	5 tonne excavator & 4 wheel tiptrucks
March	Ground Improvements	2 crawler cranes, loader, CFA rig

PROGRESS

Programme Update

Contract Completion	Baseline*	June Update	Contractors Risk
12 February 2021	23 October 2020	02 November 2021	Includes 69 days as per BL02

Note

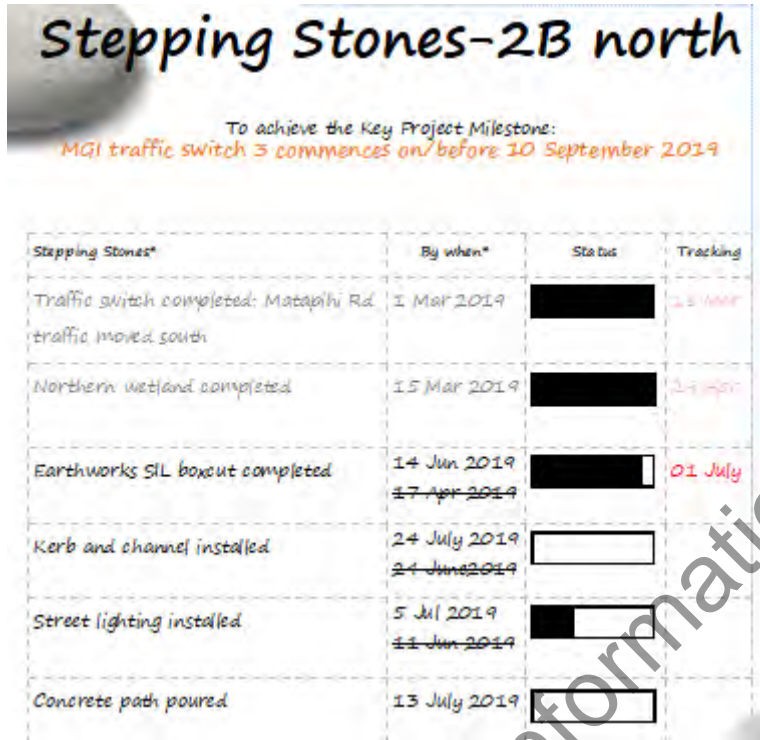
Baseline May 2018 – BL 02

3 days EOT for SUP & 1 day EOT for Bayfair entrance 4 . EOT from the delay incurred as a consequence of the underpass is still to be finalized.

- A revised Baseline Programme BL03 has been developed and is being internally reviewed prior to formal submission to PA for comment, review and approval
- June 2019 Contract Programme update includes the Underpass impact has had to date.

Stepping Stones - Achieved vs Planned

Area 2B Stepping Stones



Area 2A North – Stepping Stones



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Area Area 2C – Stepping Stones

Stepping Stones-2C

To achieve the Key Project Milestone:
MGI traffic switch \exists commences on/before 10 September 2019

Stepping Stones	By when	Status	Tracking
Stage One (excl. stone column area):			
Earthworks SIL boxout completed	1 Mar 2019		10 Mar 19
Kerb and channel installed	5 Apr 2019		14 Apr 19
Pavement stabilising completed	16 Apr 2019		20 Apr 19
Street lighting installed - all of 2C	5 July 2019		8 July 2019
Stone columns installed	31 Apr 2019		16 May 2019
Concrete path poured - all of 2C	12 July 2019		11 July 2019
Asphalt SH2 southbound on-ramp completed	10 May 2019		11 May 19
Stage Two (stone column area only):			
Earthworks SIL boxout completed	15 Jun 2019		01 July 2019
Pavement subbase placement & compaction completed	28 Jun 2019		9 July
Temp. asphalt SH2 southbound on-ramp completed	5 July 2019		10 July
2C traffic switch commences	7 July 2019		TBC
Stone column enabling works in 3C (median) completed	22 July 2019		

Reviewed 11/06/2019

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Area South – Stepping Stones

