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**From:** Vicki Cawte  
**Sent:** Thursday, 14 November 2019 10:29 AM  
**To:** 'Craig Wilson'  
**Subject:** RE: Update

Cool that all sounds good – talk to you in the morning.

Have a good day

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Thursday, 14 November 2019 10:28 am  
**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Subject:** Re: Update

Yes. Will send through this arvo what I have for you to look at. There is no chance of an install b4 christmas now but still want to get this organised so when we do get the go ahead from nzta we are good to go. Which still means getting this finished and lodged asap

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**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Thursday, November 14, 2019 10:24:55 AM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** RE: Update

For a call? Yeah 9am is good for me.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

---

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Thursday, 14 November 2019 10:17 am  
**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Subject:** Re: Update

Hi Vicki.  
Is tomorrow at 9am Ok? Have some updates and work in progress on some items to discuss.  
Regards  
Craig

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**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Thursday, November 14, 2019 10:12:27 AM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** Update

Mōrena Craig

Just touching base to see how things are tracking and if there is anything we can help with for the TMP. Marc said you were waiting on an aviation plan or something from the helicopter pilot – is that right?

Need to organise another meeting to speak about the project plan that we've developed in terms of comms and also firm up who needs to be kept in the loop e.g. stakeholders and also a potential invite list for the event next year.

Give me a call if you need I'm around all day today and tomorrow.

Ngā mihi

---

**Vicki Cawte**  
*Kaitohu Whakapā*  
P: 07 351 8044 | M: 027 937 4606  
E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz  
A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Vicki Cawte  
**Sent:** Thursday, 14 November 2019 10:55 AM  
**To:** 'Craig Wilson'  
**Subject:** RE: Statue

Awesome thanks for this Craig – will have a look through it all today.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Thursday, 14 November 2019 10:39 am  
**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Subject:** Fwd: Statue

Hi Vicki.

This is what I have created so far as there was nothing forth coming. Have one of my staff converting the timetable to a proper project plan gant chart.

Feel free to add anything else required and we can discuss tomorrow.

Regards

Craig

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# Installation Project Plan

## **Objective**

The following Installation plan is created to outline the process of lifting the Hemo Gorge Roundabout Sculpture from the production facility at Kilwell Fibretube, located at 490 Te Ngae Road to the middle of the roundabout on SH300 outside Te Puia for installation.

The following should be read and understood by all team members including the attached Hazard Register.

## **Pilot & Aircraft**

Beck Helicopters was formed in 1972 and is now the longest surviving continuous operator in NZ, and one of the longest in the world. They currently have a permanent staff of 16 with around 5 contract Engineers and pilots that we call on for firefighting overseas.

They have some of the highest qualified personnel of any operator doing this kind of work. They come with their own long serving ground crews, one with 19 years' experience, another with 15 years. Their Chief Engineer has been with them since 1977 and is one of the highest qualified Bell Iroquois Overhaul Engineers anywhere in the world.

The CEO and pilot is Alan Beck, the founding director of Beck Helicopters. Alan actively participates in industry and stakeholder organisations promoting industry driven implementation of "Best Practice" programs and is a former Chairman of the NZAAA. As Chief Pilot of the Company, Alan amassed a total of 21,000 plus hours flying in Bell 47, Bell 206 and Bell 204 Iroquois helicopters on a variety of Agricultural, Aerial Work and Air Transport operations. He is one of New Zealand's most experienced agricultural and specialist lift pilots.

Some notable projects they have been selected for and accomplished without a hitch are:

- Taking the tree off One Tree Hill
- Offshore Concrete pour for new sewerage plant at Mairangi Bay

- Poring 1000 cube of concrete down the Air shaft at Pike River
- Erecting the Bungee at Queenstown “Ledge”
- Cell phone site erections all over NZ
- Gondola at Christchurch Bike track (under main transmission lines)
- All ski tower work for Doppelmyer and Leica on Ruapehu and elsewhere since 1996
- Preferred operator for many power and Lines companies
- Concrete pouring and installation of wind towers
- Erection of Bronze 4-meter disc in Botanical Gardens Wellington. A very tricky install as couldn't see under the disc so relied on ground crew directions.

### **Equipment:**

The Bell Iroquois helicopters are ex-military aircraft and as such are classified “Restricted Category”. This means they are not permitted to carry fare paying passengers but can carry up to 10 passengers if they are deemed necessary to complete a mission. These machines are primarily specialist heavy-lift machines and as such have a hook capacity of 4,000lb (1,800kgs).



SEATS: 1 Pilot + 10 Passengers  
 MAX LOAD: 4,000 lbs (1,818 kgs)  
 DIMENSIONS: Length: 57 ft 0.5 in  
                   Width: 9 ft 6.5 in  
                   Height: 13 ft 8 in  
 ROTOR DIAMETER: 43 ft 3 in  
 ENGINE: 1 Lycoming T53-13B  
 HORSEPOWER: Take Off: 1,400 hp  
 MAX CONTINUOUS: 1,100 hp  
 PERFORMANCE:  
 Service Ceiling: 20,000 ft  
 VNE: 120 kts  
 CRUISE: 100 kts  
 FUEL BURN: 400 ltrs / hr  
 ENDURANCE: 2 hrs plus reserve

### **Weather Requirements:**

We need it calm or a slight breeze from the west so as to be able to fly in from the east. Preferred time for the lift is early morning to take advantage of low wind and traffic volumes. Wind speed over xx km/hr will mean a No GO.

### **Installation Process**

The following project plan shows the approximate estimated timings and responsibilities of each team in the installation. Teams are as follows:

- AB** Alan Beck (Pilot) & Chopper – role is to lift sculpture and place into Hemo roundabout.
- K1** Kilwell Team No.1 onsite at Kilwell, 490 Te Ngae Road. Role is to attach lifting harness and flight sail to sculpture.
- BH1** Beck Helicopters ground Crew team in Te Puia carpark. Role is to check load before install, remove flight sail, receive all clear from TM and confirm install is finished and refuel chopper after installation.
- BH2** Beck Helicopters ground Crew team located in Hemo Roundabout – to guide installation and give all clear to AB.
- K2** Kilwell team No.2 to help with installation and bolting of Hemo Sculpture once installed in roundabout.
- TM** Traffic Management team – to ensure traffic is halted at TM1-3 locations. Pass on all clear to BH1 to proceed with install and release traffic again on instructions from BH1 that install is complete.

### **Flight Timetable:**

Once clearance is received from Rotorua Airport AB will confirm with the Hemo Roundabout site teams (BH1, BH2, TM and K2) and begin the flight project plan as detailed below.

Overall Total Project Time is 120 mins.

Total flight time is 90mins

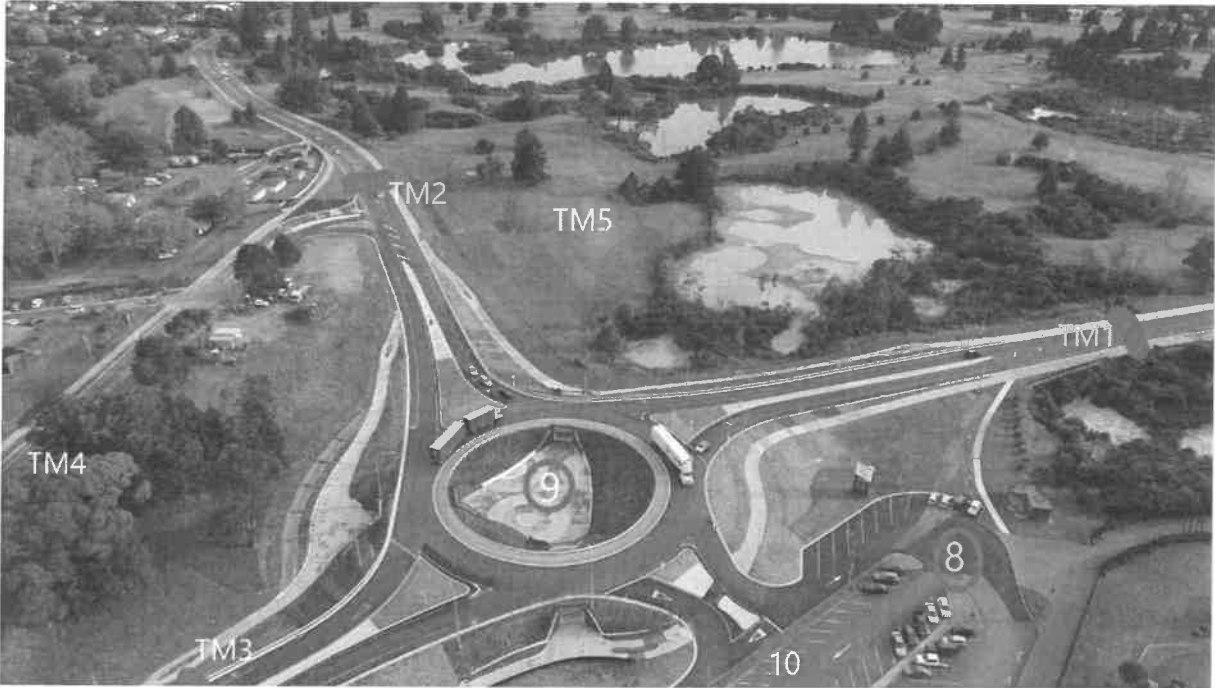
Traffic closure time is 10 mins for each Helix (20 mins in total)

Time between Installations is 35mins

Part	Step	Project Steps	Outer Helix	Flight Time	Traffic Stopped	
Outer Helix	1	K1 to connect "Outer Helix" Sculpture to AB at 490 Te Ngae Road (Location 1).	10			
	2	AB to head out to Lake Rotorua, up to Airport, across to Whakarewarea forest to Hemo Gorge entrance (Location 2 to 7).	15	15		
	5	AB to come north down the Hemo gorge into the Te Puia Carpark (Location 8)	5	5		
	6	AB to stop in Te Puia carpark. BH1 to remove flag and final check on lifting harness.	5	5		
	7	TM to stop traffic & relay all clear to AB when OK to proceed with install.	5	5	5	
	8	AB to take off from Te Puia carpark and drop "Outer Helix" into position with help of BH2.	5	5	5	
	9	BH1 with help from K2 secure sculpture with minimum of 8 bolts and then detach harness.	5	5		
	10	AB to move back to Te Puia carpark (Location 8) to refuel, pick up flag with BH1.	10			
	11	AB & BH1 to confirm to TM roundabout is clear and restart Traffic.	0			
	12	AB to head back to Kilwell at Te Ngae road (Location 1) via route 11 to pick up "Inner Helix."	5	5		
	13	K1 to connect "Inner Helix" Sculpture to AB at 490 Te Ngae Road (Location 1).	10	10		
Inner Helix	14	AB to head out to Lake Rotorua, up to Airport, across to Whakarewarea forest to Hemo Gorge entrance (Location 2 to 7).	15	15		
	18	AB to stop in Te Puia carpark. BH1 to remove flag and final check on lifting harness.	5	5		
	19	TM to stop traffic & relay all clear to AB when OK to proceed with install.	5	5	5	
	20	AB to take off from Te Puia carpark and drop "Inner Helix" into position with help of BH2.	5	5	5	
	21	BH2 with help from K2 secure sculpture with minimum of 8 bolts and then detach harness.	5	5		
	22	AB to move back to Te Puia carpark (Location 8) to refuel, pick up flag with BH1.	10			
	<b>Total Time</b>			<b>120</b>	<b>90</b>	<b>20</b>
	Time Between Road Closures			35		



**Hemo Roundabout**



**Flight Path**



### **Communication Plan**

Comms required between TM & AB

Comms between BH1 & KS1

Pedestrian Plan & Viewing

### **Go/No-Go Call**

2 weeks out from project weather will be reviewed and confirmed.

TM can then issue publication of plan to proceed – dependent on weather on the day.

Night before AB will reconfirm call depending on revised weather

### **Emergency Numbers**



### Hazard ID Worksheet

*Description of Work – Lifting Statue with Helicopter, Rotorua.*

	Contract Number:		
Working / Lifting with Helicopter/ Managing Traffic/ Flying in Control Zone			
<b>HAZARDS OF THE WORK TO BE UNDERTAKEN</b>			
<b>STEPS</b> (Key Tasks) (Break the job down into its basic steps)			
Overview of job requirement			
	<b>TOOLS AND EQUIPMENT</b>	<b>HAZARDS</b> (Associated with each key task)	<b>HAZARD CONTROL</b> (How do you plan to eliminate or minimise)
Requirements to complete job	Requirements to complete job	Working with helicopters, underslung load	Staff training, all PPE available, Radio comms with pilot and staff. Hand signals as backup.
Permits, authorisations	Permits, authorisations	Control tower approval required. Notify Police/Emergency services. Notify Council.	Other aircraft in circuit. Police to be made aware of lift. Beck to notify council.
NZTA Road closure	NZTA Road closure	Helicopter hovering over road	NZTA to close road when helicopter is placing load.

Predetermination of weight	Weight needs to be within limit	Weigh load prior to lift
Lift trial	Load could be too heavy or lift ring unsuitable	If possible, trial lift the statue to check weight and test lifting ring.
Timing for job	Could end up with period of unsettled weather.	Trial pickup by helicopter night before.
Timing for traffic	Too much traffic buildup, or cars trying to go through whilst the lift is being performed.	Pick early morning as best, but decision will rely on fog/wind etc.
Neighbour considerations at lifting point	Noise and strong rotor wash/leaves and dust blowing about.	Final decision to be made nearer to time so that NZTA can organise traffic.
Wind considerations at site	Wind from the wrong direction means an approach from wrong way.	Kilwell to notify all neighbours of intended lift and to mitigate.
Flight path and characteristics	Could drop load or cause hazards to people /stock/property.	Ideally a STH /SW/NW wind so that the approach is over the carpark.
Emergency set down procedure	Load spins or oscillates out of control, problems with helicopter	Plan route clear of houses, out over lake front to crossroad in vicinity of Airport, free of traffic.
		Plan run to coincide when clear. Flight to site over clear areas.

	Stropping of load	Wrong sized /combinations of strops/shackles	<p>Have a flight path planned clear of obstacles or built up area.</p> <p>Strop up loads using BHL certified strops and shackles to lifting eyes on statue.</p> <p>Keep speed to safe limit to stop spinning, and to ensure statue stays intact. Pilot to utilise known standard practise for this type of sophisticated lift.</p>
Hooking up - Our crew	Speed restrictions	Too fast a speed destroys statue or creates massive oscillation.	<p>Staff Training, gloves available.</p> <p>All staff to wear appropriate PPE.</p> <p>Use of correct shackles.</p> <p>Crew to have RT comms.</p>
	Shackles- we supply	Working with lifting gear, fingers/toes/eyes/ wrong lifting gear.	
Ropes or strops	Ropes- Beck certified	Use of unapproved/uncertified ropes or shackles	<p>Only Beck approved strops and shackles from lifting ring to helicopter.</p> <p>Take 2 complete sets of strops/ropes /shackles to be able to leave ropes on statue till able to be retrieved.</p> <p>Earmuffs/Hand signals</p>
Initial Helicopter Lift	Helicopter- Bell 204	Noise/Sound/ Hearing difficulties	
		Dust	Staff Training, let dust dissipate.
		General Helicopter Dangers	Staff Training in working around helicopters.

				Escort other personnel to/away from helicopter. Keep all onlookers clear, and notify neighbours again
	Lifting Ropes, Shackles		Dropping on personnel	Staff training - don't fly over personnel if possible.  Don't walk under slung load, except when positioning on footing.
			Working under Helicopter	Staff Training, emergency procedures.
			Emergency landing when hooking up	BHL crew to follow Emergency Procedure in SOP.
Pilot Considerations	Wires, Trees, Other Obstacles		Unintentional Contact	Pilot training, briefings, etc Use of radios to keep in contact Radio contact with Tower before lift-off
"Toolbox Meeting" --all personnel	Helicopter and equipment,		As above	Sign Acceptance form B5 DFR Put flight path for day on back  Mark out path on topo map.  All contractor's staff ' on sites to assist the lift will be given safety briefing by Chief Pilot,- with understanding they are under the direction of the Crew Chief once helicopter is airborne.

Site Inspection and Haz ID	Flight path and Job site	Pick wrong path/Time	Pilot to undertake with supervisor. Phone call to Tower prior to start up Other crew and staff stand clear.
Pre acceptance lift by helicopter crew.	All Equipment	Statue doesn't lift flat, or oscillates wildly due to rotor wash. Lifting ring bends Tail rudder is too flexible	Lift statue to check for stability and strength of lifting spreader and rudder the night before if possible.
Use of Radio from Pilot to Crews	Radios/Headsets	To make sure that RT comms are working and that everyone is in the loop. Watch for safety lapses, and staff becoming "blasé"	Crew Chiefs to respond from both ends.
Crew Chief to advise and inform.	RT comms and hand signals	No Plan B or C	Pilot to acknowledge crew chiefs. Check horn on helicopter.  Check crew at both ends are using hand signals as well.
Safety of crew	All staff	Staff standing in the wrong place or under the load.  Hooked up wrongly.  Not wearing hi vis or PPE	Check that all crew move out to the LHS of the Heli before lift and that when placing statue.  All non BHL staff are well out of the way on LHS of helicopter.  Only Crew chief and assistant to move in once statue is in position.

			<p>Once placed then other contractors to be beckoned in.</p> <p>Help is needed to rotate and place statue over bolts.</p>
Unhooking of load	Long line	<p>Using too heavy a shackle which can damage statue.</p> <p>Not enough fuel to do job or too much or too little fuel to complete lift.</p>	<p>When unhooking shackle from master hook, move backwards to clear statue before releasing.</p> <p>Have cherry picker on site if necessary to assist with this.</p> <p>Assess distance/time to compute fuel to minimum 20 min reserve. Refuel at carpark</p>
Refuelling	Trailer Tanker at carpark		
Return to pickup point	Aircraft	<p>Flying over houses, stock or 3<sup>rd</sup> party obstacles.</p> <p>ATC clearance not given</p>	<p>Plan path LAW safe operating procedures</p> <p>Call Control tower before leaving</p> <p>Re fuelling area to confirm if any delays.</p> <p>Stay in contact with ATC. If delayed, orbit or land at airport till clearance given</p>



# Hemo Installation Team Register

## *Description of Work – Installation of Statue with Helicopter, Rotorua.*

TEAM LABEL	MEMBERS	LOCATION	KEY TASKS	CONTACT DETAILS
AB	Alan Beck (Pilot)	Helicopter	Helicopter Pilot	027 442 5939
K1	Kilwell Team No.1 Dennis Albrecht Barry Saunders	Kilwell - 490 Te Ngae Road	Attached sculpture to lifting harness Attach flight sail	
BH1	Beck Helicopters Team No.1 TBC TBC	Te Puia Carpark	Check load before install. Remove flight sail Receive all clear from TM Confirm install is finished Refuel chopper	
BH2	Beck Helicopters Team No.1 TBC TBC	Centre of Hemo Roundabout	Guide installation with AB Ensure sculpture is aligned with bolts Help attach bolts to sculpture base	
K2	Kilwell Team No.2	Centre of Hemo Roundabout	Ensure sculpture is aligned with bolts Help attach bolts to sculpture base	
TM1	Traffic Management No 1	Hemo Road – SH30 outside Te Puia	Stop and start traffic & pedestrians	

TM2	Traffic Management No 2	Old Taupo Road - SH5 Outside Mokoia Road intersection	Stop and start traffic & pedestrians	
TM3	Traffic Management No 2	Thermal Explorer Highway – SH30 – South of Roundabout	Stop and start traffic & pedestrians	
TM4	Traffic Management No 2	Mokoia Drive – Outside Toi Ohomai Institute	Stop and start traffic & pedestrians	

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**From:** Vicki Cawte  
**Sent:** Friday, 15 November 2019 2:34 PM  
**To:** 'Craig Wilson'  
**Subject:** RE: Notes

Cool thanks – have a good weekend then 😊

Ngā mihi

---

**Vicki Cawte**  
*Kaitohu Whakapā*  
P: 07 351 8044 | M: 027 937 4606  
E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz  
A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Friday, 15 November 2019 2:31 pm  
**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Subject:** RE: Notes

Nope that's all – thanks for this

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Friday, 15 November 2019 2:20 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** RE: Notes

Thanks for the changes Craig. When you say 'publication' what do you mean?

I am only planning on sending these to the project partners so they are in the loop e.g. Te Puia, NZTA and our internal team – Henry, Stewart and Marc.

Is there anyone else that needs to be on that list?

Ngā mihi

---

**Vicki Cawte**  
*Kaitohu Whakapā*  
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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Friday, 15 November 2019 1:29 pm  
**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>

**Cc:** Laszlo Kotan <Laszlok@fibretube.co.nz>

**Subject:** RE: Notes

Hi Vicki,

Have made a few changes as attached. Will this be sent to council for approval for publication?

Regards

Craig

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>

**Sent:** Friday, 15 November 2019 1:16 PM

**To:** Craig Wilson <craigw@kilwell.co.nz>

**Subject:** Notes

Kia ora Craig

I've put together these notes to share with everyone – can you have a look over and make any changes needed.

Thanks

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

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## Hemo sculpture update at 15 November 2019

### Fabrication

- The Kilwell team have completed and painted all of the inner helix and the first quarter of the outer helix, and two other quarters are going through the last stages of fabrication now.
  - One tube that forms part of the last quarter is being reprinted due to its alignment being too far out from its structure. This is not a new challenge for the team but unlike previous fixes for misalignment for this particular section would may require too many fixes that could undermine the structural integrity of the piece. The engineer that certify the sculpture to the PS1 standard have therefore asked that they reprinting and laminate the piece again. The construction process is likely to take the same amount of time as the fix process anyway.
  - Kilwell will wait until all the quarters of the outer helix are complete before lifting it into the scaffolding – this means that the crane only has to come out once.
- Timing for completion is likely to be December with a few weeks work to install connecting sections following the Christmas break.

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### Traffic Management Plan

- Kilwell has been working with Beck Helicopters on a flight plan and other required documentation for the Traffic Management Plan.
  - Craig has prepared a project plan (including steps for the installation process), hazard register and team register. These documents are now with Alan Back to approve and amend if required/adjust.
  - Craig will follow up with Beck Helicopters to get this approval. Once these documents are finalised it will enable Kilwell and 50/50 to move forward with the Traffic Management Plan.
- Once the plan is finalised it will be submitted to NZTA to start the approval process, which is likely to be at least 10 weeks.

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### Installation date

- Won't be before Christmas – the requirements for TMP approval and added fabrication pressures mean installation prior to the holidays is a no go.
- Depending on TMP approval installation won't be likely to happen until at least February.

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**Communications and unveiling event**

- Council communications staff working to develop a project plan for both the installation comms/coverage and the event for the 'unveiling' of the sculpture to partners and stakeholders.

CONFIDENTIAL



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**From:** Vicki Cawte  
**Sent:** Wednesday, 4 December 2019 8:42 AM  
**To:** 'Craig Wilson'  
**Subject:** RE: Catch up - Hemo sculpture

Yeah sure thing. I'll change the appointment time.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

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**From:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Sent:** Wednesday, 4 December 2019 8:40 am  
**To:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Subject:** RE: Catch up - Hemo sculpture

Is 4pm ok?

---

**From:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Sent:** Wednesday, 4 December 2019 8:31 AM  
**To:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Subject:** RE: Catch up - Hemo sculpture

Kia ora Craig

Yes that's totally fine. When is a good time for you?

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

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A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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-----Original Appointment-----

**From:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>

**Sent:** Tuesday, 3 December 2019 9:52 pm

**To:** Vicki Cawte

**Subject:** New Time Proposed: Catch up - Hemo sculpture

**When:** Tuesday, 10 December 2019 2:00 pm-3:00 pm (UTC+12:00) Auckland, Wellington.

**Where:** Kilwell board room

Hi Vicki,

Any chance we can move it out - have other appointments till then.

Thanks

Craig

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---

**From:** Vicki Cawte  
**Sent:** Friday, 6 December 2019 6:01 PM  
**To:** 'Craig Wilson'  
**Subject:** RE: Hemo meeting

No worries Craig – I'll put it out there and see what suits the majority.

Ngā mihi

---

**Vicki Cawte**  
*Kaitohu Whakapā*  
P: 07 351 8044 | M: 027 937 4606  
E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz  
A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

**ROTORUA**  
LAKES COUNCIL

---

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---

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Friday, 6 December 2019 5:51 pm  
**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Subject:** RE: Hemo meeting

Hi Vicki,

Sorry for the delay – thought I had sent it this morning!

I can do Monday afternoon after 3pm, Tuesday between 10.30 and 1pm, Tues at 4pm (which is now out) or Wed up to 1pm.

Can also do Thurs Afternoon at 3.30pm or most anytime Friday?

Regards  
Craig

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Friday, 6 December 2019 9:34 AM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** Hemo meeting

Kia ora Craig

Stewart and Henry both now have clashes with the meeting on Monday. Can you let me know when would be a good time for you so I can try and reschedule?

Earlier in the week would be best I think but whatever works for you.

Ngā mihi

---

**Vicki Cawte**  
*Kaitohu Whakapā*  
P: 07 351 8044 | M: 027 937 4606

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---

**From:** Vicki Cawte  
**Sent:** Friday, 13 December 2019 1:55 PM  
**To:** 'Craig Wilson'  
**Subject:** RE: Hemo

Great thanks heaps Craig

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

**ROTORUA**  
**LAKES COUNCIL**

---

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---

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Friday, 13 December 2019 12:35 pm  
**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>; 'nick@tepuia.com' <nick@tepuia.com>; 'rebecca@shinecollective.co.nz' <rebecca@shinecollective.co.nz>; 'Stacy Gordine' <stacy@nzmaci.com>  
**Subject:** RE: Hemo

Hi Vicki,

Yes all good – you had the engineer right – Gurit, so have left it as is.

Regards  
Craig

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Friday, 13 December 2019 10:02 AM  
**To:** 'nick@tepuia.com' <nick@tepuia.com>; 'rebecca@shinecollective.co.nz' <rebecca@shinecollective.co.nz>; Craig Wilson <craigw@kilwell.co.nz>; 'Stacy Gordine' <stacy@nzmaci.com>  
**Subject:** Hemo

Kia ora koutou

As discussed I've prepared some information. I've got it in a Google doc which I will send you shortly.

I've checked it with Henry and Stewart and they are happy with the content but I'd appreciate any feedback or changes from the rest of the group.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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### **From Rotorua Lakes Council –**

We are pleased that the project is down to the final piece and we are looking forward to seeing the structure complete in the new year. ~~This is a significant project and considerable work is going into it.~~ Aligning the various factors for installation will be a complex project. Our staff are working with Kilwell and the project partners to ensure everything goes as smoothly as possible.

### **From Kilwell Chief Executive, Craig Wilson -**

While we didn't get the sculpture finished and erected by the end of spring like we wanted, we are down to the final piece which the team are really excited about. The fact that we need to align weather, NZTA traffic management requirements and the availability of the helicopter also gave us a bit more breathing room to get it finished, which was great considering some of the challenges we have faced in the last couple of months.

Blending art, technology and physical manufacturing, and the fact that this is the first time it has been done anywhere in the world, means that we could not have foreseen the challenges we have come up against in this project. I am proud that our team, along with assistance from Gurit engineers, have been able to overcome each challenge in an innovative way. There has been no manual or even a similar project to compare it to – just our team doing what we do best and a bit of Kiwi innovation.

The team will be focussed on getting the last piece finished after the Christmas break and then it will be making sure everything is in order for the delivery to Hemo roundabout.

### **Details of the latest challenge**

Working on a world first, using ground breaking technology means we aren't always going to get it right the first time. We are relying on computer-generated files that guide the 3D print machines. The printed products then require physical manufacturing to hand laminate each section. The alignment of the latest section was incorrect either in the files or in the printing process. This means the team needed to manually realign the section and re-laminate extending the finish date of the project.

### **Has the price increased?**

Rotorua Lakes Council's contribution has not changed from what was advised previously (in March 2019) of \$388,000. You will need to speak to other project partners to see if their contribution has increased.

### **When will it go in?**

We cannot provide a date due to the various factors that need to align for an instalment date. *Explained in earlier responses.*



---

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Monday, 13 January 2020 1:08 PM  
**To:** Vicki Cawte  
**Cc:** Laszlo Kotan  
**Subject:** RE: media request - photo

Thanks Vicki,

All done – he took one looking up inside the inner helix and one from a distance.

Regards  
Craig

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Monday, 13 January 2020 12:25 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Cc:** Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Subject:** RE: media request - photo

Cool thanks Craig – you’ve got a copy of the latest media response ay? I’ve attached the info that we all agreed on before Christmas just for your reference.

I think it’s just a photographer coming out but you can have these notes on hand in case a reporter comes too.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Monday, 13 January 2020 12:20 pm  
**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Cc:** Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Subject:** RE: media request - photo of Hemo sculpture

Sure – tell them to ask for me or Laz

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Monday, 13 January 2020 11:02 AM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** media request - photo of Hemo sculpture

Kia ora Craig

See Sam’s email below – it’s just a follow up on last week’s enquiry. I’m sorting the grants question but they would like to know if they are able to come out today and take a photo of the structure how it is?

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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---

**From:** Sam Olley <[Sam.Olley@nzme.co.nz](mailto:Sam.Olley@nzme.co.nz)>  
**Sent:** Monday, 13 January 2020 10:57 am  
**To:** News Rotorua <[News.Rotorua@rotorualc.nz](mailto:News.Rotorua@rotorualc.nz)>  
**Subject:** Re: Hemo roundabout questions

Kia ora tātou, just wanted to check in about where that grants and sponsorships info was at please and thanks.

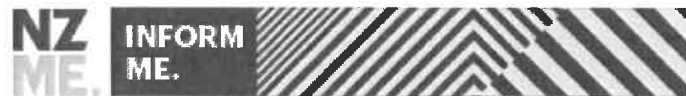
Also, following on from the comment provided from Kilwell, is there a time today Steve could please come to take a photo of the structure in the carpark?

Ngā mihi

**SAMANTHA OLLEY**  
JOURNALIST

M: 027 615 7933

E: [sam.olley@nzme.co.nz](mailto:sam.olley@nzme.co.nz)



**NZME. NEWSROOM**

---

**From:** Sam Olley <[Sam.Olley@nzme.co.nz](mailto:Sam.Olley@nzme.co.nz)>  
**Sent:** 09 January 2020 13:29  
**To:** News Rotorua <[News.Rotorua@rotorualc.nz](mailto:News.Rotorua@rotorualc.nz)>  
**Subject:** Re: Hemo roundabout questions

That's okay, I would appreciate the sponsorships and grants information please and that's okay if it cannot come today.

Ngā mihi

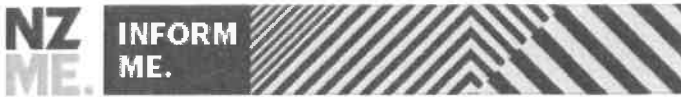
**SAMANTHA OLLEY**



JOURNALIST

M: 027 615 7933

E: [sam.olley@nzme.co.nz](mailto:sam.olley@nzme.co.nz)



**NZME. NEWSROOM**

---

**From:** News Rotorua <[News.Rotorua@rotorualc.nz](mailto:News.Rotorua@rotorualc.nz)>

**Sent:** 09 January 2020 13:28

**To:** Sam Olley <[Sam.Olley@nzme.co.nz](mailto:Sam.Olley@nzme.co.nz)>; News Rotorua <[News.Rotorua@rotorualc.nz](mailto:News.Rotorua@rotorualc.nz)>

**Subject:** RE: Hemo roundabout questions

Kia ora Sam

You will find a list of the project partners in the information that was provided. We can't release that information because, given they are commercial enterprises, it's commercially sensitive information.

In terms of sponsors and what grants we have received we would need to get that information from another staff member. We can organise this but it won't be able to be done today.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Sam Olley <[Sam.Olley@nzme.co.nz](mailto:Sam.Olley@nzme.co.nz)>

**Sent:** Thursday, 9 January 2020 11:51 am

**To:** News Rotorua <[News.Rotorua@rotorualc.nz](mailto:News.Rotorua@rotorualc.nz)>

**Subject:** Re: Hemo roundabout questions

Thanks again, why would we need to contact other funding partners about their contributions for a council led project? Could you please at least list all of the funding partners so they can be contacted?

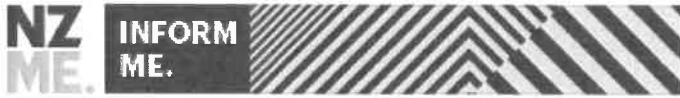
Otherwise this is a huge help thanks.

Ngā mihi

**SAMANTHA OLLEY**  
JOURNALIST

M: 027 615 7933

E: [sam.olley@nzme.co.nz](mailto:sam.olley@nzme.co.nz)



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---

**From:** News Rotorua <[News.Rotorua@rotorualc.nz](mailto:News.Rotorua@rotorualc.nz)>  
**Sent:** 09 January 2020 11:40  
**To:** Sam Olley <[Sam.Olley@nzme.co.nz](mailto:Sam.Olley@nzme.co.nz)>  
**Cc:** News Rotorua <[News.Rotorua@rotorualc.nz](mailto:News.Rotorua@rotorualc.nz)>  
**Subject:** RE: Hemo roundabout questions

Kia ora Sam

Please see information below in response to your questions in red including links to previous information. You will also see comments from RLC and Kilwell below.

**What is the current combined cost of the project for all involved?** Sam there is no change to what has previously been confirmed (most recently in November 2019 – see link below)

**Could you please break this down in terms of who is paying what?** As above, Council contribution remains unchanged. You will need to contact other funding partners regarding their contributions.

**What parts of the budget have brought unexpected costs?** Sam we presume you mean what parts of the project (rather than budget) have brought unexpected costs – see Craig’s comments below and previous updates and information about the challenges that have resulted in additional costs. Daily Post also covered this in a story last March – see [HERE](#)

**When does the council expect to have an installation date?** See Stewart Brown comment below regarding installation

**Is the council confident it will get approval from the NZTA and CAA for the installation?** See below from Stewart Brown

**Does the council have any regrets about the project?** This is not a question for the council organisation.

**[Links to previous information:](#)**

**November 2019 Daily Post enquiry:** This includes confirmation of cost, council budget and factors installation is dependent on. None of this has changed. <https://www.rotorualakescouncil.nz/our-council/media%20inquiries/Questions%20and%20Responses/Pages/5-November-2019.aspx>

**March 2019 update on Council website:** This includes background + lots of information relating to reasons for increased costs/challenges faced by Kilwell in constructing the sculpture. <https://www.rotorualakescouncil.nz/our-council/news/Pages/default.aspx?newsItem=8207>

## **RLC and Killwell comment:**

### **From Rotorua Lakes Council Arts and Culture Manager Stewart Brown -**

The date and arrangements for installation are complex and dependent on several factors coming together. Our staff are working with Kilwell and the project partners to ensure everything goes as smoothly as possible. [Sam see previous information provided about those factors that need to align for installation]

### **From Kilwell Chief Executive, Craig Wilson -**

While we didn't get the sculpture finished and erected by the end of spring like we wanted, we are down to the final section which the team are really excited about.

Blending art, technology and physical manufacturing, and the fact that this is the first time it has been done anywhere in the world, means that we could not have foreseen the challenges we have come up against in this project. I am proud that our team, along with assistance from Gurit engineers, have been able to overcome each challenge in an innovative way. There has been no manual or even a similar project to compare it to – just our team doing what we do best and a bit of Kiwi innovation.

The team is now focussed on getting the last pieces finished and then it will be making sure everything is in order for the delivery to Hemo roundabout.

Working on a world first, using ground-breaking technology means we aren't always going to get it right the first time. We are relying on computer-generated files that guide the 3D print machines. The printed products then require physical manufacturing to hand laminate each section. The alignment of the latest section was incorrect either in the files or in the printing process. This means the team needed to manually realign the section and re-laminate extending the finish date of the project.

Ngā mihi

---

### **Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Sam Olley <[Sam.Olley@nzme.co.nz](mailto:Sam.Olley@nzme.co.nz)>

**Sent:** Tuesday, 7 January 2020 3:18 pm

**To:** News Rotorua <News.Rotorua@rotorualc.nz>  
**Subject:** Hemo roundabout questions

Hi all

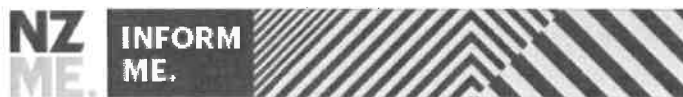
I am hoping to get another update on the Hemo roundabout project done this week. My questions are below. Could you please let me know when it would be realistic to get them answered. I was hoping for Thursday midday but that might be pushing it.

What is the current combined cost of the project for all involved?  
Could you please break this down in terms of who is paying what?  
What parts of the budget have brought unexpected costs?  
When does the council expect to have an installation date?  
Is the council confident it will get approval from the NZTA and CAA for the installation?  
Does the council have any regrets about the project?

Ngā mihi

**SAMANTHA OLLEY**  
JOURNALIST

M: 027 615 7933  
E: [sam.olley@nzme.co.nz](mailto:sam.olley@nzme.co.nz)



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### **From Rotorua Lakes Council –**

We are pleased that the project is down to the final piece and we are looking forward to seeing the structure complete in the new year. Aligning the various factors for installation will be a complex project. Our staff are working with Kilwell and the project partners to ensure everything goes as smoothly as possible.

### **From Kilwell Chief Executive, Craig Wilson -**

While we didn't get the sculpture finished and erected by the end of spring like we wanted, we are down to the final piece which the team are really excited about. The fact that we need to align weather, NZTA traffic management requirements and the availability of the helicopter also gave us a bit more breathing room to get it finished, which was great considering some of the challenges we have faced in the last couple of months.

Blending art, technology and physical manufacturing, and the fact that this is the first time it has been done anywhere in the world, means that we could not have foreseen the challenges we have come up against in this project. I am proud that our team, along with assistance from Gurit engineers, have been able to overcome each challenge in an innovative way. There has been no manual or even a similar project to compare it to – just our team doing what we do best and a bit of Kiwi innovation.

The team will be focussed on getting the last piece finished after the Christmas break and then it will be making sure everything is in order for the delivery to Hemo roundabout.

### **Details of the latest challenge**

Working on a world first, using ground breaking technology means we aren't always going to get it right the first time. We are relying on computer-generated files that guide the 3D print machines. The printed products then require physical manufacturing to hand laminate each section. The alignment of the latest section was incorrect either in the files or in the printing process. This means the team needed to manually realign the section and re-laminate extending the finish date of the project.

### **Has the price increased?**

Rotorua Lakes Council's contribution has not changed from what was advised previously (in March 2019) of \$388,000. You will need to speak to other project partners to see if their contribution has increased.

### **When will it go in?**

We cannot provide a date due to the various factors that need to align for an instalment date. *Explained in earlier responses.*



---

**From:** Marc Spijkerbosch  
**Sent:** Thursday, 23 January 2020 8:16 am  
**To:** Craig Wilson (craigw@kilwell.co.nz)  
**Cc:** Chris Farnsworth (Chris.Farnsworth@nzta.govt.nz); Darryl Robson  
**Subject:** flight plan, tmp etc

Hi Craig

Just touching base to see how things progressed with the flight plan last week.

I think we really need to get that TMP underway, so finger's crossed things are lining up ok at your end?

Cheers

Marc

---

**Marc Spijkerbosch** *Community Arts Advisor*

P: 07 351 8154

E: marc.spijkerbosch@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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LAKES COUNCIL





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**From:** Vicki Cawte  
**Sent:** Thursday, 30 January 2020 3:04 PM  
**To:** 'Craig Wilson'  
**Subject:** RE: Hemo sculpture update - check

Yes please – if you send them using We Transfer that should work. It's a free file sharing website and it's pretty simple to use.

Website is [www.wetransfer.com](http://www.wetransfer.com)

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Sent:** Thursday, 30 January 2020 2:57 pm  
**To:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Subject:** RE: Hemo sculpture update - check

Thanks Vicki,

Looks good to me. Did you want me to load up the photos and video I took to somewhere for you to look at?

---

**From:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Sent:** Thursday, 30 January 2020 1:59 PM  
**To:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Subject:** Hemo sculpture update - check

Kia ora Craig

Have a look at what I've put together and let me know if you're okay with the content. Your quote especially.