Under development

Key Milestones



Bay Link KEY PROJECT MILESTONES

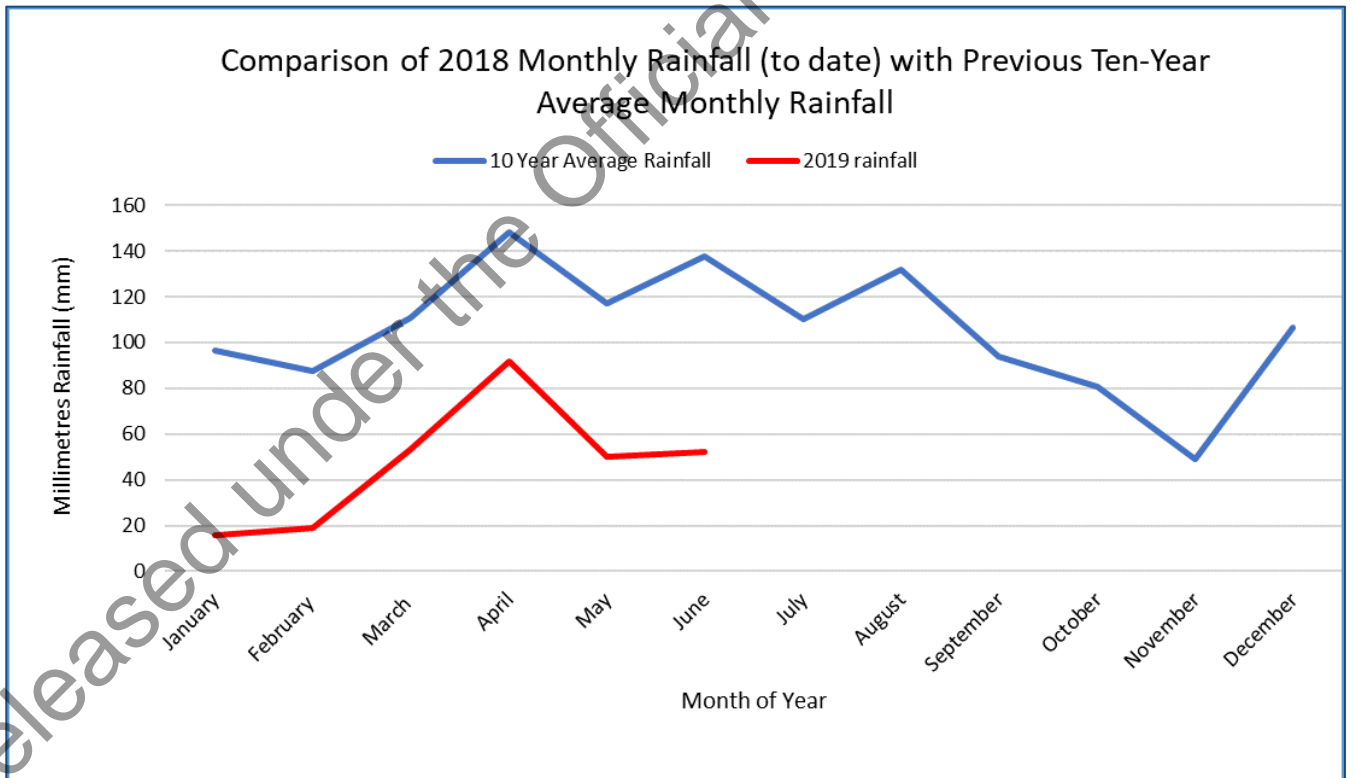
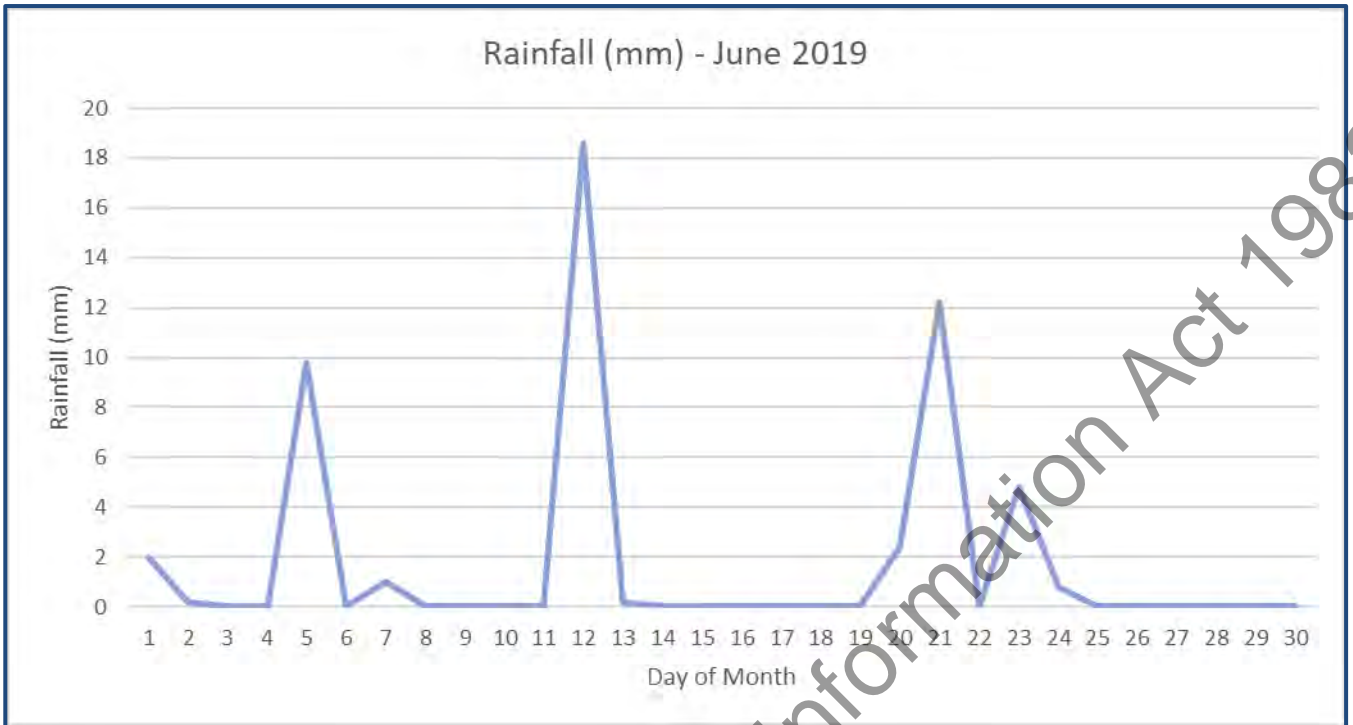
Key internal milestones	Description	Target date	Public milestones	Status
MGI traffic switch 1 completed	SH2 traffic moved east; narrowed lanes	15 January 2017		Achieved in programme
SP1 completed	Matapihi Rd to Bayfair Shopping Centre SW drain	23 March 2018		Achieved in programme
MGI traffic switch 2 commences	NB & SB traffic moved from east to west; Exeter St closed	10 September 2018	Late 2018: new Maungamutū-Girven intersection northbound on and off ramps open	Achieved 23 October
MGI traffic switch 3 commences	SB traffic moved from west to east; Exeter St remains closed <small>*Note: date subject to new underpass design</small>	10 September 2019*	Mid 2019: new Maungamutū-Girven intersection southbound on and off ramps open	
Bailey bridges complete (BR04)	Ready for SH2 NB traffic (temporary) <small>*Note: Stretch target in place; drop dead date 17 Feb 2020</small>	23 December 2019*		
BR03 complete	ECMT rail overpass ready for traffic <small>*Note: Stretch target in place; drop dead date 13 Feb 2020</small>	23 December 2019*	End 2019: new SH26A roundabout and rail bridge completed	
Te Maunga traffic switch 3 commences	NB traffic over BR04; use of BR03; SB traffic moved to canyon <small>*Note: Stretch target in place; drop dead date 25 Feb 2020. First CPU.</small>	29 January 2020*	Early 2020: new SH26A roundabout and rail bridge open	

INTEGRITY } ACCOUNTABILITY } INNOVATION } DELIVERY

SAFETY

Weather

Below shows the MetService rain record for Tauranga.



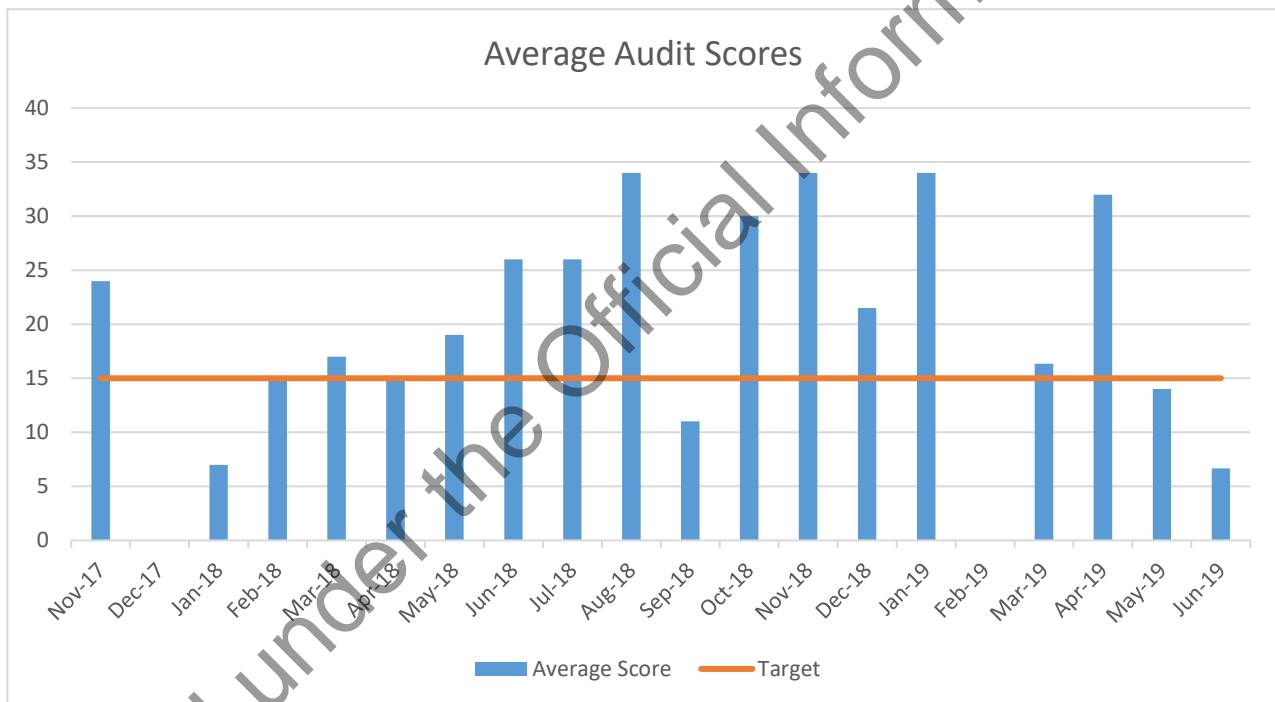
TRAFFIC MANAGEMENT

Road safety audits for June 2019.

Audit Date	Shift	Auditor	Score	Status	Comment
20.06.2019	Day	Justin Williams	15		Steel Jointing Pin Sticking out of TL2 Terminal of Southbound Te Maunga Slip lane. A few Tubular delineators around the site in Marginal condition
26.06.2019	Day	Michael Lim (Evolve)	0		Overall Site is set as per approved TMP
11.06.2019	Day	Mike Cunningham	5		Add extra Site entry sign

Key

	<15
	15-30
	>30



Accident Records for June 2019.

There was 2 x notifiable Traffic incident to report for June.

DATE	DAY	Within Site Extents	SITE AREA	ROAD NAME	DIRECTION	LANE	TIME	Number of vehicles involved	CAUSE	DESCRIPTION	EMERGENCY SERVICES ATTENDED	WHEN WAS CLIENT FIRST NOTIFIED	NTE NUMBER	COMMENTS
11-Jun	Tuesday	Yes	SH2 Southbound Te maunga roundabout	SH2	S/B	1& 2	3.30pm	2	Speed (Alleged Alcohol)?	SH2 Southbound at Te maunga Roundabout Motorbike rider lost control and crashed into the side of an SUV that was heading Northbound TTM was deployed to cover this incident. Motorbike rider was injured in this event.	Police fire Ambulance	7am	NTE- lodged	No Event #
28-Jun	Friday	Yes	SH2 Bajair roundabout	SH2	N/B	1& 2	12.30pm	2	Wrong lane	Driver was in left lane Turning Towards Mt Maunganui from Given Road, Collided with a car in Right Lane heading to Matapiri road - No injuries	Police	1pm	NTE- lodged	PD 3882135

Accident Schematic for 2018 and 2019



Schematic A:		13	8 May 2018 - Car vs Car (Incorrect Indication)	24	5 November 2018 – Car vs Car (Right Turn)
4	24 January 2018 - Car vs Car (Nose to Tail)	16	5 June 2018 - Car vs Car	26	21 November 2018 – Car vs Car (Right Turn)
				29	9 January 2019 -Car vs Car (failed to stop)
				30	7 March 2019 – Hilux ute into barriers
				31	2 April 2019 – Suzuki Swift into Wire Rope median SH2 TEL Northbound
31				33	7 May SH29A Westbound Te Maunga Roundabout Car VS Car
				34	Te Maunga Roundabout Car / Motorbike
5	26 January 2018 - Car vs Transformer	18	19 July 2018 – Car vs Car (Failed Give Way)	Schematic D – New Bayfair RAB Layout	
9	11 April 2018 - Truck vs Car (Nose to Tail)	20	31 July 2018 – Car vs Truck (Failed Give Way)	25	6 November 2018 – Car vs Car (Nose to Tail)
10	12 April 2018 - Car vs Car (Lane Switch)	Schematic C:		31	17 March 2019 Car vs Motorbike
27	6 December 2018 – Car v Car Nose to tail			35	Bayfair roundabout car in wrong lane
28	19 December 2018 -Truck v Car (Lane Switch)				
Schematic B – Old Bayfair RAB Layout:		3	21 January 2018 - Car (Wrong Direction)		
1	11 Jan 2018 - Car vs Motorbike	12	19 April 2018 - Car vs Power Pole		
2	19 Jan 2018 - Car vs Motorbike	14	23 May 2018 - Car vs Car (Nose to Tail)		
6	8 March 2018 - Car vs Car	15	31 May 2018 - Car vs Car		
7	12 March 2018 - Truck vs Barrier	17	8 June 2018 - Car vs Car (Right Turn)		
8	10 April 2018 - Car vs Car (Right Turn)	19	21 July 2018 - Car vs Barrier (Speed)		
11	19 April 2018 - Car vs Truck	21	16 August 2018 – Car vs Car (Failed to Give Way)		
23	11 October 2018 – Car vs Car	22	28 September 2018 – Car vs Car (Nose to Tail)		

BLIPTRACK

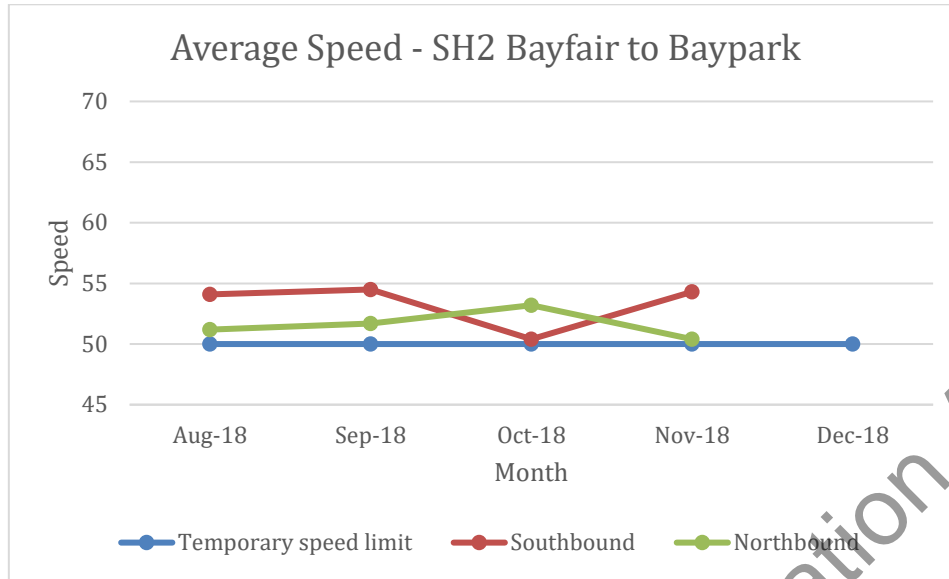
June 2019									
Route	Weekdays			Saturday			Sunday		
	AM	Inter	PM	AM	Inter	PM	AM	Inter	PM
1. SH2 Maunganui Rd/opp Spur Rd to Maranui Rd/Girven Rd	0:05	0:29	1:03	0:27	1:07	0:01	0:50	0:24	0:10
2. Maranui Rd/Girven Rd to SH2 Maunganui Rd/opp Spur Rd	0:30	0:16	0:13	0:03	0:33	0:17	0:08	0:06	0:02
3. SH2 Maunganui Rd /opp. Spur Rd to SH2 TEL Domain Rd. Int (W)	0:32	1:04	3:27	0:25	1:24	0:29	0:22	1:05	0:26
4. SH2 TEL Domain Rd. Int (W) to SH2 Maunganui Rd /opp. Spur Rd	0:32	0:22	0:09	0:18	0:10	0:15	0:18	0:08	0:20
5. SH2 Manganui Rd /opp. Spur Rd to SH29 Hairini / Maungatapu Rd (N)Jct	0:13	0:45	3:15	0:05	1:20	0:18	0:36	1:06	0:06
6. SH29 Hairini / Maungatapu Rd (N) Jct to SH2 Manganui Rd /opp. Spur Rd	1:39	0:31	0:55	0:19	0:37	0:21	0:13	0:14	0:17
7. Maranui Rd/Girven Rd to SH2 TEL Domain Rd Int (W)	0:10	0:10	0:34	1:17	0:19	0:03	4:42	0:41	0:17
9. SH2 TEL Domain Rd Int (W) to Maranui Rd/Girven Rd	0:39	0:36	0:53	0:59	0:26	0:40	1:55	0:44	0:36
8. Maranui Rd/Girven Rd to SH29A Hairini/Maungatapu Rd (N)Jct	0:04	0:13	2:01	0:09	0:12	0:16	0:21	0:06	0:02
10. SH29A Hairini/Maungatapu Rd (N) Jct to Maranui Rd/Girven Rd	1:36	0:17	0:47	0:14	0:47	0:10	0:07	0:08	0:01
11. SH2 TEL Domain Rd Int (W) to SH29 Hairini / Maungatapu Rd (N) Jct	0:25	0:05	0:13	0:04	0:06	0:04	0:03	0:10	0:01
12. SH29 Hairini / Maungatapu Rd (N) Jct to SH2 TEL Domain Rd Int (W)	0:58	0:20	0:57	0:01	0:20	0:02	0:01	0:14	0:02
13. (Additional) SH2 Tauranga Harbour Bridge to SH2 Totara St	0:21	0:12	0:08	0:09	0:02	0:11	0:10	0:09	0:07
14. (Additional) SH2 Totara St to SH2 Tauranga Harbour Bridge	0:17	0:15	0:14	0:04	0:04	0:09	0:10	0:09	0:03
15. (Additional) SH2 Totara St to SH2 Manganui Road opp. Spur Road	0:09	0:12	0:53	0:02	0:28	0:11	0:02	0:11	0:00
16. (Additional) SH2 Manganui Road opp. Spur Road to SH2 Totara St	2:15	0:17	0:56	0:03	0:12	0:04	0:08	0:13	0:07
Key:									
Green = lower than the baseline									
Black = above baseline but within allowable additional 5 minute delay									
Red = above the allowable additional 5 minute delay									
Very low sample (baseline) counts will have an impact on the average data									
NI = no counts on the route for this month therefore there is no information (NI) to report on									