Please feel free to change if need be.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Vicki Cawte  
**Sent:** Friday, 31 January 2020 1:13 PM  
**To:** 'Craig Wilson'  
**Subject:** RE: Picture of Hemo sculpture design

That's perfect thanks Craig

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Sent:** Friday, 31 January 2020 1:01 pm  
**To:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Subject:** RE: Picture of Hemo sculpture design

Hi,

We have this one – it is the closest to the real thing but no as pretty as the one with the car and plants in the background.

It has changed a small amount from this – in that it only has mania panels on outer helix and not both.. but is pretty close and gives some scale with the person.

---

**From:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Sent:** Friday, 31 January 2020 12:13 PM  
**To:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Subject:** Picture of Hemo sculpture design

Kia ora

Just working to get the story up on our channels. Do you have a picture of the sculpture as it should be?

Not the old version that the DP uses all the time?

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

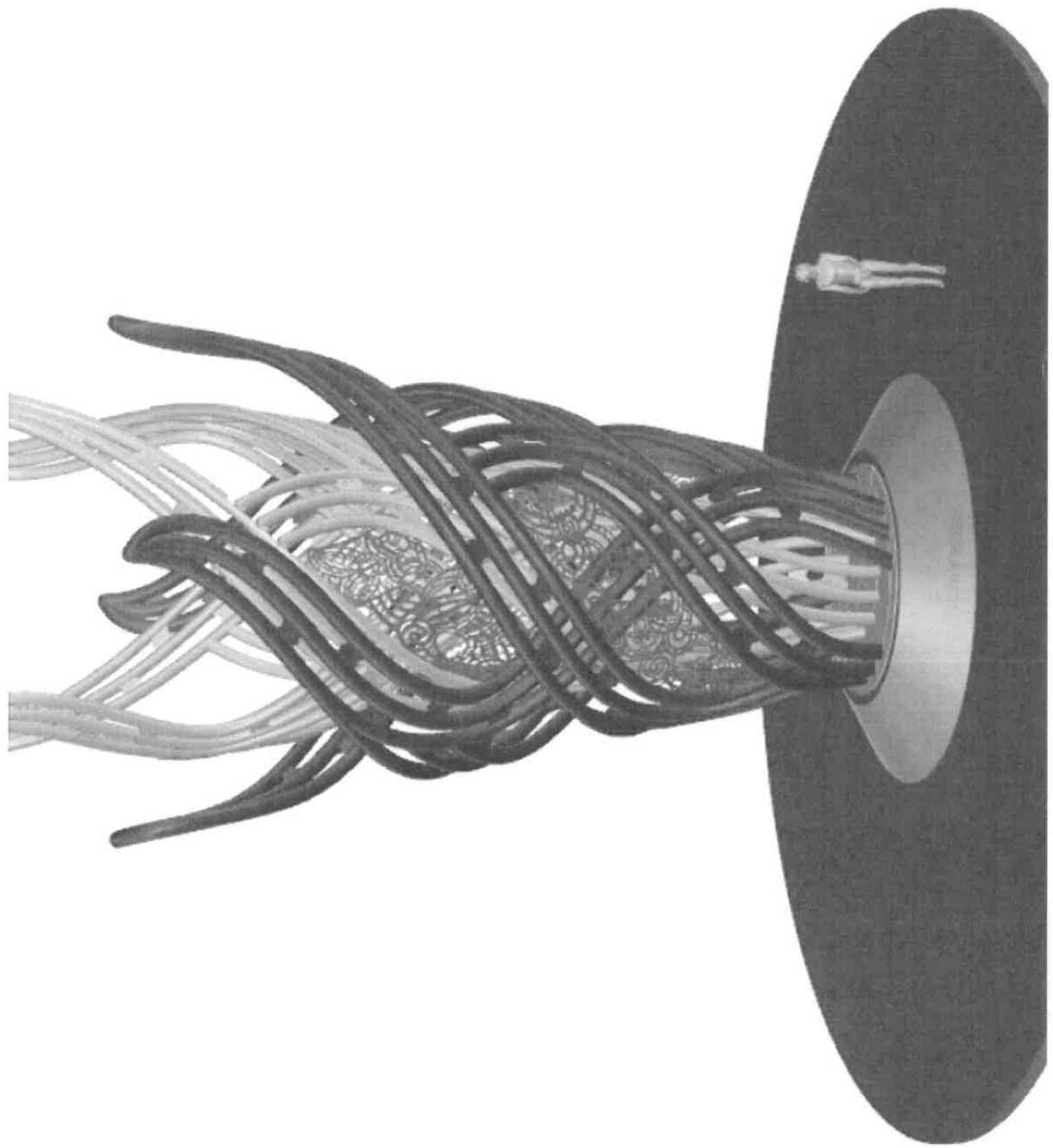
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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Friday, 31 January 2020 4:20 PM  
**To:** Vicki Cawte; Marc Spijkerbosch; Darryl Robson  
**Subject:** RE: Hemo traffic management plan

Hi,

The ball is in my court. We have struggled to get agreement with the pilot on how the lifting platform should be designed but we are very close to having this and the traffic Management Plan finalised and ready to send through. We have a final meeting next Wednesday to confirm.

We will also have a pretty firm final completion date next week when Laz is back from Australia as they guys have been working on the final tube-2-tubes this week which is the last part of the puzzle that we have had to estimate at this stage. But so far they look to be going well.

Regards  
Craig

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Friday, 31 January 2020 1:15 PM  
**To:** Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; Craig Wilson <craigw@kilwell.co.nz>; Darryl Robson <Darryl.Robson@rotorualc.nz>  
**Subject:** Hemo traffic management plan

Kia ora

I'm working to get the news article online but NZTA have asked me to stress that there is still a lot of work to do before it's installed.

Their comms person has asked for an update on where the TMP process is at.

Can anyone help me with that?

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Vicki Cawte  
**Sent:** Tuesday, 4 February 2020 4:17 PM  
**To:** 'Craig Wilson'  
**Subject:** RE: Sculpture facts for an article

Kia ora Craig

No rush on this one. I've decided to pull the Hemo sculpture in Tatau Tatau magazine. I'm going to do some other PR for the sculpture.

So yeah no need to get the stats through ASAP just when you can.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Monday, 3 February 2020 5:03 pm  
**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Subject:** RE: Sculpture facts for an article

Will created the image from our CAD software – he may be able to make a better one but is away this week on annual leave fishing. Can chase him up next week?

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Monday, 3 February 2020 4:43 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** RE: Sculpture facts for an article

Yeah that's all good Craig no worries. That picture of the sculpture you sent me – do you have a high res version of that? Or just what you sent me?

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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---

**From:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Sent:** Monday, 3 February 2020 4:34 pm  
**To:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Subject:** RE: Sculpture facts for an article

Hi,

Had a half day today and have another tomorrow – so will be Wednesday before I can get a chance to get the information together – that ok?

Regards  
Craig

---

**From:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Sent:** Monday, 3 February 2020 9:26 AM  
**To:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Subject:** Sculpture facts for an article

Kia ora Craig

Post about the sculpture went live on Friday. Plenty of commentary as expected but actually quite a few in favour of the sculpture so that's a nice change.

Hoping you have some time in the next couple of days to source some stats for me re the sculpture. I am putting together an article for Tatau Tatau magazine and I want to concentrate on some of the stats.

So if you can work it out I need:

- Amount of material used e.g. *60,000 km of plastic* (whatever numbers you can supply here are fine)
- Weight of the sculpture
- Weight of the base plate
- Height of the sculpture
- Hours of work
- How many staff worked on the job

Those are just some I could think of. If you can't answer any that's fine. And feel free to add in anything you feel is interesting.

I need to have the article ready by the 10<sup>th</sup> of Feb so sometime this week would be awesome 😊

Thanks heaps.

Ngā mihi

---

**Vicki Cawte**  
*Kaitohu Whakapā*  
P: 07 351 8044 | M: 027 937 4606  
E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)  
A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Wednesday, 5 February 2020 1:46 PM  
**To:** Vicki Cawte; 'Nick Dallimore'; 'Corrie Taylor' (Corrie.Taylor@nzta.govt.nz); 'Rebecca Malcolm'; Stewart Brown; Marc Spijkerbosch; Joanna Doherty; Kathy Nicholls  
**Cc:** Laszlo Kotan  
**Subject:** RE: Hemo sculpture video series

Hi Vicki,

Another item – we have had the video being recorded in our fabrication lab for sometime but are now finished that phase of work – so the camera & hard drive storage can be collected and processed. Hopefully this will provide a lot of footage as well as some time lapsed video you can speed up for use.

I can provide myself, Laz for manufacturing and Will for the 3D printing when needed.

Gurit may be tricky – but can liaise with them and when/if James comes down for some MTBing I will let you know.

Regards  
Craig

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Wednesday, 5 February 2020 12:25 PM  
**To:** 'Nick Dallimore' <nick@tepuia.com>; 'Corrie Taylor' (Corrie.Taylor@nzta.govt.nz) <Corrie.Taylor@nzta.govt.nz>; 'Rebecca Malcolm' ..... ; Stewart Brown <Stewart.Brown@rotorualc.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; Craig Wilson <craigw@kilwell.co.nz>; Joanna Doherty  
Kathy Nicholls  
**Subject:** Hemo sculpture video series

Kia ora koutou

Touching base to let you all know about an aspect of this project we have been asked to follow up.

I spoke to some of you quite some time ago about the possibility of a video series to show the journey of Hemo sculpture. My skills and resources back then were rather limited so that part of the project comms stalled. Now we have been asked to pick that back up and produce a series of videos that can be shared in the lead up to installation.

We have a couple of in-house 'experts' that can put together videos. They are not professionals but have done a good job with videos about Council projects lately so I'm sure they will do a great job in this space too. We have zero budget for this so it will be done as part of the comms team's BAU.

What I need from you all is help liaising with talent for each of the videos. We have identified that we would like to cover the following aspects and would require a spokesperson from each partner to help with providing the content. The top three are our priority for getting these videos done:

1. Design and meaning of the sculpture  
Partner – Te Puia/NZMACI  
Talent – Stacey Gordine and....? (Nick can you suggest who could help)  
Location – on site at Te Puia/NZMACI
2. Construction  
Partner – Kilwell  
Talent – Craig Wilson (possibly Will or Lars?)

Location – Kilwell

3. Challenges in construction  
Partner – Kilwell  
Talent – Craig Wilson (possibly someone from Gurit?)  
Location – Kilwell
4. Where the idea came from  
Partner – NZTA  
Talent – Corrie I would need your advice on this one  
Location – Hemo roundabout
5. Installation  
This will come later after the sculpture is in place

If anyone has any questions, concerns or suggestions please give me a call and we can talk about it.

Thanks in advance for your assistance.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Tiriana  
**Sent:** Friday, 14 February 2020 1:28 pm  
**To:** 'Craig Wilson'  
**Cc:** Stewart Brown; Marc Spijkerbosch  
**Subject:** RE: Kilwell Update with RLC Re: Hemo

Hi Craig,

Happy to fit in either way. I've copied in Kim to work it out calendars so she'll be in touch. Also Henry's replacement Jocelyn starts next week so it would be good to get her eyes on the project as it stands at Kilwell so, Kim, can you factor her in also.

Cheers

**Craig Tiriana Kaihautū – Ohu Toihautū** | Manager, Chief Executive's Office  
07 348 4199 | 027 838 9961 | [craig.tiriana@rotorualc.nz](mailto:craig.tiriana@rotorualc.nz) | [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

---

**From:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Sent:** Friday, 14 February 2020 1:16 PM  
**To:** Craig Tiriana <[Craig.Tiriana@rotorualc.nz](mailto:Craig.Tiriana@rotorualc.nz)>  
**Cc:** Stewart Brown <[Stewart.Brown@rotorualc.nz](mailto:Stewart.Brown@rotorualc.nz)>; Marc Spijkerbosch <[Marc.Spijkerbosch@rotorualc.nz](mailto:Marc.Spijkerbosch@rotorualc.nz)>  
**Subject:** Kilwell Update with RLC Re: Hemo

Hi Guys,

Just wondering if I can organise a time to come and update you on where we are at or if you want to come out here for a visit?

We are nearing competition on the Inner Helix and the Outer Helix is outside and all standing up with just the final joining tubes to go.

Marc,  
Can you organise your team who cleaned up the base foundations at the Hemo site to have another look as the last time I biked through someone had ripped off some of the wooden covering and would the worry is that they damage some of the exposed foundation bolts.

Kind regards

Craig Wilson  
Chief Executive  
Kilwell Sports | Kilwell Fibretube

p: +64 (0)7 345 9094, ext 832 | m: +64 (0)21 233 1190  
f: +64 (0)7 345 5149 | e: [craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)  
w: [www.kilwell.co.nz](http://www.kilwell.co.nz) | f: [facebook.com/KilwellSports](https://www.facebook.com/KilwellSports) | i: [instagram/kilwellsports](https://www.instagram.com/kilwellsports)  
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**From:** Marc Spijkerbosch  
**Sent:** Friday, 14 February 2020 2:22 pm  
**To:** 'Craig Wilson'; Craig Tiriana  
**Cc:** Stewart Brown  
**Subject:** RE: Kilwell Update with RLC Re: Hemo

Thanks Craig – sounds good.  
Flexible here to work in with others..  
I'll organise a foundation check asap. Thanks for the heads up, will def keep an eye on this.  
Cheers  
Marc

**Marc Spijkerbosch** Community Arts Advisor  
P: 07 351 8154 | E: [marc.spijkerbosch@rotorualc.nz](mailto:marc.spijkerbosch@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

---

**From:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Sent:** Friday, 14 February 2020 1:16 PM  
**To:** Craig Tiriana <[Craig.Tiriana@rotorualc.nz](mailto:Craig.Tiriana@rotorualc.nz)>  
**Cc:** Stewart Brown <[Stewart.Brown@rotorualc.nz](mailto:Stewart.Brown@rotorualc.nz)>; Marc Spijkerbosch <[Marc.Spijkerbosch@rotorualc.nz](mailto:Marc.Spijkerbosch@rotorualc.nz)>  
**Subject:** Kilwell Update with RLC Re: Hemo

Hi Guys,

Just wondering if I can organise a time to come and update you on where we are at or if you want to come out here for a visit?

We are nearing competition on the Inner Helix and the Outer Helix is outside and all standing up with just the final joining tubes to go.

Marc,  
Can you organise your team who cleaned up the base foundations at the Hemo site to have another look as the last time I biked through someone had ripped off some of the wooden covering and would the worry is that they damage some of the exposed foundation bolts.

Kind regards

Craig Wilson  
Chief Executive  
Kilwell Sports | Kilwell Fibretube

p: +64 (0)7 345 9094, ext 832 | m: +64 (0)21 233 1190  
f: +64 (0)7 345 5149 | e: [craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)  
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**From:** Vicki Cawte  
**Sent:** Friday, 21 February 2020 12:57 PM  
**To:** 'Craig Wilson'  
**Subject:** RE: Update

Kia ora Craig

Thanks for the update and the documentation.

I don't really know what I am looking at in those docs (not really my area of expertise ☺) but nothing jumps out at me.

Let me know when you've got it all sent off to NZTA so I can liaise with their comms person to let them know it's over to their end.

Have a good weekend.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Sent:** Wednesday, 19 February 2020 3:45 pm  
**To:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Subject:** RE: Update

Hi,

Have updated attached – (final lifting design is still not finalised but no need to hold this up any longer). Hazard ID from Beck Helicopters is also attached.

Can you have a read through and let me know if there's anything else we still need to add – if not it can go to NZTA & Higgins for them to start planning and we can then add further information to it as required.

Have also made a start on the invitation list & Kilwell Story with Amanda and will have that back to you mid next week.

Regards  
Craig

---

**From:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Sent:** Wednesday, 19 February 2020 1:45 PM

**To:** Craig Wilson <craigw@kilwell.co.nz>

**Subject:** Update

Kia ora Craig

How are ya getting on? Just had a note from NZTA to get an update on where things are at? Especially with the TMP.

Are you able to flick me through some notes when you get a chance.

Thanks heaps.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

**P:** 07 351 8044 | **M:** 027 937 4606

**E:** vicki.cawte@rotorualc.nz | **W:** rotorualakescouncil.nz

**A:** 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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# Installation Project Plan

## **Objective**

The following Installation plan is created to outline the process of lifting the Hemo Gorge Roundabout Sculpture from the production facility at Kilwell Fibretube, located at 490 Te Ngae Road to the middle of the roundabout on SH30 outside Te Puia for installation.

The following should be read and understood by all team members including the attached Hazard Register.

## **Pilot & Aircraft**

Beck Helicopters was formed in 1972 and is now the longest surviving continuous operator in NZ, and one of the longest in the world. They currently have a permanent staff of 16 with around 5 contract Engineers and pilots that we call on for firefighting overseas.

They have some of the highest qualified personnel of any operator doing this kind of work. They come with their own long serving ground crews, one with 19 years' experience, another with 15 years. Their Chief Engineer has been with them since 1977 and is one of the highest qualified Bell Iroquois Overhaul Engineers anywhere in the world.

The CEO and pilot is Alan Beck, the founding director of Beck Helicopters. Alan actively participates in industry and stakeholder organisations promoting industry driven implementation of "Best Practice" programs and is a former Chairman of the NZAAA. As Chief Pilot of the Company, Alan amassed a total of 21,000 plus hours flying in Bell 47, Bell 206 and Bell 204 Iroquois helicopters on a variety of Agricultural, Aerial Work and Air Transport operations. He is one of New Zealand's most experienced agricultural and specialist lift pilots.


Some notable projects they have been selected for and accomplished without a hitch are:

- Taking the tree off One Tree Hill
- Offshore Concrete pour for new sewerage plant at Mairangi Bay

- Poring 1000 cube of concrete down the Air shaft at Pike River
- Erecting the Bungee at Queenstown “Ledge”
- Cell phone site erections all over NZ
- Gondola at Christchurch Bike track (under main transmission lines)
- All ski tower work for Doppelmyer and Leica on Ruapehu and elsewhere since 1996
- Preferred operator for many power and Lines companies
- Concrete pouring and installation of wind towers
- Erection of Bronze 4-meter disc in Botanical Gardens Wellington. A very tricky install as couldn’t see under the disc so relied on ground crew directions.

**Equipment:**

The Bell Iroquois helicopters are ex-military aircraft and as such are classified “Restricted Category”. This means they are not permitted to carry fare paying passengers but can carry up to 10 passengers if they are deemed necessary to complete a mission. These machines are primarily specialist heavy-lift machines and as such have a hook capacity of 4,000lb (1,800kgs).

	<p>SEATS: 1 Pilot + 10 Passengers  MAX LOAD: 4,000 lbs (1,818 kgs)  DIMENSIONS: Length: 57 ft 0.5 in                    Width: 9 ft 6.5 in                    Height: 13 ft 8 in  ROTOR DIAMETER: 43 ft 3 in  ENGINE: 1 Lycoming T53-13B  HORSEPOWER: Take Off: 1,400 hp  MAX CONTINUOUS: 1,100 hp  PERFORMANCE:  <b>Service Ceiling: 20,000 ft</b>  VNE: 120 kts  CRUISE: 100 kts  FUEL BURN: 400 ltrs / hr  ENDURANCE: 2 hrs plus reserve</p>
---	---

### **Weather Requirements:**

We need it calm or a slight breeze from the west so as to be able to fly in from the east. Preferred time for the lift is early morning to take advantage of low wind and traffic volumes. Wind speed over 20 knots or any wind from the East will mean a No GO.

### **Installation Process**

The following project plan shows the approximate estimated timings and responsibilities of each team in the installation. Teams are as follows:

- AB** Alan Beck (Pilot) & Chopper.  
Role is to lift sculpture and place into Hemo roundabout.
- K1** Kilwell Team No.1 onsite at Kilwell, 490 Te Ngae Road.  
Role is to attach sculpture, lifting harness and flight sail to AB.
- BH1** Beck Helicopters ground Crew team in Te Puia carpark.  
Role is to check load before install, remove flight sail, receive all clear from TM and confirm OK to proceed with install to AB.
- BH2** Beck Helicopters ground Crew team located in Hemo Roundabout.  
Role is to guide on ground installation and give all clear to AB once sculpture is in place and bolted down.
- K2** Kilwell team No.2 in Hemo Roundabout.  
Role is to help with installation and bolting of Hemo Sculpture once installed in roundabout.
- TM** Traffic Management team at Locations TM1 to 5.  
Role is to ensure traffic is halted at TM1-5 locations. Pass on all clear to BH1 to proceed with install and release traffic again on instructions from BH1 that install is complete.

## Flight Timetable:

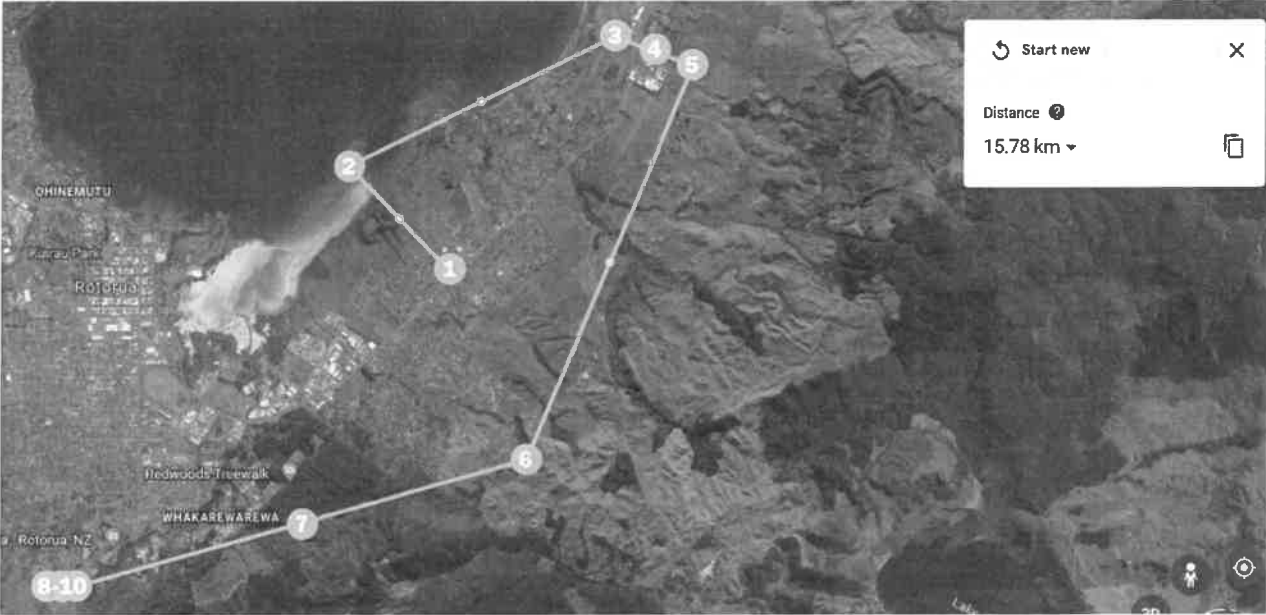
Once clearance is received from Rotorua Airport AB will confirm with the Hemo Roundabout site teams (BH1, BH2, TM and K2) and begin the flight project plan as detailed below.

- Overall Total Project Time is 120 mins
- 75mins flight time
- Traffic closure time is 15 mins for each Helix (30 mins in total)
- Time between Installations is 50 mins

Part	Step	Project Steps (in minutes)	Outer Helix	Flight Time	Traffic Stopped
Outer Helix	1	K1 to connect Outer Helix Sculpture to AB at 490 Te Ngae Road (Location 1). K1 to have already connected lifting harness and flying flags to both structures prior to start.	5		
	2	AB picks up Outer Helix and heads out to Lake Rotorua, up to Airport, across to Whakarewarea forest to Hemo Gorge entrance (from location 2 to 7).	15	15	
	3	AB enters Hemo gorge and stops at Te Puia Carpark (Location 8)	5	5	
	4	BH1 removes flag, final check on lifting harness. BH1 confirms OK to TM to proceed with install and stop traffic.	5		
	5	TM to stop traffic & relay all clear to AB when OK to proceed with install.	5		5
	6	AB to take off from Te Puia carpark and drop OH into position with help of BH2 & K2.	5	5	5
	7	BH1 with help from K2 secure sculpture with minimum of 16 bolts. BH1 & K2 to proceed with detaching & removing lifting platform from Outer Helix.	5	5	5
	8	AB & BH1 to confirm to TM roundabout is clear and restart Traffic.	0		
	9	AB moves back to Te Puia carpark (Location 8) and refuels.	10		
Inner Helix	10	AB to head back to Kilwell at Te Ngae road (Location 1) via route 11 to pick up Inner Helix.	5	5	
	11	K1 to connect Inner Helix Sculpture to AB at Kilwell (Location 1).	10	10	
	12	AB picks up Inner Helix and heads out to Lake Rotorua, up to Airport, across to Whakarewarea forest to Hemo Gorge entrance (from location 2 to 7).	15	15	
	13	AB enters Hemo gorge and stops at Te Puia Carpark (Location 8)	5	5	
	14	BH1 removes flag, final check on lifting harness. BH1 confirms OK to TM to proceed with install and stop traffic.	5		
	15	TM to stop traffic & relay all clear to AB when OK to proceed with install.	5		5
	16	AB to take off from Te Puia carpark and drop Inner Helix into position with help of BH2 & K2.	5	5	5
	17	BH1 with help from K2 secure sculpture with minimum of 16 bolts. BH1 & K2 to proceed with detaching & removing lifting platform from Inner Helix.	5	5	5
	18	AB & BH1 to confirm to TM roundabout is clear and restart Traffic.	0		
	19	AB to move back to Te Puia carpark (Location 8) to refuel and park.	10		
<b>Total Time</b>			<b>120</b>	<b>75</b>	<b>30</b>
Time Between Road Closures			50		

**Flight Path**

Flight path will be the same both ways.



**Hemo Roundabout**

Drop zone and Traffic Management locations.



## **Communication Plan**

Comms required for teams at Hemo (9 sets for : AB, BH1, BH2, TM1-TM5, and K2).

Comms between BH1 & KS1 – mobile phone will suffice to confirm arrival/departure times.

Pedestrian Plan & Viewing staged area (TM5).

## **Go/No-Go Call on Start Date**

- 2 weeks:
  - AB to review weather and confirm date.
  - TM to issue publication to proceed once weather confirmed.
- Night before:
  - AB to give final confirmation depending on revised weather.

## **Contact Details**

AB Helicopters	Alan Beck	027 4425939
Fire Brigade	111	
Higgins	Simon Kirner	021 2756790
Kilwell	Craig Wilson	021 2331190
	Laszlo Kotan	021 1831203
NZTA	Chris Farnsworth	021 612136
RLC Council	Stewart Brown	021 588080
Te Puia	Nick Dallimore	027 2011536
50/50 Contractors	TBC	





### Hazard ID Worksheet

<i>Description of Work – Lifting Statue with Helicopter, Rotorua.</i>	Contract Number:	
Working / Lifting with Helicopter/ Managing Traffic/ Flying in Control Zone		
<b>HAZARDS OF THE WORK TO BE UNDERTAKEN</b>		
<b>STEPS</b> (Key Tasks) (Break the job down into its basic steps)	<b>HAZARDS</b> (Associated with each key task)	<b>HAZARD CONTROL</b> (How do you plan to eliminate or minimise)
Overview of job requirement	Working with helicopters, underslung load  Control tower approval required. Notify Police/Emergency services. Notify Council.  Helicopter hovering over road	Staff training, all PPE available, Radio comms with pilot and staff. Hand signals as backup.  Other aircraft in circuit. Police to be made aware of lift. Beck to notify council.  NZTA to close road when helicopter is placing load.
	Requirements to complete job  Permits, authorisations  NZTA Road closure	

	Predetermination of weight	Weight needs to be within limit	Weight load prior to lift
Lift trial	Lift trial	Load could be too heavy or lift ring unsuitable	If possible, trial lift the statue to check weight and test lifting ring.
Timing for job	Timing for job	Could end up with period of unsettled weather.	Trial pickup by helicopter night before.
Timing for traffic	Timing for traffic	Too much traffic buildup, or cars trying to go through whilst the lift is being performed.	Pick early morning as best, but decision will rely on fog/wind etc.
Neighbour considerations at lifting point	Neighbour considerations at lifting point	Noise and strong rotor wash/leaves and dust blowing about.	Final decision to be made nearer to time so that NZTA can organise traffic.
Wind considerations at site	Wind considerations at site	Wind from the wrong direction means an approach from wrong way.	Kilwell to notify all neighbours of intended lift and to mitigate.
Flight path and characteristics	Flight path and characteristics	Could drop load or cause hazards to people /stock/property.	Ideally a STH /SW/NW wind so that the approach is over the carpark.  Plan route clear of houses, out over lake front to crossroad in vicinity of Airport, free of traffic.
Emergency set down procedure	Emergency set down procedure	Load spins or oscillates out of control, problems with helicopter	Plan run to coincide when clear.  Flight to site over clear areas.

	Stropping of load	Wrong sized /combinations of strops/shackles	Have a flight path planned clear of obstacles or built up area.  Strop up loads using BHL certified strops and shackles to lifting eyes on statue.  Keep speed to safe limit to stop spinning, and to ensure statue stays intact. Pilot to utilise known standard practise for this type of sophisticated lift.
Hooking up - Our crew	Speed restrictions	Too fast a speed destroys statue or creates massive oscillation.	Staff Training, gloves available. All staff to wear appropriate PPE. Use of correct shackles. Crew to have RT comms.
	Shackles- we supply	Working with lifting gear, fingers/toes/eyes/ wrong lifting gear.	
Ropes or strops	Ropes- Beck certified	Use of unapproved/uncertified ropes or shackles	Only Beck approved strops and shackles from lifting ring to helicopter.  Take 2 complete sets of strops/ropes /shackles to be able to leave ropes on statue till able to be retrieved.
Initial Helicopter Lift	Helicopter- Bell 204	Noise/Sound/ Hearing difficulties	Earmuffs/Hand signals
		Dust	Staff Training, let dust dissipate.
		General Helicopter Dangers	Staff Training in working around helicopters.

			Escort other personnel to/away from helicopter. Keep all onlookers clear, and notify neighbours again
	Lifting Ropes, Shackles		Staff training - don't fly over personnel if possible.  Don't walk under slung load, except when positioning on footing.
		Working under Helicopter	Staff Training, emergency procedures.
		Emergency landing when hooking up	BHL crew to follow Emergency Procedure in SOP.
Pilot Considerations	Wires, Trees, Other Obstacles	Unintentional Contact	Pilot training, briefings, etc Use of radios to keep in contact Radio contact with Tower before lift-off
"Toolbox Meeting" –all personnel	Helicopter and equipment,	As above	Sign Acceptance form B5 DFR Put flight path for day on back  Mark out path on topo map.  All contractor's staff ' on sites to assist the lift will be given safety briefing by Chief Pilot, - with understanding they are under the direction of the Crew Chief once helicopter is airborne.

Site Inspection and Haz ID	Flight path and Job site	Pick wrong path/Time	Pilot to undertake with supervisor. Phone call to Tower prior to start up
Pre acceptance lift by helicopter crew.	All Equipment	Statue doesn't lift flat, or oscillates wildly due to rotor wash. Lifting ring bends Tail rudder is too flexible	Other crew and staff stand clear. Lift statue to check for stability and strength of lifting spreader and rudder the night before if possible.
Use of Radio from Pilot to Crews	Radios/Headsets	To make sure that RT comms are working and that everyone is in the loop. Watch for safety lapses, and staff becoming "blasé"	Crew Chiefs to respond from both ends.
Crew Chief to advise and inform.	RT comms and hand signals	No Plan B or C	Pilot to acknowledge crew chiefs. Check horn on helicopter. Check crew at both ends are using hand signals as well.
Safety of crew	All staff	Staff standing in the wrong place or under the load. Hooked up wrongly. Not wearing hi vis or PPE	Check that all crew move out to the LHS of the Heli before lift and that when placing statue. All non BHL staff are well out of the way on LHS of helicopter. Only Crew chief and assistant to move in once statue is in position.

				<p>Once placed then other contractors to be beckoned in.</p> <p>Help is needed to rotate and place statue over bolts.</p>
Unhooking of load	Long line		<p>Using too heavy a shackle which can damage statue.</p>	<p>When unhooking shackle from master hook, move backwards to clear statue before releasing.</p> <p>Have cherry picker on site if necessary to assist with this.</p>
Refuelling	Trailer Tanker at carpark		<p>Not enough fuel to do job or too much or too little fuel to complete lift.</p>	<p>Assess distance/time to compute fuel to minimum 20 min reserve.</p> <p>Refuel at carpark</p>
Return to pickup point	Aircraft		<p>Flying over houses, stock or 3<sup>rd</sup> party obstacles.</p> <p>ATC clearance not given</p>	<p>Plan path IAW safe operating procedures</p> <p>Call Control tower before leaving</p> <p>Re fuelling area to confirm if any delays.</p> <p>Stay in contact with ATC. If delayed, orbit or land at airport till clearance given</p>

---

**From:** Vicki Cawte  
**Sent:** Thursday, 27 February 2020 4:56 PM  
**To:** 'Craig Wilson'  
**Subject:** RE: Sculpture update

Cool Craig. Sounds great. I'll pass the info onto the right people.

And yes! See you up the hill next week. Hopefully I can stop and chat. It's been pretty busy so far.

Have a good night

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

**ROTORUA**  
**LAKES COUNCIL**

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**From:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Sent:** Thursday, 27 February 2020 4:55 pm  
**To:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Subject:** RE: Sculpture update

Hi Vicki,

Our staff/supplier invite list attached – will have a draft storyboard ready a bit later – have the history part, but working on the production story is a bit trickier.

Will send off transport plan to NZTA tomorrow, we are now looking at 1<sup>st</sup> two weeks in April as an install date after talking with helicopter pilot this week to confirm availability.

Sure I will be seeing you are Crankworx next week.

Cheers  
Craig

---

**From:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Sent:** Thursday, 13 February 2020 3:40 PM  
**To:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Subject:** Sculpture update

Kia ora Craig

Hope you are well.

Just checking in to see how things are getting along?

Also we need to have a catch up about developing some content for the storyboards and/or the web page.

Have you had a think about who you would like to be invited to the unveiling event when it happens. We thought it would be good to start getting all this stuff together while we are waiting to confirm a date.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

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**From:** Vicki Cawte  
**Sent:** Wednesday, 22 April 2020 9:21 AM  
**To:** 'Craig Wilson'  
**Subject:** RE: Check in - Hemo sculpture

Yeah I can imagine it probably hasn't slowed down at all for you. I thought it was going to be a very quiet time for us and we were going to be able to do those little jobs that always get pushed to the bottom of the list but no. It's been just as busy as ever.

Cool thanks for that update – I will let NZTA know and our Arts and Culture team know here too. The A&C team may be able to lend a hand if you need any help with the story process.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

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**From:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Sent:** Wednesday, 22 April 2020 9:15 am  
**To:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Subject:** RE: Check in - Hemo sculpture

Hi Vicki,

Sorry its been more hectic than normal although this week was starting to clear up but now all the getting ready for next week has started.

Think we were 2-3 weeks from finishing manufacture – so lets say a month once we are back which means early June. I can get the guys to review and confirm back next week as this all depends on staffing which we are in the process of confirming. Our priority is getting the factory and warehouse up and running. Unfortunately this is putting us into winter (which slows out curing time and adds issues to chopper install) but what can we do.

Will see if I can get to writing up some process story.

Regards  
Craig

---

**From:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Sent:** Wednesday, 22 April 2020 9:00 AM  
**To:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Subject:** Check in - Hemo sculpture

Kia ora Craig

Hope you're going well. Cool to see the story about Kilwell being involved in the PPE manufacturing. Has it been a big operations for you guys? How are things going otherwise?

Anyway just thought I'd check in, NZTA are using this time to do some forward planning and want to know if there is an update re Hemo. No problem if there isn't. I'm sure everyone has had other things on their minds but just thought I'd check in so I can report back to the team either way.

Give me a call if you want – I'm working from home so around all day 😊

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

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**From:** Marc Spijkerbosch  
**Sent:** Thursday, 30 April 2020 10:27 am  
**To:** Craig Wilson (craigw@kilwell.co.nz)  
**Subject:** Sculpture information panels

Hi Craig

Hope things are ticking over again nicely in level 3.

Just a little thing – wanted to let you know that our comms team has started work on the sculpture information panels. Obviously installation won't happen for a little while now, but if there's a chance there to put together some manufacturing info/pics, our team could start to develop something meantime.

Te Puia sent through some info a while back so that's well underway.

I'm sure you all have enough on your plate there at the moment, so I'm just putting this back on the table hoping to be considered at some point.

Many thanks, trust all's well

Marc

---

**Marc Spijkerbosch** *Community Arts Advisor*

P: 07 351 8154

E: marc.spijkerbosch@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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---

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Wednesday, 3 June 2020 8:35 AM  
**To:** Vicki Cawte; Stewart Brown  
**Subject:** RE: Media enquiry - Hemo  
**Attachments:** Draft media response - Hemo - 2 June 2020 v2.docx

Hi Vicki,

Have only changed the reply on the progress as we are all done bar some final sanding and then a paint on both Helix's.

Regards  
Craig

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Tuesday, 2 June 2020 6:04 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>; Stewart Brown <Stewart.Brown@rotorualc.nz>  
**Subject:** Media enquiry - Hemo

Kia ora Craig

Here is the media enquiry we discussed today with the response that will come from Jocelyn.

Stewart I'm not sure if you were looped in on this today so I'm cc'ing you in so you are across what will be going to the media.

I'll send it through tomorrow morning so let me know if you see anything that isn't quite right and I can fix it first thing.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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Just checking in with the current status of the Hemo roundabout sculpture. I understand prior to lockdown, it was expected to be installed by this month, however I assume lockdown has forced another delay?

Could you please let me know whether an installation date has been set? From previous stories, I am aware of what needs to fall in place in order to install the sculpture, so if a date has not been set, how much notice does the council expect it will be able to give once a date has been set?

- A date for installation has not been set. Given the complex nature and the variables that need to align, Council cannot give an indication of how much notice can be given prior to installation.

Has the outer helix of the sculpture been completed?

- Yes. ~~Minor work on small pieces that connect each part of the helix is underway.~~ Both helix's have now been completed with final tubes laminated in place and just some final sanding work being done. Kilwell is now just awaiting a fine day for these tubes and joints to be painted.

Has the delay caused by the lockdown increased the cost of the project? If so, by how much and what is the current total cost (the last story we did had it at \$743,029)

In a November story it said: The council confirmed the budget for making and installing the sculpture was unchanged and there would be no change to the \$388,000 contribution the council had made. If this is the case, who is picking up the additional costs?

- There have been no further decisions about costs over and above the \$388,000 contribution that Council committed to in March 2019. Elected members would need to consider and make the final decisions about any variation to Council's contribution.

How much will it cost to have a helicopter install the sculpture and was this cost built into the original budget or will it add to the end cost?

- As an installation date has not been set there is no final cost however, there was allowance within original budget for transportation.

Could I please have a response to these questions by 10am tomorrow.





---

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Wednesday, 3 June 2020 2:28 PM  
**To:** Vicki Cawte; Jocelyn Mikaere; Stewart Brown  
**Subject:** RE: Media response - Hemo sculpture

Hi All,

Just to let you know – someone from The Mud (themud.co.nz) requested to be able to come out and take an aerial photo of the sculpture with their drone. We have let them do that and ensured there had been no communication with staff.

I expect they are the same ones that have made the information request?

Regards  
Craig

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Wednesday, 3 June 2020 10:46 AM  
**To:** Jocelyn Mikaere <Jocelyn.Mikaere@rotorualc.nz>; Stewart Brown <Stewart.Brown@rotorualc.nz>; Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** Media response - Hemo sculpture

Kia ora

Just so everyone is in the loop – the response below was sent just now to Rotorua Daily Post.

Thanks everyone for your help with this.