Trends

- The overall trend for June was traffic on the majority of routes was flowing well, with the time taken to travel through the project area either less than the June 2017 baseline or within the allowable additional five minute delay. A similar result to April and May.
- The largest additional delay was 3 minutes 27 seconds and occurred during the Weekday PM peak on Route 3 (SH2 Maunganui Rd /opp. Spur Rd to SH2 TEL Domain Rd. Int (W)). This was closely followed by a delay of 3 minutes 15 seconds on Route 5 (SH2 Manganui Rd /opp. Spur Rd to SH29 Hairini / Maungatapu Rd (N) Jct), also during the Weekday PM peak.

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Speed Radar – Historical Data



Trends:

The speed activated radars are now positioned SH2 NB approach from TEL and to the SH29A eastern approach. The TEL approach remains consistently 64/ 65 km/hr, SH29A approach average speed is quite a bit higher at 73 km/hr.

RISK

Threats

Risk ID	Sector	Risk Description	Risk Owner	Current Threat	Residual Threat	Trending	Risk Review Comments
15	Ground Improvement	Settlement of Adjacent Structures	Paul Dalton	Extreme Threat (21)	Extreme Threat (21)	↔	
1	Health & Safety	Public through or near worksite	Dean Taylor	Extreme Threat (21)	Extreme Threat (19)	↓	
34	Design	Key Design element delay Construction	Paul Dalton	Extreme Threat (21)	High Threat (19)	↔	
36	Design	Cannot achieve SH2/29A through movement geometric design standard	Paul Dalton	Extreme Threat (21)	High Threat (16)	↔	
35	Design	Lack of long term settlement creep departure	Paul Dalton	High Threat (19)	High Threat (19)	↔	
6	Construction	Vibration Effects	Dean Taylor	High Threat (19)	High Threat (16)	↑	
23	Utilities Services	Service/Utility strike	Dean Taylor	High Threat (21)	High Threat (16)	↔	
21	Traffic Management	Construction staging generates excessive congestion and delays in local network	Chris Boyd	High Threat (19)	High Threat (19)	↔	
51	Consenting	No Public Use Certificate for Structures before opening to public	Lloyd Knowler	High Threat (18)	Medium Threat (16)	↔	
39	Scope	Requirement for AMP Entrance 4 increases scope and delays project completion	John McCarthy	High Threat (18)	High Threat (18)	↑	

Opportunities

Risk ID	Sector	Risk Description	Risk Owner	Current Opportunity	Residual Threat	Trending
24	Traffic Services	Addition of Pedestrian/Cyclist Subway	John McCarthy	Extreme Opportunity (21)	Extreme Opportunity (21)	↑
20	Design	Addition of ecological enhancement of ponds	Lloyd Knowler	Moderate Opportunity (11)	Moderate Opportunity (11)	↔

Commentary

The tables above are outputs of a risk workshop held on 17 April 2019 with CPB, Beca and NZTA staff. Now that a decision of no Underpass has been received the team will look at completing a risk review during July 2019.

The greatest risk is the settlement of property adjacent to embankments being built at Te Maunga intersection and MGI roundabout. With a blockwork structure on thin concrete slab the extent of visible damage may be high. Trial embankment data indicates primary settlement predictions to be less than envisaged, T&T are currently revising settlement contour plans.

The second highest risk remains for public through the worksite, incidents have reduced in the past quarter however managing pedestrians and cyclists has been an ongoing issue with many ignoring signage. Mitigation measures include attempts to reduce traffic speeds and installing additional pedestrian/cyclist signage, fencing and barriers to create clear routes to the existing pedestrian underpass.

The design threats are also rated as extreme with the consequence of delaying construction or the redesign of geotechnical and geometric elements. Actions to address these include;

- Raising departure for geometrics at the SH2/29A intersection,
- Regular design progress meetings to address road blocks and resources.

The ground improvements work commenced late September, the need to manage the risks of vibration damage to property has become more acute and is being addressed with building survey reports being provided to all properties likely to be impacted. Vibration monitoring is ongoing and will continue for the duration of the works, data to date confirms compliance with consent conditions.

COMMERCIAL

Current Contract Sum

Baypark to Bayfair Link Upgrade - Physical Works - Contract Sum		
Contract No. 2/09-024/603		
Item	Description	Contract Value
SUMMARY		
MAIN CONTRACT WORKS		
1	On-Site Overheads and Off-Site Overheads and Profit	
1.1	On-Site Overheads	s 9(2)(b)(ii)
1.2	Off-Site Overheads and Profit	
2	Contractor's Design	
2.1	Detailed Design	
2.2	Designers Construction Monitoring	
2.3	Other	
3	Physical Works	
3.1	Environmental Compliance	
3.2	Traffic Management & Temporary Works	
3.3	Accommodation Works	
3.4	Earthworks	
3.5	Ground Improvements	
3.6	Drainage	
3.7	Pavement and Surfacing	
3.8	Bridge Structures and Retaining Walls	
3.9	Traffic Services	
3.10	Utilities Relocations and Protection	
3.11	Landscaping	
3.12	State Highway and Local Road Maintenance	
3.13	Miscellaneous Construction Costs	
4	Provisional Sums and Dayworks	
4.1	Provisional Sums	
4.2	Valuing Variations from Net Costs	
4.3	Working Day Allowance	
4.4	Dayworks	
Total - Main Contract Works		\$ 80,352,527.00
5	BAYFAIR DRAINAGE WORKS - Separable Portion One	
5.1	Bayfair Drainage Works	\$1,858,461.00
Total Bayfair Drainage Works (Separable Portion One)		\$ 1,858,461.00
6	Variations	
6.1	Variations approved to date as listed on the following page	s 9(2)(b)(ii)
Total - Variations		\$
Contract sum before escalation for the month		80,728,489.67
Rise and Fall Cost Fluctuations for the month (estimate, no VO yet)		\$ 55,169.02
Contract Sum including escalation for the month		\$ 80,783,658.69

Contract Sum - List of Variations

Baypark to Bayfair Link Upgrade - Physical Works - Contract Sum

Contract No. 2/09-024/603

Item	Description		Contract Value
6	Variations	Date	Amount
6.1	VO 001 - Signalised Roundabout at MGI	11-May-17	§ 9(2)(b)(ii)
6.2	VO 002 - Removal of Provisional Sums and Dayworks	22-May-17	(10,032,195.00)
6.3	VO 003 - Modelling for Potential Cycle Crossing at MGI	3-Aug-17	
6.4	VO 004 - Design Costs for Shared Path along SH2	14-Sep-17	
6.5	VO 005 - Remove Powerco and FirstGas tendered lump sums	27-Nov-17	
6.6	VO 006 - Additional shared path along SH2 - design cost component	29-Nov-17	
6.7	VO 007 - NZTA / AMP Agreement cost estimating exercise	14-Dec-17	
6.8	VO 008 - First Gas District Regulating Station (MGI) relocation - PART B	30-Jan-18	
6.9	VO 009 - New TC Metro duct along Maunganui Road	16-Feb-18	
6.10	VO 010 - Shared path along SH2 (South)	27-Feb-18	
6.11	VO 011 - SH2 reinstatement - Powerco ducting drillshot pit		
6.12	VO 012 - Design costs for Bayfair Mall additional entrance	1-Mar-18	
6.13	VO 013 - Design costs for unforeseen sewer air valve on Maunganui Road	12-Mar-18	
6.14	VO 014 - TCC sewer manhole core samples	13-Mar-18	
6.15	VO 015 - Return of working street light luminaires	13-Mar-18	
6.16	VO 016 - Widen shared path along SH2 (North)	16-Mar-18	
6.17	VO 017 - Fence alterations - Maunganui Road	20-Mar-18	
6.18	VO 018 - TCC sewer manhole new lid and frame	22-Mar-18	
6.19	VO 019 - Temp Design for Gas Hole	4-Apr-18	
6.20	VO 020 - Matapihi Road Fence - Golf mini put encroachment	10-Apr-18	
6.21	VO 021 - Emergency Truman Lane Repair Works - PowerCo	17-Apr-18	
6.22	VO 022 - TC Metro cable protection along Maunganui Road	23-Apr-18	
6.23	VO 023 - TCC Sewer air valve and TCC extra scope betterment	30-May-18	
6.24	VO 024 - Investigation & design costs - Bayonne drilling head stuck (Powerco	13-Jun-18	
6.25	VO 025 - Road rehabilitation works - lack of routine maintenance prior to contr	14-Jun-18	
6.26	VO 026 - TMP for AMP temporary entrance, watermain connection	5-Jul-18	
6.27	VO 027 - Powerco rail protection costs - Truman Lane	5-Jul-18	
6.28	VO 028 - New watermain sleeve - Bridge 3 embankment	11-Jul-18	
6.29	VO 029 - New watermain sleeve - Maunganui Road Crossing	13-Jul-18	
6.30	VO 030 - Design for Truman Lane right turn & pedestrian access into Baypark	13-Jul-18	
6.31	VO 031 - Bayfair entrance 4 coordination	31-Jul-18	
6.32	VO 032 - Align attendance at Urban Design (Stakeholder) Workshop	1-Aug-18	
6.33	VO 033 - Prodrive tree trimming to allow fence neting replacement	15-Aug-18	
6.34	VO 034 - Contribution to speed radar signs	15-Aug-18	
6.35	VO 035 - Actual cost for First Gas Defect 3 deep excavation works	17-Aug-18	
6.36	VO 036 - SCATSIM modelling for MGI roundabout traffic signals	21-Aug-18	
6.37	VO 037 - Greenroads costs paid by NZTA on behalf of the project	22-Aug-18	
6.38	VO 038 - MGI NB off-ramp unforeseen ground conditions	31-Aug-18	
6.39	VO 039 - TCC Watermain betterment Maunganui Road	11-Sep-18	
6.40	VO 040 - In situ strength testing reduced to 1 per 300m2 for ground imp.	11-Sep-18	
6.41	VO 041 - Design costs - Bayfair Entrance 4 tie in	19-Sep-18	
6.42	VO 042 - Traffic Control supplied to Fosters - Bayfair Entrance 4	26-Sep-18	
6.43	VO 043 - First Gas TIP2 4.5m deep - VPR016	8-Oct-18	
6.44	VO 044 - Bayfair Construction Interface Timing - 1 Day EOT	15-Oct-18	
6.45	VO 045 - Initial Concept Design - Pedestrian Subway	17-Oct-18	
6.46	VO 046 - 4 new Sewer Manhole Lids requested by TCC	25-Oct-18	
6.47	VO 047 - First Gas Betterment - Matapihi Rd / Owens Place	1-Nov-18	
6.48	VO 048 - Pedestrian underpass imagery from Align	6-Nov-18	
6.49	VO 049 - Kiwirail Deed of Grant applications paid on behalf of NZTA	7-Nov-18	
6.50	VO 050 - First Gas DRS Relocation - CPB Civil Works	16-Nov-18	