Have a nice day.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** News Rotorua  
**Sent:** Wednesday, 3 June 2020 10:45 am  
**To:** 'Stephanie Worsop' <Stephanie.Worsop@nzme.co.nz>  
**Cc:** News Rotorua <News.Rotorua@rotorualc.nz>  
**Subject:** RE: Hemo sculpture

Kia ora Stephanie

Please see answers below to your questions. You can attribute the answers to Jocelyn Mikaere (Manahautū Mahi | Group Manager, Operations):

Could you please let me know whether an installation date has been set? From previous stories, I am aware of what needs to fall in place in order to install the sculpture, so if a date has not been set, how much notice does the council expect it will be able to give once a date has been set?

- A date for installation has not been set. Given its complex nature and the variables that need to align, Council cannot give an indication of how much notice can be given prior to installation.

Has the outer helix of the sculpture been completed?

- Yes. Both helix's have now been completed with final tubes laminated in place and just some final sanding work being done. Kilwell is now just awaiting fine weather for these tubes and joints to be painted.

Has the delay caused by the lockdown increased the cost of the project? If so, by how much and what is the current total cost (the last story we did had it at \$743,029)

- There have been no further decisions about costs over and above the \$388,000 contribution that Council committed to in March 2019. Elected members would need to consider and make final decisions about any variation to Council's contribution.

In a November story it said: The council confirmed the budget for making and installing the sculpture was unchanged and there would be no change to the \$388,000 contribution the council had made.

If this is the case, who is picking up the additional costs?

- See previous answer

How much will it cost to have a helicopter install the sculpture and was this cost built into the original budget or will it add to the end cost?

- As an installation date has not been set there is no final cost however, there was allowance within original budget for transportation.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

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A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Stephanie Worsop <[Stephanie.Worsop@nzme.co.nz](mailto:Stephanie.Worsop@nzme.co.nz)>

**Sent:** Tuesday, 2 June 2020 12:44 pm

**To:** News Rotorua <[News.Rotorua@rotorualc.nz](mailto:News.Rotorua@rotorualc.nz)>

**Subject:** Hemo sculpture

Hi team,

Just checking in with the current status of the Hemo roundabout sculpture. I understand prior to lockdown, it was expected to be installed by this month, however I assume lockdown has forced another delay?

Could you please let me know whether an installation date has been set? From previous stories, I am aware of what needs to fall in place in order to install the sculpture, so if a date has not been set, how much notice does the council expect it will be able to give once a date has been set?

Has the outer helix of the sculpture been completed?

Has the delay caused by the lockdown increased the cost of the project? If so, by how much and what is the current total cost (the last story we did had it at \$743,029)

In a November story it said: The council confirmed the budget for making and installing the sculpture was unchanged and there would be no change to the \$388,000 contribution the council had made.

If this is the case, who is picking up the additional costs?

How much will it cost to have a helicopter install the sculpture and was this cost built into the original budget or will it add to the end cost?

Could I please have a response to these questions by 10am tomorrow.

Cheers,

**STEPHANIE ARTHUR-WORSOP**

REGIONAL NEWS DIRECTOR - BAY OF PLENTY

D: 07 349 7478 M: 027 801 9533

E: [stephanie.worsop@nzme.co.nz](mailto:stephanie.worsop@nzme.co.nz)



ROTORUA **Daily Post** Bay of Plenty Times

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Thursday, 9 July 2020 3:59 PM  
**To:** Stewart Brown  
**Cc:** Vicki Cawte  
**Subject:** RE: hemo

Hi Stewart,

We have been getting through the curing but not as fast as we had planned due to the poor weather. Unfortunately the weather for next week is not great but are hoping to have that finished and painted by end of next week.

Will let you know when its all finally finished.

Regards  
Craig

---

**From:** Stewart Brown <Stewart.Brown@rotorualc.nz>  
**Sent:** Thursday, 9 July 2020 8:37 AM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Cc:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Subject:** hemo

Hi Craig, just touching base to see if you have managed to finish the last parts of the sculpture including the painting? I was hoping to pop out next week a get a few photos for a media release?

Cheers

Stewart

---

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**Stewart Brown - Kaihautū Mahi Toi - Manager Arts & Culture |**

***Ohu Mahi Toi* - Arts & Culture**

**Waea:** 07 3517828 | **Waea Pūkoro:** 021588080

**Īmera:** [stewart.brown@rotorualc.nz](mailto:stewart.brown@rotorualc.nz) | **Ipurangi:** [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

**Taunga:** 1106 Arawa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Vicki Cawte  
**Sent:** Wednesday, 15 July 2020 12:52 PM  
**To:** craigw@kilwell.co.nz; Stewart Brown; 'Corrie Balvert'  
**Subject:** FW: RDP Media Request

Kia ora koutou

Just an FYI to keep everyone in the loop – we received this media enquiry this afternoon. They have asked for comment from the Mayor – we have let the reporter know that there is no response from the Mayor.

Also they asked for an update on the project from last month's update – I have advised that there is no further update at this stage.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Caroline Fleming <caroline.fleming@nzme.co.nz>  
**Sent:** Wednesday, 15 July 2020 11:48 am  
**To:** Ingrid Tiriana <Ingrid.Tiriana@rotorualc.nz>  
**Cc:** News Rotorua <News.Rotorua@rotorualc.nz>  
**Subject:** RDP Media Request

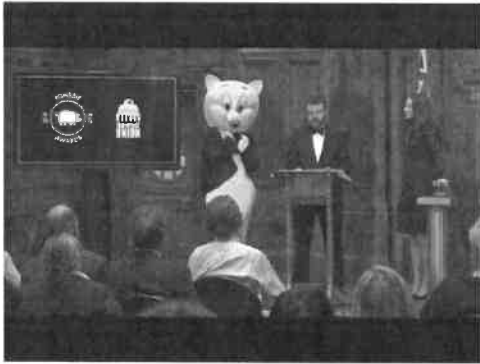
Good morning,

I am working a story today about the Jonesie Awards that are taking place in Wellington today.

It is run by the New Zealand Taxpayers' Union at Parliament and is said to honour "the civil servants, government agencies and politicians who signify government waste, over-spending, excessive regulation, lack of accountability, or any combination of the four. A Jonesie may be awarded on the basis of past accomplishments or on a promised initiative."

The awards are traditionally done as a bit of a take-the-mickey.

The Rotorua Lakes Council was nominated in the Local Government Category for waste due to its spending on the Hemo Sculpture. Here is a link to the awards: <https://www.youtube.com/watch?v=TVbux2Jye-Y>



## LIVE from Parliament: 2020 Jonesie Awards for Government Waste

The Jonsies are hosted by the New Zealand Taxpayers' Union at Parliament. The awards celebrate the best of the worst of government waste at the central and l...

[www.youtube.com](http://www.youtube.com)

Can I please get a response from Mayor Steve Chadwick on this one?

My deadline is 3pm.

Thanks!

**CAROLINE FLEMING**

REPORTER

M: 0272769586

E: [caroline.fleming@nzme.co.nz](mailto:caroline.fleming@nzme.co.nz)



ROTORUA **Daily Post**

**Bay of Plenty Times**

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**From:** Vicki Cawte  
**Sent:** Monday, 3 August 2020 2:37 PM  
**To:** 'Craig Wilson'  
**Subject:** RE: Catch up soon

No worries at all. Just trying to get ahead of the game here.

Oh that all sounds pretty cool. I might try pop out and get some pics if that's okay. Does 3.30pm on Wednesday work for you for a catch up?

Ngā mihi

---

**Vicki Cawte**  
*Kaitohu Whakapā*  
P: 07 351 8044 | M: 027 937 4606  
E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz  
A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Monday, 3 August 2020 2:02 pm  
**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Subject:** RE: Catch up soon

Hi Vicki,

Sorry was away the end of last week as we are on 4 days/week.

Have time this week or next if you want to catchup. We have a crane coming this Friday to do a final weight test on the sculpture and just doing the last of the painting today and tomorrow so will be all done by end of week.

Can do Tues & Wed afternoon this week of Mon-Wed afternoon next week?

Regards  
Craig

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Friday, 31 July 2020 3:33 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** Catch up soon

Kia ora Craig

Hope you are well. It's almost the weekend which I am quite happy about – although I am working early tomorrow morning.

With things moving quite quickly now I'd like to come and have a catch up about some comms items we need to get sorted. Does that sound okay?

Let me know a time next week that is suitable to you and I'll pop out and see you.

Have a nice weekend.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

**P:** 07 351 8044 | **M:** 027 937 4606

**E:** vicki.cawte@rotorualc.nz | **W:** rotorualakescouncil.nz

**A:** 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Sent:** Friday, 31 July 2020 5:43 pm  
**To:** Craig Wilson; Stewart Brown; fred.shilton@wsp.co; Marc Spijkerbosch  
**Subject:** Re: Hemo Traffic Plan & Beck Hazard Sheet

Hi guys

All of those days work for Alan and us.

Get [Outlook for Android](#)

---

**From:** Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>  
**Sent:** Friday, July 31, 2020 1:38:28 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>; Stewart Brown <Stewart.Brown@rotorualc.nz>; fred.shilton@wsp.co <fred.shilton@wsp.co>  
**Cc:** Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Subject:** RE: Hemo Traffic Plan & Beck Hazard Sheet

Hi all  
Just chatting with Craig re: potential flight dates.  
Laszlo – we’re currently looking at install on the 30<sup>th</sup> August .. are you able to confirm with Alan Beck we have back-up dates on the following weekends, 6<sup>th</sup> and 13<sup>th</sup> September?

Thanks  
Marc

**Marc Spijkerbosch** Community Arts Advisor  
P: 07 351 8154 | E: marc.spijkerbosch@rotorualc.nz | W: rotorualakescouncil.nz

---

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Thursday, 9 July 2020 4:03 PM  
**To:** Stewart Brown <Stewart.Brown@rotorualc.nz>; fred.shilton@wsp.co  
**Cc:** Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Subject:** RE: Hemo Traffic Plan & Beck Hazard Sheet

Hi Guys,

Just wondering if any progress on which weekends etc – we need to order the straps to ensure we have everything ready from our end and also confirm dates with Alan Beck as soon as we know. At this stage he is pencilled in for 23<sup>rd</sup> and 30<sup>th</sup> of August – but if this changes we need to let him know asap.

Kind regards

Craig Wilson  
Chief Executive  
Kilwell Sports | Kilwell Fibretube

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**From:** Stewart Brown <[Stewart.Brown@rotorualc.nz](mailto:Stewart.Brown@rotorualc.nz)>  
**Sent:** Tuesday, 30 June 2020 7:50 AM  
**To:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Subject:** FW: Hemo Traffic Plan & Beck Hazard Sheet

Hi Craig  
FYI apologies missed copying you in

**Stewart Brown** Kaihautū Mahi Toi Arts & Culture Manager, OHU: MAHI TOI - Arts & Culture  
Rotorua Lakes Council P: [07 351 7828](tel:073517828) | E: [stewart.brown@rotorualc.nz](mailto:stewart.brown@rotorualc.nz) | W: [www.rotorualakescouncil.nz](http://www.rotorualakescouncil.nz)

---

**From:** Stewart Brown  
**Sent:** Monday, 29 June 2020 2:51 PM  
**To:** Shilton, Fred <[fred.shilton@wsp.com](mailto:fred.shilton@wsp.com)>  
**Cc:** Marc Spijkerbosch <[Marc.Spijkerbosch@rotorualc.nz](mailto:Marc.Spijkerbosch@rotorualc.nz)>  
**Subject:** FW: Hemo Traffic Plan & Beck Hazard Sheet

Hi Fred  
As discussed  
See attached from Kilwell regarding the Hemo sculpture, I think we need to book a number of weekends in case of inclement weather. If you could liaise with Kilwell directly and copy me in that would be great

Thanks

**Stewart Brown** Kaihautū Mahi Toi Arts & Culture Manager, OHU: MAHI TOI - Arts & Culture  
Rotorua Lakes Council P: [07 351 7828](tel:073517828) | E: [stewart.brown@rotorualc.nz](mailto:stewart.brown@rotorualc.nz) | W: [www.rotorualakescouncil.nz](http://www.rotorualakescouncil.nz)

---

**From:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Sent:** Monday, 29 June 2020 1:23 PM  
**To:** Stewart Brown <[Stewart.Brown@rotorualc.nz](mailto:Stewart.Brown@rotorualc.nz)>  
**Cc:** Laszlo Kotan <[Laszlok@fibretube.co.nz](mailto:Laszlok@fibretube.co.nz)>  
**Subject:** Hemo Traffic Plan & Beck Hazard Sheet

Hi Stewart,

Sorry for the delay I had meant to send this late last week but ran out of time. This is what we had drafted up before lockdown with regards plan & timings for installation. It should give a good start for the Traffic Management plan. I have also included Alan Becks Hazard ID from a flight perspective. At this stage we are looking at the weekend of 29/30 August.

We are also in the process of reapplying for our Local Government Contractor Health & Safety Pre-qualification Scheme – I did apply sometime ago but it has lapsed now and Marc told us early on that we would need to have it if we wanted to work onsite.

Let me know if any questions.

Kind regards

Craig Wilson  
Chief Executive  
Kilwell Sports | Kilwell Fibretube

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f: +64 (0)7 345 5149 | e: [craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)  
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**From:** Marc Spijkerbosch  
**Sent:** Monday, 10 August 2020 11:48 am  
**To:** 'Laszlo Kotan'  
**Cc:** Stewart Brown; Craig Wilson  
**Subject:** RE: high-strength grout for sculpture install

Thanks Laz, this is good news.

If we left enough clearance between foundation and base-plate I'm sure we can find someone to pipe the grout in easy enough.

When you can, let me know how much room we'll have and I'll investigate a solution from this end.

Cheers

Marc

**Marc Spijkerbosch** Community Arts Advisor  
P: 07 351 8154 | E: marc.spijkerbosch@rotorualc.nz | W: rotorualakescouncil.nz

---

**From:** Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Sent:** Friday, 7 August 2020 3:23 PM  
**To:** Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>  
**Cc:** Stewart Brown <Stewart.Brown@rotorualc.nz>; Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** RE: high-strength grout for sculpture install

Hi Marc,

After having a few discussions with the OPUS guys, we came up with a solution so you can have your guys to apply the grout after the installation, whenever it suits you. That takes the pressure off us during installation.

Kind regards,  
Laz

---

**From:** Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>  
**Sent:** Tuesday, 4 August 2020 8:28 AM  
**To:** Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Cc:** Stewart Brown <Stewart.Brown@rotorualc.nz>; Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** high-strength grout for sculpture install

Hi Laz  
Just following up on this part of the install ... will the Kilwell roundabout team be applying the grout just before bolting down?

Or should I arrange an independent contractor to do this work alongside them...

Look forward your thoughts.

Cheers

Marc

---

**Marc Spijkerbosch** Community Arts Advisor  
P: 07 351 8154







---

**From:** Vicki Cawte  
**Sent:** Tuesday, 11 August 2020 6:06 PM  
**To:** 'Craig Wilson'  
**Subject:** RE: Follow up

Hey Craig

Thanks for this, I'll check with my team mates and see which day suites. I'll let you know tomorrow.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Tuesday, 11 August 2020 1:35 pm  
**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Subject:** RE: Follow up

Hi Vick,

How about next Mon to Tues after lunch for both items if that works for you?

Regards  
Craig

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Tuesday, 11 August 2020 11:23 AM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** RE: Follow up

Hey Craig

Thanks for getting back to me – and yeah I heard about the lift situation. Not ideal!

Next week is good timing so thanks for looking at that for me. I will book in some dates – which days are better for you?

Also I have someone lined up to come and take the time-lapse camera out. Is there a time that is suitable to you?

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Monday, 10 August 2020 5:55 pm  
**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Subject:** RE: Follow up

Thanks Vicki,

Just an update from Friday – the sculpture weighed in much heavier than expected(almost double what was expected so having some questions with the engineers....) so it looks like the chopper install is off the cards – so back to crane & truck (as Option A) with the Blackhawk (Option B – due to cost).

Should be good next week to begin progress with the other story work you need.

Regards  
Craig

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Wednesday, 5 August 2020 4:28 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** Follow up

Hiya

Thanks for taking the time to meet with me. And I'm really sorry to hear about everything going on. I appreciate the timing of all this isn't great so hopefully I can help make it easier on you.

As I said my job leading up to the install will be trying to mitigate public info and keep everyone connected with what's going on.

Following the event it will be sharing the story of the project.

**So what I will work on with you is:**

- Filming for the video – let's get this booked in so the girls can start working on producing the video
- Content for the sign and website
- Getting the time lapse camera removed
- Getting the files of all the photos and video you have taken along the way

Please let me know if there is anything else you have in your mind that you would like me to incorporate in the comms.

I'm hoping we can get everyone in a room sooner rather than later so everyone is on the same page about what is happening.

Have a nice night.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Friday, 14 August 2020 1:09 pm  
**To:** Marc Spijkerbosch; Will Bamford  
**Subject:** Re: Zoom meeting 2.30pm Monday

Yeah that should work

Get [Outlook for Android](#)

---

**From:** Will Bamford <Will.Bamford@rotorualc.nz>  
**Sent:** Friday, August 14, 2020 12:38:57 PM  
**To:** Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** RE: Zoom meeting 2.30pm Monday

Thanks guys

I'll anticipate a zoom link.

Cheers

Will

**Will Bamford** Kaea Hinonga – Senior Project Manager | *Ohu Haumarū* - Project Management & Risk Office  
07 351 8217 | 027 205 1794 | [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

---

**From:** Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>  
**Sent:** Friday, 14 August 2020 12:34 pm  
**To:** Craig Wilson (craigw@kilwell.co.nz) <craigw@kilwell.co.nz>  
**Cc:** Will Bamford <Will.Bamford@rotorualc.nz>  
**Subject:** Zoom meeting 2.30pm Monday

Hi Craig

This is to introduce Will Bamford (cc'd) – he's senior project manager with Council and has a heap of Helicopter experience.

We're hoping a Zoom meeting will work for you Monday 2.30pm? Or can do a bit later if need be.

No need to bring Mark on board just at this point.

Talk soon

Cheers

Marc

---

**Marc Spijkerbosch** Community Arts Advisor  
P: 07 351 8154  
E: [marc.spijkerbosch@rotorualc.nz](mailto:marc.spijkerbosch@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)  
A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Marc Spijkerbosch  
**Sent:** Monday, 17 August 2020 12:31 pm  
**To:** Craig Wilson (craigw@kilwell.co.nz)  
**Subject:** Blackhawk ground crew

Hi Craig, this below from Will Bamford (RLC) to provide some context prior to our Zoom at 2.30pm  
Cheers

One thing I didn't discuss was helicopter ground crews/payload masters. It's very important to have some experienced with working under helicopters to receive the helix's and place them. The down draft of a Blackhawk is hectic and it's high pressure. I'm not sure what Kilwell had planned for ground crew? Generally, Kahu would provide the following:

- 1 x load master to hook load on at Kilwell;
- 1 x ground crew at receiving end on radio to direct heli in. They would be standing away from the statue and not receiving the goods. They would also have a fuel tank and do the refuelling.

That means Kilwell/RLC would need to provide a ground crew. An experienced ground crew is what will make this operation safe and successful. It requires a lot of planning for 5 minutes of action, and experience assists greatly with this. I would like to suggest RLC selecting/providing a ground crew to receive/place the helixes, and then for Kilwell to bolt them down?

I have worked with Chad Hooton (Taupo based Impel (2010) Ltd) on many helicopter operations. He has experience working with Law brothers (pilots) under the Blackhawk. He has 1 – 3 other crew he would bring with him who all have experience receiving loads under big birds – they have all received chairlift towers and bolted them in place so are highly experienced for this exact work. If we went with this option, we would look at Chad and I managing the fly plan with Kahu/Mark Law, in conjunction with Kilwell. They will be able to form a safe plan to ensure success of this inserting the sculpture at site. It would cost a few grand but be money well spent. I have spoken with Chad and Mark Blair (Ruapehu based – managed helicopter operations on 5 x chairlift builds) and they are both available in September.

---

**Marc Spijkerbosch** *Community Arts Advisor*  
P: 07 351 8154  
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A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Vicki Cawte  
**Sent:** Monday, 17 August 2020 2:23 PM  
**To:** Craig Wilson  
**Subject:** Re: Visit for video shoot this afternoon

No problem. We will head out and maybe the girls can capture some b-roll if you're still tied up

Sent from my iPhone

On 17/08/2020, at 2:12 PM, Craig Wilson <craigw@kilwell.co.nz> wrote:

Hi Vicki,

Should be OK for this afternoon, we do have a 2.30pm conference call with Will & Marc but hopefully this should not be longer than 30mins.

Unfortunately Dennis who is the production manager on the job is away sick today – he is also the only one who had the working with heights, so maybe another day if you can or maybe a further catchup later on when he is back?

Regards  
Craig

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Monday, 17 August 2020 9:04 AM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** Visit for video shoot this afternoon

Kia ora Craig

Hope you had a nice weekend.

I hear things are looking a little more positive and that you're happy to have Will on board? He is really great so I'm confident he will bring good things to the project.

Anyway just touching base to confirm we are still okay for filming this afternoon? My colleagues Charlotte and Simone will be coming along to do all the technical stuff. They have questions prepared but I think it's just best to have a yarn and capture the footage and they can pull out all the good stuff and turn it into a great little story for us to share after installation. Here is an example of the style they are trying to achieve -

<https://www.facebook.com/RotoruaTrailsTrust/videos/613889792536584/>

Let me know if there is any issue with our visit this afternoon otherwise we will see you there about 3pm this arvo.

Ngā mihi

---

**Vicki Cawte**  
*Kaitohu Whakapā*  
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<b>Meeting attended by:</b>	Marc Spijkerbosch, Will Bamford, Hayley Farmer, Nickie Hunter (minutes) - RLC Craig Wilson, Laszlo Kotan - Kilwell
<b>INTRODUCTION:</b>	
Will Bamford	<ul style="list-style-type: none"> <li>• Project Manager for RLC for two years; PMO team has been requested overview of the Hemo Sculpture installation.</li> <li>• Have previously worked for DOC &amp; was involved in 25 heli operations in that position</li> </ul>

<b>THE DISCUSSION:</b>	
<ul style="list-style-type: none"> <li>• Kilwell confirm they have had no experience dealing with chopper installations etc prior             <ul style="list-style-type: none"> <li>○ Kilwell have advised that Black Hawk are supplying their crew; they do have experience on putting towers on to platforms</li> <li>○ Lump sum fixed price from Black Hawk for the job                 <ul style="list-style-type: none"> <li>→ Kilwell to ensure that the crew is all part of their agreed price and ground crew are experienced</li> <li>→ RLC are providing the TMP for the installation &amp; to screw the bolts in when in place</li> <li>→ RLC needs to ensure all H&amp;S plans etc are covered however also conscious that we don't want to step on toes – wanting to confirm Kilwell are receptive to RLC PMO team's assistance in the installation process                     <ul style="list-style-type: none"> <li>○ Generally accepted by Kilwell</li> </ul> </li> </ul> </li> </ul> </li> <li>• Need to consider all the moving parts of getting to the round-about – likely 5-6 hours disruption.             <ul style="list-style-type: none"> <li>○ The weather is a risk – need to ensure we have enough fly days – with spring bring a lot of wind patterns which will challenge to fly with                 <ul style="list-style-type: none"> <li>▪ Flight plan will be based on the initial version by John Beck; Black Hawk will advise GO / NO GO on the evening prior -</li> <li>▪ There is difficulty in flying on the two Sundays; if the weather is bad is there a contingency to pull back and use truck / trailer / crane as an option?</li> </ul> </li> <li>○ To look for other dates in October that will fit with NZTA &amp; Black Hawk's availability                 <ul style="list-style-type: none"> <li>→ The chopper is the best option – however only 50% chance of being able to install in one weekend – at best 80% over two weekends. Would be best to get more contingency days if able.</li> <li>→ Kilwell state that the truck / crane option is not palatable due to cost, with the chopper being cheaper than the crane</li> </ul> </li> </ul> </li> <li>• The Project needs one person in charge of all the information             <ul style="list-style-type: none"> <li>○ One person from RLC as there are a number of areas which will need to be tightened up; will work through the best way to work through it. One path forward</li> <li>○ One person directing all the bits and pieces – effectively a sub-project to the whole sculpture project.                 <ul style="list-style-type: none"> <li>▪ Possibility of having two A&amp;C operations team members who have TMP certification may be available to assist</li> </ul> </li> <li>○ Decisions will need to be made as days are ticking by; will need decision by COB tomorrow (Tuesday, 18 August)</li> </ul> </li> </ul>	

## **NEXT STEPS:**

- Will to collate information – there are a lot of different factors – event management, traffic management & helicopters; needs clear lines of communication.
- Kilwell to agree and confirm contract price with for Black Hawk and ascertain if there are some other dates available for lifts availability
- Will to speak with Mark from Kahu once Kilwell have finalized details above
- Marc to ascertain additional dates that will be agreeable by NZTA and if some Saturdays may be an option also, and clarify if the school holidays are a no-go time also
- Marc to advise Craig if extra dates are successful to co-ordinate with Black Hawk
- Marc to check in with Rachel regarding VR's availability as well
- Craig to check to see what if it is a no-fly day and receive confirmation in writing that there are no applicable charges; also to offer some ground crew doing bolts in place etc
- Kilwell to check with Kahu if additional ground crew is required and confirm with Will
- Kilwell to confirm they are receptive to RLC PMO team's assistance in the installation process
- Marc to check comms regarding road closure

---

**From:** Will Bamford  
**Sent:** Tuesday, 18 August 2020 7:08 pm  
**To:** Craig Wilson; Marc Spijkerbosch  
**Cc:** Laszlo Kotan  
**Subject:** RE: Statue's for Hemo

Thanks Craig

Will be good to hear Mark's response.

Sorry about any confusion - I haven't worked with Kahu helicopters directly but Chad has.

Cheers

Will

Sent from my Samsung Galaxy smartphone.

----- Original message -----

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Date:** 18/08/20 11:20 AM (GMT+12:00)  
**To:** Will Bamford <Will.Bamford@rotorualc.nz>, Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>  
**Cc:** Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Subject:** FW: Statue's for Hemo

fyi

---

**From:** Craig Wilson  
**Sent:** Monday, 17 August 2020 5:39 PM  
**To:** Mark Law  
**Cc:** Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Subject:** RE: Statue's for Hemo

Hi Mark,

The council has offered to get Chad "Hotten" from Taupo to help with groundcrew. They also have an experienced project management staff member who has worked previously with you or your team via Doc out of Taupo, Will Bamford?

Hopefully this will help a lot with your workload and make things run smoother as well as hopefully saving you some time and us some cost?

If you are ok with this then I will get Will to contact you directly to discuss options and deployment of staff, H&S Plan and other items given that the 1<sup>st</sup> weekend is now less than 2 weeks away.

Also given the tight timeframes can you confirm you availability for weekends below in case the weather or NZTA is against us – also can you operate Saturday as well as Sunday?

Thanks  
Craig

Date	Day	Availability
29-Aug-20	Saturday	??
30-Aug-20	Sunday	Yes – Prov
5-Sep-20	Saturday	Yes
6-Sep-20	Sunday	Yes
12-Sep-20	Saturday	Yes
13-Sep-20	Sunday	Yes
19-Sep-20	Saturday	??
20-Sep-20	Sunday	??
26-Sep-20	Saturday	??
27-Sep-20	Sunday	??
3-Oct-20	Saturday	??
4-Oct-20	Sunday	??
10-Oct-20	Saturday	??
11-Oct-20	Sunday	??
17-Oct-20	Saturday	??
18-Oct-20	Sunday	??

---

**From:** Mark Law  
**Sent:** Thursday, 13 August 2020 3:40 PM  
**To:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Subject:** Re: Statue's for Hemo

Hi Craig,

If we can wrangle some help with costs of mobilisation then we could offer the 1.4 hours (75 minutes) for the job. How would that be? I was committed to the weekend of 29th, 30th August but Covid might take care of that and I would be available. The weekends after are OK also.

Kind regards,

---

**From:** Craig Wilson <>  
**Sent:** Thursday, 13 August 2020 9:08 AM  
**To:** Mark Law  
**Subject:** RE: Statue's for Hemo

Hi Mark,

Can you also confirm the date – is Late August or 1<sup>st</sup> couple of weekends in Sept still available to do the job?

Regards  
Craig

---

**From:** Mark Law  
**Sent:** Wednesday, 12 August 2020 8:16 PM  
**To:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Subject:** Statue's for Hemo



Hi Craig,

Nice to meet again. Sorry I am late getting you this price.

Mobilisation one way and an onsite lifting plan of the same time frame you calculated for the Huey.

WK - Rotorua Airport = 0.4 hours

(2) X Statue Install at Hemo Roundabout = 75 minutes or 1.4 hours, total time more like 2.0 hours with ground run and staging etc but I can offer you 1.4 hours.

Rate \$9000 per hour + GST

Total 1.8 hours @ \$9000 = 16,200 + GST

Kind regards,

**Mark Law**  
CEO, Chief Pilot  
0800 804 354 / 027 435 0664  
[www.kahu.nz](http://www.kahu.nz)





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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Wednesday, 19 August 2020 9:07 am  
**To:** Marc Spijkerbosch  
**Subject:** RE: Installation Project Plan Ver 1.5 @ 18-Aug-20.docx

Yep no word from Mark yet – will call him today if no word

**From:** Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>  
**Sent:** Wednesday, 19 August 2020 8:50 AM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** RE: Installation Project Plan Ver 1.5 @ 18-Aug-20.docx

Thanks Craig, looks good  
Will send this around the team for review and add contacts etc  
We'll also need to lock in the potential fly dates as soon as we can – to confirm bookings, TMP, comms etc  
Talk soon  
Cheers  
Marc

**Marc Spijkerbosch** Community Arts Advisor  
P: 07 351 8154 | E: marc.spijkerbosch@rotorualc.nz | W: rotorualakescouncil.nz

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Tuesday, 18 August 2020 2:22 PM  
**To:** Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>  
**Subject:** Installation Project Plan Ver 1.5 @ 18-Aug-20.docx

Hi Marc,

Have managed to update most of the installation plan as attached.

Do you want to have a quick read through and let me know if you want to add anything before I send to Mark Law.

I am missing some information on contact with WSP/NZTA for traffic management, Security and other bits at your end.

Regards  
Craig



---

**From:** Vicki Cawte  
**Sent:** Thursday, 20 August 2020 11:26 AM  
**To:** 'Craig Wilson'  
**Subject:** RE: Timelapse camera and sculpture images and footage

Great thanks – I'll ask the team which day suits best and book a time in with you.

Thanks for the pictures – they look very cool!

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

**ROTORUA**  
LAKES COUNCIL

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**Caution:** The content of this email is confidential and may be legally privileged. If it is not intended for you, please email the sender immediately and destroy the original message. You may not copy, disclose or use the contents in any way. Thank You.

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**From:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Sent:** Thursday, 20 August 2020 10:02 am  
**To:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Subject:** RE: Timelapse camera and sculpture images and footage

Hi,

Mon & Wed after lunch are best for next week for pickup on Camera & HD of video/images.

For the Auckland/Queenstown sculptures – we only have what we have pinched off the web as we did not install it and they were a long time ago.

Regards  
Craig

---

**From:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Sent:** Thursday, 20 August 2020 9:30 AM  
**To:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Subject:** Timelapse camera and sculpture images and footage

Hiya

We have someone from our IT team organised to come out and look at the timelapse camera next week. What day suits you for us to come out?

Also we are purchasing a hard drive so I can collect footage/images to give to the girls to include in their video. I can come out at the same time and grab everything you have on file if that's convenient for your team?

Lastly, do you have any images or footage of the sculptures you've done in Auckland and Queenstown?

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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---

**From:** Marc Spijkerbosch  
**Sent:** Thursday, 20 August 2020 11:40 am  
**To:** 'Craig Wilson'  
**Subject:** RE: Installation Project Plan Ver 1.5 @ 18-Aug-20.docx  
**Attachments:** Installation Project Plan Ver 1.5 @ 18-Aug-20.docx

Hi Craig

Looks good – have attached updated with contacts for TMNZ and security.  
Will has suggested:

1. We need a checkpoint in plan and someone responsible to look over all the lifting gear (hooks, strips, eyelets etc.) to ensure they are in good condition, certified (and certification is current), meets the payload requirements, etc. Suggest this is me

Assuming Kahu ground crew will also look over the lifting gear at Kilwell before take off.

Could also possibly add that VR security firm VR will monitor and secure 200m exclusion zone.

See what else Mark needs and we'll sort. There is likely to be more info added once Will gets back on deck next week so we can send on to Fred to update the TMP.

Cheers

Marc

**Marc Spijkerbosch** Community Arts Advisor  
P: 07 351 8154 | E: marc.spijkerbosch@rotorualc.nz | W: rotorualakescouncil.nz

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Tuesday, 18 August 2020 2:22 PM  
**To:** Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>  
**Subject:** Installation Project Plan Ver 1.5 @ 18-Aug-20.docx

Hi Marc,

Have managed to update most of the installation plan as attached.

Do you want to have a quick read through and let me know if you want to add anything before I send to Mark Law.

I am missing some information on contact with WSP/NZTA for traffic management, Security and other bits at your end.

Regards  
Craig





# Hemo Sculpture Installation Project Plan

## Objective:

The following Installation plan is created to outline the process of lifting the Hemo Gorge Roundabout Sculpture from the production facility at Kilwell Fibretube, located at 490 Te Ngae Road to the middle of the roundabout on SH30 outside Te Puia for installation.

The following should be read and understood by all team members including the attached Hazard Register.

## Pilot & Aircraft – [www.kahu.co.nz](http://www.kahu.co.nz)

Mark and Anna Law lead a team of professional staff who manage and administer the entire operations of our commercial aerial work. Our pilots are friendly, safe and professional and most have worked their way up through the company from learning to fly, to commercial pilots and managers. Our staff are local and have intimate knowledge of the area, the people and our activities offered.

Mark Law is the CEO and CFI here at Kahu NZ, he began his career by recovering feral deer from the NZ Wilderness for export in 1998. This was followed by extensive aerial work throughout the world, including the USA, Mexico, Australia and Africa. Mark now has 8000+ flight hours in experience, inclusive of 4000+ Instruction flying.

The 'Blackhawk' or Sikorsky UH60 is designed for heavy lifting, within New Zealand and the South Pacific. The aircraft is configured for commercial operations.

	<p><b>SEATS:</b> 1 Pilot + 1 Crew <b>MAX LOAD:</b> 3,600 Kgs <b>SPEED :</b> 120 Knots with load <b>SOUND:</b> T88 dba @ 500' <b>DIMENSIONS:</b> Length: 64 ft 10 in Width: 9 ft 6.5 in Height: 16 ft 10 in <b>ROTOR DIAMETER:</b> 53 ft 8 in <b>PERFORMANCE:</b> Service Ceiling: 19,150 ft <b>VNE:</b> 193 kts <b>CRUISE:</b> 140 kts <b>ENDURANCE:</b> 2.1 hrs</p>
---	--

## Installation Teams:

The following project plan shows the approximate estimated timings and responsibilities of each team in the installation. Teams are as follows:

- ML** Mark Law (Pilot) & Chopper.  
Role is to lift sculpture and place into Hemo roundabout.
- K1** Kilwell Team No.1 onsite at Kilwell, 490 Te Ngae Road.  
Role is to attach sculpture, lifting harness and flight sail to AB.
- KH1** Kahu Helicopters ground Crew team in Te Puia carpark.  
Role is to check load before install, remove flight sail, receive all clear from TM and confirm OK to proceed with install to ML.
- KH2** Kahu Helicopters ground Crew team located in Hemo Roundabout.  
Role is to guide on ground installation and give all clear to ML once sculpture is in place and bolted down.
- K2** Kilwell team No.2 in Hemo Roundabout.  
Role is to help with installation and bolting of Hemo Sculpture once installed in roundabout.
- TM** Traffic Management team at Locations TM1 to 8.
  - TM1-4** – Hemo Roundabout Role is to halt traffic at locations TM1-4 and pass on all clear to ML and KH1 to proceed with install and then to release traffic again on instructions from KH1 that install is complete.
  - TM5** - Pedestrian Viewing area on Golf Course.
  - TM5** – To halt and restart traffic at 3 road locations where ML crosses on route between Kilwell & Hemo.
    - TM6** – Vaughan Road @ Location 2
    - TM7** – Te Ngae Road @ Location 5
    - TM8** – Tarawera Road @ Location 6

## Flight Timetable:

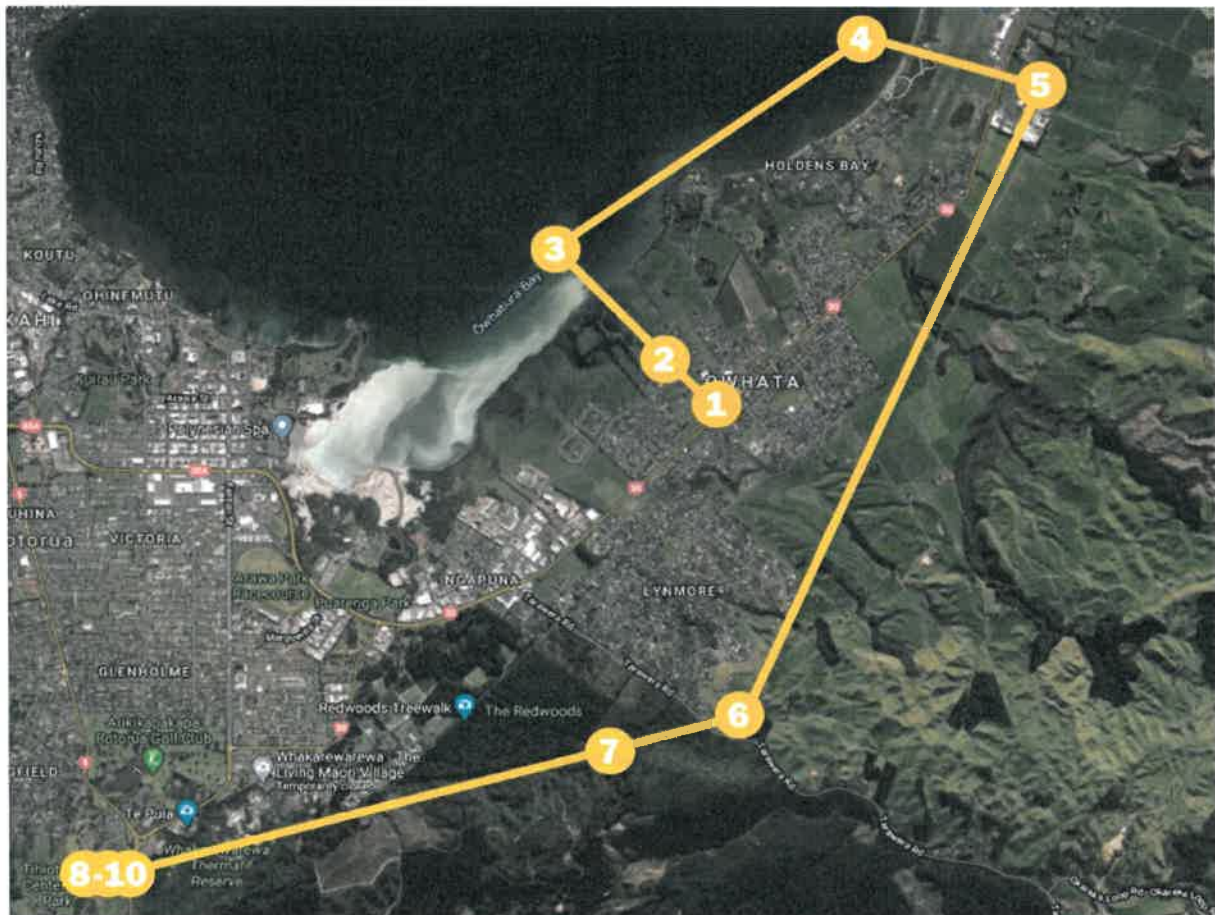
Once clearance is received from Rotorua Airport **ML** will confirm with the Hemo Roundabout site teams (**KH1, KH2, TM** and **K2**) and begin the flight project plan as detailed below.

## Timing Summary:

- Overall Total Project Time is 120 mins
- 75mins flight time
- Traffic closure time is 15 mins for each Helix (30 mins in total)
- Time between Installations is 50 mins

Part	Step	Project Steps (in minutes)	Total Time	Flight Time	Traffic Stopped
Outer Helix	1	<b>K1</b> to connect Outer Helix Sculpture to <b>ML</b> at 490 Te Ngae Road (Location 1). <b>K1</b> to have already connected lifting harness and flying flags to both structures prior to start.	5		
	2	<b>ML</b> picks up Outer Helix and heads out to Lake Rotorua (Location 3). Crossing Vaughan Road at Location 2. Then up the lake to Airport at location 4. Then across Te Ngae Road at Location 5 and around to Whakarewarea forest. Crossing Tarawera Road (Location 6) and Across Redwoods (at location 7) to Hemo Gorge entrance. <b>TM</b> with lollipop to stop/start traffic at Locations 2, 5 & 6 to allow <b>ML</b> to cross roads.	15	15	
	3	<b>ML</b> enters Hemo gorge and stops at Te Puia Carpark (Location 8)	5	5	
	4	<b>KH1</b> removes flag, final check on lifting harness. <b>KH1</b> confirms OK to <b>TM</b> to proceed with install and stop traffic.	5		
	5	<b>TM</b> to stop traffic & relay all clear to <b>ML</b> when OK to proceed with install.	5		5
	6	<b>ML</b> to take off from Te Puia carpark and drop OH into position with help of <b>KH2</b> & <b>K2</b> .	5	5	5
	7	<b>KH1</b> with help from <b>K2</b> secure sculpture with minimum of 16 bolts. <b>KH1</b> & <b>K2</b> to proceed with detaching & removing lifting platform from Outer Helix.	5	5	5
	8	<b>ML</b> & <b>KH1</b> to confirm to <b>TM</b> roundabout is clear and restart Traffic.	0		
	9	<b>ML</b> moves back to Te Puia carpark (Location 8) and refuels.	10		
Inner Helix	10	<b>ML</b> then heads back to Kilwell at Te Ngae road (Location 1) via same Route to pick up Inner Helix. <b>TM</b> with lollipop to stop/start traffic again at Locations 2, 5 & 6 to allow <b>ML</b> to cross roads.	5	5	
	11	<b>K1</b> to connect Inner Helix Sculpture to <b>ML</b> at Kilwell (Location 1).	10	10	
	12	<b>ML</b> picks up Outer Helix and heads out to Lake Rotorua (Location 3). Crossing Vaughan Road at Location 2. Then up the lake to Airport at location 4. Then across Te Ngae Road at Location 5 and around to Whakarewarea forest. Crossing Tarawera Road (Location 6) and Across Redwoods (at location 7) to Hemo Gorge entrance. <b>TM</b> with lollipop to stop/start traffic at Locations 2, 5 & 6 to allow <b>ML</b> to cross roads.	15	15	
	13	<b>ML</b> enters Hemo gorge and stops at Te Puia Carpark (Location 8)	5	5	
	14	<b>KH1</b> removes flag, final check on lifting harness. <b>KH1</b> confirms OK to <b>TM</b> to proceed with install and stop traffic.	5		
	15	<b>TM</b> to stop traffic & relay all clear to <b>ML</b> when OK to proceed with install.	5		5
	16	<b>ML</b> to take off from Te Puia carpark and drop Inner Helix into position with help of <b>KH2</b> & <b>K2</b> .	5	5	5
	17	<b>KH1</b> with help from <b>K2</b> secure sculpture with minimum of 16 bolts. <b>KH1</b> & <b>K2</b> to proceed with detaching & removing lifting platform from Inner Helix.	5	5	5
	18	<b>ML</b> & <b>KH1</b> to confirm to <b>TM</b> roundabout is clear and restart Traffic.	0		
	19	<b>ML</b> to move back to Te Puia carpark (Location 8) to refuel and park.	10		
<b>Total Time</b>			<b>120</b>	<b>75</b>	<b>30</b>
Time Between Road Closures			50		

## Flight Path:



Flight path will be the same both ways.

- |             |  |
|-------------|--|
| Location 1  | Kilwell Head office at 490 Te Ngae Road  |
| Location 2  | Road Crossing on Vaughan Road  |
| Location 3  | Turning point in Lake Rotorua  |
| Location 4  | Rotorua Airport  |
| Location 5  | Road Crossing on Te Ngae Road by Airport   |
| Location 6  | Road Crossing on Tarawera Road   |
| Location 7  | Redwoods forestry crossing   |
| Location 8  | Te Puia Carpark – temporary drop site for flag removal before final install lift |
| Location 9  | Hemo Roundabout – plinth or Installation   |
| Location 10 | Te Puia Carpark – refuelling option  |

## Hemo Roundabout

Drop zone and Traffic Management locations:



Traffic is to be halted at locations **TM1**, **TM2**, **TM3** and **TM4** when **ML** is in position and ready for install at Location 8. Once each helix is bolted into place and **ML** is back to Location 8 traffic can be released again.

All pedestrian traffic is to be halted and held at **TM5**.

### Communication Plan:

Comms required for teams at Hemo & Traffic Stops (12 sets : **ML**, **KH1**, **KH2**, **TM1-TM8**, and **K2**).

Comms between **KH1** & **KS1** – mobile phone will suffice to enable confirmation of arrival/departure times.

### Go/No-Go Call on Start Date:

We need it calm or a slight breeze from the west so as to be able to fly in from the east. Preferred time for the lift is early morning to take advantage of low wind and traffic volumes. Wind speed over 20 knots or any wind from the East will mean a No GO.

1 week Out: **ML** to review weather and confirm date & **TM** to issue publication to proceed once weather confirmed.

Night before: **ML** to give final confirmation depending on revised weather.

## **Contact Details**

KAHU Helicopters	Mark Law
Fire Brigade	111
Higgins	Simon Kirner
Kilwell	Craig Wilson
	Laszlo Kotan
NZTA	Chris Farnsworth
RLC Council	Will Bamford
	Stewart Brown
	Marc Spijkerbosch
Te Puia	Nick Dallimore
WSP - TMP	Fred Shilton
TMNZ	Steve Orr
VR Security	Janine Anderson/Tony

---

**From:** Will Bamford  
**Sent:** Monday, 24 August 2020 12:48 pm  
**To:** 'Craig Wilson'; Marc Spijkerbosch; Haley Farmer; Laszlo Kotan  
**Subject:** RE: Hemo sculpture catchup

Sounds ideal

Thanks

Will

Will Bamford Kaea Hinonga – Senior Project Manager | Ohu Haumarū - Project Management & Risk Office  
07 351 8217 | 027 205 1794 | will.bamford@rotorualc.nz | rotorualakescouncil.nz

-----Original Message-----

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Monday, 24 August 2020 12:18 pm  
**To:** Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; Will Bamford <Will.Bamford@rotorualc.nz>; Haley Farmer  
Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Subject:** RE: Hemo sculpture catchup

Mark Law is available at 4.30pm for a Zoom call so I suggest we all have a quick view of the hemo when you can get out here and then move to the boardroom to talk with him then.

-----Original Message-----

**From:** Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>  
**Sent:** Monday, 24 August 2020 8:08 AM  
**To:** Craig Wilson <craigw@kilwell.co.nz>; Will Bamford <Will.Bamford@rotorualc.nz>; Haley Farmer  
Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Subject:** RE: Hemo sculpture catchup

Thanks Craig

Will see you all sometime after 4.15 today Cheers

-----Original Message-----

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Sunday, 23 August 2020 7:47 PM  
**To:** Will Bamford <Will.Bamford@rotorualc.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; Haley Farmer  
Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Subject:** RE: Hemo sculpture catchup

Yes later time is fine with us

-----Original Message-----

**From:** Will Bamford <Will.Bamford@rotorualc.nz>  
**Sent:** Sunday, 23 August 2020 4:03 PM  
**To:** Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; Craig Wilson <craigw@kilwell.co.nz>; Haley Farmer  
**Subject:** RE: Hemo sculpture catchup

Hi all

How are you?

This sounds good. Is there any chance we can make it 415 or 430 at kilwell please? Probably a bit optimistic for me to make it to kilwell by 4pm sorry (I think my other meeting is scheduled to finish 415 now but I can likely pop out early). I would say we could do it at RLC but I'm keen to look at the sculpture! But RLC is fine if that suits better.

Have a good night!

Will

Sent from my Samsung Galaxy smartphone.

----- Original message -----

From: Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>

Date: 21/08/20 11:38 AM (GMT+12:00)

To: Will Bamford <Will.Bamford@rotorualc.nz>, "Craig Wilson (craigw@kilwell.co.nz)" <craigw@kilwell.co.nz>, Haley Farmer

Subject: Hemo sculpture catchup

Hi Will, Craig, Hayley

Be great to catch up on site and look things over - hopefully Mark Law may be able to zoom in also.

See you then

Cheers



---

**From:** Vicki Cawte  
**Sent:** Monday, 24 August 2020 4:06 PM  
**To:** 'Craig Wilson'  
**Subject:** RE: Timelapse camera and sculpture images and footage

Great thanks – see you then

Ngā mihi

---

**Vicki Cawte**  
*Kaitohu Whakapā*  
P: 07 351 8044 | M: 027 937 4606  
E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz  
A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Monday, 24 August 2020 4:05 pm  
**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Subject:** RE: Timelapse camera and sculpture images and footage

2pm is fine or anytime after

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Monday, 24 August 2020 3:07 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** RE: Timelapse camera and sculpture images and footage

Hey Craig

Sorry it's taken me a while to get back to you. Someone from our IT team will be available on Wednesday afternoon to come out and look at the camera.

What time suits you best?

Ngā mihi

---

**Vicki Cawte**  
*Kaitohu Whakapā*  
P: 07 351 8044 | M: 027 937 4606  
E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz  
A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Thursday, 20 August 2020 10:02 am

**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Subject:** RE: Timelapse camera and sculpture images and footage

Hi,

Mon & Wed after lunch are best for next week for pickup on Camera & HD of video/images.

For the Auckland/Queenstown sculptures – we only have what we have pinched off the web as we did not install it and they were a long time ago.

Regards  
Craig

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Thursday, 20 August 2020 9:30 AM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** Timelapse camera and sculpture images and footage

Hiya

We have someone from our IT team organised to come out and look at the timelapse camera next week. What day suits you for us to come out?

Also we are purchasing a hard drive so I can collect footage/images to give to the girls to include in their video. I can come out at the same time and grab everything you have on file if that's convenient for your team?

Lastly, do you have any images or footage of the sculptures you've done in Auckland and Queenstown?

Ngā mihi

---

**Vicki Cawte**  
*Kaitohu Whakapā*  
P: 07 351 8044 | M: 027 937 4606  
E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz  
A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Marc Spijkerbosch  
**Sent:** Tuesday, 25 August 2020 12:06 pm  
**To:** 'Craig Wilson'  
**Subject:** RE: project plan table

Thanks Craig – this is perfect.  
Cheers

**Marc Spijkerbosch** Community Arts Advisor  
P: 07 351 8154 | E: marc.spijkerbosch@rotorualc.nz | W: rotorualakescouncil.nz

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Tuesday, 25 August 2020 12:05 PM  
**To:** Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>  
**Subject:** RE: project plan table

No its in excel only as attached - as it sums everything – I just cut and paste the table into excel

**From:** Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>  
**Sent:** Tuesday, 25 August 2020 11:58 AM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** project plan table

Hi Craig  
Thanks for the meeting yesterday – it's all looking good.  
I'm just updating the installation doc for the TMP – would you have the table below in a word doc?  
Cheers  
Marc

Part	Step	Project Steps (In minutes)	Total Time	Flight Time	Traffic Stopped
Outer Helix	1	<b>K1</b> to connect Outer Helix Sculpture to <b>ML</b> at 490 Te Ngae Road (Location 1). <b>K1</b> to have already <b>connected</b> lifting harness and flying flags to both structures prior to start.	5		
	2	<b>ML</b> picks up Outer Helix and heads out to Lake Rotorua (Location 3). Crossing Vaughan Road at Location 2. Then up the lake to Airport at location 4. Then across Te Ngae Road at Location 5 and around to Whakarewarewa forest. Crossing Tarawera Road (Location 6) and Across Redwoods (at location 7) to Hemo Gorge entrance. <b>TM</b> with lollipop to stop/start traffic at Locations 2, 5 & 6 to allow <b>ML</b> to cross roads.	15	15	
	3	<b>ML</b> enters Hemo gorge and stops at Te Puia Carpark (Location 8)	5	5	
	4	<b>KH1</b> removes flag final check on lifting harness. <b>KH1</b> confirms OK to <b>TM</b> to proceed with install and stop traffic.	5		
	5	<b>TM</b> to stop traffic & relay all clear to <b>ML</b> when OK to proceed with install.	5		5
	6	<b>ML</b> to take off from Te Puia carpark and drop OH into position with help of <b>KH2</b> & <b>K2</b> .	5	5	5
	7	<b>KH1</b> with help from <b>K2</b> secure sculpture with minimum of 16 bolts. <b>KH1</b> & <b>K2</b> to proceed with detaching & removing lifting platform from Outer Helix.	5	5	5
	8	<b>ML</b> & <b>KH1</b> to confirm to <b>TM</b> roundabout is clear and restart Traffic.	0		
	9	<b>ML</b> moves back to Te Puia carpark (Location 8) and refuels.	10		
Inner Helix	10	<b>ML</b> then heads back to Kilwell at Te Ngae road (Location 1) via same Route to pick up Inner Helix. <b>TM</b> with lollipop to stop/start traffic again at Locations 2, 5 & 6 to allow <b>ML</b> to cross roads.	5	5	
	11	<b>K1</b> to connect Inner Helix Sculpture to <b>ML</b> at Kilwell (Location 1).	10	10	
	12	<b>ML</b> picks up Outer Helix and heads out to Lake Rotorua (Location 3). Crossing Vaughan Road at Location 2. Then up the lake to Airport at location 4. Then across Te Ngae Road at Location 5 and around to Whakarewarewa forest. Crossing Tarawera Road (Location 6) and Across Redwoods (at location 7) to Hemo Gorge entrance. <b>TM</b> with lollipop to stop/start traffic at Locations 2, 5 & 6 to allow <b>ML</b> to cross roads.	15	15	
	13	<b>ML</b> enters Hemo gorge and stops at Te Puia Carpark (Location 8)	5	5	
	14	<b>KH1</b> removes flag final check on lifting harness. <b>KH1</b> confirms OK to <b>TM</b> to proceed with install and stop traffic.	5		
	15	<b>TM</b> to stop traffic & relay all clear to <b>ML</b> when OK to proceed with install.	5		5
	16	<b>ML</b> to take off from Te Puia carpark and drop Inner Helix into position with help of <b>KH2</b> & <b>K2</b> .	5	5	5
	17	<b>KH1</b> with help from <b>K2</b> secure sculpture with minimum of 16 bolts. <b>KH1</b> & <b>K2</b> to proceed with detaching & removing lifting platform from Inner Helix.	5	5	5
	18	<b>ML</b> & <b>KH1</b> to confirm to <b>TM</b> roundabout is clear and restart Traffic.	0		
	19	<b>ML</b> to move back to Te Puia carpark (Location 8) to refuel and park.	10		
Total Time			120	75	30
Time Between Road Closures			50		

Marc Spijkerbosch Community Arts Advisor

P: 07 351 8154

E: marc.spijkerbosch@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand



---

**From:** Vicki Cawte  
**Sent:** Wednesday, 26 August 2020 9:32 AM  
**To:** 'Craig Wilson'  
**Subject:** RE: Hemo meeting request

Thanks Craig – see you this arvo

Ngā mihi

---

**Vicki Cawte**  
*Kaitohu Whakapā*  
P: 07 351 8044 | M: 027 937 4606  
E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz  
A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Wednesday, 26 August 2020 8:29 am  
**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Subject:** RE: Hemo meeting request

Yes all good on both of those time

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Tuesday, 25 August 2020 5:50 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** RE: Hemo meeting request

Hey Craig – what is your availability Monday arvo? That seems to be a popular choice with everyone?

Also is it still okay for me to pop out tomorrow with one of our IT team to grab the time lapse camera? At about 2.30?

Ngā mihi

---

**Vicki Cawte**  
*Kaitohu Whakapā*  
P: 07 351 8044 | M: 027 937 4606  
E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz  
A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Tuesday, 25 August 2020 3:01 pm  
**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Subject:** RE: Hemo meeting request

Hi Vicki,

All good if before 11am on Monday  
Otherwise any time after 10am on Tuesday.

Regards  
Craig

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>

**Sent:** Tuesday, 25 August 2020 2:36 PM

**To:** Craig Wilson <craigw@kilwell.co.nz>; 'nick@tepuia.com' <nick@tepuia.com>; 'Corrie Balvert' <Corrie.Balvert@nzta.govt.nz>; 'Chris.Farnsworth@nzta.govt.nz' <Chris.Farnsworth@nzta.govt.nz>; Jocelyn Mikaere <Jocelyn.Mikaere@rotorualc.nz>; Stewart Brown <Stewart.Brown@rotorualc.nz>; Will Bamford <Will.Bamford@rotorualc.nz>; Mandy Godo ; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; 'rebecca@shinecollective.' ; Nickie Hunter

**Subject:** Hemo meeting request

Kia ora koutou

I understand everyone is somewhat aware that we are getting to the very pointy end of this project.

Installation is just around the corner and there are many things that need to line up alongside the logistics of getting the sculpture into place. There are many people that still need to be looped in and we are very short on time.

It would be great to get everyone around a table (or zooming in) to get a clear understanding of what each organisation's expectations are leading up to installation.

How is everyone placed for Monday morning/afternoon? If you could let me know your availability ASAP so we can get a meeting booked in.

Alternatively we could try for Tuesday.

Please feel free to give me a call if you have any question.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Sent:** Wednesday, 26 August 2020 11:58 am  
**To:** Marc Spijkerbosch  
**Cc:** Craig Wilson  
**Subject:** Completion work on site - restrictions

Hi Marc,

After the installation of the sculpture we will need about 6 working days of good weather when we will be working on site. During that time most of the work will be done at height, probably using a scissor lift or a cherry picker. It would be our preference to block off public access to the inside of the round about if possible. We can discuss the details when we are checking the bolts tomorrow – we also need to check the power on site.

Kind Regards,

Laz

Laszlo Kotan  
Factory Manager  
Kilwell Fibretube

p: +64 (0)7 345 9093, ext 802 | m: +64 (0)21 183 1203  
f: +64 (0)7 345 5149 | e: [laszlok@fibretube.co.nz](mailto:laszlok@fibretube.co.nz)  
w: [www.kilwellfibretube.co.nz](http://www.kilwellfibretube.co.nz) | f: [facebook.com/KilwellFibretube](https://www.facebook.com/KilwellFibretube)  
490 Te Ngae Road, Rotorua 3010 | Private Bag 3033, Rotorua 3046, New Zealand

**KILWELL FIBRETUBE**  
Composite Innovation

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Wednesday, 26 August 2020 8:05 pm  
**To:** Laszlo Kotan; Will Bamford  
**Cc:** 'Chad Hooton'; Marc Spijkerbosch; Haley Farmer  
**Subject:** Re: Hemo Sculpture Installation

Hi Will.  
Yes we can open up in the weekend just let me know a time that works.  
Cheera  
Craig

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---

**From:** Will Bamford <Will.Bamford@rotorualc.nz>  
**Sent:** Wednesday, August 26, 2020 7:43:18 PM  
**To:** Laszlo Kotan <Laszlok@fibretube.co.nz>; Craig Wilson <craigw@kilwell.co.nz>  
**Cc:** 'Chad Hooton' <impelkiwi@gmail.com>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; Haley Farmer  
**Subject:** FW: Hemo Sculpture Installation

Hi Laszlo and Craig

How are you?

I just spoke with Chad. They are available weekend 5<sup>th</sup>/6<sup>th</sup> and 12<sup>th</sup>/13<sup>th</sup> and keen to help us out. At this stage it will just be Chad and Mark Blair assisting.

Chad and Mark are looking at coming up to view the sculpture and plinth on Saturday 29<sup>th</sup>. Is the Kilwell yard open on Saturdays? If not, would someone be able to meet us there, or would I be able to get a key to the gate to look at the sculptures please? We probably need 10 to 30minutes. Time of day is yet to be confirmed. If we can't make Saturday happen, they'll come up Monday or Tuesday.

Laszlo, I'm hoping to see you and Marc at the roundabout of the morning.

Cheers

Will

**Will Bamford** Kaea Hinonga – Senior Project Manager | **Ohu Haumarū** - Project Management & Risk Office  
07 351 8217 | 027 205 1794 | [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

---

**From:** Will Bamford  
**Sent:** Monday, 24 August 2020 9:29 pm  
**To:** 'Chad Hooton'  
**Cc:** Laszlo Kotan <Laszlok@fibretube.co.nz>; 'Craig Wilson' <craigw@kilwell.co.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; Haley Farmer  
**Subject:** Hemo Sculpture Installation

Hi Chad

How are you?

Probably best to yarn tomorrow but was keen to get some info to you.

We met with Mark Law and the team from Kilwell today to discuss installation of the Hemo Sculpture.

Mark is really keen to please have you and Mark Blair involved with the sculpture install, plus one or two others if possible?

At this stage, we are aiming for **Sunday 6<sup>th</sup> September** as the day to do it (father's day). The backup days are Saturday 5<sup>th</sup> (if Sunday is looking bad) and the weekend of 12<sup>th</sup> & 13<sup>th</sup> Sept. There's a possibility the hawk will be down south for a couple of months from week 7<sup>th</sup> Sept, but we will be clearer on this end of this week.

As well as your team, there will be 2 – 3 Kilwell and 2 Kahu personal at the dropzone. One of the Kahu guys will be on the radio directing. I'm also floating around – I can be overseeing and liaising between Traffic Management, helicopters, etc. Or helping catch the load?

There are two helixes which form the sculpture – an outer and inner. The outer needs to be installed first. Essentially the rough plan:

#### People:

- Kilwell (pick up): 2 x Kilwell and 1 x Kahu
- Hemo Roundabout (drop zone): 2 – 3 Kilwell, 2 Kahu, 3 – 4 Impell, 1 RLC
- Traffic Management - 3 areas for Traffic Management to close roads (Traffic Management NZ)
- Event Security – VR Security – TBC
- Communications – RLC (TBC)
- Drone pilot – TBC

#### Programme

- Pick up first helix (3.2T) at Kiwell, fly over lake and forest and put in place
- Keep longline attached, fly same route back to airport to fuel up
- Pick up second helix, fly to site and put in place
- Land at Te Puia car park, disconnect Longline, then fly back to Whakatane (via airport if fuel needed)

#### Considerations

- Attached is the flight plan. It is to be updated to reflect the road crossing points and a couple of the installation requirements
- Flight route is 95% above lake, farmland, and forest. Roads will be closed to allow hawk with underslung load and longline to cross safely
- There will be event management (VR Security ) to keep people away from dropzone
- There will be a funnel to guide in the outer (first) helix. This helix will have guide lines on it
- There is plywood on inside of first helix to guide second one (as it sits inside the outer helix). This one won't have guidelines
- The bolts the baseplates are dropping on are M16 and the holes in the platform are 25mm. I know, it's a bit of a nightmare but these were fixed in place 3 years ago before the sculpture construction commenced
- The outer platform is sitting on 48 M16 bolts. The inner helix 24
- Mark and I think that having 8 or so bolt sleeves per helix would assist with lining them up and protecting all of the bolts. Any more might be a challenge because of the baseplate holes only being 25mm

- The bolts and the baseplate have been run over with a template 3+ times and these will be checked again before the operation (maybe this week)
- If a bolt gets damaged, Mark will lift up and we will have sledge hammers/dumpies to straighten the bolt back up. If damaged, Laszlo is comfortable rethreading the bolts once helix is in place (or grouting bolt in place)
- We will have angle grinders for worse case scenario of having to get rid of a bolt
- We are also going to have an area (min 25m by 25m) at Te Puia car park to drop the sculpture and tie it down if needed
- **Let's discuss, but would you be able to get 16 sleeves made up for M16 bolts please?** If not, I can sort something here. As the baseplate holes are only 25mm, ideally the sleeve wouldn't be any greater than 20-22mm? We could potentially look at widening the baseplate holes for the specific 8 sleeves if needed? As the M16 is so flexible, we were thinking about the sleeves being 130mm – 150mm long, so there would be one or two extra inches to guide Mark is. Essentially, mark would be able to get it ion the guide funnel and then we would have 6 of us to be able to guide it onto the 8 sleeves. What are your thoughts?

If you are still keen, the rough plan (for a Sunday fly day) would be:

- Make call Thursday/Friday as to whether or not it is looking likely to fly
- Meet Saturday afternoon to go through the drop. Team to meet includes:
  - Kahu Helicopters (Mark Law, etc)
  - Kilwell (Laszlo, plus 3-4 others)
  - Traffic Management Rep
  - Event management rep
  - RLC (definitely me, maybe comms rep and others)
- Sunday
  - 6am – 6:30am – all teams in place
  - 6:30am – Mark leaves Whakatane (option to fly over night before)
  - 7am – first lift
  - 8:30-9am – all over rover
  - 9am – tidy up
  - coffee and breakfast

Have a good night and talk tomorrow maybe.

Will

---

**Will Bamford** Kaea Hinonga – Senior Project Manager | **Ohu Haumarū** - Project Management & Risk  
Office

Waea: 07 351 8217 | Waea Pūkoro: 027 205 1794

Īmera: will.bamford@rotorualc.nz | Ipurangi: rotorualakescouncil.nz

Taunga: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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---

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Friday, 28 August 2020 9:20 am  
**To:** Mark Law; Will Bamford; 'Chad Hooton'  
**Cc:** Laszlo Kotan; Marc Spijkerbosch; Haley Farmer  
**Subject:** RE: Hemo Sculpture Installation

Hi Mark,

The outer must go in first as the inner slots down into and inside it. We cannot install the outer after the inner as it cannot fit over or around the inner.

Regards  
Craig

---

**From:** Mark Law  
**Sent:** Friday, 28 August 2020 9:00 AM  
**To:** Will Bamford <Will.Bamford@rotorualc.nz>; 'Chad Hooton'  
**Cc:** Laszlo Kotan <Laszlok@fibretube.co.nz>; Craig Wilson <craigw@kilwell.co.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; Haley Farmer  
**Subject:** Re: Hemo Sculpture Installation

Hi All,

I think we are better to fly the inner statue first. This allows simple handling by persons on the ground to the foundation bolts etc. It would be very difficult and unsafe if we are trying to move the inner statue around into its right location, flying it second. Trying to stand outside the outside statue bolted in place to secure the inside statue will be quite problematic.

Any feedback welcome.

Chad I'll call later as got few meetings this morning.

Kind regards

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---

**From:** Will Bamford <Will.Bamford@rotorualc.nz>  
**Sent:** Monday, August 24, 2020 9:29:01 PM  
**To:** 'Chad Hooton' <impelkiwi@gmail.com>  
**Cc:** Laszlo Kotan <Laszlok@fibretube.co.nz>; 'Craig Wilson' <craigw@kilwell.co.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; Haley Farmer <Haley.Farmer@rotorualc.nz>; Mark Law <Mark.Law@rotorualc.nz>  
**Subject:** Hemo Sculpture Installation

Hi Chad

How are you?

Probably best to yarn tomorrow but was keen to get some info to you.

We met with Mark Law and the team from Kilwell today to discuss installation of the Hemo Sculpture.

Mark is really keen to please have you and Mark Blair involved with the sculpture install, plus one or two others if possible?

At this stage, we are aiming for **Sunday 6<sup>th</sup> September** as the day to do it (father's day). The backup days are Saturday 5<sup>th</sup> (if Sunday is looking bad) and the weekend of 12<sup>th</sup> & 13<sup>th</sup> Sept. There's a possibility the hawk will be down south for a couple of months from week 7<sup>th</sup> Sept, but we will be clearer on this end of this week.

As well as your team, there will be 2 – 3 Kilwell and 2 Kahu personal at the dropzone. One of the Kahu guys will be on the radio directing. I'm also floating around – I can be overseeing and liaising between Traffic Management, helicopters, etc. Or helping catch the load?

There are two helixes which form the sculpture – an outer and inner. The outer needs to be installed first. Essentially the rough plan:

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#### Considerations

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- Flight route is 95% above lake, farmland, and forest. Roads will be closed to allow hawk with underslung load and longline to cross safely
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- We will have angle grinders for worse case scenario of having to get rid of a bolt
- We are also going to have an area (min 25m by 25m) at Te Puia car park to drop the sculpture and tie it down if needed
- **Let's discuss, but would you be able to get 16 sleeves made up for M16 bolts please?** If not, I can sort something here. As the baseplate holes are only 25mm, ideally the sleeve wouldn't be any greater than 20-22mm? We could potentially look at widening the baseplate holes for the specific 8 sleeves if needed? As the M16 is so flexible, we were thinking about the sleeves being 130mm – 150mm long, so there would be one or two extra inches to guide Mark is. Essentially, mark would be able to get it ion the guide funnel and then we would have 6 of us to be able to guide it onto the 8 sleeves. What are your thoughts?

If you are still keen, the rough plan (for a Sunday fly day) would be:

- Make call Thursday/Friday as to whether or not it is looking likely to fly
- Meet Saturday afternoon to go through the drop. Team to meet includes:
  - Kahu Helicopters (Mark Law, etc)
  - Kilwell (Laszlo, plus 3-4 others)
  - Traffic Management Rep
  - Event management rep
  - RLC (definitely me, maybe comms rep and others)
- Sunday
  - 6am – 6:30am – all teams in place
  - 6:30am – Mark leaves Whakatane (option to fly over night before)
  - 7am – first lift
  - 8:30-9am – all over rover
  - 9am – tidy up
  - coffee and breakfast

Have a good night and talk tomorrow maybe.

Will

---

**Will Bamford** Kaea Hinonga – Senior Project Manager | *Ohu Haumarū* - Project Management & Risk Office  
 Waea: 07 351 8217 | Waea Pūkoro: 027 205 1794  
 Īmera: [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | Ipurangi: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)  
 Taunga: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Friday, 28 August 2020 11:45 am  
**To:** Marc Spijkerbosch  
**Cc:** Will Bamford; Stewart Brown; 'bopetmps@higgins.co.nz'  
**Subject:** RE: Hemo Gorge installation info

Hi Marc,

Just got to finish reading these and talk to Stewart before I sign and confirm.

Am out of office for rest of the day so will probably be Monday.

Regards  
Craig

---

**From:** Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>  
**Sent:** Friday, 28 August 2020 9:04 AM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Cc:** Will Bamford <Will.Bamford@rotorualc.nz>; Stewart Brown <Stewart.Brown@rotorualc.nz>; 'bopetmps@higgins.co.nz'  
**Subject:** FW: Hemo Gorge installation info

Morning Craig  
Things lining up well for install on the 6<sup>th</sup> - attached just needs to be filled in on behalf Kilwell.  
We'll need to move fairly quickly on this.  
Perhaps if you could then send directly through to Josh at Higgins (cc'd, as below).

Let me know if I can help at all – huge thanks in advance.  
Cheers  
Marc

**Marc Spijkerbosch** Community Arts Advisor  
P: 07 351 8154 | E: marc.spijkerbosch@rotorualc.nz | W: rotorualakescouncil.nz

---

**From:** BOPE Tmps (Higgins)  
**Sent:** Thursday, 27 August 2020 3:53 PM  
**To:** Will Bamford <Will.Bamford@rotorualc.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>  
**Cc:** Frankie Evans  
**Subject:** RE: Hemo Gorge installation info

Good afternoon Marc/Will,

Thanks for making contact and sending through the updated information.

I have uploaded these to the current CAR application for the install (ref: E693589).  
The Higgins contact details within the project plan has been updated to include myself.

I am awaiting amendment to the Traffic Management Plan from Bryan Duncan at WSP, who made the original application and TMP design.

Please see attached Agreement to work on State Highway forms. These are a standard requirement of approval for works outside of utility operation or Waka Kotahi specific projects. Please complete these in full and return to me.

Thanks,

**Josh Coombes**

Traffic Management Coordinator

**Higgins** *showing the way*

Higgins Contractors Limited

334 Te Ngae Road DDI: 07 349 3804

PO Box 10167 T: +64 27 297 1220

Rotorua 3046 [www.higgins.co.nz](http://www.higgins.co.nz)

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**From:** Will Bamford <[Will.Bamford@rotorualc.nz](mailto:Will.Bamford@rotorualc.nz)>

**Sent:** Thursday, 27 August 2020 3:14 PM

**To:** Marc Spijkerbosch <[Marc.Spijkerbosch@rotorualc.nz](mailto:Marc.Spijkerbosch@rotorualc.nz)>; BOPE Tmps (Higgins)

**Subject:** RE: Hemo Gorge installation info

Thanks Mark

Josh, if you have any queries specifically around the install methodology – feel free to call me directly (027 205 1794).

Cheers

Will

**Will Bamford Kaea Hinonga – Senior Project Manager | Ohu Haumarū - Project Management & Risk Office**

07 351 8217 | 027 205 1794 | [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

---

**From:** Marc Spijkerbosch <[Marc.Spijkerbosch@rotorualc.nz](mailto:Marc.Spijkerbosch@rotorualc.nz)>

**Sent:** Thursday, 27 August 2020 3:03 pm

**To:** 'bopetmps@higgins.co.nz'

**Cc:** Will Bamford <[Will.Bamford@rotorualc.nz](mailto:Will.Bamford@rotorualc.nz)>

**Subject:** Hemo Gorge installation info

Hi Josh, good to talk just now and get up to speed on things.

Have attached the updated installation info I hope will get us over the line.

Let me know asap if there's anything further you need from us - I've cc'd Will Bamford, he's our installation project lead and has invaluable operational experience in this area.

We all really appreciate your help with this.

Huge thanks

Marc

---

**Marc Spijkerbosch** Community Arts Advisor

P: 07 351 8154



---

**From:** Will Bamford  
**Sent:** Friday, 28 August 2020 3:09 pm  
**To:** 'Laszlo Kotan'; Craig Wilson  
**Cc:** Haley Farmer; Marc Spijkerbosch; Mandy Godo; Rachel Green; 'Chad Hooton'; 'chris.farnsworth@nzta.govt.nz'  
**Subject:** RE: Hemo sculpture - A couple of queries

Hi Laz

This is ideal. Thanks. We don't need NZTA approval if being kept in the car park. **Chris** should be able to confirm he is happy with the approach on your sketch.

Cheers

Wil

**Will Bamford Kaea Hinonga** – Senior Project Manager | *Ohu Haumarua* - Project Management & Risk Office  
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**From:** Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Sent:** Friday, 28 August 2020 2:46 pm  
**To:** Will Bamford <Will.Bamford@rotorualc.nz>; Craig Wilson <craigw@kilwell.co.nz>  
**Cc:** Haley Farmer ; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; Mandy Godo ; Rachel Green ; 'Chad Hooton' 'chris.farnsworth@nzta.govt.nz' <chris.farnsworth@nzta.govt.nz>  
**Subject:** RE: Hemo sculpture - A couple of queries

Hi Will,

The sculpture cannot be laid down, it has to be kept upright. If they cannot be put in place for some reason, they will need to be put down about 30 – 40 metres (or closer if possible) to the centre line of the road – see my sketch attached. To secure the two helixes, concrete anchoring block will need to be placed according to the sketch. When you are coordinating the delivery and placement of the blocks with NZTA, please make sure they keep the distance and orientation as per drawing. If they have difficulties with the location, please let me know and we can re-assess it on site.

Kind Regards,

Laz

Laszlo Kotan  
Factory Manager  
Kilwell Fibretube

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f: +64 (0)7 345 5149 | e: [laszlok@fibretube.co.nz](mailto:laszlok@fibretube.co.nz)  
w: [www.kilwellfibretube.co.nz](http://www.kilwellfibretube.co.nz) | f: [facebook.com/KilwellFibretube](https://www.facebook.com/KilwellFibretube)  
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Composite Innovation

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**From:** Will Bamford <Will.Bamford@rotorualc.nz>  
**Sent:** Thursday, 27 August 2020 7:36 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>; Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Cc:** Haley Farmer <Haley.Farmer@rotorualc.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; Mandy Godo <Mandy.Godo@rotorualc.nz>; Rachel Green <Rachel.Green@rotorualc.nz>; 'Chad Hooton' <impelkiwi@gmail.com>; 'chris.farnsworth@nzta.govt.nz' <chris.farnsworth@nzta.govt.nz>  
**Subject:** RE: Hemo sculpture - A couple of queries

Hi Craig and Laszlo

The other question I wanted to ask, is if we have to put the sculpture down either inside the roundabout or at Te Puia for an extended length of time (I.e. if we can't get it in place of the fly day), how we will secure it? Will it be upright, or laid down?

NZTA said they will consider us leaving it within the roundabout as a backup plan, but only if we have a plan which demonstrates it either won't fall over in the wind or, if it does, it won't impact on the roading traffic.

Cheers

Will

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**Will Bamford** Kaea Hinonga – Senior Project Manager | **Ohu Haumarū** - Project Management & Risk Office  
07 351 8217 | 027 205 1794 | will.bamford@rotorualc.nz | rotorualakescouncil.nz

---

**From:** Will Bamford  
**Sent:** Thursday, 27 August 2020 3:48 pm  
**To:** 'Craig Wilson' <craigw@kilwell.co.nz>; Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Cc:** Haley Farmer <Haley.Farmer@rotorualc.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; Mandy Godo <Mandy.Godo@rotorualc.nz>; Rachel Green <Rachel.Green@rotorualc.nz>; 'Chad Hooton' <impelkiwi@gmail.com>  
**Subject:** Hemo sculpture - A couple of queries

Hi Craig and Laszlo

How are you?

A couple of queries have come up, which you may be able to answer please?

1. VR security, who will be keeping an eye on the sculpture overnight at Kilwells are wondering the following:
  - a. Who is the key contact at Kilwell's if they have issues?
  - b. Will they get a key for the gate, or will it be open?
  - c. How will they know anyone visiting the site is staff (i.e. do the staff all have ID's, or will they get a list of staff, etc?)
2. In regards to Roundabout site becoming a Kilwell site, I'm assuming this will happen from the day before the lift? Do you have a plan for providing site fencing, etc to secure the site? We (Laszlo, Dave, Marc, Haley, and I) discussed fencing off the inside of the round-a-bout to provide a large working area, with a path around the outside linking the three underpasses for pedestrians/cyclists?

3. Can I please get a copy of your H&S/JSA for the install? Happy to discuss this. I'm assuming Chad and Mark will fit under your H & S for the install? So I will share your plan with them for any comment.

Happy to discuss.