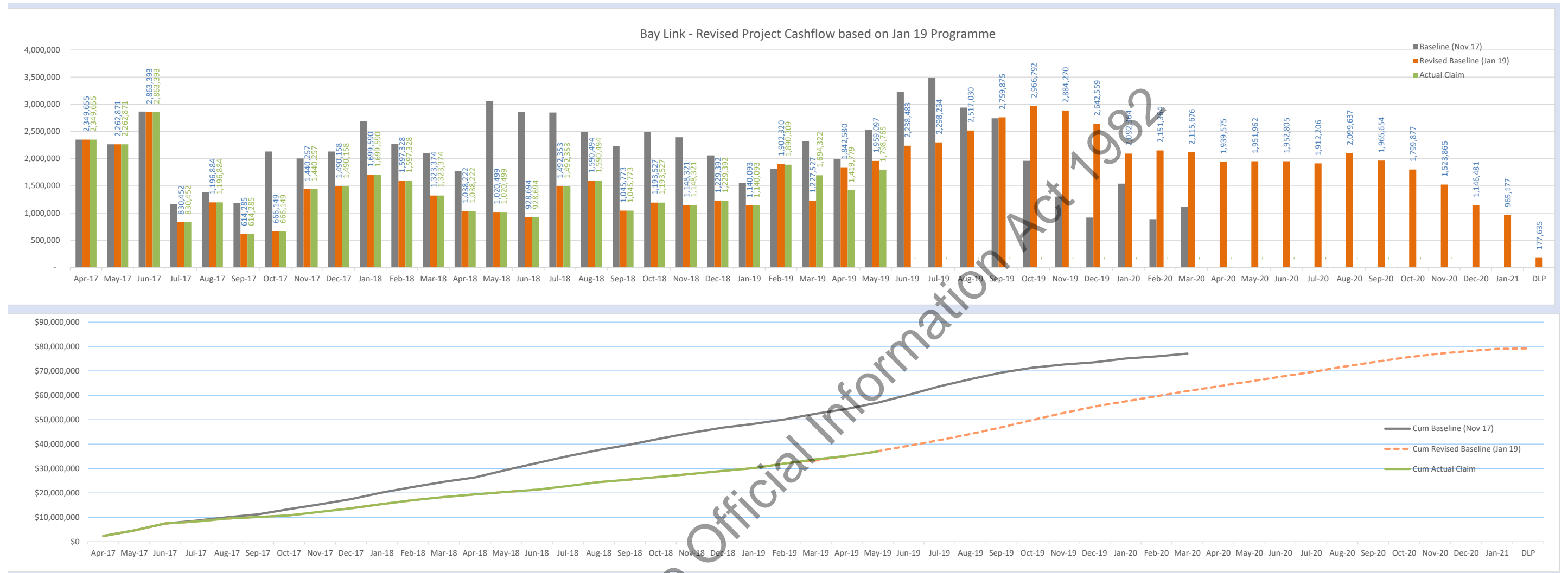
6.51	VO 051 - Traffic Control supplied to Fosters - Bayfair Entrance 4	23-Nov-18	
6.52	VO 052 - SH29 watermain - unforeseen excessive asphalt thickness	26-Nov-18	
6.53	VO 053 - Traffic Control supplied to Fosters - Bayfair Entrance 4 Nov18	5-Dec-18	
6.54	VO 054 - New underpass Design Philosophy Report	10-Dec-18	
6.55	VO 055 - Unforeseen rock dig out at stone column platform	11-Dec-18	
6.56	VO 056 - Bayfair Entrance 4 design - extra costs	19-Dec-18	
6.57	VO 057 - Reverse SCATSIM modelling for MGI traffic signals	20-Dec-18	
6.58	VO 058 - MGI underpass site investigation works	11-Jan-19	
6.59	VO 059 - Powerco 11kV relocation Matapihi Road	18-Jan-19	
6.60	VO 060 - Bayfair Entrance 4 permanent design	29-Jan-19	
6.61	VO 061 - Traffic Control supplied to Fosters - Bayfair Entrance Dec18	29-Jan-19	
6.62	VO 062 - Stage 3 Traffic Swich Temporary Works - MGI Underpass	1-Feb-19	
6.63	VO 063 - Pedestrian underpass 50% design Progress - January 2019	27-Feb-19	
6.64	VO 064 - Bridge 3 Abutment A Modelling, non-standard sewer manhole	1-Mar-19	
6.65	VO 065 - TC Metro Extension - SH29 / TEL	7-Mar-19	
6.66	VO 066 - Pedestrian underpass 50% design Progress - February 2019	12-Mar-19	
6.67	VO 067 - Cost Fluctuation to end February 2019	14-Mar-19	
6.68	VO 068 - Pedestrian underpass 50% design Progress - March 2019	28-Mar-19	
6.69	VO 069 - Buried Manhole - 737 Maunganui Road	8-Apr-19	
6.70	VO 070 - Sand deposits in DN860 Wastewater line	12-Apr-19	
6.71	VO 071 - Cost Fluctuation to end March 2019	15-Apr-19	
6.72	VO 072 - Permanent sheet piles around non-standard sewer manhole	18-Apr-19	
6.73	VO 073 - SH29A Pavement Thickness	30-Apr-19	
6.74	VO 074 - TCC Request to Repair Manhole on DN860 Sewer Line	30-Apr-19	
6.75	VO 075 - Construct Bayfair Entrance 4 and Maunganui Rd Tie-in	30-Apr-19	
6.76	VO 076 - Pedestrian underpass 50% design - April 2019	30-Apr-19	
6.77	VO 077 - March 2019 Relationship Workshop Costs	7-May-19	
6.78	VO 078 - Firstgas Defects 4a, 4b, 5	14-May-19	
6.79	VO 079 - Cost Fluctuation to end April 2019	23-May-19	
6.80	VO 080 - Pedestrian underpass 50% design - April / May 2019	5-Jun-19	
6.81	VO 081 - Bayfair Entrance 4 additional TTM works	5-Jun-19	
6.82	VO 082 - Unforeseen Conditions - SH29A Pavement Thickness	5-Jun-19	
Total - Variations		\$	(1,482,498.33)

Contract Sum - High Level Projection Based on Commercial Discussion (Weekly Reports)

7 High Level Look Forward - Variations Under Consideration		\$
Contract Sum As Above		80,783,659
Water - TCC - fire line, non compliant chamber, leaks, galv.pipe	s 9(2)(b)(ii)	
Gas - FirstGas - scope change, triangle TIP, Girven works, Matapihi		
Power - inadequate power for lighting, redundant lines		
Other - unforeseen, Baypark, Bayfair access, pavement maint., etc		
Pavement repairs / deferred maintenance		
EOT - pavement subgrade issue - MGI Northbound off ramp		
Pavement subgrade issues - balance of job		
EOT - MGI Roundabout issues, design delay		
Trial embankment area improvements for sections		
Pedestrian Underpass including EOT	31,000,000	
Variations under consideration		38,500,000
Total including quantified items above		119,283,659

8 Rise and Fall		\$
Up to end of last month (Variations 067, 071,079)		s 9(2)(b)(ii)
Current Month		
Total		1,479,114

Cash Flow



	Mar-17	Apr-17	May-17	Jun-17	Jul-17	Aug-17	Sep-17	Oct-17	Nov-17	Dec-17	Jan-18	Feb-18	Mar-18	Apr-18	May-18	Jun-18	
	May 17 to Jun 18																
Baseline (Nov 17)	2,349,655	2,262,871	2,864,352	1,160,626	1,387,761	1,188,306	2,132,643	2,004,316	2,130,844	2,685,231	2,267,880	2,103,229	1,773,494	3,060,818	2,856,390		
Revised Baseline (Jan 19)	2,349,655	2,262,871	2,863,393	830,452	1,196,884	614,285	666,149	1,440,257	1,490,158	1,699,590	1,597,328	1,323,374	1,038,222	1,020,499	928,694		
Actual Claim	-	2,349,655	2,262,871	2,863,393	830,452	1,196,884	614,285	666,149	1,440,257	1,490,158	1,699,590	1,597,328	1,323,374	1,038,222	1,020,499	928,694	
Cum Baseline (Nov 17)	2,349,655	4,612,526	7,476,878	8,637,504	10,025,265	11,213,571	13,346,214	15,350,530	17,481,374	20,166,605	22,434,485	24,537,714	26,311,208	29,372,026	32,228,416		
Cum Revised Baseline (Jan 19)	2,349,655	4,612,526	7,475,919	8,306,371	9,503,255	10,117,540	10,783,689	12,223,946	13,714,104	15,413,694	17,011,022	18,334,396	19,372,618	20,393,117	21,321,811		
Cum Actual Claim	-	2,349,655	4,612,526	7,475,919	8,306,371	9,503,255	10,117,540	10,783,689	12,223,946	13,714,104	15,413,694	17,011,022	18,334,396	19,372,618	20,393,117	21,321,811	
	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19		
	Jul 18 to Sep 19																
Baseline (Nov 17)	2,847,281	2,491,905	2,229,031	2,492,122	2,393,474	2,059,871	1,551,575	1,808,617	2,322,604	1,992,400	2,534,065	3,231,654	3,483,333	2,938,623	2,742,281		
Revised Baseline (Jan 19)	1,492,353	1,590,494	1,045,773	1,193,527	1,148,321	1,229,392	1,140,093	1,902,320	1,227,527	1,842,580	1,959,097	2,238,483	2,298,234	2,517,030	2,759,875		
Actual Claim	1,492,353	1,590,494	1,045,773	1,193,527	1,148,321	1,229,392	1,140,093	1,890,309	1,694,322	1,419,779	1,798,765						
Cum Baseline (Nov 17)	35,075,697	37,567,602	39,796,633	42,288,755	44,682,229	46,742,100	48,293,675	50,102,292	52,424,896	54,417,296	56,951,361	60,183,015	63,666,348	66,604,971	69,347,252		
Cum Revised Baseline (Jan 19)	22,814,164	24,404,659	25,450,431	26,643,958	27,792,279	29,021,670	30,161,763	32,064,083	33,291,610	35,134,190	37,093,287	39,331,770	41,630,003	44,147,033	46,906,908		
Cum Actual Claim	22,814,164	24,404,658	25,450,431	26,643,958	27,792,278	29,021,670	30,161,763	32,052,071	33,746,393	35,166,173	36,964,938						
	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	DLP
	Oct 19 to Apr 20																
Baseline (Nov 17)	1,960,121	1,302,614	917,349	1,541,262	888,124	1,111,548											
Revised Baseline (Jan 19)	2,966,792	2,884,270	2,642,559	2,092,364	2,151,364	2,115,676	1,939,575	1,951,962	1,952,805	1,912,206	2,099,637	1,965,654	1,799,877	1,523,865	1,146,481	965,177	177,635
Actual Claim																	
Cum Baseline (Nov 17)	71,307,373	72,609,987	73,527,336	75,068,598	75,956,722	77,068,270											
Cum Revised Baseline (Jan 19)	49,873,700	52,757,970	55,400,529	57,492,893	59,644,256	61,759,933	63,699,507	65,651,470	67,604,275	69,516,481	71,616,119	73,581,773	75,381,650	76,905,515	78,051,996	79,017,173	79,194,808
Cum Actual Claim																	