Cheers

Will

---

**Will Bamford** Kaea Hinonga – *Senior Project Manager* | *Ohu Haumarū - Project Management & Risk Office*

Waea: 07 351 8217 | Waea Pūkoro: 027 205 1794

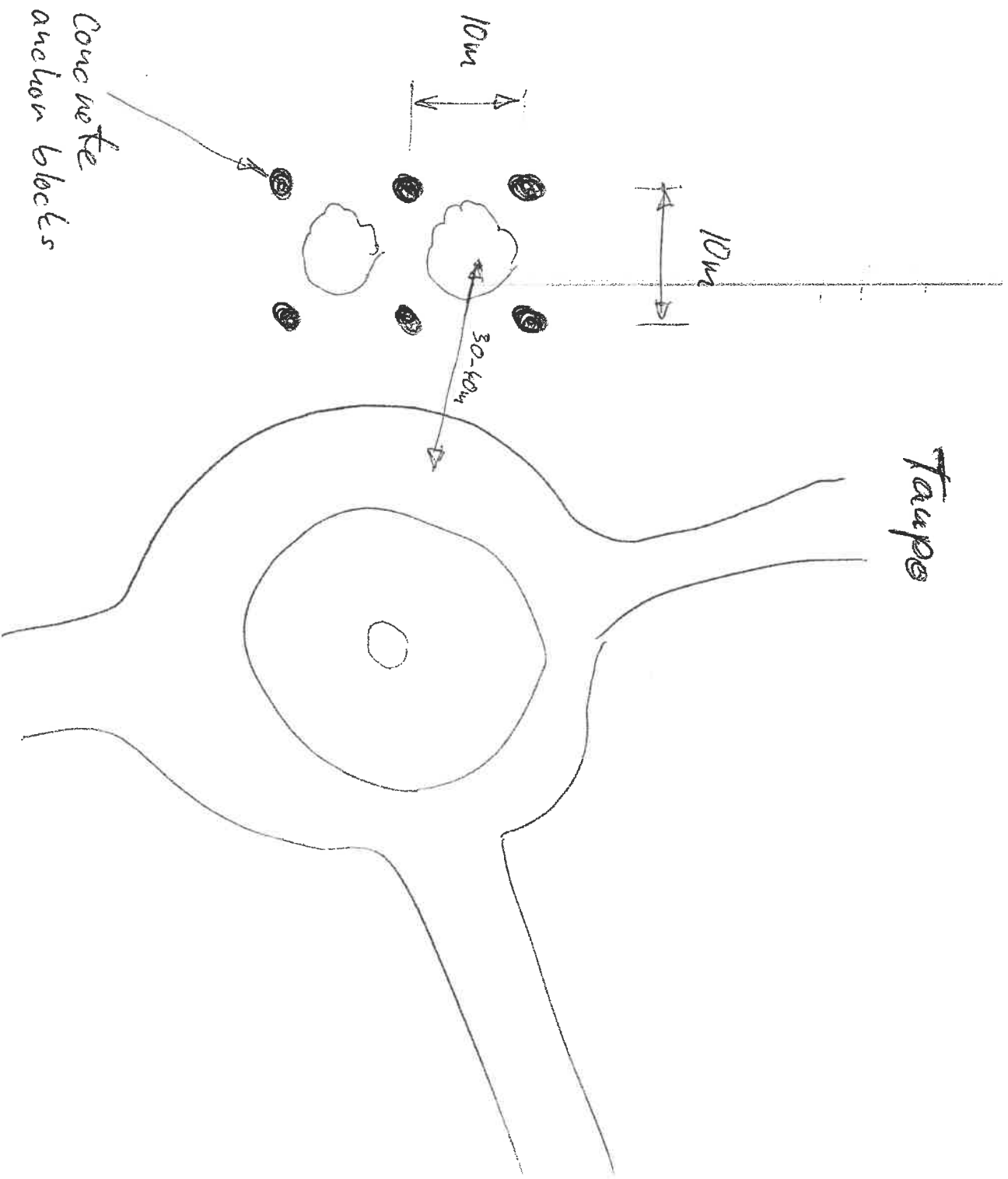
Īmera: [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | Ipurangi: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

Taunga: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Will Bamford  
**Sent:** Friday, 28 August 2020 3:29 pm  
**To:** 'Laszlo Kotan'; 'Chad Hooton'  
**Cc:** Craig Wilson; Marc Spijkerbosch; Haley Farmer; '  
**Subject:** RE: Hemo Sculpture Installation

Sweet Laz

Thank you. Let's discuss this of the morning.

Will

**Will Bamford** Kaea Hinonga – Senior Project Manager | *Ohu Haumarū* - Project Management & Risk Office  
[07 351 8217](tel:073518217) | [027 205 1794](tel:0272051794) | [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

---

**From:** Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Sent:** Friday, 28 August 2020 3:16 pm  
**To:** Will Bamford <Will.Bamford@rotorualc.nz>; 'Chad Hooton'  
**Cc:** Craig Wilson <craigw@kilwell.co.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; Haley Farmer <haley.farmer@rotorualc.nz>; 'mark@kahu.nz'  
**Subject:** RE: Hemo Sculpture Installation

Hi gents

I don't think we came to an agreement about the sleeves on the bolts. When we have checked the location of the bolts on the plinth, quite a few of them were about 3-5 mm out of alignment – and that is in radial direction, we couldn't check distances reliably in the tangent (side wise) direction due to the lack of known reference point. The bolts are M16 and the holes are 25mm diameter. That 5mm misalignment of the bolts eats up the play between the M16 and the 25mm hole, sleeves will reduce the play more. Making the "flimsy" M16 bolts longer by putting a sleeve on them may extrapolate the issue.

Let me know how you want to proceed, your call.

Cheers.

Kind regards,  
Laz

---

**From:** Will Bamford <Will.Bamford@rotorualc.nz>  
**Sent:** Monday, 24 August 2020 9:29 PM  
**To:** 'Chad Hooton'  
**Cc:** Laszlo Kotan <Laszlok@fibretube.co.nz>; Craig Wilson <craigw@kilwell.co.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; Haley Farmer <haley.farmer@rotorualc.nz>; 'mark@kahu.nz'  
**Subject:** Hemo Sculpture Installation

Hi Chad

How are you?

Probably best to yarn tomorrow but was keen to get some info to you.

We met with Mark Law and the team from Kilwell today to discuss installation of the Hemo Sculpture.

Mark is really keen to please have you and Mark Blair involved with the sculpture install, plus one or two others if possible?

At this stage, we are aiming for **Sunday 6<sup>th</sup> September** as the day to do it (father's day). The backup days are Saturday 5<sup>th</sup> (if Sunday is looking bad) and the weekend of 12<sup>th</sup> & 13<sup>th</sup> Sept. There's a possibility the hawk will be down south for a couple of months from week 7<sup>th</sup> Sept, but we will be clearer on this end of this week.

As well as your team, there will be 2 – 3 Kilwell and 2 Kahu personal at the dropzone. One of the Kahu guys will be on the radio directing. I'm also floating around – I can be overseeing and liaising between Traffic Management, helicopters, etc. Or helping catch the load?

There are two helixes which form the sculpture – an outer and inner. The outer needs to be installed first. Essentially the rough plan:

#### People:

- Kilwell (pick up): 2 x Kilwell and 1 x Kahu
- Hemo Roundabout (drop zone): 2 – 3 Kilwell, 2 Kahu, 3 – 4 Impell, 1 RLC
- Traffic Management - 3 areas for Traffic Management to close roads (Traffic Management NZ)
- Event Security – VR Security – TBC
- Communications – RLC (TBC)
- Drone pilot – TBC

#### Programme

- Pick up first helix (3.2T) at Kiwell, fly over lake and forest and put in place
- Keep longline attached, fly same route back to airport to fuel up
- Pick up second helix, fly to site and put in place
- Land at Te Puia car park, disconnect Longline, then fly back to Whakatane (via airport if fuel needed)

#### Considerations

- Attached is the flight plan. It is to be updated to reflect the road crossing points and a couple of the installation requirements
- Flight route is 95% above lake, farmland, and forest. Roads will be closed to allow hawk with underslung load and longline to cross safely
- There will be event management (VR Security ) to keep people away from dropzone
- There will be a funnel to guide in the outer (first) helix. This helix will have guide lines on it
- There is plywood on inside of first helix to guide second one (as it sits inside the outer helix). This one won't have guidelines
- The bolts the baseplates are dropping on are M16 and the holes in the platform are 25mm. I know, it's a bit of a nightmare but these were fixed in place 3 years ago before the sculpture construction commenced
- The outer platform is sitting on 48 M16 bolts. The inner helix 24
- Mark and I think that having 8 or so bolt sleeves per helix would assist with lining them up and protecting all of the bolts. Any more might be a challenge because of the baseplate holes only being 25mm
- The bolts and the baseplate have been run over with a template 3+ times and these will be checked again before the operation (maybe this week)
- If a bolt gets damaged, Mark will lift up and we will have sledge hammers/dumpies to straighten the bolt back up. If damaged, Laszlo is comfortable rethreading the bolts once helix is in place (or grouting bolt in place)
- We will have angle grinders for worse case scenario of having to get rid of a bolt
- We are also going to have an area (min 25m by 25m) at Te Puia car park to drop the sculpture and tie it down if needed
- **Let's discuss, but would you be able to get 16 sleeves made up for M16 bolts please?** If not, I can sort something here. As the baseplate holes are only 25mm, ideally the sleeve wouldn't be any greater than 20-

22mm? We could potentially look at widening the baseplate holes for the specific 8 sleeves if needed? As the M16 is so flexible, we were thinking about the sleeves being 130mm – 150mm long, so there would be one or two extra inches to guide Mark is. Essentially, mark would be able to get it ion the guide funnel and then we would have 6 of us to be able to guide it onto the 8 sleeves. What are your thoughts?

If you are still keen, the rough plan (for a Sunday fly day) would be:

- Make call Thursday/Friday as to whether or not it is looking likely to fly
- Meet Saturday afternoon to go through the drop. Team to meet includes:
  - Kahu Helicopters (Mark Law, etc)
  - Kilwell (Laszlo, plus 3-4 others)
  - Traffic Management Rep
  - Event management rep
  - RLC (definitely me, maybe comms rep and others)
- Sunday
  - 6am – 6:30am – all teams in place
  - 6:30am – Mark leaves Whakatane (option to fly over night before)
  - 7am – first lift
  - 8:30-9am – all over rover
  - 9am – tidy up
  - coffee and breakfast

Have a good night and talk tomorrow maybe.

Will

---

**Will Bamford** Kaea Hinonga – Senior Project Manager | *Ohu Haumarū* - Project Management & Risk Office

Waea: 07 351 8217 | Waea Pūkoro: 027 205 1794

Īmera: [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | Ipurangi: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

Taunga: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Will Bamford  
**Sent:** Friday, 28 August 2020 3:31 pm  
**To:** 'Laszlo Kotan'  
**Cc:** Mandy Godo; Rachel Green; Marc Spijkerbosch; Haley Farmer  
**Subject:** RE: Hemo sculpture - A couple of queries

Ideal. Thanks Laz

Rachel – please note r.e. not requirement for security at Kilwell the night before.

Will

**Will Bamford Kaea Hinonga – Senior Project Manager | Ohu Haumaru - Project Management & Risk Office**  
[07 351 8217](tel:073518217) | [027 205 1794](tel:0272051794) | [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

---

**From:** Laszlo Kotan <[Laszlok@fibretube.co.nz](mailto:Laszlok@fibretube.co.nz)>  
**Sent:** Friday, 28 August 2020 3:28 pm  
**To:** Will Bamford <[Will.Bamford@rotorualc.nz](mailto:Will.Bamford@rotorualc.nz)>  
**Subject:** RE: Hemo sculpture - A couple of queries

Hi Will

All good, my latest answer below underscored.

---

**From:** Will Bamford <[Will.Bamford@rotorualc.nz](mailto:Will.Bamford@rotorualc.nz)>  
**Sent:** Friday, 28 August 2020 3:12 PM  
**To:** Laszlo Kotan <[Laszlok@fibretube.co.nz](mailto:Laszlok@fibretube.co.nz)>; Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Cc:** Haley Farmer ; Marc Spijkerbosch <[Marc.Spijkerbosch@rotorualc.nz](mailto:Marc.Spijkerbosch@rotorualc.nz)>; Mandy Godo ; Rachel Green ; 'Chad Hooton'  
**Subject:** RE: Hemo sculpture - A couple of queries

Hi Laszlo

All of the below looks good. Thanks so much. I have added in a couple of follow up questions.

Have a good weekend.

Will

**Will Bamford Kaea Hinonga – Senior Project Manager | Ohu Haumaru - Project Management & Risk Office**  
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**From:** Laszlo Kotan <[Laszlok@fibretube.co.nz](mailto:Laszlok@fibretube.co.nz)>  
**Sent:** Friday, 28 August 2020 2:27 pm  
**To:** Will Bamford <[Will.Bamford@rotorualc.nz](mailto:Will.Bamford@rotorualc.nz)>; Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Cc:** Haley Farmer ; Marc Spijkerbosch <[Marc.Spijkerbosch@rotorualc.nz](mailto:Marc.Spijkerbosch@rotorualc.nz)>; Mandy Godo ; Rachel Green ; 'Chad Hooton'  
**Subject:** RE: Hemo sculpture - A couple of queries

Hi Will,

My answers are below in bold, let me know if there are any more questions.

Kind regards,  
Laz

---

**From:** Will Bamford <Will.Bamford@rotorualc.nz>

**Sent:** Thursday, 27 August 2020 3:48 PM

**To:** Craig Wilson <craigw@kilwell.co.nz>; Laszlo Kotan <Laszlok@fibretube.co.nz>

**Cc:** Haley Farmer ; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; Mandy Godo ; Rachel Green ; 'Chad Hooton'

**Subject:** Hemo sculpture - A couple of queries

Hi Craig and Laszlo

How are you?

A couple of queries have come up, which you may be able to answer please?

1. VR security, who will be keeping an eye on the sculpture overnight at Kilwells are wondering the following: **Kilwell site is fenced around (it's private property), have a locked gate, security camera in operation, we don't have a security person on site – this is how it's been for the past year, we will keep it that way. Only Kilwell staff has access to the site. Gate will be kept closed on the installation day (just like every time when no one is working). Contact Craig or myself for enquires.** Sweet – RLC had organised as part of the event security to have a security guard overnight before the lift to keep an eye on statue? But looking like that isn't required? That's correct, there is no need for a security guard.
  - a. Who is the key contact at Kilwell's if they have issues?
  - b. Will they get a key for the gate, or will it be open?
  - c. How will they know anyone visiting the site is staff (i.e. do the staff all have ID's, or will they get a list of staff, etc?)
2. In regards to Roundabout site becoming a Kilwell site, I'm assuming this will happen from the day before the lift? Do you have a plan for providing site fencing, etc to secure the site? We (Laszlo, Dave, Marc, Haley, and I) discussed fencing off the inside of the round-a-bout to provide a large working area, with a path around the outside linking the three underpasses for pedestrians/cyclists? **I don't believe Kilwell was tasked or made commitment to erect fencing there. We will put cones up with barrier tapes around the roundabout on the day (early in the morning), and have about 10 Kilwell staff around to keep people away.** Ok. Is this how the site will be secured for the week following the install while you do the tidy up works? That's correct, that is the plan.
3. Can I please get a copy of your H&S/JSA for the install? Happy to discuss this. I'm assuming Chad and Mark will fit under your H & S for the install? So I will share your plan with them for any comment. **I will send over our final JSA next week. Chad and everyone on the ground will need to be aware and comply with the document, Mark will have a copy of it too, but I believe he will have his own JSA. I will send you our final JSA latest on Wednesday.** Ideal. Agree.

Happy to discuss.

Cheers

Will

---

**Will Bamford** Kaea Hinonga – Senior Project Manager | **Ohu Haumarū** - Project Management & Risk Office  
Waea: 07 351 8217 | Waea Pūkoro: 027 205 1794

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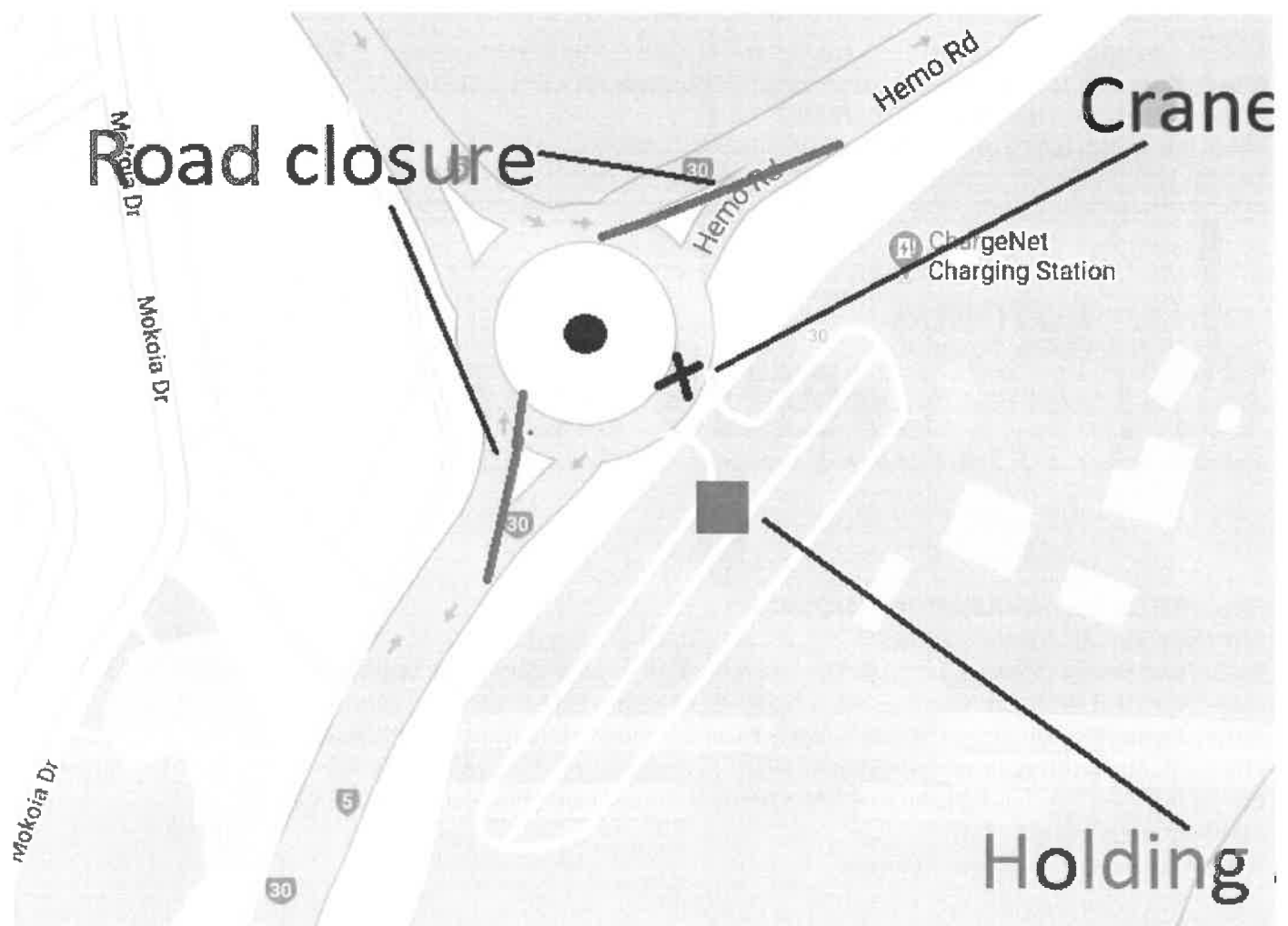


confirmation of a few bits and pieces (primarily TMP and Crane hire), this is now the preferred option for Kilwell (it is their decision which way we go).

We will catch up on Monday, but essentially the plan would be:

- Have a landing platform set up at Te Puia car park with anchor blocks to secure the helixes to
- Have eastern (forest) side of roundabout closed off, with stop/go running traffic through the western side of roundabout
- Have crane parked on road on eastern side of roundabout (need to confirm crane availability, reach, and outrigger set up (if it will fit within road corridor))
- Fly outer onto car park landing platform and secure to anchor blocks
- As helicopter flies back to Kilwell, crane picks up outer helix and moves to inside of roundabout (still attached to crane)
- Helicopter lands inner helix at carpark and it's secured to anchor blocks
- Install outer helix and then inner helix by crane.

The idea is that this takes time pressure away and movement issues of a helicopter. It also means we won't have to fully close the roundabout – but we may need to have stop/go in place for a 1 – 5 hours while we crane sculpture in. This approach will change event and traffic management requirements.



**Chad** is going to flick through an email tomorrow with an install plan which he thinks is achievable, and associated costs. **Craig** (Kilwell) can then make a call if they want his involvement or not. Chad's understanding is he would be a sub-contractor to Kilwell but this needs confirmation.

**Laz** is going to look into Crane and anchor block availability.



The key RLC requirement is to work out with NZTA and TMZ if this is possible, and if Sunday 6<sup>th</sup> is achievable. We also need (re)confirmation from Te Puia that we can use their carpark as a staging area. Let's discuss Monday.

Overall, we are all very positive and believe this can happen safely. The hybrid approach minimise risks, including H & S. It will also allow for more accurate costing pre-install and be cheaper than a full helicopter approach. We still believe the install is fully achievable by helicopter only, but the crane allows for us to take time and manage any issues around bolt alignment safely (and means everyone can talk to each other!). Plus the hybrid approach reduces the need to have a bunch of backups in place, which will reduce cost.

Happy to discuss (anytime).

Have a great weekend!

Cheers

Will

---

**Will Bamford** Kaea Hinonga – *Senior Project Manager* | *Ohu Haumarū - Project Management & Risk*  
Office

Waea: 07 351 8217 | Waea Pūkoro: 027 205 1794

Īmera: [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | Ipurangi: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

Taunga: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

---

**ROTORUA**  
LAKES COUNCIL



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**From:** Will Bamford  
**Sent:** Sunday, 30 August 2020 9:27 am  
**To:** Mandy Godo; Stewart Brown; Marc Spijkerbosch; 'Laszlo Kotan'; 'Craig Wilson';  
Haley Farmer; Rachel Green; Nickie Hunter; Vicki Cawte  
**Cc:** 'mark@kahu.nz'; 'Chad Hooton'; Justine Wilmoth  
**Subject:** RE: Hemo Install Update 29 August

Morena Mandy

I agree with your assessment. I think it would be great if you can please give Steve a heads up first thing tomorrow (or email today). It would be good to talk with Steve about timeframes - as it may mean we automatically have to push out another week to the 12th/13th. We can then follow up with him after our meeting tomorrow and when we have certainty around the other items (crane, etc).

I appreciate it puts a lot of time pressure on for TMP approvals, but this approach will minimise risk significantly. I'm hoping NZTA will recognise this and be comfortable with the need for the change (and processing things quickly). **Marc**, would you be able to phone Chris from NZTA first thing Monday? Or should I? I'm happy to.

Have a good weekend,

Will

Sent from my Samsung Galaxy smartphone.

----- Original message -----

**From:** Mandy Godo <Mandy.Godo@rotorualc.nz>  
**Date:** 30/08/20 8:56 AM (GMT+12:00)  
**To:** Will Bamford <Will.Bamford@rotorualc.nz>, Stewart Brown <Stewart.Brown@rotorualc.nz>, Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>, 'Laszlo Kotan' <Laszlok@fibretube.co.nz>, 'Craig Wilson' <craigw@kilwell.co.nz>, Haley Farmer <Haley.Farmer@rotorualc.nz>, Rachel Green <Rachel.Green@rotorualc.nz>, Nickie Hunter <Nickie.Hunter@rotorualc.nz>, Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Cc:** "'mark@kahu.nz'" <mark@kahu.nz>, Chad Hooton <Chad.Hooton@rotorualc.nz>, Justine Wilmoth <Justine.Wilmoth@rotorualc.nz>  
**Subject:** RE: Hemo Install Update 29 August

Morena Will,

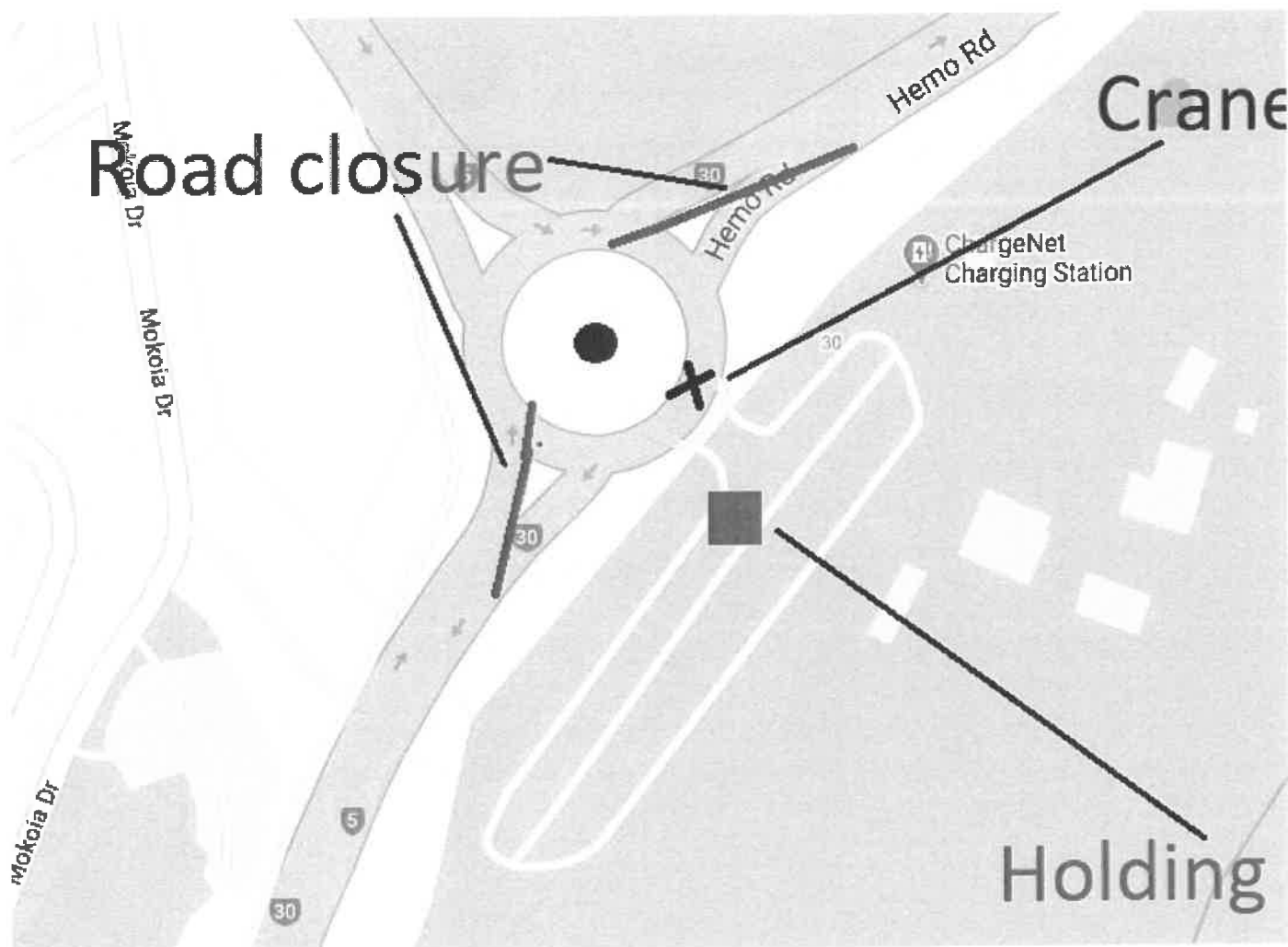
Just reading through this (potential) alternative install plan. The number of people involved from TMNZ's perspective is probably the same, and it seems TM5 to TM8 won't change, but of course set up for TM1-4 will. If it's decided the install is changing to a mix of chopper and crane, I assume Steve from TMNZ will need to submit an updated TMP plan.

I just want to ensure he has sufficient time to adjust his plan and submit. Is Monday after our meeting when this would happen? If earlier, please let me know.

Many thanks.



The idea is that this takes time pressure away and movement issues of a helicopter. It also means we won't have to fully close the roundabout – but we may need to have stop/go in place for a 1 – 5 hours while we crane sculpture in. This approach will change event and traffic management requirements.



**Chad** is going to flick through an email tomorrow with an install plan which he thinks is achievable, and associated costs. **Craig** (Kilwell) can then make a call if they want his involvement or not. Chad's understanding is he would be a sub-contractor to Kilwell but this needs confirmation.

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Happy to discuss (anytime).

Have a great weekend!

Cheers

Will

---

**Will Bamford** Kaea Hinonga – *Senior Project Manager* | *Ohu Haumarū - Project Management & Risk Office*

**Waea:** 07 351 8217 | **Waea Pūkoro:** 027 205 1794

**Īmera:** [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | **Ipurangi:** [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

**Taunga:** 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**ROTORUA**  
LAKES COUNCIL

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**From:** Will Bamford  
**Sent:** Monday, 31 August 2020 10:28 pm  
**To:** Vicki Cawte; Jocelyn Mikaere; jacky@shinepr : 'Corrie Balvert'; Mandy Godo; Haley Farmer; craigw@kilwell.co.nz; Marc Spijkerbosch; 'nick@tepuia.com'; Nickie Hunter; Stewart Brown; 'Claire Pedersen-Croll'; 'Chris Farnsworth'; 'Laszlo Kotan'; 'bopetmps@higgins.co.nz'; 'steve@trafficmanagementnz. ; 'Mark Law'; 'Chad Hooton'; Joshua Holmes; Rachel Green  
**Subject:** Hemo Installation Plan - 31st August  
**Attachments:** 200831\_Hemo Sculpture Installation Project Plan.pdf; 200831\_Hemo Sculpture Installation Project Plan.docx

Tēnā koutou

How are you all?

If you don't know me, I am Will. I am with RLC and am assisting with the Hemo Sculpture Installation Project. I know there has been a few copies of the installation plan floating about, but please attached the most recent (and hopefully final) version. Word and PDF versions are identical.

If we can get TMP approval, weather permitting, we are aiming to fly the helixes to the Te Puia Car Park this Sunday 6th Sept. And either install with the crane that day, or in the week following. Full details are in the plan.

Please let me know if you have any queries.

Cheers

Will

---

**Will Bamford** Kaea Hinonga – Senior Project Manager | *Ohu Haumarū* - Project Management & Risk Office

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**ROTORUA**  
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Once we have people assigned to have those conversations we can start to confirm timing to get the information out to these stakeholders.

FYI media and general public aren't part of the list as I have that covered in my other documentation and I will get input from Jacky, Claire and Corrie.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

**P:** 07 351 8044 | **M:** 027 937 4606

**E:** vicki.cawte@rotorualc.nz | **W:** rotorualakescouncil.nz

**A:** 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**ROTORUA**  
LAKES COUNCIL

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### Core stakeholders

Who	What	Responsible	Completed
Project partners – Kilwell, NZTA, Te Puia	Meeting – Mon 31 August Email updates – daily	Vicki	
Elected members	O&M meet agenda – August Update from CE office – July Heads up – Mon 31 August	Jocelyn/Craig T Vicki	
Council executive team	Heads up Face to face update	Vicki Jocelyn	
Project team - Kilwell - Kahu (Mark Law) - RLC - NZ Traffic Management - VR Security	Daily email updates Meetings	Will Vicki	

### Key Stakeholders

Who	What	Responsible	Completed
Public Arts Trust	Phone call + Email	Kim McGrath	
Fire & Emergency	Phone call + Email		
St John	Phone call + Email		
Police	Phone call + Email		
Bay of Plenty Regional Council	Phone call + Email		
Ritchies	Phone call + Email		
AA	Phone call + Email		
Heavy Haulage Association	Phone call + Email		
Fulton Hogan	Phone call + Email		
Coastguard	Phone call + Email		
Airport			
Worksafe	Phone call + Email		
Iwi/hapū	Network engagement	Kingi Biddle	

### Internal

Who	What	Responsible	Completed
Customer Centre	Info provided	Vicki	
Regulatory (noise)	Info provided	Vicki	
Animal control Pound	Info provided	Vicki	
Photographer/drone pilot	Meeting/Email	Vicki	

### Funders

Who	What	Responsible	Completed
Red Stag Timber Limited	Phone call	Marc S	
NZTA	Covered in project team	N/A	
Rotorua Community Arts Trust	Phone call	Marc S	
Rotorua Trust	Phone call	Marc S	
Lion Foundation	Phone call	Marc S	
Infinity Foundation	Phone call	Marc S	
Rotorua Public Arts Trust	Phone call	Kim McGrath	

**Affected neighbours**

<b>Who</b>	<b>What</b>	<b>Responsible</b>	<b>Completed</b>
Regency Park Te Ngae	Face to face visit + Letter drop		
Bupa retirement Te Ngae	Phone call to reception		
Piako	Face to face	Craig W/Laslo	
Hancock forest	Phone call/face to face		
Mercury	Phone call/face to face		
Toi ohomai	Phone call/face to face		
Pony club	Phone call		
Golf club	Phone call		
Thermal motorcamp	Phone call/face to face		
Vaughan road – traffic stop	Letter drop		

**SH5/SH30 – potential road users**

<b>Who</b>	<b>What</b>	<b>Responsible</b>	<b>Completed</b>
Youth justice facility	Phone call		
Landfill waste management	Phone call		
Smart Environmental	Phone call		
Mountain Bike Rotorua	Phone call		
Red Stag mill	Phone call		
Fonterra	Phone call		

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**From:** Will Bamford  
**Sent:** Tuesday, 1 September 2020 11:14 AM  
**To:** Craig Wilson; Laszlo Kotan  
**Cc:** Stewart Brown; Vicki Cawte; Haley Farmer  
**Subject:** Hemo Sculpture - WorkSafe

Hi Laz

Hope you're all good.

You'll have this in hand but thinking about H&S, the only WorkSafe notification would be if there's a risk of falling 5m or more. Which I'm guessing there would be for undoing the guy ropes, etc. From memory they need 24 hours' notice and it's an online form.

Let me know if I can help.

Cheers

Will

---

**Will Bamford** Kaea Hinonga – Senior Project Manager | *Ohu Haumarū* - Project Management & Risk  
Office

Waea: 07 351 8217 | Waea Pūkoro: 027 205 1794

Īmera: [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | Ipurangi: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

Taunga: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

---

**ROTORUA**  
LAKES COUNCIL



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**From:** Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Sent:** Wednesday, 2 September 2020 10:16 am  
**To:** Will Bamford  
**Cc:** Craig Wilson; David Cass  
**Subject:** JSA for HEMO sculpture installation  
**Attachments:** Hemo sculpture installation JSA.pdf

Hi Will

Sorry, I meant to send it yesterday. JSA is attached.  
I did notify WorkSafe about the use of scissor lift above 5 metres.

Kind Regards,  
Laz

Laszlo Kotan  
Factory Manager  
Kilwell Fibretube

p: +64 (0)7 345 9093, ext 802 | m: +64 (0)21 183 1203  
f: +64 (0)7 345 5149 | e: [laszlok@fibretube.co.nz](mailto:laszlok@fibretube.co.nz)  
w: [www.kilwellfibretube.co.nz](http://www.kilwellfibretube.co.nz) | f: [facebook.com/KilwellFibretube](https://www.facebook.com/KilwellFibretube)  
490 Te Ngae Road, Rotorua 3010 | Private Bag 3033, Rotorua 3046, New Zealand

**KILWELL FIBRETUBE**  
Composite Innovation

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If you are not the intended recipient, any disclosure, copying, distribution or any action taken or omitted to be taken in reliance on it is prohibited.







<Claire.Pedersen-Croll@nzta.govt.nz>; 'Corrie Balvert' <Corrie.Balvert@nzta.govt.nz>; Nick Dallimore <nick@tepuia.com>

**Subject:** FW: Father's Day FunQuest to get families in the forest for a giant treasure hunt

Kia ora koutou

This is the event that Jacky references in her email – just so we are all aware that it is happening this Sunday.

It looks like timing is from 9.30am – we are hoping to have the heli part of the install done by that point right?

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

**ROTORUA  
LAKES COUNCIL**

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**From:** jenha white

**Sent:** Monday, 31 August 2020 2:00 pm

**To:** Jenha White

**Subject:** Father's Day FunQuest to get families in the forest for a giant treasure hunt

31 August 2020

For immediate release

### **Father's Day FunQuest to get families in the forest for a giant treasure hunt**

Lynmore Playcentre is encouraging families to explore the Redwoods Forest on a giant treasure hunt with the Father's Day FunQuest fundraiser this weekend.

The Father's Day FunQuest will run this Sunday from 9:30am at the Redwoods, sponsored by Whittaker's with chocolate giveaways and raffles to win a Redwood Butchery meat pack or a Redwoods Treewalk Day & Night Family Combo to raise money for Lynmore Playcentre renovations.

Lynmore Playcentre and Orienteering Bay of Plenty member Erin Swanson has run major international orienteering events and has set up the Father's Day FunQuest using Orienteering Bay of Plenty's map of the Redwoods at a level suitable for young families.

“Doing an orienteering event like this is basically a giant treasure hunt,” she explains.

“I love seeing the excitement and joy on children's faces when they find a checkpoint and clip their clip card.”

“It's so much fun exploring the forest and the cool mystery activities we've created make it even more exciting.”

“Originally we wanted to run the event as an Easter Egg Hunt but unfortunately the first Covid-19 lock down prohibited this, so we'd love to see families getting out and having a fun adventure on Father's Day. We have organised the event to run safely under Covid-19 Level 2 restrictions.”

The FunQuest is rogaine style where people can choose which checkpoints (worth 10 points each) to visit, in their own order. There will be 20 checkpoints in total and it is recommended participants choose at least one checkpoint per child's year of age, e.g. 5 years old = 5 checkpoints.

There will also be four mystery activities (worth 20 points each) suitable for all ages - with harder options for older kids.

After participants have spent as long as they like enjoying the challenge, they can return to registration to get a special sticker and chocolate giveaway from Whittaker's.

The course can take between 30 minutes to an hour to complete based on what options are taken.

Lynmore Playcentre president Hayley Bowen said the fundraiser money will be used to renovate and upgrade the Playcentre kitchen, storage and office spaces.

"Cooking and baking is such a wonderful learning experience and our tamariki love it, so to have a functional kitchen that is safe, inclusive and inviting is the end goal.

"Playcentre allows parents to stop doing jobs they would normally be doing at home and lets them focus on spending a morning supporting, encouraging, and best of all playing with their children in a fun, child-led learning environment.

"A space like the kitchen is really popular with parents to engage with children for activities such as making slime, playdough, baking treats, cooking food for morning tea, preparing fruit and vegetables from the garden and more.

"We use all our kitchen scraps for compost and worm farms, which then go in our garden. The produce from the garden is then used in our cooking as well, showing children the cycle of food we eat in a wider context.

"We are excited to have a functional kitchen space in the future which will encourage more of this activity and positive learning."

ENDS

Media contact:

Jenha Phillips  
027 705 7005  
[jenhawwhite@gmail.com](mailto:jenhawwhite@gmail.com)

### **More information:**

#### **Father's Day FunQuest**

**Date:** Sunday 6 September

**Time:** Start any time from 9.30am, finishing by 11.30am. Course will take 30mins to an hour to complete

**Location:** Rotorua Redwoods Forest

**Cost:** \$10 per child, \$20 maximum per family

**Registration:** turn up on the day

**Prizes:** sponsored by Whittaker's chocolate

**Ages:** For families with children up to 12 years old. It is an easy access event for participants who have children in front packs, buggies etc. Any child that can walk can give it a go.

**Website:** see more info here - [tinyurl.com/FDQuest](https://tinyurl.com/FDQuest)

**About:** This is a fundraising event for Lynmore Playcentre run by playcentre parents.

### **Covid-19 Level 2 precautions**

The Father's Day FunQuest event will be going ahead under Alert Level 2. Careful consideration has been given to enabling families to still get out and enjoy our wonderful Redwoods Forest, while minimising the risk of Covid-19 transmission and keeping people safe.

- Anyone who is unwell or who should be self-isolating should not attend the event.
- All participants will need to socially distance by at least 2 metres from other competitors - registration and the mystery activities have been designed to allow this to happen.
- Attendees will be recorded to ensure contact tracing can happen if necessary.
- We ask participants to use the hand sanitizer provided.

### **Lynmore Playcentre**

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---

**From:** Vicki Cawte  
**Sent:** Wednesday, 2 September 2020 12:49 PM  
**To:** 'Craig Wilson'; Mandy Godo; Stewart Brown; Marc Spijkerbosch; Laszlo Kotan; Haley Farmer; Rachel Green; Nickie Hunter; 'Claire Pedersen-Croll'; 'Corrie Balvert'; Nick Dallimore  
**Subject:** RE: Father's Day FunQuest to get families in the forest for a giant treasure hunt

Thanks Craig

Also one thing to note is that this event is taking place at the Redwoods side of the forest – not the Waipa side.

People from the majority of Rotorua (excluding anyone who lives in our southern rural areas) will be able to get to the Redwoods without having to go near the Hemo roundabout.

Only consideration is people who could choose to try and ride through the roundabout but security can direct them via the alternate route Sophia St, McIntyre Ave to Sala Street and into the forest.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

**ROTORUA**  
LAKES COUNCIL

---

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---

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Wednesday, 2 September 2020 12:44 pm  
**To:** Mandy Godo <Mandy.Godo@rotorualc.nz>; Vicki Cawte <Vicki.Cawte@rotorualc.nz>; Stewart Brown <Stewart.Brown@rotorualc.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; Laszlo Kotan <Laszlok@fibretube.co.nz>; Haley Farmer ; Rachel Green ; Nickie Hunter ; 'Claire Pedersen-Croll' <Claire.Pedersen-Croll@nzta.govt.nz>; 'Corrie Balvert' <Corrie.Balvert@nzta.govt.nz>; Nick Dallimore <nick@tepuia.com>  
**Subject:** RE: Father's Day FunQuest to get families in the forest for a giant treasure hunt

Hi,

I will let Will confirm – but the Chopper work should be finished by 7.30am (8am at the latest). The plan is to move the 1<sup>st</sup> Helix into place while the 2<sup>nd</sup> is being flown to side.

However, in worst case, there is a fall back and we are prepared to store both (ie we have ropes, strops and concrete blocks in place ) for keeping them both tied down before beginning the crane install.

Vicki – I will talk to Piako and confirme they are aware of this Sunday for install – this afternoon.

Regards  
Craig



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**From:** jenha white <  
**Sent:** Monday, 31 August 2020 2:00 pm  
**To:** Jenha White  
**Subject:** Father's Day FunQuest to get families in the forest for a giant treasure hunt

31 August 2020  
For immediate release

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ENDS

Media contact:

Jenha Phillips

### **More information:**

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---

**From:** Will Bamford  
**Sent:** Wednesday, 2 September 2020 2:01 pm  
**To:** 'Nick Dallimore'; Laszlo Kotan  
**Cc:** Craig Wilson  
**Subject:** RE: Hemo Installation Plan - 31st August

Hi Nick

This is in Kilwell's court. At this stage I think cones, but we've encouraged use of mesh fencing. This can be sorted out on the day of install as required.

Cheers

Will

**Will Bamford** Kaea Hinonga – Senior Project Manager | *Ohu Haumaru - Project Management & Risk Office*  
07 351 8217 | 027 205 1794 | [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

---

**From:** Nick Dallimore <[nick@tepuia.com](mailto:nick@tepuia.com)>  
**Sent:** Wednesday, 2 September 2020 7:38 am  
**To:** Will Bamford <[Will.Bamford@rotorualc.nz](mailto:Will.Bamford@rotorualc.nz)>  
**Subject:** RE: Hemo Installation Plan - 31st August

Kia ora Will,

Just checking – how are we securing the inside of the roundabout during installation and/or the sculpture work site during the following week?

Nga mihi

Nick

---

**From:** Will Bamford <[Will.Bamford@rotorualc.nz](mailto:Will.Bamford@rotorualc.nz)>  
**Sent:** Tuesday, 1 September 2020 10:49 AM  
**To:** Nick Dallimore <[nick@tepuia.com](mailto:nick@tepuia.com)>  
**Cc:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>; Laszlo Kotan <[Laszlok@fibretube.co.nz](mailto:Laszlok@fibretube.co.nz)>; Stewart Brown <[Stewart.Brown@rotorualc.nz](mailto:Stewart.Brown@rotorualc.nz)>; Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Subject:** RE: Hemo Installation Plan - 31st August

Kia ora Nick

This is awesome. Thank you so much.

Will be in touch

Will

**Will Bamford** Kaea Hinonga – Senior Project Manager | *Ohu Haumaru - Project Management & Risk Office*  
07 351 8217 | 027 205 1794 | [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

**From:** Nick Dallimore <[nick@tepuia.com](mailto:nick@tepuia.com)>  
**Sent:** Tuesday, 1 September 2020 8:45 am  
**To:** Will Bamford <[Will.Bamford@rotorualc.nz](mailto:Will.Bamford@rotorualc.nz)>  
**Cc:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>; Laszlo Kotan <[Laszlok@fibretube.co.nz](mailto:Laszlok@fibretube.co.nz)>; Stewart Brown <[Stewart.Brown@rotorualc.nz](mailto:Stewart.Brown@rotorualc.nz)>  
**Subject:** RE: Hemo Installation Plan - 31st August

Thanks Will,

Nice work interpreting the meeting so quickly. Just from our end I can confirm that;

1. Once marked out – I will organise the placement of the two 20ft containers for tie down points in our car park. (at our cost)
2. If we decide to move / can move the sculpture the day(s) before we will organise through WatchDog Security a Static Guard and the temporary fencing to enclose the containers. (at our cost)

(due to the day light operating requirements for the helicopter I still believe flying the Sculpture in ‘the day before’ enables us to have an earlier start with the crane and less impact on the traffic)

3. We have some portable generators that could be borrowed for powering tools on site if this is useful
4. We have ply sheets and “other stuff” here in our Maintenance Area that is available as required.

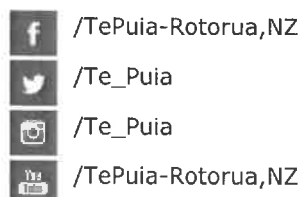
Let me know if I have missed anything from our end.....


Nga mihi

Nick

**Nick Dallimore**  
GM OPERATIONS & SITE DEVELOPMENT

**D** +64 7 343 1872  
**M** +64 27 2011 536  
**E** [nick@tepuia.com](mailto:nick@tepuia.com)  
**W** [www.tepuia.com](http://www.tepuia.com)



 HEMO ROAD, P.O. BOX 334, ROTORUA, 3040 NEW ZEALAND [ex}



**From:** Will Bamford <[Will.Bamford@rotorualc.nz](mailto:Will.Bamford@rotorualc.nz)>  
**Sent:** Monday, 31 August 2020 10:28 PM

To: Vicki Cawte <Vicki.Cawte@rotorualc.nz>; Jocelyn Mikaere <Jocelyn.Mikaere@rotorualc.nz>;  
jacky@shinepr. 'Corrie Balvert' <Corrie.Balvert@nzta.govt.nz>; Mandy Godo ;  
Haley Farmer ; craigw@kilwell.co.nz; Marc Spijkerbosch  
<Marc.Spijkerbosch@rotorualc.nz>; Nick Dallimore <nick@tepuia.com>; Nickie Hunter  
; Stewart Brown <Stewart.Brown@rotorualc.nz>; 'Claire Pedersen-Croll'  
<Claire.Pedersen-Croll@nzta.govt.nz>; 'Chris Farnsworth' <Chris.Farnsworth@nzta.govt.nz>; 'Laszlo Kotan'  
<Laszlok@fibretube.co.nz>; 'bopetmps@higgins.co.nz' <bopetmps@higgins.co.nz>;  
'steve@trafficmanagementnz.co.nz' ; 'Mark Law' ; 'Chad  
Hooton' ; Joshua Holmes ; Rachel Green

**Subject:** Hemo Installation Plan - 31st August

Tēnā koutou

How are you all?

If you don't know me, I am Will. I am with RLC and am assisting with the Hemo Sculpture Installation Project. I know there has been a few copies of the installation plan floating about, but please attached the most recent (and hopefully final) version. Word and PDF versions are identical.

If we can get TMP approval, weather permitting, we are aiming to fly the helixes to the Te Puia Car Park this Sunday 6th Sept. And either install with the crane that day, or in the week following. Full details are in the plan.

Please let me know if you have any queries.

Cheers

Will

---

**Will Bamford** Kaea Hinonga – Senior Project Manager | *Ohu Haumarū* - Project Management & Risk  
Office

Waea: 07 351 8217 | Waea Pūkoro: 027 205 1794

Īmera: [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | Ipurangi: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

Taunga: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

---

**ROTORUA**  
LAKES COUNCIL



---

**From:** Vicki Cawte  
**Sent:** Wednesday, 2 September 2020 3:56 PM  
**To:** craigw@kilwell.co.nz; Laszlo Kotan  
**Subject:** comms requirements

Kia ora guys

Sorry I know this will probably be way down the list of priorities but I need to get a hold of some info and some of your imagery/footage to help with all the comms that I'm prepping for the weekend.

Charlotte also needs some footage to finish of the video for Kilwell's part of the story.

Do you have time for me to come out and pick your brains? Maybe I can sit down with Will and get the info to save either of you having to do it?

Let me know what works.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

**P:** 07 351 8044 | **M:** 027 937 4606

**E:** vicki.cawte@rotorualc.nz | **W:** rotorualakescouncil.nz

**A:** 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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LAKES COUNCIL

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Wednesday, 2 September 2020 4:00 PM  
**To:** Vicki Cawte; Laszlo Kotan  
**Subject:** RE: comms requirements

Have time between 1pm and 3 tomorrow?

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Wednesday, 2 September 2020 3:56 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>; Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Subject:** comms requirements

Kia ora guys

Sorry I know this will probably be way down the list of priorities but I need to get a hold of some info and some of your imagery/footage to help with all the comms that I'm prepping for the weekend.

Charlotte also needs some footage to finish of the video for Kilwell's part of the story.

Do you have time for me to come out and pick your brains? Maybe I can sit down with Will and get the info to save either of you having to do it?

Let me know what works.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Wednesday, 2 September 2020 4:30 pm  
**To:** Will Bamford; Laszlo Kotan; Fred Shilton  
**Cc:** Stewart Brown; Marc Spijkerbosch; 'Chris Farnsworth'; Haley Farmer  
**Subject:** RE: Hemo Sculpture - producer statement  
**Attachments:** GU6706 - PS1 - GU6706 Hemo Gorge Sculpture Design - Gurit APAC RevA.pdf; GU6706\_03.zip

Hi All,

I have attached the PS1 Certificate from Gurit as well as an Zipped file of Project Report from Gurit – we have loads more but can only include so many on an email as they tend to be chunky reports.

Regards  
Craig

**From:** Will Bamford <Will.Bamford@rotorualc.nz>  
**Sent:** Wednesday, 2 September 2020 2:31 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>; Laszlo Kotan <Laszlok@fibretube.co.nz>; Fred Shilton <fred.shilton@opus.co.nz>  
**Cc:** Stewart Brown <Stewart.Brown@rotorualc.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; 'Chris Farnsworth' <Chris.Farnsworth@nzta.govt.nz>; Haley Farmer <Haley.Farmer@rotorualc.nz>  
**Subject:** Hemo Sculpture - producer statement

Hi Craig and Laz

How's it going?

Just spoke with Chris from NZTA. Can you please send us a copy of all the producer statements/engineer review documents for the sculpture? Their structural team are after them.

**Fred**, can you please flick through any producer statements for the plinth?

Please let me know if you have any queries.

Will

---

**Will Bamford** Kaea Hinonga – Senior Project Manager | **Ohu Haumarū** - Project Management & Risk Office

Waea: 07 351 8217 | Waea Pūkoro: 027 205 1794

Īmera: [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | Ipurangi: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

Taunga: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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## Producer Statement – PS1 – Design

**ISSUED BY:** GURIT (ASIA PACIFIC) LTD

**TO:** Kilwell Fibretube Limited

**TO BE SUPPLIED TO:** Rotorua District Council

**IN RESPECT OF:** Te Ahi Tupua, 12m CFRP spiral sculpture

**AT:** Hemo gorge roundabout, Intersection of Hemo Rd (SH30) and Old Taupo Rd (SH5), Rotorua

Gurit (Asia Pacific) Limited has provided engineering design services in respect of the requirements of Clauses B1 & B2 of the New Zealand Building Code for

All  Part Only as specified – (CFRP spiral sculpture)

of the proposed building work.

This design has been prepared in accordance with:

- Documents issued by the Ministry of Business Innovation & Employment
- Alternative Solution as per attached schedule:

-GU6706-6001 Rev B Hemo Gorge Sculpture Design Basis Report.pdf  
-GU6706-6002 Rev A Hemo Gorge Sculpture Design Report.pdf  
-GU6706-0000\_RevA Material Properties.dwg  
-GU6706-1001\_RevA Sculpture Laminate.dwg  
-GU6706-1002\_RevA Tubes Mounting Hardware.dwg  
-GU6706-1006\_RevA Sculpture Laminate Details.dwg  
-GU6706-2001\_RevA Chevrons and Art Panels Layout.dwg

Martin Hannon  
BEng(Hons) CPEng IntPE(NZ)  
CMEngNZ MRINA  
Senior Design Engineer

Gurit (Asia Pacific) Ltd  
11 John Glenn Avenue, Rosedale 0632  
Private Box 302-191,  
North Harbour, 0751  
Auckland, New Zealand

T +64 (0) 9 415 4674  
F +64 (0) 9 415 7262  
martin.hannon@gurit.com

[www.gurit.com](http://www.gurit.com)

The proposed building work covered by this producer statement design is described in the drawings referenced below, together with the specifications and other documents set out in the schedule attached to this statement:

Drawing Title:	Sculpture Laminate Tubes Mounting Hardware Sculpture Laminate Details Chevrons and Art panels Layout	Drawing Numbers:	GU6706-1001 GU6706-1002 GU6706-1006 GU6706-2001
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The producer statement is subject to:

- Site verifications of the following design assumptions:
  - None
- All proprietary products meeting their performance specification requirements
- Correct installation process is followed

I believe on reasonable grounds that the proposed building work, will comply with the relevant provisions of the New Zealand Building Code if constructed in accordance with the drawings, specifications and other documents provided or listed with this statement and that the persons who have undertaken the design have the necessary competency to do so.

**SIGNED BY:** Martin Hannon  
**ON BEHALF OF:** GURIT (ASIA PACIFIC) LTD  
**DATE:** 7<sup>th</sup> June 2019



Martin Hannon  
BEng(Hons) CPEng IntPE(NZ)  
CMEngNZ MRINA  
Senior Design Engineer

Gurit (Asia Pacific) Ltd  
11 John Glenn Avenue, Rosedale 0632  
Private Box 302-191,  
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Auckland, New Zealand

T +64 (0) 9 415 4874  
F +64 (0) 9 415 7262  
martin.hannon@gurit.com

[www.gurit.com](http://www.gurit.com)

---

**From:** Vicki Cawte  
**Sent:** Wednesday, 2 September 2020 5:26 PM  
**To:** Will Bamford; Stewart Brown; Marc Spijkerbosch; 'Laszlo Kotan'; 'Craig Wilson'; Haley Farmer; Rachel Green; Nickie Hunter; Mandy Godo; Jocelyn Mikaere; 'Nick Dallimore'; 'Chad Hooton'  
**Cc:** Justine Wilmoth  
**Subject:** RE: Hemo Sculpture Installation Update 5pm 2nd Sept

You have the patience of a saint Will!

Just further to this, with the plan being unconfirmed at this stage the public notice hasn't gone out.

I'm confident we got through notifying 99% of our stakeholders today. There's just a couple I need to check on. Thanks everyone for helping out with that and making all the phone calls/doing visits.

I've drafted two public notices depending on the outcome that's decided. Once the decision is made and the public notice is approved by each partner, we will get it out to the project team and partners, stakeholders and the community.

Have a nice evening everyone.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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---

**From:** Will Bamford <Will.Bamford@rotorualc.nz>  
**Sent:** Wednesday, 2 September 2020 5:02 pm  
**To:** Stewart Brown <Stewart.Brown@rotorualc.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; 'Laszlo Kotan' <Laszlok@fibretube.co.nz>; 'Craig Wilson' <craigw@kilwell.co.nz>; Haley Farmer  
Rachel Green · Nickie Hunter  
Vicki Cawte <Vicki.Cawte@rotorualc.nz>; Mandy Godo  
; Jocelyn Mikaere <Jocelyn.Mikaere@rotorualc.nz>; 'Nick Dallimore'  
'Chad Hooton'  
**Cc:** Justine Wilmoth <Justine.Wilmoth@rotorualc.nz>  
**Subject:** Hemo Sculpture Installation Update 5pm 2nd Sept

Tēnā koutou

Kei te pēhea koe?

The Traffic Management Plan (TMP) for the install is yet to be submitted by TMNZ to NZTA. After spending half the day on the phone, it sounds like NZTA will be looking at giving TMP approval tomorrow. At this stage, it is likely to be in one of the following forms:

1. Can do both the flying and crane mahi on morning of Sunday 6th or the following weekend;
2. Fly helixes in morning Sunday 6th and then crane work from about 7:30pm that evening. They will also consider daytime works for Monday 7th. Or both components the weekend 12th/13th.

They may come up with other options, it seems to change everytime I answer the phone!

I'll update you as soon as I can.

Thanks for everyones' help and have a good evening,

Will

---

**Will Bamford** Kaea Hinonga – *Senior Project Manager* | *Ohu Haumarū - Project Management & Risk Office*

**Waea:** 07 351 8217 | **Waea Pūkoro:** 027 205 1794

**Īmera:** [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | **Ipurangi:** [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

**Taunga:** 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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I'll update you as soon as I can.

Thanks for everyones' help and have a good evening,

Will

---

**Will Bamford** Kaea Hinonga – *Senior Project Manager* | *Ohu Haumarū - Project Management & Risk Office*

**Waea:** 07 351 8217 | **Waea Pūkoro:** 027 205 1794

**Īmera:** [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | **Ipurangi:** [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

**Taunga:** 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

---

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I'll update you as soon as I can.

Thanks for everyone's help and have a good evening,

Will

---

**Will Bamford** Kaea Hinonga – *Senior Project Manager* | *Ohu Haumarū - Project Management & Risk Office*

Waea: 07 351 8217 | Waea Pūkoro: 027 205 1794

Īmera: [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | Ipurangi: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

Taunga: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

---

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---

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Thursday, 3 September 2020 8:16 am  
**To:** Will Bamford  
**Subject:** RE: Hemo Gorge installation info

Hi Will,

Signed copies attached.

Just a couple I crossed out which are related to the costs for removal and upkeep which are the council responsibilities not ours.

Regards  
Craig

---

**From:** Will Bamford <Will.Bamford@rotorualc.nz>  
**Sent:** Wednesday, 2 September 2020 4:33 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** FW: Hemo Gorge installation info

FYI

**Will Bamford** *Kaea Hinonga – Senior Project Manager | Ohu Haumarū - Project Management & Risk Office*  
[07 351 8217](tel:073518217) | [027 205 1794](tel:0272051794) | [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

---

**From:** Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>  
**Sent:** Friday, 28 August 2020 9:04 am  
**To:** Craig Wilson (<craigw@kilwell.co.nz> <craigw@kilwell.co.nz>)  
**Cc:** Will Bamford <Will.Bamford@rotorualc.nz>; Stewart Brown <Stewart.Brown@rotorualc.nz>; 'bopetmps@higgins.co.nz' <  
**Subject:** FW: Hemo Gorge installation info

Morning Craig  
Things lining up well for install on the 6<sup>th</sup> - attached just needs to be filled in on behalf Kilwell.  
We'll need to move fairly quickly on this.  
Perhaps if you could then send directly through to Josh at Higgins (cc'd, as below).

Let me know if I can help at all – huge thanks in advance.  
Cheers  
Marc

**Marc Spijkerbosch** Community Arts Advisor  
P: 07 351 8154 | E: [marc.spijkerbosch@rotorualc.nz](mailto:marc.spijkerbosch@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

---

**From:** BOPE Tmps (Higgins)  
**Sent:** Thursday, 27 August 2020 3:53 PM  
**To:** Will Bamford <Will.Bamford@rotorualc.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>  
**Cc:** Frankie Evans  
**Subject:** RE: Hemo Gorge installation info

Good afternoon Marc/Will,

Thanks for making contact and sending through the updated information.

I have uploaded these to the current CAR application for the install (ref: E693589).  
The Higgins contact details within the project plan has been updated to include myself.

I am awaiting amendment to the Traffic Management Plan from Bryan Duncan at WSP, who made the original application and TMP design.

Please see attached Agreement to work on State Highway forms. These are a standard requirement of approval for works outside of utility operation or Waka Kotahi specific projects. Please complete these in full and return to me.

Thanks,

**Josh Coombes**

Traffic Management Coordinator

**Higgins** *showing the way*

Higgins Contractors Limited

334 Te Ngae Road DDI: 07 349 3804

PO Box 10167 T: +64 27 297 1220

Rotorua 3046 [www.higgins.co.nz](http://www.higgins.co.nz)

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**From:** Will Bamford <[Will.Bamford@rotorualc.nz](mailto:Will.Bamford@rotorualc.nz)>

**Sent:** Thursday, 27 August 2020 3:14 PM

**To:** Marc Spijkerbosch <[Marc.Spijkerbosch@rotorualc.nz](mailto:Marc.Spijkerbosch@rotorualc.nz)>; BOPE Tmps (Higgins) <[bopetmps@higgins.co.nz](mailto:bopetmps@higgins.co.nz)>

**Subject:** RE: Hemo Gorge installation info

Thanks Mark

Josh, if you have any queries specifically around the install methodology – feel free to call me directly (027 205 1794).

Cheers

Will

**Will Bamford** Kaea Hinonga – Senior Project Manager | **Ohu Haumarū** - Project Management & Risk Office  
[07 351 8217](tel:073518217) | [027 205 1794](tel:0272051794) | [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

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**From:** Marc Spijkerbosch <[Marc.Spijkerbosch@rotorualc.nz](mailto:Marc.Spijkerbosch@rotorualc.nz)>

**Sent:** Thursday, 27 August 2020 3:03 pm

**To:** 'bopetmps@higgins.co.nz'

**Cc:** Will Bamford <[Will.Bamford@rotorualc.nz](mailto:Will.Bamford@rotorualc.nz)>

**Subject:** Hemo Gorge installation info

Hi Josh, good to talk just now and get up to speed on things.

Have attached the updated installation info I hope will get us over the line.

Let me know asap if there's anything further you need from us - I've cc'd Will Bamford, he's our installation project lead and has invaluable operational experience in this area.

We all really appreciate your help with this.

Huge thanks

Marc

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**Marc Spijkerbosch** *Community Arts Advisor*

P: 07 351 8154

E: [marc.spijkerbosch@rotorualc.nz](mailto:marc.spijkerbosch@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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## NOTICE OF CONDITIONS FOR WORKS ON STATE HIGHWAY

Applicant:

Address:

Owner of the Work or their authorised agent (Owner):

State Highway:

Route Position:

Reference:

Location/Property:

Description of Work:

Plans:

**PURSUANT** to Sections 51, 52 and 54 of the Government Roading Powers Act 1989 the consent of the New Zealand Transport Agency (the NZTA) is hereby given for the above works requested by you in your notification dated..... , as shown on your attached plan/s, subject to the following conditions and the *Code of Practice for Temporary Traffic Management*:

22. The NZTA shall not be liable for any costs, actions, demands, suits, damages and proceedings of any kind for any loss, damage or injury that may result from the works that are undertaken by or on behalf of the Owner of the utility service.
23. The Owner shall compensate the NZTA for any damage or costs incurred to State highway assets due to the work or for costs resulting from the removal of abandoned installations, structures, components or equipment that belong to the Owner.
24. The NZTA shall not be liable for loss or damage to the installed works due to damage to or loss of any road asset through any cause.
25. All of the civil engineering work shall meet with the approval of the NZTA State Highway Manager and the installation shall be laid more or less in the location shown on the attached plans. The exact location and level of all installations are to be made known and agreed before work commences.
26. At the discretion of the State Highway Manager, this agreement may or may not include a requirement for the Owner to provide a Contract Bond in favour of the NZTA or for the contractor to provide a Contract Bond in favour of the Owner, as a performance guarantee.
27. If requested, the Owner shall pay the reasonable costs of the NZTA and its consultants in connection with the processing of this notice and for the monitoring and auditing of the works.
28. Where the works affect an existing installation that belongs to the Owner, in the event of ambiguity or contradiction between the conditions herewith and any prior conditions or specifications relating to the installation, or to the Code of Practice for Temporary Traffic Management, the conditions contained herein shall take precedence.
29. A full copy of this Notice of Conditions shall be kept on site at all times during construction.
30. The Owner and/or their contractors, if when working on the State Highway are found not to be complying with the relevant conditions or specifications and/or does not have permission to be there, are liable to be instructed to leave the site by the NZTA State Highway Manager or his/her authorised representative.
31. Access to the site of the works from a motorway carriageway or motorway ramp, is not permitted without special permission of the State Highway Manager.
32. The works are to be available at all times for inspection by any person authorised by the NZTA State Highway Manager.

Initials:\_\_\_\_\_

33. The Owner shall repair road assets made defective as a result of the works, should such repairs become necessary in the opinion of the NZTA State Highway Manager or his/her authorised representative within twelve months of works completion. Remediation works shall be undertaken within two working days of being notified or as directed by the NZTA State Highway Manager.
34. Where the Owner fails to comply with any requirement under these conditions, the NZTA may arrange for the necessary work to be done and may recover any costs incurred.
35. After satisfactory completion of the works, the Owner shall give prior notification to the NZTA on each separate occasion of any subsequent maintenance works that may be required and if the works are located in or under a carriageway or road shoulder The NZTA reserves the right to re-assess the implications and either decline the application or impose new or amended conditions to protect the integrity of the State highway.
36. If, during a period of two years from the above date, the whole of or any part of the works are required to be temporarily or permanently relocated or protected to enable the construction of any NZTA works that appear on the NZTA's future works programme as at the date of execution of this consent, then it shall be done by the Owner at no cost to the NZTA.
37. Nothing in this Notice shall be construed to derogate from the rights of The NZTA to enter upon the areas occupied by the works for the purpose of installing, maintaining, repairing or removing any new or existing road or bridge assets over or under the works or for any other lawful purpose.
38. The requirements made with regard to construction methodology, reinstatement, materials used, compaction and surfacing shall be complied with, as set out in the Special Conditions attached.
39. All traffic control on state highways shall conform with the requirements in the latest version of the "*Code of Practice for Temporary Traffic Management*" published by the NZTA for all work falling within the State highway road reserve and this shall include activities falling outside the road reserve where such activities affect the normal operating conditions of the State Highway. The Owner shall produce an approved Traffic Management Plan (TMP) in accordance with Section A6 of the above-mentioned Code of Practice prior to the works commencing.
40. The Owner shall ensure that the work is carried out under the control of a warranted Site Traffic Management Supervisor (STMS) - Practising, and there shall be sufficient other people on duty specifically to control the flow of traffic through the site in accordance with the Traffic Management Plan while having resources within the State highway road reserve.
41. The NZTA's Traffic Management Co-ordinator shall be given two clear working days notice prior to commencing any work on the State highway. This notice, setting out the timeframes for the work to be undertaken, shall be given by facsimile to the NZTA Network Management Consultant together with a copy of the approved TMP and confirmation must be received that the programme does not conflict with other work and permission to proceed is granted, prior to commencement of any works.
42. The works shall be carried out in a way that minimises disruption to the flow of traffic. In compliance with the Code of Practice, the works affecting traffic flows shall be undertaken outside of peak traffic flow periods as indicated by flow estimations. If the proposed programme provided does not meet this requirement, a revised programme must be submitted. If the works change in any way from those proposed in the notification, the NZTA shall be informed prior to commencement of the changed works, and be provided with a revised proposed programme.
43. All works shall be completed in one continuous operation. Works shall not to be suspended for any period of time greater than 24 hours without the NZTA permission.
44. No work shall take place on or near State highways during, and one day either side of, a public holiday, or public holiday weekend.
45. Instructions concerning the use of traffic control measures from an officer of the police traffic safety branch, or any person authorised by the NZTA State Highway Manager, shall be complied with in addition to those stated in the Special Conditions.

Initials:\_\_\_\_\_

46. The Owner shall obtain at his/her cost all necessary approvals, consents and permits from all statutory, public or other authorities prior to commencing any work on the State highway and shall comply with all Regional and District Plans and applicable statutes, bylaws, regulations, approvals, permits and consents.
47. The Owner and/or their contractor shall not hold the NZTA liable for any of the costs incurred if the Owner receives an Environmental Infringement Notice. The Owner and/or their contractor shall ensure that their works comply with all relevant aspects of the Resource Management Act (1991) and subsequent amendments.
48. If necessary, a plan shall be produced for managing environmental effects such as construction noise, the discharge of contaminants, sediment or litter and this plan shall be made available upon request.
  - i. Special measures shall be employed to avoid or mitigate construction noise that may cause disruption to residents in the vicinity.
  - ii. The Owner and/or their contractor shall take extra precautions during any grouting operations to avoid contaminating waterways and stormwater drainage with grouting compound.
49. The Owner and/or their contractor shall be responsible for locating and protecting all underground services the location and/or depth of some of which may not be known and notwithstanding this fact it is the consent holder's responsibility at their own cost to repair any damage they may cause to any of these services.
50. All surplus excavated material shall be removed from the site and all surfaces disturbed by any of the work shall be restored to their original condition or better.
51. The Owner and/or their contractor shall be responsible for protecting and maintaining all NZTA signs and road furniture, including edge delineator posts, during the period of work and shall replace any items that become damaged or lost.
52. Where traffic safety facilities (signs, marker posts etc.) are removed in the course of the work these shall be re-erected to the proper standard prior to the removal of the temporary traffic controls required by these conditions.
53. The Owner shall keep an "As Built" set of drawings in their records showing the location of all of the utility service components of that they have information about or have uncovered. This record shall be available for inspection by the NZTA or their representative as and when the need arises.
54. All work undertaken by the Owner and/or their contractor working under this approval must comply with the requirements under the "Health and Safety in Employment Act 1992" and the "Health and Safety in Employment Regulations 1995", as amended.
55. All work undertaken by the Owner and/or his/her contractor working under this approval must comply with the Department of Labour Construction Act 1959 and Construction Regulations 1961, as amended, and any applicable industry codes of practice.
56. On completion of the works, the Owner and/or their contractors shall complete an "Advice of Completion of Work" form. The twelve month maintenance period during which the NZTA has the right to require the Owner to carry out repair work shall commence as from the date that the NZTA or its authorised representative have given signed acceptance that the work is complete.

In the absence of a written agreement from The NZTA for an extension, this agreement shall become invalid if the works do not commence within six months of the above date.

Initials:\_\_\_\_\_

## SCHEDULE TWO

### *GENERAL CONDITIONS*

1. All traffic control on state highways shall conform with the requirements in the latest version of the “*Code of Practice for Temporary Traffic Management*” published by the NZTA for all work falling within the State highway road reserve and this shall include activities falling outside the road reserve where such activities affect the normal operating conditions of the State highway. The Owner shall produce an approved Traffic Management Plan (TMP) in accordance with Section A6 of the above-mentioned Code of Practice prior to the works commencing.
2. The Owner shall ensure that the work is carried out under the control of a warranted Site Traffic Management Supervisor (STMS) - Practising, and there shall be sufficient other people on duty specifically to control the flow of traffic through the site in accordance with the Traffic Management Plan while having resources within the State highway road reserve.
3. The NZTA’s Traffic Management Co-ordinator shall be given two clear working days notice prior to commencing any work on the State highway. This notice, setting out the timeframes for the work to be undertaken, shall be given by facsimile to the NZTA Network Management Consultant together with a copy of the approved TMP and confirmation must be received that the programme does not conflict with other work and permission to proceed is granted, prior to commencement of any works.
4. The works shall be carried out in a way that minimises disruption to the flow of traffic. In compliance with the Code of Practice, the works affecting traffic flows shall be undertaken outside of peak traffic flow periods as indicated by flow estimations. If the proposed programme provided does not meet this requirement, a revised programme must be submitted. If the works change in any way from those proposed in the notification, the NZTA shall be informed prior to commencement of the changed works, and be provided with a revised proposed programme.
5. All works shall be completed in one continuous operation. Works shall not to be suspended for any period of time greater than 24 hours without NZTA permission.
6. The NZTA have in place a standard restriction for any company working on or near State highways, during, and one day either side of, a public holiday, or public holiday weekend.
7. Instructions concerning the use of traffic control measures from an officer of the police traffic safety branch, or any person authorised by the State Highway Manager, shall be complied with in addition to those stated in the Special Conditions.
8. Lane closures on the motorway carriageways shall not be permitted without the express permission of the State Highway Manager.
9. Access to the site of works shall not be permitted from the operating carriageway of the motorway without the express permission of the State Highway Manager.
10. The Owner and/or their contractor shall prevent visual distraction to motorway traffic. A sightscreen shall be erected at exposed work sites where safety barriers are not required in terms of the “*Code of Practice for Temporary Traffic Management*” or if the work zone safety barriers or existing guardrails do not provide sufficient visual screening. Sight screening in absences of safety barriers shall not fully block the view from the work area of any errant motorway vehicle to which workers may be vulnerable.
11. The Owner shall obtain at the Owner’s cost all necessary approvals, consents and permits from all statutory, public or other authorities prior to commencing any work on the State highway and shall comply with all Regional and District Plans and applicable statutes, bylaws, regulations, approvals, permits and consents.
12. The Owner and/or their contractor shall not hold the NZTA liable for any of the costs incurred if the Applicant receives an Environmental Infringement Notice. The Owner and/or their contractor shall ensure that their works comply with all relevant aspects of the Resource Management Act (1991) and subsequent amendments.

Initials:\_\_\_\_\_

13. A plan shall be produced for managing environmental effects such as construction noise, the discharge of contaminants, sediment or litter and this plan shall be made available upon request.
  - Special measures shall be employed to avoid or mitigate construction noise that may cause disruption to residents in the vicinity.
  - The Owner and/or their contractor shall take extra precautions during grouting operations to avoid contaminating waterways and stormwater drainage with grouting compound.
14. The Owner and/or their contractor shall be responsible for locating and protecting all underground services the location and/or depth of some of which may not be known and notwithstanding this fact it is the consent holder's responsibility at their own cost to repair any damage they may cause to any of these services.
15. All surplus excavated material shall be removed from the site and all surfaces disturbed by any of the work shall be restored to their original condition or better.
16. The Owner and/or their contractor shall be responsible for protecting and maintaining all NZTA signs and road furniture including edge delineator posts during the period of work and shall replace any items that become damaged or lost.
17. Where traffic safety facilities (signs, marker posts etc.) are removed in the course of the work these shall be re-erected to the proper standard prior to the removal of the temporary traffic controls required by these conditions.
18. The Owner shall keep an "As Built" set of drawings in their records showing the location of all of the utility service components of that they have installed. This record shall be available for inspection by the NZTA or their representative as and when the need arises.
19. All work undertaken by The Owner and/or their contractor working under this approval must comply with the requirements under the "Health and Safety in Employment Amendment Act 1992" and the "Health and Safety in Employment Regulations 1995".
20. On completion of the works, the Owner and/or their contractors shall complete an "Advice of Completion of Work" form. For the purposes of the NZTA's right to require the Owner to carry out repair work, the twelve month maintenance period shall commence as from the date that the works completion form is completed accurately and submitted to the NZTA and the NZTA has accepted that the work is complete.
21. All work undertaken by The Owner and/or their contractor working under this approval must comply with the Department of Labour Construction Act 1959 and Construction Regulations 1961, as amended and any applicable industry codes of practice.

Initials: \_\_\_\_\_



**Agreement as to Work on State Highway**

**DATE:**

**PARTIES:**

1. **The NEW ZEALAND TRANSPORT AGENCY**, a body corporate established under and by virtue of the Land Transport Management Amendment Act 2008 ("NZTA").
2. **And** the Body or Person requesting the works, being \_\_\_\_\_

**BACKGROUND:**

- A. NZTA has the sole powers of control for all purposes including construction and maintenance of all State highways pursuant to the provisions of the Government Roothing Powers Act 1989.
- B. \_\_\_\_\_ wishes to carry out certain work specified in the Schedule hereto which involves or affects a State highway ("the work").
- C. The consent of NZTA is required for the work and NZTA agrees to provide such consent on the conditions set out.

**TERMS OF AGREEMENT:**

1. IN consideration of the NZTA agreeing to the work, being done, \_\_\_\_\_ hereby agrees to indemnify the NZTA against all claims, losses, damages and costs incurred by the NZTA in relation to the work.
2. \_\_\_\_\_ hereby agrees to compensate the NZTA for damage to any State highway or structures on the State highway (including but not limited to bridges and safety barriers) incurred in relation to the work.
3. \_\_\_\_\_ agree to abide by all the conditions and specifications stated under this agreement and understand that any contravention of the agreement may result in the NZTA refusing further access to the State highway.

Signed for and on behalf of the )  
NEW ZEALAND TRANSPORT AGENCY )

Signed for and on behalf of  
\_\_\_\_\_

by \_\_\_\_\_  
State Highway Manager

by \_\_\_\_\_

# SCHEDULE (THE WORK INFORMATION)

**THE WORK:**

(Description of Work)

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**LOCATION:**

State Highway:

Route Position:

Address (House No):

---

---

---

**TIMING:**

Commencement Date:

Expected Duration:

---

---

**CONTRACTOR:**

Name:

Site Representatives Name:

Contact Numbers:

*day:*

*night:*

---

---

---

---

**RESURFACING CONTRACTOR:**

Name:

Contact Numbers:

*day:*

*night:*

---

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Initials:\_\_\_\_\_



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**From:** Vicki Cawte  
**Sent:** Thursday, 3 September 2020 3:51 PM  
**To:** 'Craig Wilson'  
**Subject:** RE: comms requirements  
**Attachments:** Hemo - looking south FINAL (consistently posted).jpg

Heya

Just spoke to our graphics team and they said there is no real word count. They just need to work with the images/content you have. So I'd say don't go overboard but they can always trim it if it's too much to fit in. Sorry not much of a help there.

Check out the picture attached (pretty cool) but they have put the signage around the edges with what they think it would look like. They have suggested doing it two-sided but I guess it just depends on how much content, and also how many pictures there are to show.

I'll book out a room here at work so I can grab that sound bite as well.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

**ROTORUA**  
**LAKES COUNCIL**

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**From:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Sent:** Thursday, 3 September 2020 3:33 pm  
**To:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Subject:** RE: comms requirements

Hi Vicki,

meant to ask – how much space/words etc do we have to write up both a company story and a manufacturing blurb.

Just working with Amanda on the company profile part

Also assume you want me to drop off the images tomorrow morning sometime? Let me know where/when.

Cheers  
Craig

---

**From:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Sent:** Wednesday, 2 September 2020 4:28 PM  
**To:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>; Laszlo Kotan <[Laszlok@fibretube.co.nz](mailto:Laszlok@fibretube.co.nz)>  
**Subject:** RE: comms requirements

Yeah that will be fine – I'll work in with you guys.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Wilson <craigw@kilwell.co.nz>

**Sent:** Wednesday, 2 September 2020 4:00 pm

**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>; Laszlo Kotan <Laszlok@fibretube.co.nz>

**Subject:** RE: comms requirements

Have time between 1pm and 3 tomorrow?

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>

**Sent:** Wednesday, 2 September 2020 3:56 PM

**To:** Craig Wilson <craigw@kilwell.co.nz>; Laszlo Kotan <Laszlok@fibretube.co.nz>

**Subject:** comms requirements

Kia ora guys

Sorry I know this will probably be way down the list of priorities but I need to get a hold of some info and some of your imagery/footage to help with all the comms that I'm prepping for the weekend.

Charlotte also needs some footage to finish of the video for Kilwell's part of the story.

Do you have time for me to come out and pick your brains? Maybe I can sit down with Will and get the info to save either of you having to do it?

Let me know what works.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

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**From:** Will Bamford  
**Sent:** Thursday, 3 September 2020 5:33 PM  
**To:** Craig Wilson  
**Cc:** Laszlo Kotan; Vicki Cawte  
**Subject:** RE: Timings and Staffing

Hi Craig

This all makes sense and confirms our phone call earlier.

I'll keep all that in mind when discussing with NZTA. I agree with 10am cut off and all our points.

Talk tomorrow. I have a pre booked 9am to 10am meeting but available outside of that.

Will

Sent from my Samsung Galaxy smartphone.

----- Original message -----

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Date:** 3/09/20 5:28 PM (GMT+12:00)  
**To:** Will Bamford <Will.Bamford@rotorualc.nz>  
**Cc:** Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Subject:** Timings and Staffing

Hi Will,

Have talked with Laz, we are thinking we will need a cut-off of 10am tomorrow where we will need to make a call either way. If no NZTA approval by then we will need to cancel for this weekend and push out to next. We can let the Crane operator & Mark know – but assume you will confirm with Impel & all the others?

With regards Sunday install – the 4pm would have to be a finish time.

Just to confirm we are very concerned over leaving the inner Helix tied down on site for any length of time. Would prefer that if we have to delay to Monday that we also delay the flight in – is this an option from NZTA end?

Time between flight in and install needs to be as close together as possible to prevent any issues with the Inner Helix.

Lastly – can you confirm if you need any more volunteers – we have a number of staff who are keen if you end them to help with people control or any other roles.

I will be in the office tomorrow will around 10am and not leaving town till 4pm so fingers crossed.