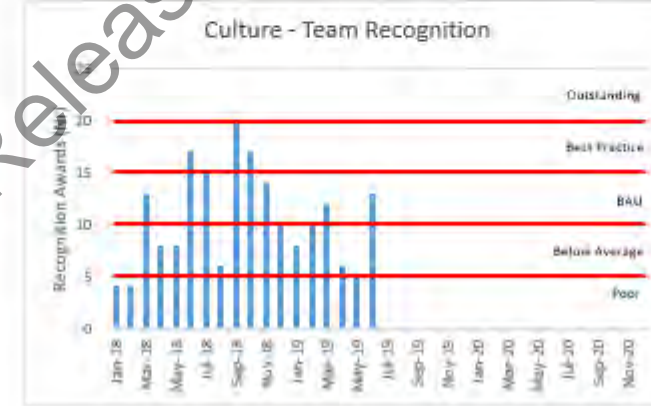
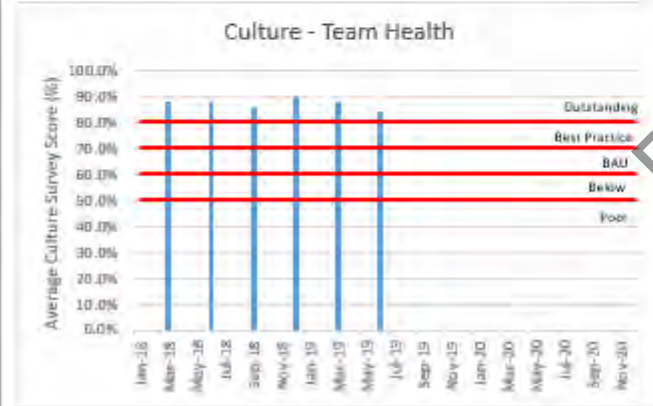
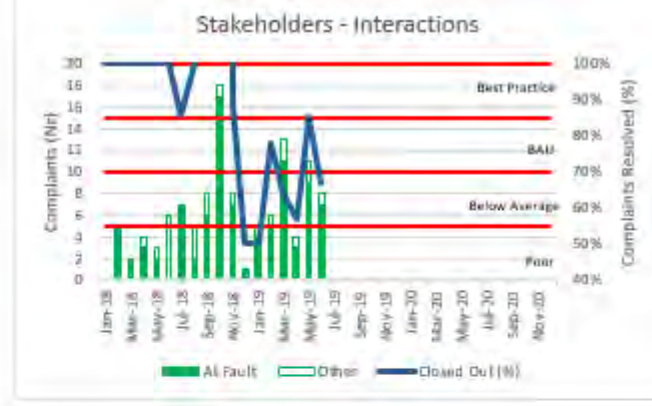
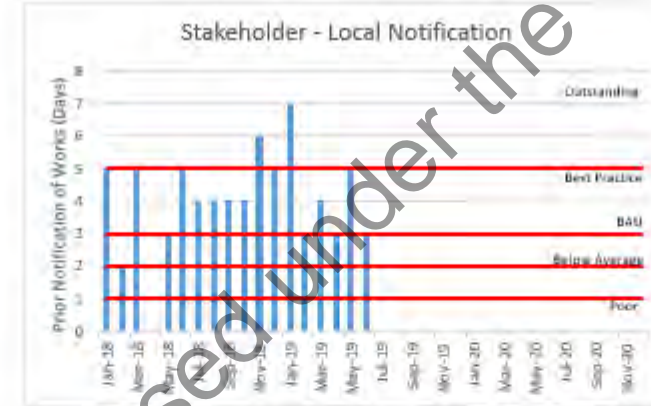
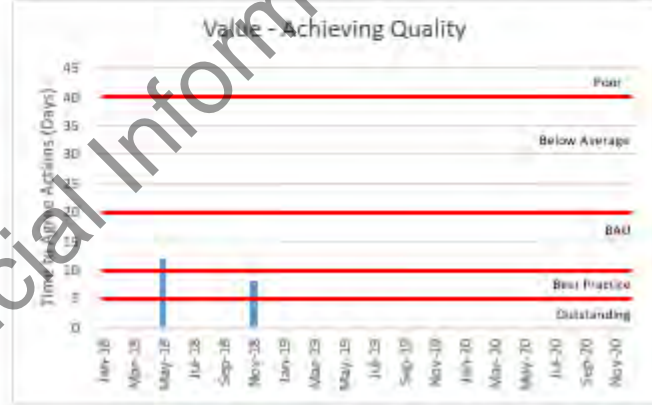
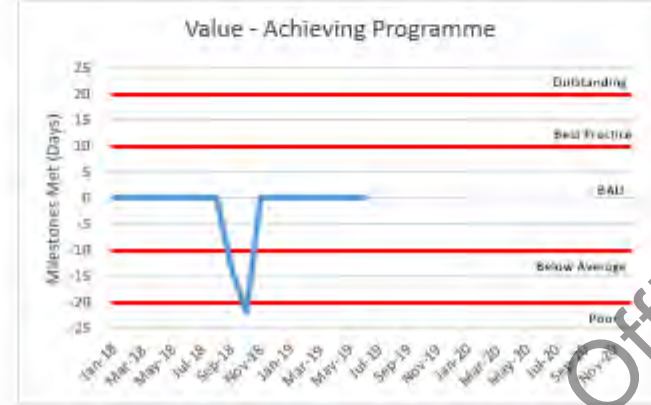
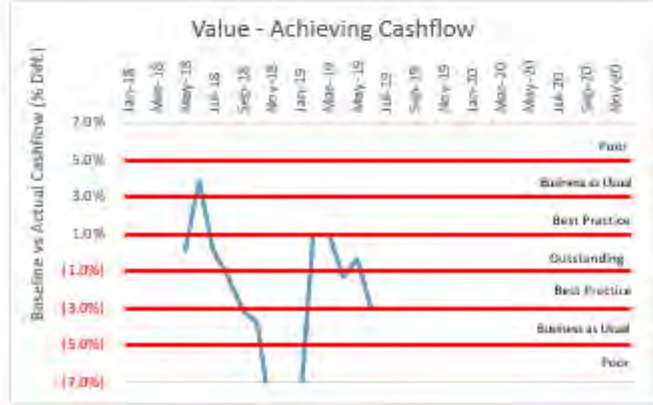
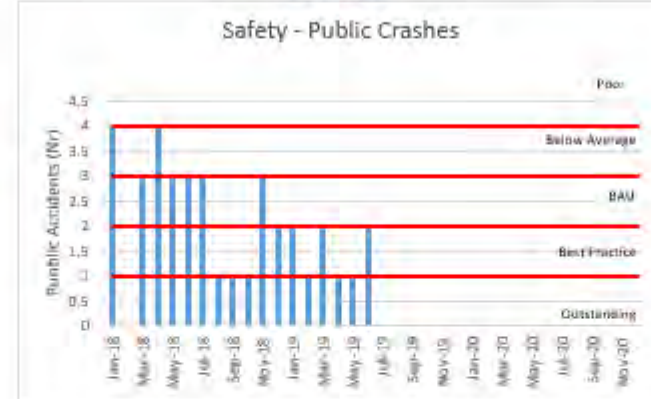
VARIATION REGISTER		Initial Contract Value:		SUMMARY:	
CPB Project Number:	NZ1001	Main Works	80,352,527.00	Total Number of Variations:	82
Project Name:	Baypark to Bayfair Link Upgrade	SP1	1,858,461.00	Amount of Variations Approved (\$):	(1,482,498)
Client:	NZTA	Total	82,210,988.00	Amount Outstanding (\$):	
Engineer to Contract:	Beca			Original Contract Value (\$):	82,210,988
Contract Award Date:	Thursday, 13 April 2017			Revised CV before Rise & Fall for Mth	80,728,490
CPB Project Manager:	Dean Taylor			Likely Contract Value (\$):	Per Contract Sum Analysis
CPB Commercial Manager:	Chris Tyler				