Kind regards

Craig Wilson  
Chief Executive  
Kilwell Sports | Kilwell Fibretube

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**f:** +64 (0)7 345 5149 | **e:** [craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)  
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**w:** [www.kilwellfibretube.co.nz](http://www.kilwellfibretube.co.nz) | **f:** [facebook.com/KilwellFibretube](https://facebook.com/KilwellFibretube)  
490 Te Ngae Road, Rotorua 3010 | Private Bag 3033, Rotorua 3046, New Zealand



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**From:** Vicki Cawte  
**Sent:** Thursday, 3 September 2020 5:53 PM  
**To:** craigw@kilwell.co.nz; 'Corrie Balvert'; 'Claire Pedersen-Croll'; 'Jacky James'  
**Subject:** FAQs for feedback  
**Attachments:** FAQs - Te Ahi Tupua.docx

Kia ora everyone

I've been working on these FAQs for this project but keen to get everyone's feedback and proofing before I go any further. Obviously some may be a little out of date with the changes over the last couple of days.

Jacky I've left the design stuff blank because I know you're working on that.

If you can think of any more that I've missed please let me know.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

**P:** 07 351 8044 | **M:** 027 937 4606

**E:** vicki.cawte@rotorualc.nz | **W:** rotorualakescouncil.nz

**A:** 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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## **FAQs**

### **How will the sculpture be installed?**

A helicopter will transport Te Ahi Tupua in two pieces from Kilwell Fibretube to the carpark at Te Puia. Once each piece of the sculpture is set down at the carpark, a crane will lift it onto its plinth in the middle of the roundabout.

### **Why is a helicopter needed for transportation?**

A helicopter has always been the preferred form of transportation. Due to the size and shape of the sculpture, moving it using a truck would require significant road closures and movement of power lines. This would make the operation significantly longer and more likely to impact on the community. Using a helicopter means the sculpture can be moved to Hemo roundabout in a shorter period of time while avoiding most roads and residential areas.

### **Why was the installation method changed?**

Using a hybrid approach has provided more certainty and control over the installation. By using a crane to lower the sculpture onto its plinth, the ground crew can spend more time ensuring it is safely in place, and can communicate more effectively with each other while they are doing it.

### **Is there any more work to be done?**

The team from Kilwell Fibretube will need to complete the remaining connections between the inner and outer helices. This can only be done on site and is weather dependent. It will likely take a couple of weeks to complete. Once that work is finished, signage, lighting and the final embellishments from Te Puia I NZMACI need to be installed.

### **Why are we doing it now?**

The installation requires a specialist helicopter to transport the sculpture. The helicopter is available for a short period of time before it heads to other locations to assist with other operations and summer firefighting.

### **Is there any risk to houses or people under the flight path?**

The flight path avoids all residential areas and traffic management will be in place where it crosses three public roads. The helicopter flight will take place early in the morning reducing the risk of members of the public being under the flight path. The project team are working with an experienced pilot and ground crew to ensure the operation will go as smoothly and safely as possible.

### **Can people view the installation on site?**

The helicopter will drop the sculpture into the southern carpark at Te Puia. This area will be restricted to authorised personnel only. The installation area (Te Puia carpark and the inner areas of Hemo roundabout) will be a worksite and heavy machinery will be in operation. Traffic management will be in place to direct motorists through the roundabout however, we encourage the public to avoid these areas during installation to minimise traffic delays.

### **How long will the traffic delays be?**

Stop/go traffic management will be in place to direct motorists through the roundabout. There may be delays of up to 10 minutes.

### **Who is paying for the installation?**

Kilwell Fibretube is responsible for the installation of Te Ahi Tupua including costs.

### **Has the cost of the sculpture increased?**

Kilwell Fibretube is responsible for the construction of the sculpture. Council has not increased its contribution of \$388,000 since we last updated the community.

### **Is the sculpture safe? Will it be able to withstand the elements?**

Te Ahi Tupua has been constructed to specific certifications that are required for a Importance Level 2 structure. This means the sculpture needed to be able to withstand 175km winds (i.e. a grade 5 hurricane). During construction, Kilwell Fibretube worked with Scion Rotorua to test the strength of the sculpture and ensure it met the engineering certifications.

### **What about the safety of vehicles travelling through the roundabout?**

With any roadside artwork, it is expected that motorists follow road rules and drive responsibly to keep themselves and others safe. Roadside artwork is not unusual – in recent years Waka Kotahi and Bay of Plenty Regional Council worked together to install two large-scale artworks beside the Eastern-link from Rotorua to Mount Maunganui. According to Waka Kotahi NZ Transport Agency's Urban Design Guidelines for roundabouts landmark features (large scale public art, feature lightings etc.) can help wayfinding and enhance local identity. The guidelines also acknowledge that the central island is primarily a visual element. It should be designed to create a distinctive visual effect and require minimal maintenance. Within the guidelines it is stated that public art can be successfully integrated in the design of highway corridors to deliver a number of benefits including:

- creating a sense of arrival
- bolstering a community's identity and sense of pride
- helping integrate infrastructure elements into the wider environment
- integrating cultural heritage and values at the city's gateway

### **How tall is the sculpture?**

12m at the highest point.

### **Is Te Ahi Tupua the tallest/biggest 3D sculpture in the world?**

From our research, we have not found another sculpture that matches the size, shape and complexity of Te Ahi Tupua.

### **How long did it take to construct?**

3D printing began at Kilwell Fibretube in March 2018 and physical assembly started in April 2018. The team at Kilwell had to hand wrap all the material around the 3D printed skeleton. That is what made up the majority of the labour hours. The second helix was lifted into place in January 2020 with minor construction work completed in the months following. The actual construction timeframe is between 23 – 25 months.

### **How much material was used?**

- Approximately 63km of PLA filament – that's 630 rugby fields
- Xxxx sm of carbon fibre and fibre glass



### **What is it made of?**

The internal structure is made up of xxxxx interlocking 3D printed blocks. The blocks are made from Polyactic Acid (PLA), which is a thermoplastic that is often derived from renewable sources such as corn starch or sugar cane. Each block is unique like a fingerprint, and when connected, fit together to make long sections that gave the sculpture its skeleton.

The team at Kilwell Fibretube then had to spend months hand wrapping between 20 and 25 layers of carbon fibre and fibreglass material. After five layers, a vacuum suction process was used to draw epoxy resin through the material layers and then it was heated to cure the resin. The process was repeated until each section had the right amount of layers to achieve structural strength certification.

The sculpture was then painted using Nylac – a tinted clear epoxy based paint and coats of UV protection product to maintain the paint colour.

### **Why did you use carbon?**

Using carbon fibre and fibreglass meant the structure would be lightweight and very strong. It also allowed the manufacturers to achieve the curved shape.

### **What sort of maintenance is involved?**

Ongoing maintenance should be minimal. It will require cleaning which can be achieved using a water blaster and a cherry picker. Every 8 years or so it will require a coat of the clear UV protection product which helps to protect the colour of the sculpture.

### **Who is Kilwell Fibretube?**

Kilwell Sports Ltd is a third generation, privately-owned family business that has been manufacturing and distributing fishing tackle, hunting and outdoor related products from its Rotorua headquarters for almost 85 years. The Fibretube manufacturing division was started in 1968. Since then Kilwell Fibretube's continuous research and implementation of new fibre and resin technologies has seen the company become a world leader in the innovative design and manufacture of a diverse range of composite products. Fibretube has run two production shifts daily for the last 25 years and they presently export over 80% of their specialist components.

### **Te Ahi Tupua project timeline**

- **November 2015** - Call for expressions of interest from artists
- **February 2016** - 13 Expressions of Interest received
- **February 2016** - Shortlisted to five artists
- **20 April 2016** - Developed concepts showing to external selection panel
- **May 2016** - Engineers engaged to turn concept to digitised files for construction
- **December 2016** - Tender for construction
- **January 2017** - Tender closed and contractor selected
- **September 2017** - Notice to community about delays with original steel concept
- **December 2017** - Kilwell Fibretube announced as new manufacturer
- **March 2018** - Design and 3D print files finalised from Wellington consultant
- **March 2018** - 3D printing of inner skeleton begins

- **April 2018** - Assembly and fabrication begins
- **January 2020** - Second helix assembled in standing position
- **January – September 2020** – addition of connection pieces and painting (delays due to COVID-19 alert levels)
- **September 2020** – Installation

#### **Who funded/sponsored the sculpture?**

- Rotorua Lakes Council - \$388,000
- Waka Kotahi NZ Transport Agency - \$200,000
- Rotorua Trust - \$25,000
- Rotorua Community Arts Trust - \$15,000
- Lion Foundation - \$5000
- Infinity Foundation - \$5000
- Red Stag Timber
- Kilwell Fibretube

#### **Why has construction taken longer than expected?**

There is no other sculpture, of this size and shape, that has been constructed from 3D printed material and hand-wrapped in 25 layers of carbon fibre. During construction, there have been a number of challenges and there has been no template for them to follow, no manual to look to for instructions. The team at Kilwell, along with some guidance from Gurit Composite Engineering, had to innovate solutions and go through periods of trial and error to ensure the artwork was structurally sound but also matched the original design and concept of Te Ahi Tupua.

#### **What have been some of the challenges?**

- Translating the sculpture into electronic files to enable the skeleton to be 3D printed
- Sourcing parts for 3D printers from overseas providers adding delivery time to the work schedule
- major change to structure strength requirements – PS1 Certification requirements increased from an Importance Level of 1 to 2.
- weather – cooler months required the team at Kilwell to make their own heat rooms to allow the resin to cure
- the team had to create their own holders to support the curved lengths as they worked on them within the workshop
- reconciling design on paper with what was needed to ensure the sculpture was structurally sound and what was physically achievable

#### **Who selected the design in 2016?**

##### **Selection panel comprised of:**

Creative Portfolio Councillor – Trevor Maxwell

Youth Delegate - Alea Wharekura

Member Creative Steering Group – Michael Staite

Iwi Representative - Roku Mihinui (absent)

Pukeroa Oruawhata - Monty Morrison

Guest Artist - George Andrews

Waiariki Institute – Debra Laraman

Museum Curator (acting) - Cat Jehly

**Advisory only:**

Marc Spijkerbosch

**Why did Council see value in investing in the artwork?**

Humans have used artwork to share stories and celebrate culture and history for thousands of years. Here in Rotorua, we are no different – the artworks you see around the city are significant because they tell the stories of our people and our place. What this sculpture represents, the history of Te Arawa and how our unique environment came to be, is just part of what should make this sculpture special to our community. What we hope is that people come to learn about the innovation and dedication of local designers, manufacturers and engineers that produced this world-first sculpture. The blending of traditional art, technology and engineering showcases the talent we hold in our community.

**What other public art has Council invested in?**

In 2008 Council agreed to fund the sculpture that is situated at the northern entrance to Rotorua on State Highway 5 at Tarukenga. The creation of the artwork was a joint project between Council, NZ Transport Agency, Ngati Tura and Ngati Te Ngakau. The investment from Council at that time was \$108,000.

Some other artworks include:

- Numerous murals across the district – there are at least 57 pieces of art within the inner city
- Annual sculpture competition and growing sculpture trail in Government Gardens and Kuirau Park
- Redwoods ‘Walk in the Redwoods’ sculptures
- Cultural art pieces in and around Government Gardens
- Jean Batten Memorial
- Pohutukawa stamen – Kuirau Park
- Government Garden memorials
- Eat Street pillars
- Inner city sculptures – Hinemoa/Tutanekai, Te Manawa, Shavings, Matau a Maui
- Waituteki – unveiled in the Government Gardens to mark the new millennium
- 

**What does the design represent?****What does Te Ahi Tupua mean?****Why is Te Ahi Tupua significant to Rotorua?**



---

**From:** Vicki Cawte  
**Sent:** Friday, 4 September 2020 10:50 AM  
**To:** 'Craig Wilson'  
**Subject:** RE: Catch up to grab photos and maybe do soundbite

Sweet as – don't need soundbite now so I will just grab the hard drive off you and get you to check an FAQ.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

**ROTORUA**  
**LAKES COUNCIL**

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-----Original Appointment-----

**From:** Craig Wilson <craigw@kilwell.co.nz>

**Sent:** Friday, 4 September 2020 10:48 am

**To:** Vicki Cawte

**Subject:** Tentative: Catch up to grab photos and maybe do soundbite

**When:** Friday, 4 September 2020 11:00 am-11:30 am (UTC+12:00) Auckland, Wellington.

**Where:** Ohau Meeting Room (Ground Floor)

Running a bit late – might be 11.30 😊



## Will Bamford

---

**From:** Will Bamford  
**Sent:** Friday, 4 September 2020 2:38 pm  
**To:** Vicki Cawte; Jocelyn Mikaere; 'jacky@shinepr.co.nz'; 'Corrie Balvert'; Mandy Godo; Haley Farmer; 'craigw@kilwell.co.nz'; Marc Spijkerbosch; 'nick@tepuia.com'; Nickie Hunter; Stewart Brown; 'Claire Pedersen-Croll'; 'Chris Farnsworth'; 'Laszlo Kotan'; 'bopetmps@higgins'; 'steve@trafficmanagementnz'; 'Mark Law'; 'Chad Hooton'; Joshua Holmes; Rachel Green; 'Mark Pemberton'  
**Subject:** Hemo Sculpture - Installation Planned for 12/13 Sept

Tēnā koutou

Hope you are all well. Thank you very much for everyone's work this week trying to organise the install.

We are not installing this weekend. Pending final TMP/NZTA approval (due Monday), we will be installing weekend 12<sup>th</sup>/13<sup>th</sup> Sept.

The two options are:

1. Fly helixes to Te Puia Saturday morning (6:20am ish) and then install with crane at either 6:30am or 9pm;
2. If weather is bad Saturday, fly helixes to Te Puia Sunday morning (6:20am ish) and then install with crane at 6:30am.

Ideally, we would make a call whether or not we are flying Saturday 12<sup>th</sup> by 12pm Thursday 10<sup>th</sup>.

Due to the number of bolts we are landing the sculpture baseplate on, we would prefer to work within daylight hours. We are confident we will be completed within 2 hours of the outer helix landing at Te Puia (taking us to 8:30am), with the worst case scenario being 3 hours (taking us to 9:30am).

The VMS boards will be installed Monday 7<sup>th</sup> to identify road works and delays at the Hemo Roundabout for weekend 12<sup>th</sup>/13<sup>th</sup> Sept. We have notified (by phone/face to face) adjoining landowners, stakeholders, emergency services, and affected businesses. Vicki is working with NZTA to finalise the media release, which will go out today or Monday.

I'll be in touch next week but please let me know if you have any pātai.

Have a good weekend,

Will

**Will Bamford** Kaea Hinonga – Senior Project Manager | **Ohu Haumarū** - Project Management & Risk Office  
07 351 8217 | 027 205 1794 | [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

---

**From:** Will Bamford  
**Sent:** Monday, 31 August 2020 10:28 pm  
**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>; Jocelyn Mikaere <Jocelyn.Mikaere@rotorualc.nz>; jacky@shinepr; 'Corrie Balvert' <Corrie.Balvert@nzta.govt.nz>; Mandy Godo <Mandy.Godo@rotorualc.nz>; Haley Farmer <Haley.Farmer@rotorualc.nz>; 'craigw@kilwell.co.nz'; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; 'nick@tepuia.com' <nick@tepuia.com>; Nickie Hunter <Nickie.Hunter@rotorualc.nz>; Stewart Brown <Stewart.Brown@rotorualc.nz>; 'Claire Pedersen-Croll' <Claire.Pedersen-Croll@nzta.govt.nz>; 'Chris Farnsworth' <Chris.Farnsworth@nzta.govt.nz>; 'Laszlo Kotan' <Laszlok@fibretube.co.nz>; 'bopetmps@higgins'; 'steve@trafficmanagementnz'; 'Mark Law'; 'Chad Hooton'; Joshua Holmes; Rachel Green; 'Mark Pemberton'

Hooton'

; Joshua Holmes

; Rachel Green

**Subject:** Hemo Installation Plan - 31st August

Tēnā koutou

How are you all?

If you don't know me, I am Will. I am with RLC and am assisting with the Hemo Sculpture Installation Project. I know there has been a few copies of the installation plan floating about, but please attached the most recent (and hopefully final) version. Word and PDF versions are identical.

If we can get TMP approval, weather permitting, we are aiming to fly the helixes to the Te Puia Car Park this Sunday 6th Sept. And either install with the crane that day, or in the week following. Full details are in the plan.

Please let me know if you have any queries.

Cheers

Will

---

**Will Bamford** Kaea Hinonga – Senior Project Manager | *Ohu Haumarū* - Project Management & Risk  
Office

Waea: 07 351 8217 | Waea Pūkoro: 027 205 1794

Īmera: [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | Ipurangi: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

Taunga: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

---

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Monday, 7 September 2020 5:13 PM  
**To:** Vicki Cawte; Nick Dallimore; 'jacky@shinecollective.'  
**Subject:** RE: Signage at Hemo roundabout

Hi Vicki,

Yep I love the continuation of the theme and the design idea.

Nick,  
Has there been an finalisation of the plinth base and cover – Stacey mentioned using boulders around the plinth and then scoria to cover the tube bases and around the lights - which I though was a great idea as it tied it in with the geyser theme and natural/organic feel of the sculpture.

Regards  
Craig

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Monday, 7 September 2020 4:56 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>; Nick Dallimore <nick@tepuia.com>; 'jacky@shinecollective.'  
**Subject:** Signage at Hemo roundabout

Kia ora

Just before I head off today I wanted to send you the concepts that our design team came up with for placement of signs (don't pay attention to the content – the wording is just placeholder info for now).

The design isn't finalised yet but essentially it takes the colours off the wooden blocks that separate the wooden batons within the roundabout. You see them attached to the concrete walls in the pictures.

Have a look and let me know what you think. I am going to a meeting with the design team tomorrow arvo so it would be great to get your feedback.

Ngā mihi

---

**Vicki Cawte**  
*Kaitohu Whakapā*  
P: 07 351 8044 | M: 027 937 4606  
E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz  
A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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---

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Tuesday, 8 September 2020 8:31 AM  
**To:** Vicki Cawte  
**Subject:** RE: Logo for video  
**Attachments:** kilwell-fibretube-composite-innovation-header-2018.png

Hi Vicki,

The attached is the latest. Also for some of the numbers we discussed the other day:

- Labour production hours are in excess of 20,000 and still going up!
- Number of pieces 3D printed = 1,730 (which includes reprints and test pieces).
- This adds to 17,300 3D printing hours
- And 262 Kms of Filament

Am catching up with Amanda tomorrow to review the Kilwell Fibretube Story so should have by Thursday at the latest – hopefully not too late?

Regards  
Craig

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Monday, 7 September 2020 1:56 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** Logo for video

Kia ora Craig

I hope you had a nice time away over the weekend. I sure enjoyed the down time!

Just checking, we are getting close to finishing off the video and we are going to put a slide at the end with the logos. Just checking that the one I have attached is the right logo to use for Kilwell?

Thanks

Ngā mihi

---

**Vicki Cawte**  
*Kaitohu Whakapā*  
P: 07 351 8044 | M: 027 937 4606  
E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz  
A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Marc Spijkerbosch  
**Sent:** Tuesday, 8 September 2020 9:11 am  
**To:** Craig Wilson (craigw@kilwell.co.nz)  
**Subject:** PS3 form

Hi Craig  
Here's a template for the PS3:

<http://www.sawrey.co.nz/assets/pdfs/ps3%20standard%20form.pdf>

Cheers  
Marc

---

**Marc Spijkerbosch** *Community Arts Advisor*

P: 07 351 8154

E: marc.spijkerbosch@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Vicki Cawte  
**Sent:** Tuesday, 8 September 2020 10:49 AM  
**To:** 'Craig Wilson'  
**Subject:** RE: Logo for video

Woweee amazing! I've updated the FAQs.

I think Thursday will be fine for the content – I'll give our designer all the photos we have collected too so he can give the sign a visual element too.

If there is any images that you want to feature in particular let me know.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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- Labour production hours are in excess of 20,000 and still going up!
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- This adds to 17,300 3D printing hours
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Am catching up with Amanda tomorrow to review the Kilwell Fibretube Story so should have by Thursday at the latest – hopefully not too late?

Regards  
Craig

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Monday, 7 September 2020 1:56 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** Logo for video

Kia ora Craig

I hope you had a nice time away over the weekend. I sure enjoyed the down time!

Just checking, we are getting close to finishing off the video and we are going to put a slide at the end with the logos. Just checking that the one I have attached is the right logo to use for Kilwell?

Thanks

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

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A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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---

**From:** Vicki Cawte  
**Sent:** Tuesday, 8 September 2020 4:30 PM  
**To:** 'Craig Wilson'  
**Subject:** RE: Response for review

Thank you

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

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**From:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Sent:** Tuesday, 8 September 2020 4:29 pm  
**To:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Subject:** RE: Response for review

Yep all good from our end

---

**From:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Sent:** Tuesday, 8 September 2020 4:05 PM  
**To:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Subject:** Response for review

Kia ora Craig

As discussed this is the response that will come from us. Signed off at our end. Just making sure you're happy with it.

#### Response from Operations Manager Jocelyn Mikaere

##### Transport

The transportation method hasn't changed. The sculpture will still be transported using a helicopter. A different company Kahu NZ has been engaged to carry out the transport part of the install. The change was to ensure the helicopter could comfortably manage the size and shape of the sculpture.

Once the sculpture gets to the carpark at Te Puia, the helicopter will set it down and a crane will lower it into place within the roundabout.

##### Costs

Kilwell Fibretube is responsible for the installation of Te Ahi Tupua including costs.

Ngā mihi

**Vicki Cawte**

*Kaitohu Whakapā*

**P:** 07 351 8044 | **M:** 027 937 4606

**E:** vicki.cawte@rotorualc.nz | **W:** rotorualakescouncil.nz

**A:** 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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---

**From:** Vicki Cawte  
**Sent:** Tuesday, 8 September 2020 4:50 PM  
**To:** craigw@kilwell.co.nz  
**Subject:** FW: Stuff query

Kia ora Craig

Just looping you into this one – we received Benn’s question early last week. Given our updates to stakeholders and other media attention I’ve provided this info to him.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** News Rotorua

**Sent:** Tuesday, 8 September 2020 4:48 pm

**To:** 'Benn Bathgate' <benn.bathgate@stuff.co.nz>

**Subject:** RE: Stuff query

Hey Benn

My apologies, I was meant to come back to you last week. I am actually working on a public notice for this work that I will send to you once it is finalised.

In the meantime I can confirm that plans are underway to install the sculpture within the next fortnight with the earliest dates being Saturday 12 or Sunday 13 September. Weather and logistics permitting. The public notice will have a bit more information about traffic management etc.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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---

**From:** Benn Bathgate <benn.bathgate@stuff.co.nz>

**Sent:** Tuesday, 1 September 2020 4:27 pm

**To:** News Rotorua <News.Rotorua@rotorualc.nz>

**Subject:** Stuff query

Hi News Team,

Just wanted to check in on whether any date has been set for the Hemo Gorge sculpture to be put in place?

Thanks,

Benn

--

**Benn Bathgate**

Reporter

E [benn.bathgate@stuff.co.nz](mailto:benn.bathgate@stuff.co.nz) | M 027 204 2918  
1289 Fenton St, Rotorua, 3015, New Zealand



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**From:** Vicki Cawte  
**Sent:** Wednesday, 9 September 2020 9:07 AM  
**To:** craigw@kilwell.co.nz  
**Subject:** Media response

Kia ora Craig

Just an FYI to keep you in the loop. Felix requested further clarification (see below). My response is in red.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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---

**From:** News Rotorua <News.Rotorua@rotorualc.nz>

**Sent:** Wednesday, 9 September 2020 9:05 am

**To:** 'Felix Desmarais' <felix.desmarais@nzme.co.nz>; News Rotorua <News.Rotorua@rotorualc.nz>

**Subject:** RE: Hemo sculpture installation

Mōrena Felix

Not sure on ETA for the public notice – there is some final info around timing I am waiting to confirm and I'd like to get it out ASAP this morning.

For your further email re clarification –

**How will the change from Beck Helicopters to Kahu NZ affect the cost of the transferral? What will the transfer and installation cost now? Please separate the cost of the two.**

See below

**When you say "Kilwell Fibretube is responsible for the installation of Te Ahi Tupua including costs" do you mean they are paying for the transfer and installation? Can you please clarify?**

Yes, Kilwell are responsible for installation of the sculpture – this includes costs for transfer and install. The team at Kilwell have been dealing directly with the helicopter companies in regards to costs for transportation.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Felix Desmarais <[felix.desmarais@nzme.co.nz](mailto:felix.desmarais@nzme.co.nz)>  
**Sent:** Wednesday, 9 September 2020 7:26 am  
**To:** News Rotorua <[News.Rotorua@rotorualc.nz](mailto:News.Rotorua@rotorualc.nz)>  
**Subject:** Re: Hemo sculpture installation

Thanks Vicki. What's the ETA for that public notice? Could we have it embargoed - before you go live?

Can you please also confirm if it is Saturday or Sunday the move is planned for?

Thanks again

Felix

---

**From:** News Rotorua <[News.Rotorua@rotorualc.nz](mailto:News.Rotorua@rotorualc.nz)>  
**Sent:** Tuesday, 8 September 2020 5:18 PM  
**To:** Felix Desmarais <[felix.desmarais@nzme.co.nz](mailto:felix.desmarais@nzme.co.nz)>; News Rotorua <[News.Rotorua@rotorualc.nz](mailto:News.Rotorua@rotorualc.nz)>  
**Subject:** RE: Hemo sculpture installation

Kia ora Felix

Just for you information I'm working on a public notice which I will provide to you once it's finalised. That will have a bit more info about installation and traffic management etc. The information below is in response to your latest email. In terms of being on site we have a project team and limited number of authorised personnel to be on site during the operation so I will need to get back to you about the possibility of access. We will have footage and photography of the installation to share with media once it's done.

**Response from Operations Manager Jocelyn Mikaere -**

The transportation method hasn't changed. The sculpture will still be transported using a helicopter. A different company Kahu NZ has been engaged to carry out the transport part of the install. The change was to ensure the helicopter could comfortably manage the size and shape of the sculpture.

Once the sculpture gets to the carpark at Te Puia, the helicopter will set it down and a crane will lower it into place within the roundabout.

Kilwell Fibretube is responsible for the installation of Te Ahi Tupua including costs.

Ngā mihi

---

**Vicki Cawte**  
*Kaitohu Whakapā*  
P: 07 351 8044 | M: 027 937 4606  
E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)  
A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

**ROTORUA**  
LAKES COUNCIL

---

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**From:** Felix Desmarais <[felix.desmarais@nzme.co.nz](mailto:felix.desmarais@nzme.co.nz)>  
**Sent:** Tuesday, 8 September 2020 2:43 pm  
**To:** News Rotorua <[News.Rotorua@rotorualc.nz](mailto:News.Rotorua@rotorualc.nz)>  
**Subject:** Re: Hemo sculpture installation

Kia ora,

Can you please also clarify how it's going to be transferred? I've just found out it won't be transferred by Beck Helicopters - so how is it going to be moved and installed now, and how will that affect the cost?

I'm after this by EOB today please.

Thanks,

Felix

---

**From:** News Rotorua <[News.Rotorua@rotorualc.nz](mailto:News.Rotorua@rotorualc.nz)>  
**Sent:** Tuesday, 8 September 2020 11:42 AM  
**To:** Felix Desmarais <[felix.desmarais@nzme.co.nz](mailto:felix.desmarais@nzme.co.nz)>; News Rotorua <[News.Rotorua@rotorualc.nz](mailto:News.Rotorua@rotorualc.nz)>  
**Subject:** RE: Hemo sculpture installation

Kia ora Felix, we'll get back to you about this.

Kind regards

**Nikoletta Michael** *Senior Communications Advisor - Kaitohu Whakapā*  
P: [07 351 8282](tel:073518282) | E: [nikoletta.michael@rotorualc.nz](mailto:nikoletta.michael@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

---

**From:** Felix Desmarais <[felix.desmarais@nzme.co.nz](mailto:felix.desmarais@nzme.co.nz)>  
**Sent:** Tuesday, 8 September 2020 11:01 AM  
**To:** News Rotorua <[News.Rotorua@rotorualc.nz](mailto:News.Rotorua@rotorualc.nz)>  
**Subject:** Hemo sculpture installation

Kia ora,

It would be great to cover the transfer of the Hemo sculpture from the warehouse to the Hemo roundabout this weekend. Could we please tee that up? Obviously we'd be fine outside the warehouse, but with your help it would be good to have a photographer and reporter at the warehouse too.

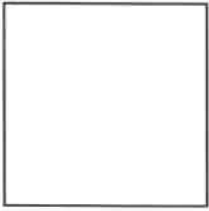
Thanks very much

Felix

**FELIX DESMARAIS**  
LOCAL DEMOCRACY REPORTER

D: (07) 349 7478 M: 027 614 3999  
E: [felix.desmarais@nzme.co.nz](mailto:felix.desmarais@nzme.co.nz)





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**From:** Vicki Cawte  
**Sent:** Wednesday, 9 September 2020 10:36 AM  
**To:** craigw@kilwell.co.nz  
**Subject:** FW: Hemo sculpture installation

Hi Craig

Just keeping you in the loop (sorry I know you guys are super busy). I am working on a response to the further questions below.

Let me know if you get a free couple of minutes shortly and I'll give you a call.

Ngā mihi

---

**Vicki Cawte**  
*Kaitohu Whakapā*  
P: 07 351 8044 | M: 027 937 4606  
E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz  
A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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---

**From:** Felix Desmarais <felix.desmarais@nzme.co.nz>  
**Sent:** Wednesday, 9 September 2020 9:23 am  
**To:** News Rotorua <News.Rotorua@rotorualc.nz>  
**Subject:** Re: Hemo sculpture installation

Kilwell Fibretube will be invoicing the council for it though, won't they? Does the council not currently know what costs for the move and installation are going to be?

I understand the sculpture was supposed to have been moved and installed on Sunday. What was the reason for the delay?

After this ASAP please.

Thank you

Felix

---

**From:** News Rotorua <News.Rotorua@rotorualc.nz>  
**Sent:** Wednesday, 9 September 2020 9:05 AM  
**To:** Felix Desmarais <felix.desmarais@nzme.co.nz>; News Rotorua <News.Rotorua@rotorualc.nz>  
**Subject:** RE: Hemo sculpture installation

Mōrena Felix

Not sure on ETA for the public notice – there is some final info around timing I am waiting to confirm and I'd like to get it out ASAP this morning.

For your further email re clarification –

How will the change from Beck Helicopters to Kahu NZ affect the cost of the transferral? What will the transfer and installation cost now? Please separate the cost of the two.

See below

When you say "Kilwell Fibretube is responsible for the installation of Te Ahi Tupua including costs" do you mean they are paying for the transfer and installation? Can you please clarify?

Yes, Kilwell are responsible for installation of the sculpture – this includes costs for transfer and install. The team at Kilwell have been dealing directly with the helicopter companies in regards to costs for transportation.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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---

**From:** Felix Desmarais <[felix.desmarais@nzme.co.nz](mailto:felix.desmarais@nzme.co.nz)>

**Sent:** Wednesday, 9 September 2020 7:26 am

**To:** News Rotorua <[News.Rotorua@rotorualc.nz](mailto:News.Rotorua@rotorualc.nz)>

**Subject:** Re: Hemo sculpture installation

Thanks Vicki. What's the ETA for that public notice? Could we have it embargoed - before you go live?

Can you please also confirm if it is Saturday or Sunday the move is planned for?

Thanks again

Felix

---

**From:** News Rotorua <[News.Rotorua@rotorualc.nz](mailto:News.Rotorua@rotorualc.nz)>

**Sent:** Tuesday, 8 September 2020 5:18 PM

**To:** Felix Desmarais <[felix.desmarais@nzme.co.nz](mailto:felix.desmarais@nzme.co.nz)>; News Rotorua <[News.Rotorua@rotorualc.nz](mailto:News.Rotorua@rotorualc.nz)>

**Subject:** RE: Hemo sculpture installation

Kia ora Felix

Just for you information I'm working on a public notice which I will provide to you once it's finalised. That will have a bit more info about installation and traffic management etc. The information below is in response to your latest email. In terms of being on site we have a project team and limited number of authorised personnel to be on site during the operation so I will need to get back to you about the possibility of access. We will have footage and photography of the installation to share with media once it's done.

**Response from Operations Manager Jocelyn Mikaere -**

The transportation method hasn't changed. The sculpture will still be transported using a helicopter. A different company Kahu NZ has been engaged to carry out the transport part of the install. The change was to ensure the helicopter could comfortably manage the size and shape of the sculpture.

Once the sculpture gets to the carpark at Te Puia, the helicopter will set it down and a crane will lower it into place within the roundabout.

Kilwell Fibretube is responsible for the installation of Te Ahi Tupua including costs.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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---

**From:** Felix Desmarais <[felix.desmarais@nzme.co.nz](mailto:felix.desmarais@nzme.co.nz)>

**Sent:** Tuesday, 8 September 2020 2:43 pm

**To:** News Rotorua <[News.Rotorua@rotorualc.nz](mailto:News.Rotorua@rotorualc.nz)>

**Subject:** Re: Hemo sculpture installation

Kia ora,

Can you please also clarify how it's going to be transferred? I've just found out it won't be transferred by Beck Helicopters - so how is it going to be moved and installed now, and how will that affect the cost?

I'm after this by EOB today please.

Thanks,

Felix

---

**From:** News Rotorua <[News.Rotorua@rotorualc.nz](mailto:News.Rotorua@rotorualc.nz)>

**Sent:** Tuesday, 8 September 2020 11:42 AM

**To:** Felix Desmarais <[felix.desmarais@nzme.co.nz](mailto:felix.desmarais@nzme.co.nz)>; News Rotorua <[News.Rotorua@rotorualc.nz](mailto:News.Rotorua@rotorualc.nz)>

**Subject:** RE: Hemo sculpture installation

Kia ora Felix, we'll get back to you about this.

Kind regards

**Nikoletta Michael** *Senior Communications Advisor - Kaitohu Whakapā*

P: 07 351 8282 | E: [nikoletta.michael@rotorualc.nz](mailto:nikoletta.michael@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

---

**From:** Felix Desmarais <[felix.desmarais@nzme.co.nz](mailto:felix.desmarais@nzme.co.nz)>

**Sent:** Tuesday, 8 September 2020 11:01 AM

To: News Rotorua <News.Rotorua@rotorualc.nz>  
Subject: Hemo sculpture installation

Kia ora,

It would be great to cover the transfer of the Hemo sculpture from the warehouse to the Hemo roundabout this weekend. Could we please tee that up? Obviously we'd be fine outside the warehouse, but with your help it would be good to have a photographer and reporter at the warehouse too.

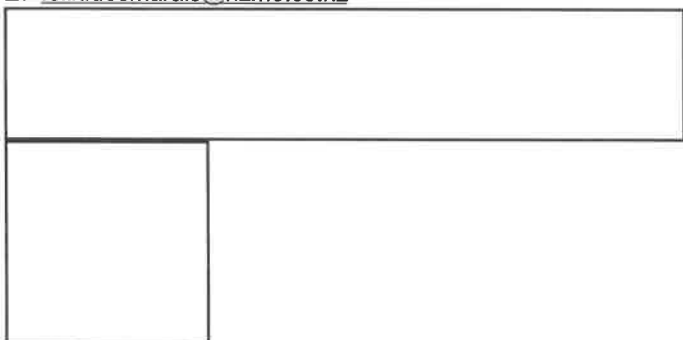
Thanks very much

Felix

**FELIX DESMARAIS**  
LOCAL DEMOCRACY REPORTER

D: (07) 349 7478 M: 027 614 3999

E: [felix.desmarais@nzme.co.nz](mailto:felix.desmarais@nzme.co.nz)



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---

**From:** Vicki Cawte  
**Sent:** Wednesday, 9 September 2020 12:42 PM  
**To:** 'Craig Wilson'  
**Subject:** RE: URGENT - Public notice for final review and approval

Thanks very much

Ngā mihi

---

**Vicki Cawte**  
*Kaitohu Whakapā*  
P: 07 351 8044 | M: 027 937 4606  
E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz  
A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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---

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Wednesday, 9 September 2020 12:40 pm  
**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Subject:** Re: URGENT - Public notice for final review and approval

Yes all good

Get [Outlook for Android](#)

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Wednesday, September 9, 2020 12:29:29 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** RE: URGENT - Public notice for final review and approval

Thanks Craig - just checking your thoughts on the media response sent earlier. I've copied it below for your review

Kilwell Fibretube will be invoicing the council for it though, won't they? Does the council not currently know what costs for the move and installation are going to be?

Kilwell holds a contract with Council to manufacture Te Ahi Tupua and part of that contract is delivery and installation. We are aware of some of the quotes provided for different aspects of the transportation and installation but ultimately, the full cost won't be known until after installation and Kilwell will be absorbing that as part of their contract.

I understand the sculpture was supposed to have been moved and installed on Sunday. What was the reason for the delay?

We have always shared that this is going to be a complex project and that many factors had to align to ensure installation could go ahead.

Our project team identified two weekends in September for installation (5, 6, 12 & 13 September). In our planning our team identified a potential improvement to the instalment process and introduced the crane aspect. This change required an update to the Traffic Management Plan which has now been approved.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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---

**From:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>

**Sent:** Wednesday, 9 September 2020 12:17 pm

**To:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>; Jocelyn Mikaere <[Jocelyn.Mikaere@rotorualc.nz](mailto:Jocelyn.Mikaere@rotorualc.nz)>; Stewart Brown <[Stewart.Brown@rotorualc.nz](mailto:Stewart.Brown@rotorualc.nz)>

**Subject:** RE: URGENT - Public notice for final review and approval

All good from our end

---

**From:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>

**Sent:** Wednesday, 9 September 2020 12:12 PM

**To:** Jocelyn Mikaere <[Jocelyn.Mikaere@rotorualc.nz](mailto:Jocelyn.Mikaere@rotorualc.nz)>; Stewart Brown <[Stewart.Brown@rotorualc.nz](mailto:Stewart.Brown@rotorualc.nz)>; Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>

**Subject:** URGENT - Public notice for final review and approval

Kia ora

Will has advised that TMP has been approved – he has had verbal confirmation from Josh Coombes from Higgins that we are okay to put out the public notice and that the info in the attached notice is accurate.

Can you please all have a look and let me know if you're happy for me to get this out.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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## Public notice plan B

### Major milestone imminent - Te Ahi Tupua installation

The final milestones for Te Ahi Tupua (aka 'Hemo sculpture') are just around the corner with plans being finalised to relocate the artwork to its home at the southern entrance to Rotorua.

Council, alongside partners Waka Kotahi NZ Transport Agency, Kilwell Fibretube and Te Puia I NZMACI have mapped out the complex operation for installation. The teams are now relying on Mother Nature to provide ideal weather conditions to get the sculpture into place.

The initial part of the installation operation, which involves use of a helicopter to move the artwork, is planned for the next fortnight. The earliest day for transportation is Saturday 12 September. The helicopter operation is strictly weather dependent so while preparation is underway for the earliest opportunity, changes to the forecast could mean transporting Te Ahi Tupua on another day.

The size and shape of the sculpture means the best method of transportation is via a specialty helicopter. The flight path will take the sculpture in two separate trips from Kilwell Fibretube on Te Ngae Road to Te Puia carpark next to the roundabout.

Once the sculpture reaches Te Puia carpark, a crane will lift the sculpture in its two separate pieces and lower them into the roundabout.

#### What you need to know:

- Installation is strictly weather dependent meaning the team won't know exactly when installation will occur until the morning of.
- There is a limited window of availability for the specialty helicopter. Saturday 12 September is the earliest date for installation.
- The helicopter flight plan avoids all residential areas
- Transportation to Te Puia carpark will take place early in the morning from 6.30am.
- During the crane operation, (6.30am – 10.30am) stop/go traffic management will be in place at each arm of the Hemo roundabout. Motorists may experience delays of up to 10 minutes.
- The following temporary traffic management and closures will be in place on the day of the helicopter operation:
  - Pedestrian/bike entry to the paths under Hemo roundabout will be closed.

- Entry to Te Puia carpark (next to the roundabout) will be closed to pedestrians, bikes and vehicles
- Stop/Go traffic management will be in place at Vaughan Road (behind Puketawhero Park), SH30/Te Ngae Road (east of Eastgate Business Park) and Tarawera Road (near intersection with Okareka Loop Road) where the helicopter will cross over public roads. Motorists may experience delays of up to 5 minutes at these locations.