Variation Order No.	Type	VPR Number	Notification Date	Description	Amount (\$)	Revised Contract Value	Days Claimed	CPB Person Responsible	Status	Action With	Costing		Approval Details			Comments
											Budget Amount (\$)	Margin Amount (\$)	Date Approved	Amount Approved	Approved Days	
001	VO	001	2/05/2017	MGI Roundabout												
002	VO		22/05/2017	Removal of Provisional Sums and Dayworks												
003	VO		21/07/2017	Modelling of potential cycle crossing MGI												
004	VO	002	14/09/2017	Design Costs for Shared Path along SH2												
005	VO		27/11/2017	Remove Powerco and First Gas tendered lump sums												
006	VO	005	21/09/2017	VPR 005 Additional shared path along SH2 - design cost component												
007	VPR	009	14/12/2017	VPR 009 - NZTA / AMP Agreement cost estimating exercise												
008	VO	007	10/07/2017	First Gas District Regulating Station (MGI) relocation - PART B												
009	VPR	013	9/01/2018	New TC Metro duct along Maunganui Road												
010	VO	002	1/06/2017	VPR 002 Shared Path along SH2												
011	VPR	014	17/01/2018	Powerco ducting, SH29 reinstatement - drill shot pit												
012	VPR	003	31/07/2017	VPR 003 Bayfair Mall additional entrance SH2 - PART B												
013	VO		12/03/2018	UNFORESEEN - Sewer Air Valve on Maunganui Road CH260 PART B - design only												
014	VO		13/03/2018	TCC Sewer Manhole Core Samples												
015	VPR	008	27/10/2017	Return working street light luminaires to TCC yard												
016	VPR	005	21/09/2017	VPR 005 Additional shared path along SH2												
017	CI	032		Fence Alterations Maunganui Road												
018				Construct New Lid and frame												
019				Temp Design for Gas Hole												
020	VPR	012	21/12/2017	Matapihi Road Fence - Golf mini put encroachment												
021				Emergency Truman Lane Repair Works - PowerCo												
022	VPR	015	18/01/2018	TC Metro cable protection along Maunganui Road												
023	VPR	010	27/11/2017	TCC sewer rising main replacement - 100m around Matapihi Rd 1350 stormwater replacement. - PART B and UP Air Valve												
024	VPR	018	13/06/2018	Investigation & design costs - Bayonne drilling head stuck (Powerco works)												
025	CI		14/06/2018	Road rehabilitation works - lack of routine maintenance prior to contract												
026	VPR	021	7/06/2018	TMPs for entrance for Bayfair expansion project. Actual cost of TMPs provided will be claimed as a VO on a monthly basis, evidenced by records provided by Geoff Shackell to Chye.												
027	CI	329		Rail Protection Officer to Attend Powerco Works												
028	VPR	020	11/05/2018	Watermain Sleeve for Bridge 3 Fill Embankment												
029	VPR	019		Watermain Sleeve for Maunganui Road Crossing												
030	VPR	006	21/09/2017	Truman Lane - Baypark access and pedestrian crossing. Revised geometrics design - longer turning lane												
031	VPR	021	7/06/2018	Effort to coordinate design for entrance for Bayfair expansion project. This is a lump sum amount.												
032			11/07/2018	Align attendance at NZTA Urban Design workshop												
033	VPR	024	2/08/2018	Prodrive tree trimming to allow fence netting replacement												
034	CI	549	15/08/2018	NZTA contribution to Speed Radar Signs												
035	VPR	022	19/06/2018	NZTA agreement to pay costs for defect 3 on the First Gas defect remedials on SH29 adjacent to Baypark.												
036	CI	481	4/07/2018	SCATSIM modelling for MGI signalised intersection traffic lights - Aurecon / Jacobs scope												
037	CI	569	22/08/2018	Cost of Greenroads registration fees. Total cost of \$39,615 paid by NZTA, less their agreed portion of \$19,458. Balance of \$20,157 = CPB cost												
038	CI	583	31/08/2018	Unforeseen ground conditions - remove, replace with suitables and compact.												
039	VPR	017	4/04/2018	TCC Water Main - Modification of Requirements												
040	CI	272	26/02/2018	Departure request - creep settlement at BR02 and BR03												
041	VPR	023	17/07/2018	Bayfair Mall additional entrance 4 - review Lysaght design, geometric concept design, permanent design (to build past)												
042	VPR	021	7/06/2018	Cost of TMPs provided to AMP for Bayfair entrance will be claimed as a VO on a monthly basis, evidenced by records provided by Geoff Shackell to Chye. NB email from Jack of 6/7/18 - item 7 value not fixed, but circa \$26k based on \$3k day, \$4k night.												
043	VPR	016	8/10/2018	UFC - 4.5m deep Gas Pipe - TIP2												
044	VPR	023	17/07/2018	Bayfair Mall additional entrance 4 - EOT due to instruction to defer works, thereby just pushing onto critical path												
045	CI	664	17/10/2018	Concept design costs for pedestrian subway												
046	CI	673	25/10/2018	4 new sewer manhole lids requested by TCC												
047	CI	683	1/11/2018	First Gas Betterment Matapihi Road and Owens Place												
048	CI	690	6/11/2018	Pedestrian underpass imagery for NZTA communications exercise												
049	CI	691	7/11/2018	Kiwirail Deed of Grant applications paid by CPB for Southern stormwater pond												
050	VPR	007	10/07/2017	First Gas District Regulating Station (MGI) relocation - PART C as per VO 8												
051	VPR	021	7/06/2018	Cost of TMPs provided to AMP for Bayfair entrance will be claimed as a VO on a monthly basis, evidenced by records provided by Geoff Shackell to Chye. Refer to VO042												
052	CI	718	20/08/2018	Unforeseen thicker pavement encountered during construction of the TCC watermain crossing at SH29												
053	VPR	021	7/06/2018	Cost of TMPs provided to AMP for Bayfair entrance. Refer to VO042 and VO51												
054	VPR	026	10/12/2018	New pedestrian underpass Design Philosophy Report in line with scope per Jacobs, T&T, Align and GHD design change notices per NTE0744												
055	CI	744	11/12/2018	Unforeseen rock dig out at the stone column platform												
056	CI	751	19/12/2018	Bayfair Mall additional entrance 4 - revision to Jacobs scope per VO041												
057	CI	481	4/07/2018	Reverse VO36 - SCATSIM modelling for MGI signalised intersection traffic lights - Aurecon / Jacobs scope												

BAY LINK

KEY PERFORMANCE INDICATORS



Released under the Official Information Act 1982