Following installation the team from Kilwell Fibretube will be finishing parts of the construction that can only be done once it is in place within the roundabout. This work is weather dependent but is expected to take about two weeks and the roundabout (and the shared paths underneath) will be open during this time.



---

**From:** Will Bamford  
**Sent:** Wednesday, 9 September 2020 3:17 PM  
**To:** Vicki Cawte; Mandy Godo; 'craigw@kilwell.co.nz'; 'nick@tepuia.com'; 'Laszlo Kotan'; Rachel Green  
**Cc:** Stewart Brown; Marc Spijkerbosch; Haley Farmer; 'Mark Law'  
**Subject:** FW: Hemo RAB TMP  
**Attachments:** TMNZ-ROT-200039-FULL (TMD).pdf; 1219 Hemo Sculpture TMP Install V1 (1).pdf; Hemo ATWOSH.pdf

Kia ora koutou

Please see attached the signed off TMP from Higgins.

Thank you for everyone's hard work in making this happen.

Will

**Will Bamford Kaea Hinonga – Senior Project Manager | Ohu Haumarū - Project Management & Risk Office**  
07 351 8217 | 027 205 1794 | [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

---

**From:** Josh Coombes (Higgins) <J.Coombes@higgins.co.nz>  
**Sent:** Wednesday, 9 September 2020 2:16 pm  
**To:** Will Bamford <Will.Bamford@rotorualc.nz>  
**Cc:** Rotorua Supervisor TMNZ <supervisorrot@trafficmanagementnz.co.nz>  
**Subject:** Hemo RAB

Good afternoon Will,

Please see attached approval for the sculpture install at the Hemo Gorge RAB.

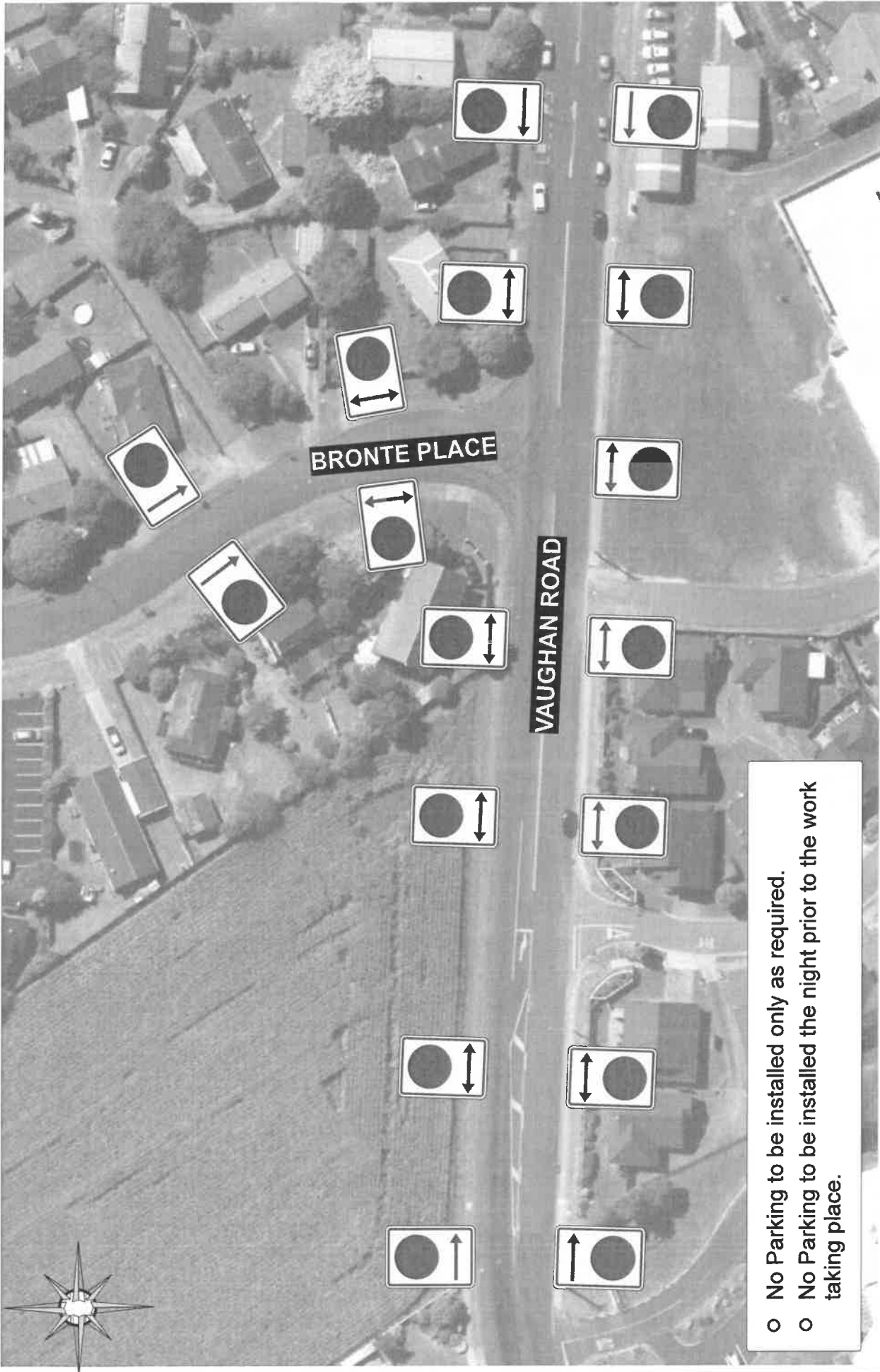
Any questions, please ask.

Thanks,

**Josh Coombes**  
Traffic Management *Coordinator*  
**Higgins** *showing the way*  
Higgins Contractors Limited  
334 Te DDI: 07 349 3804  
Ngae T: +64 27 297 1220  
Road [www.higgins.co.nz](http://www.higgins.co.nz)  
PO Box  
10167  
Rotorua  
3046

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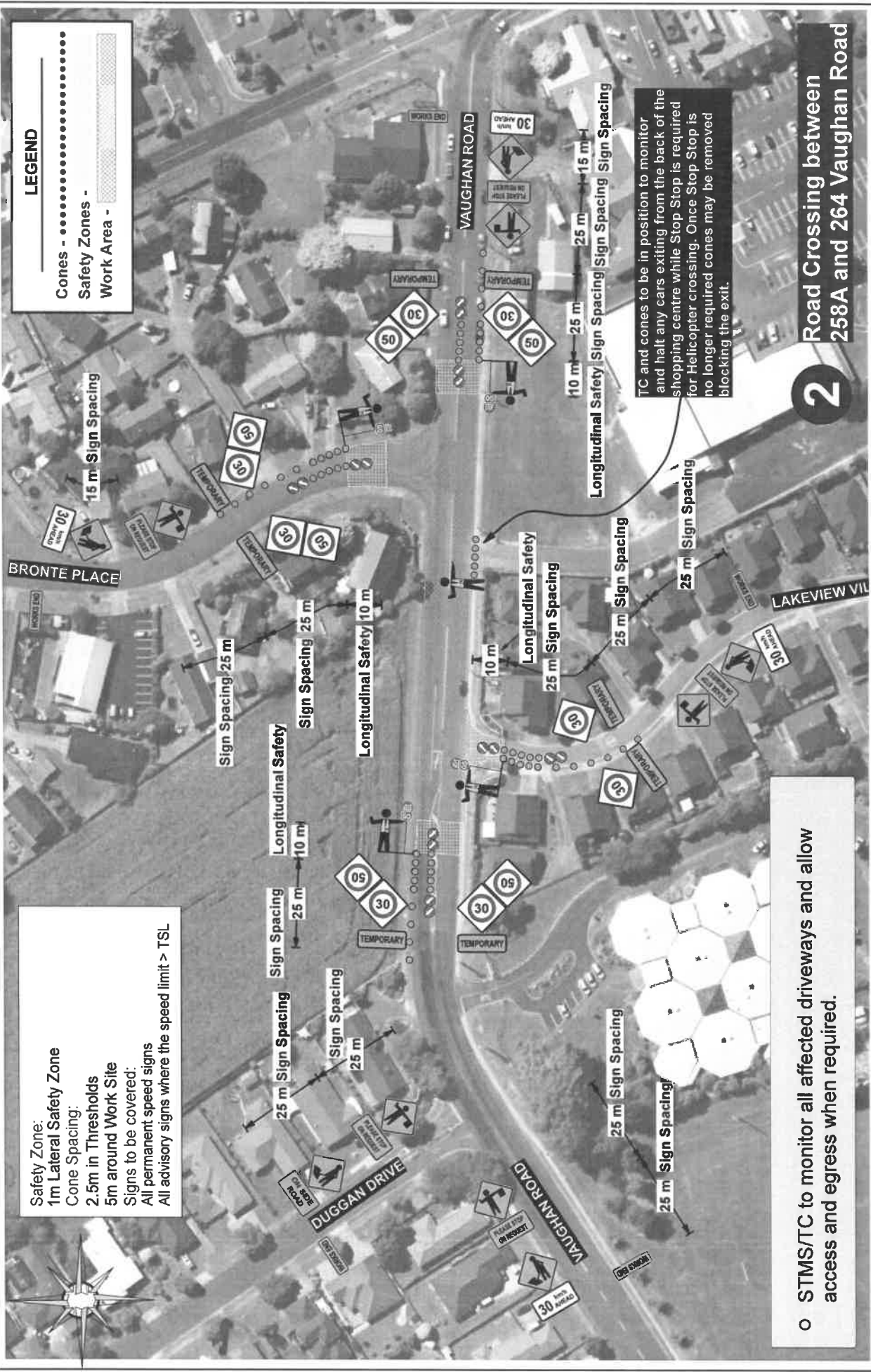




- No Parking to be installed only as required.
- No Parking to be installed the night prior to the work taking place.

Drawing No: <b>TMNZ-ROT-200039-1</b>	Situation: Vaughan Road, Owhata	Revision: A Drawing By: Samantha Grimes	TMC Approval:
<b>Traffic Management NZ</b> <small>Transportation Planning &amp; Engineering</small>	Drawing Title: No Parking	Checked: [Signature] Date: 08 September 2020	KĀHŪ THERE AND BACK SINCE 1888

08 September 2020



**LEGEND**

- Cones - .....
- Safety Zones - .....
- Work Area - [hatched pattern]

**Safety Zone:**  
 1m Lateral Safety Zone  
 Cone Spacing:  
 2.5m in Thresholds  
 5m around Work Site  
 Signs to be covered:  
 All permanent speed signs  
 All advisory signs where the speed limit > TSL

o STMS/TC to monitor all affected driveways and allow access and egress when required.

2

**Road Crossing between 258A and 264 Vaughan Road**

Drawing No: <b>TMNZ-ROT-200039-2</b>	Situation: Vaughan Road, Owghata	Revision: A Drawing By: <i>Samantha Grines</i>	TMC Approval:
	Drawing Title: Vaughan Road - Crossing (A)	Checked: <i>[Signature]</i> Date: 08 September 2020	





Safety Zone:  
 1m Lateral Safety Zone  
 Cone Spacing:  
 5m in Thresholds  
 10m around Work Site  
 Signs to be covered:  
 All permanent speed signs  
 All advisory signs where the speed limit > TSL

**5**  
 Road Crossing on Te Ngae Road by Airport, cross over Volcanic Air Straight onto the paddock which is north of Wahanga-A Rangi Crescent. (Borders Industrial Park).

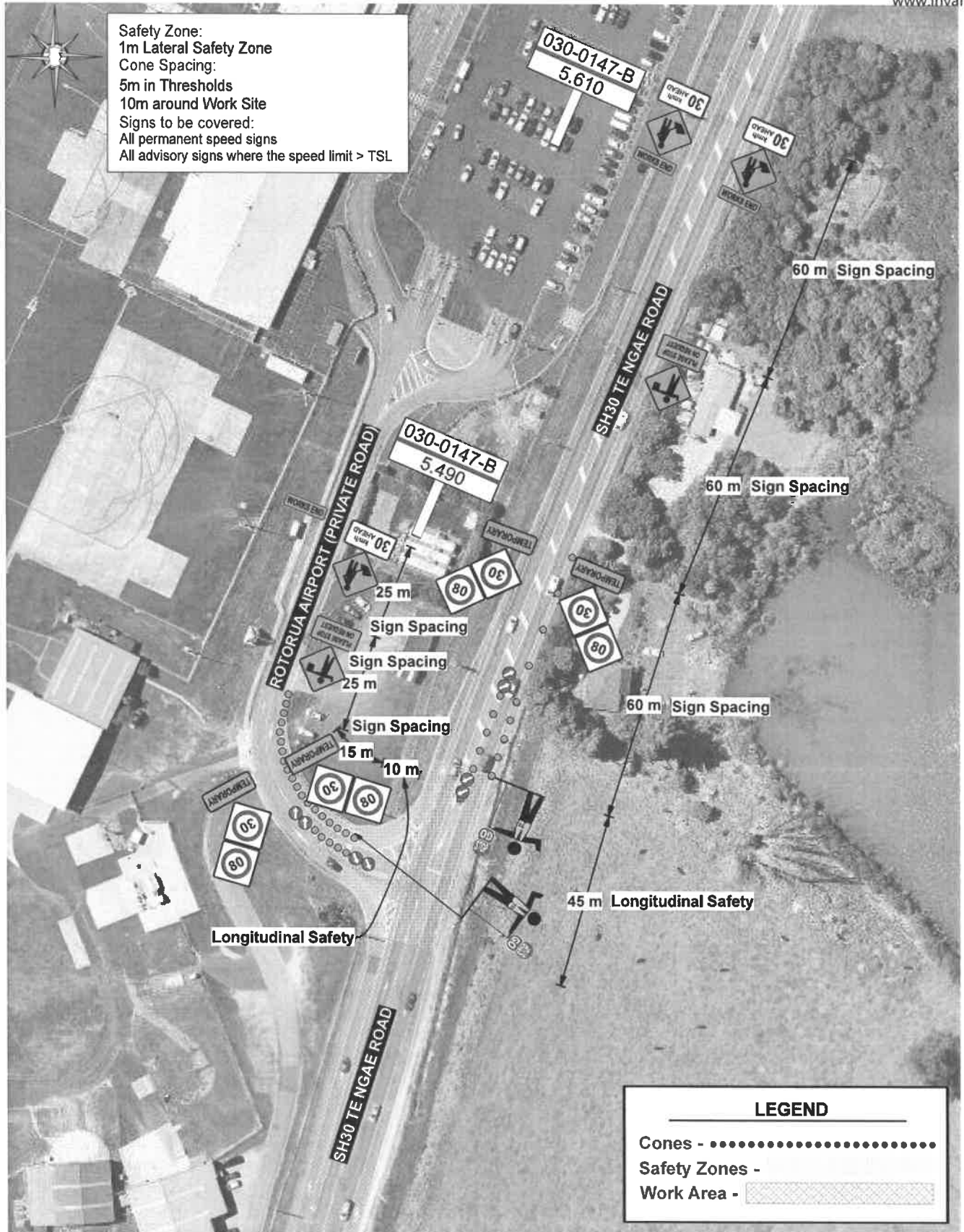
**LEGEND**

Cones - .....  
 Safety Zones -   
 Work Area - [hatched box]

Situation: Te Ngae Road SH30	Drawing No: TMNZ-ROT-200039-3	Revision: A
Drawing Title: Te Ngae Road SH30 - Crossing (B) - Overview	Checked: Date: September 2020	Drawing By: Samantha Grimes
<b>Traffic Management NZ</b> <small>17751 17752 17753 17754 17755 17756 17757 17758 17759 17760 17761 17762 17763 17764 17765 17766 17767 17768 17769 17770 17771 17772 17773 17774 17775 17776 17777 17778 17779 17780 17781 17782 17783 17784 17785 17786 17787 17788 17789 17790 17791 17792 17793 17794 17795 17796 17797 17798 17799 17800</small>		TMC Approval: NZTA - BOP East Network 08 September 2020

**K Ā H U** <sup>TMZ</sup>  
 THERE AND BACK SINCE 1988

Safety Zone:  
 1m Lateral Safety Zone  
 Cone Spacing:  
 5m in Thresholds  
 10m around Work Site  
 Signs to be covered:  
 All permanent speed signs  
 All advisory signs where the speed limit > TSL



**LEGEND**

Cones - .....

Safety Zones - .....

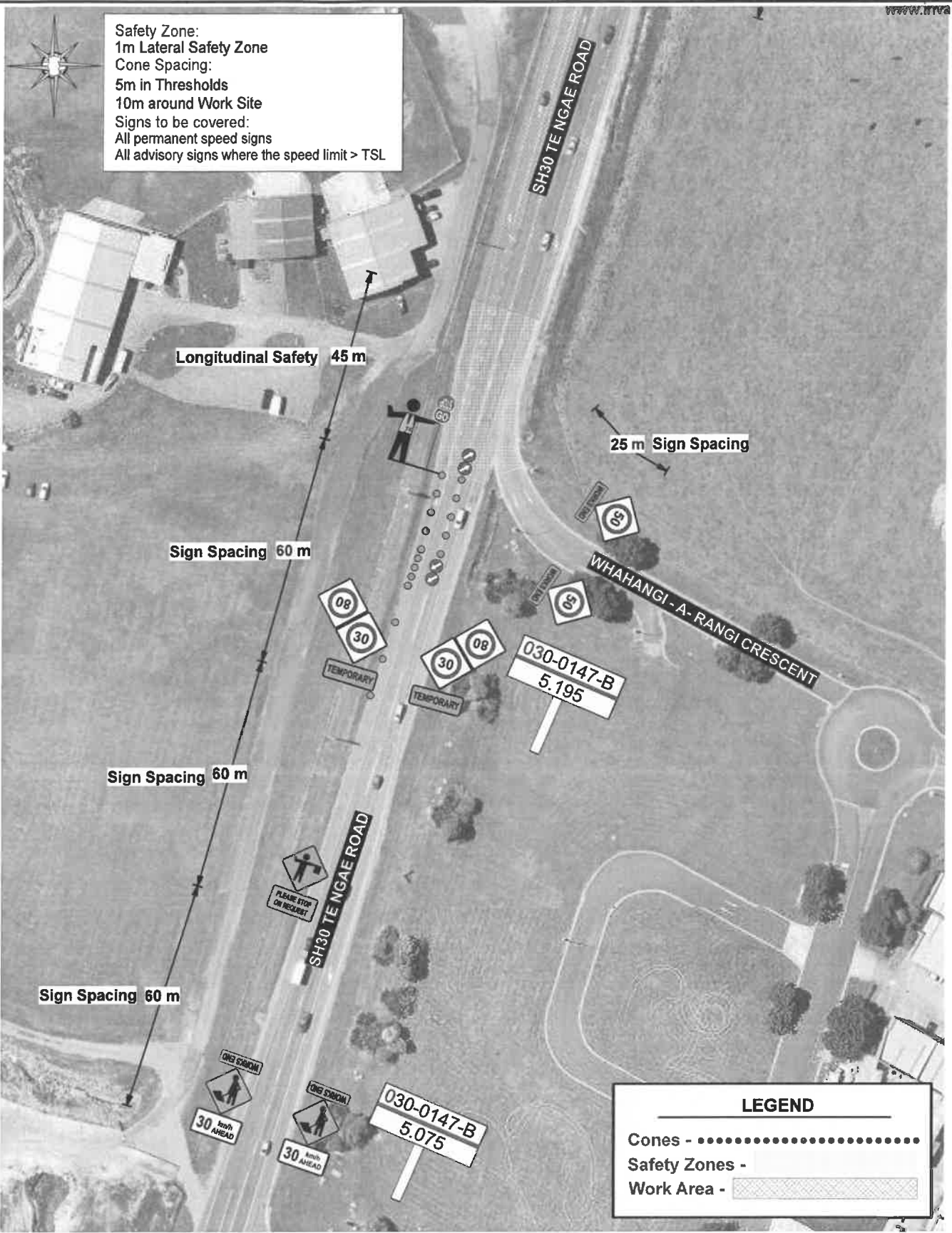
Work Area - [hatched box]

Situation: Te Ngae Road SH30	Drawing No: TMNZ-ROT-200039-3a	Revision: A
Drawing Title: Te Ngae Road SH30 - Crossing (B) - Close up A	Checked: [Signature]	Drawing By: Samantha Grimes
	Date: September 2020	
<b>Traffic Management NZ</b>		TMC Approval: [Signature]
Whangarei Auckland Hamilton Tauranga Invercargill Wellington Christchurch		A - BOP East Network September 2020

**KĀHU** <sup>NZ</sup>

THERE AND BACK SINCE 1998

Safety Zone:  
 1m Lateral Safety Zone  
 Cone Spacing:  
 5m in Thresholds  
 10m around Work Site  
 Signs to be covered:  
 All permanent speed signs  
 All advisory signs where the speed limit > TSL



**LEGEND**

Cones - .....  
 Safety Zones - - - - -  
 Work Area - [hatched pattern]

Situation:  
 Te Ngae Road SH30

Drawing No:  
 TMNZ-ROT-200039-3b

Revision: A  
 Drawing By: Samantha Grimes

Drawing Title:  
 Te Ngae Road SH30 - Crossing (B) - Close up B'

Checked: [Signature]  
 Date: September 2020

**Traffic Management NZ**  
 Whangarei Auckland Hamilton Dunedin Tauranga Wellington Christchurch

TMC Approval:  
 Counties  
 A - BOP East Network  
 September 2020

**KĀHU** (NZ)  
 THERE AND BACK SINCE 1998



**Safety Zone:**  
 1m Lateral Safety Zone  
**Cone Spacing:**  
 5m in Thresholds  
 10m around Work Site  
**Signs to be covered:**  
 All permanent speed signs  
 All advisory signs where the speed limit > TSL

**LEGEND**

- Cones - ..... (dotted line)
- Safety Zones - (dashed line)
- Work Area - (hatched area)

**6**

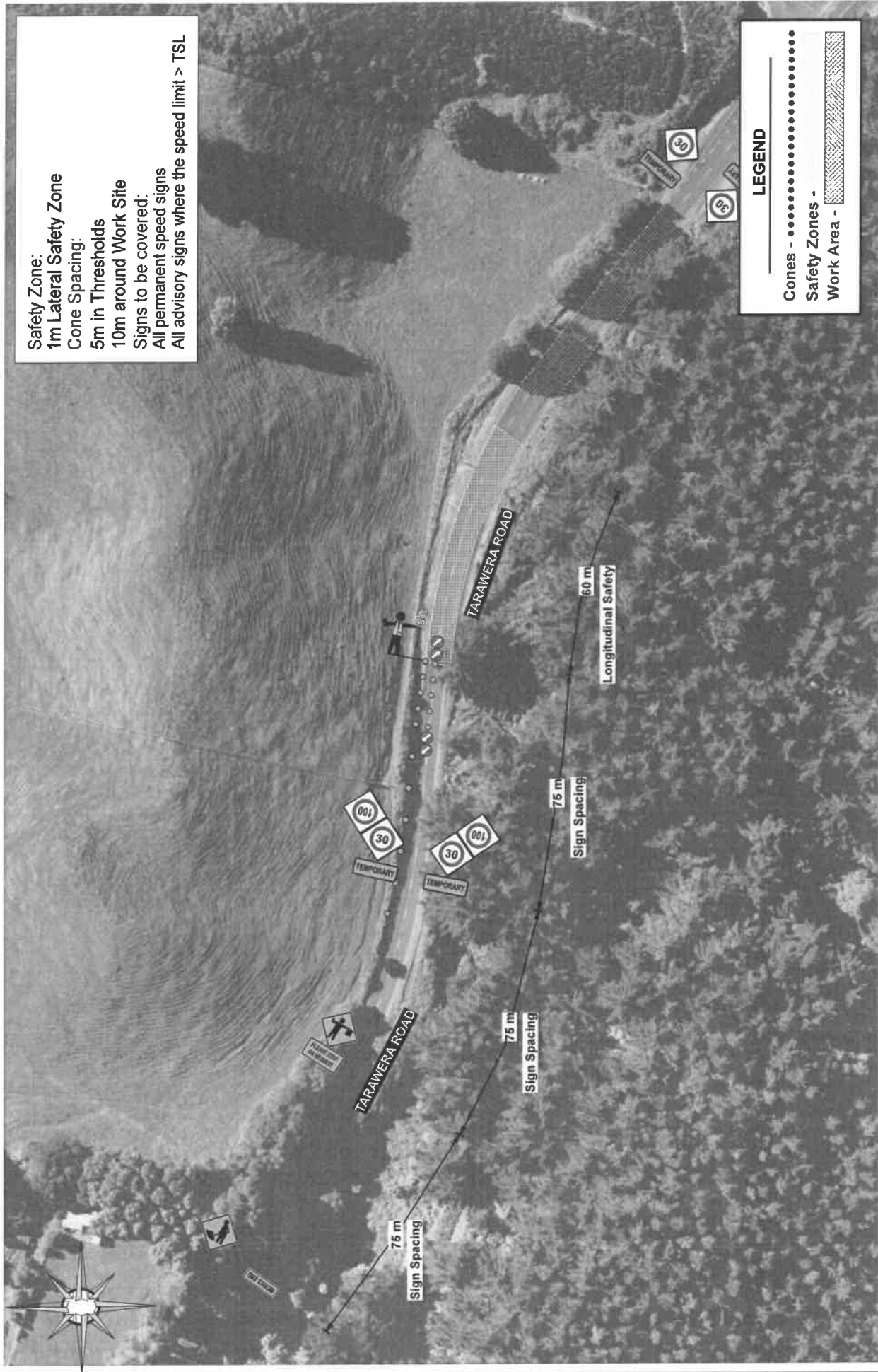
**Road Crossing on Tarawere Road,  
 just west of Okareka Loop / Tarawera  
 Road Intersection.**

<b>Drawing No:</b> TMNZ-ROT-200039-4 <b>Traffic Management NZ</b>	<b>Situation:</b> Tarawera Road	<b>Revision:</b> A Drawing By: Samantha Grimes	TMC Approval:
	<b>Drawing Title:</b> Tarawera Road - Crossing (C) - Overview	Checked: [Signature] Date: 08 September 2020	



NZTA - BOP East-Work  
 08 September 2020



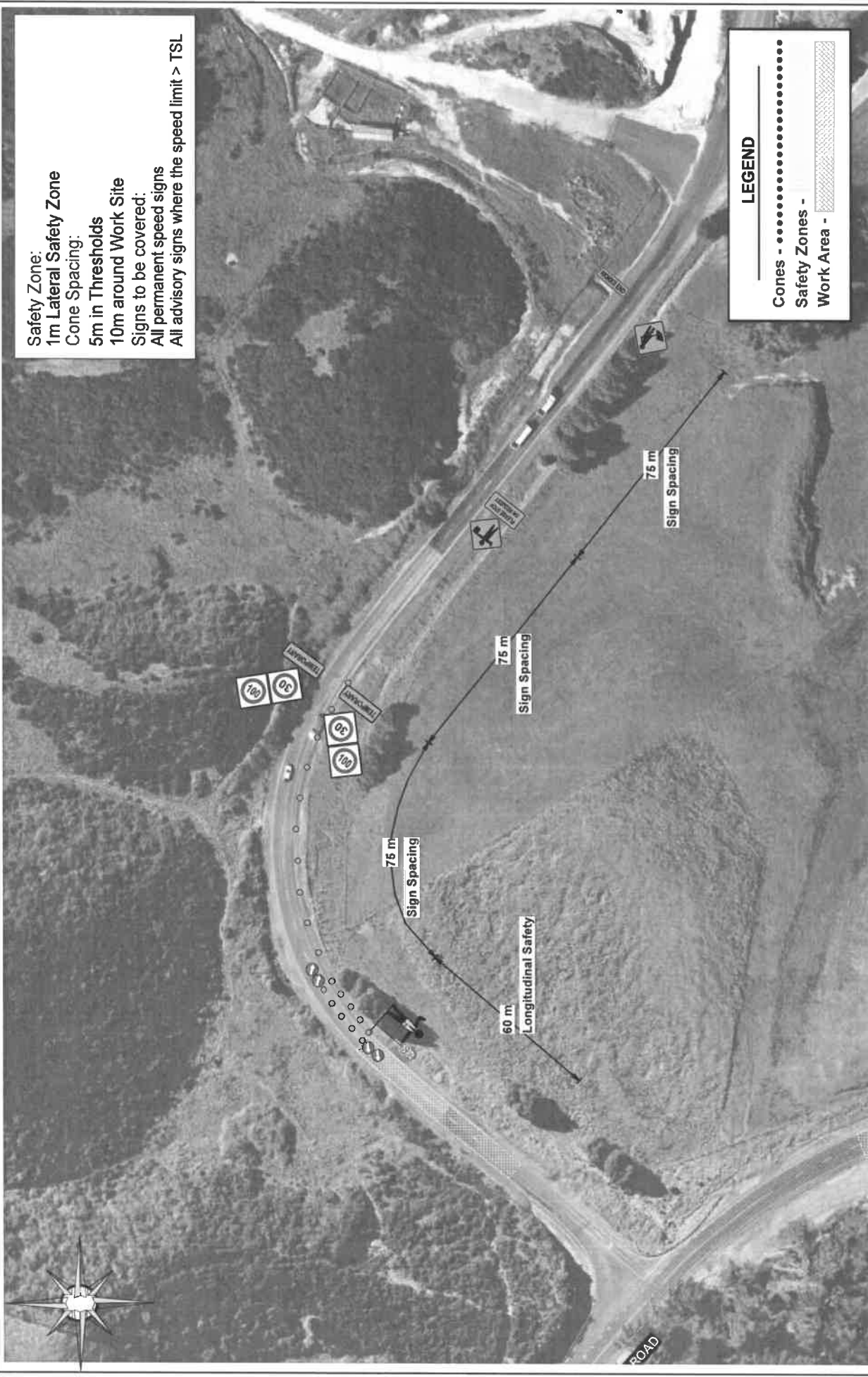


**Safety Zone:**  
 1m Lateral Safety Zone  
 Cone Spacing:  
 5m in Thresholds  
 10m around Work Site  
 Signs to be covered:  
 All permanent speed signs  
 All advisory signs where the speed limit > TSL

**LEGEND**

- Cones - .....
- Safety Zones - [hatched pattern]
- Work Area - [hatched pattern]

<p>Drawing No: <b>TMNZ-ROT-200039-4a</b></p>	<p>Situation: <b>Tarawera Road</b></p>	<p>Revision: <b>A</b>                  Drawing By: <b>Samantha Grimes</b>                  Checked: <b>[Signature]</b>                  Date: <b>September 2020</b></p>	<p>TMC Approval:</p>
<p><b>Traffic Management NZ</b>  <small>© Invarion Ltd and Transport Research Centre, Wellington, New Zealand</small></p>	<p><b>KĀHU</b>  <small>THERE AND BACK SINCE 1888</small></p>	<p>NZTA - BOP East Network                  08 September 2020</p>	<p><b>THERE AND BACK SINCE 1888</b></p>



Safety Zone:  
 1m Lateral Safety Zone  
 Cone Spacing:  
 5m in Thresholds  
 10m around Work Site  
 Signs to be covered:  
 All permanent speed signs  
 All advisory signs where the speed limit > TSL

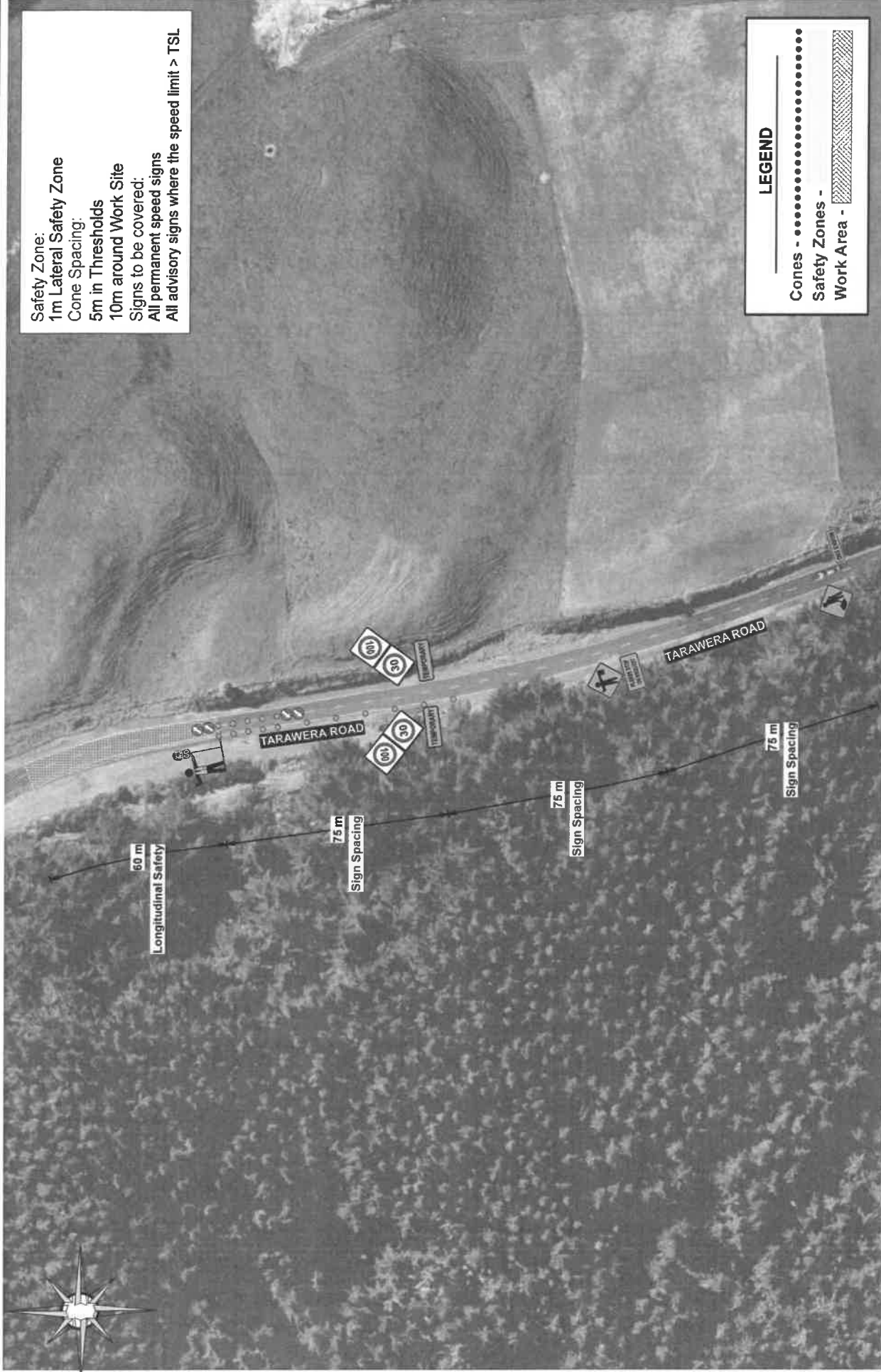
**LEGEND**

Cones - .....  
 Safety Zones - .....  
 Work Area - [hatched box]

Drawing No: <b>TMNZ-ROT-200039-4b</b>	Situation: <b>Tarawera Road</b>	Revision: A	TMC Approval:
		Drawing By: Samantha Grimes	
Traffic Management NZ	Drawing Title: Tarawera Road - Crossing (C) - Close up B	Checked: [signature]	Date: 08 September 2020
		Date: 08 September 2020	



WZTA - Bay East Network  
 08 September 2020



Safety Zone:  
 1m Lateral Safety Zone  
 Cone Spacing:  
 5m in Thresholds  
 10m around Work Site  
 Signs to be covered:  
 All permanent speed signs  
 All advisory signs where the speed limit > TSL

**LEGEND**

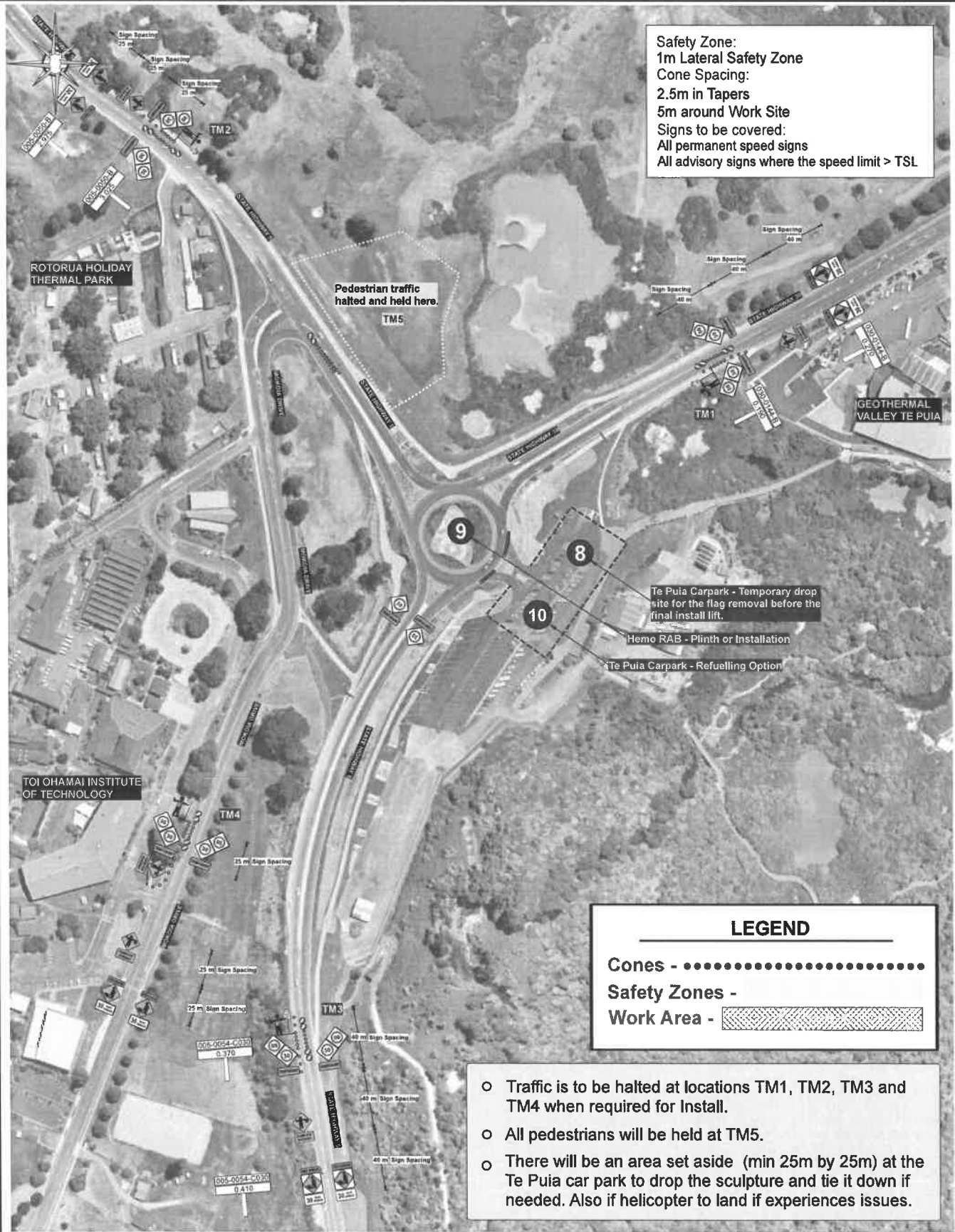
Cones - .....  
 Safety Zones - .....  
 Work Area - [hatched pattern]

Drawing No: <b>TMNZ-ROT-200039-4c</b>	Situation: <b>Tarawera Road</b>	Revision: A	TMC Approval:
		Drawing By: Samantha Grimes	Checked:
Traffic Management NZ	Drawing Title: Tarawera Road - Crossing (C) - Close up C	Date: 08 September 2020	Date: 08 September 2020



08 September 2020

Safety Zone:  
 1m Lateral Safety Zone  
 Cone Spacing:  
 2.5m in Tapers  
 5m around Work Site  
 Signs to be covered:  
 All permanent speed signs  
 All advisory signs where the speed limit > TSL



**LEGEND**

Cones - .....  
 Safety Zones - .....  
 Work Area - [hatched box]

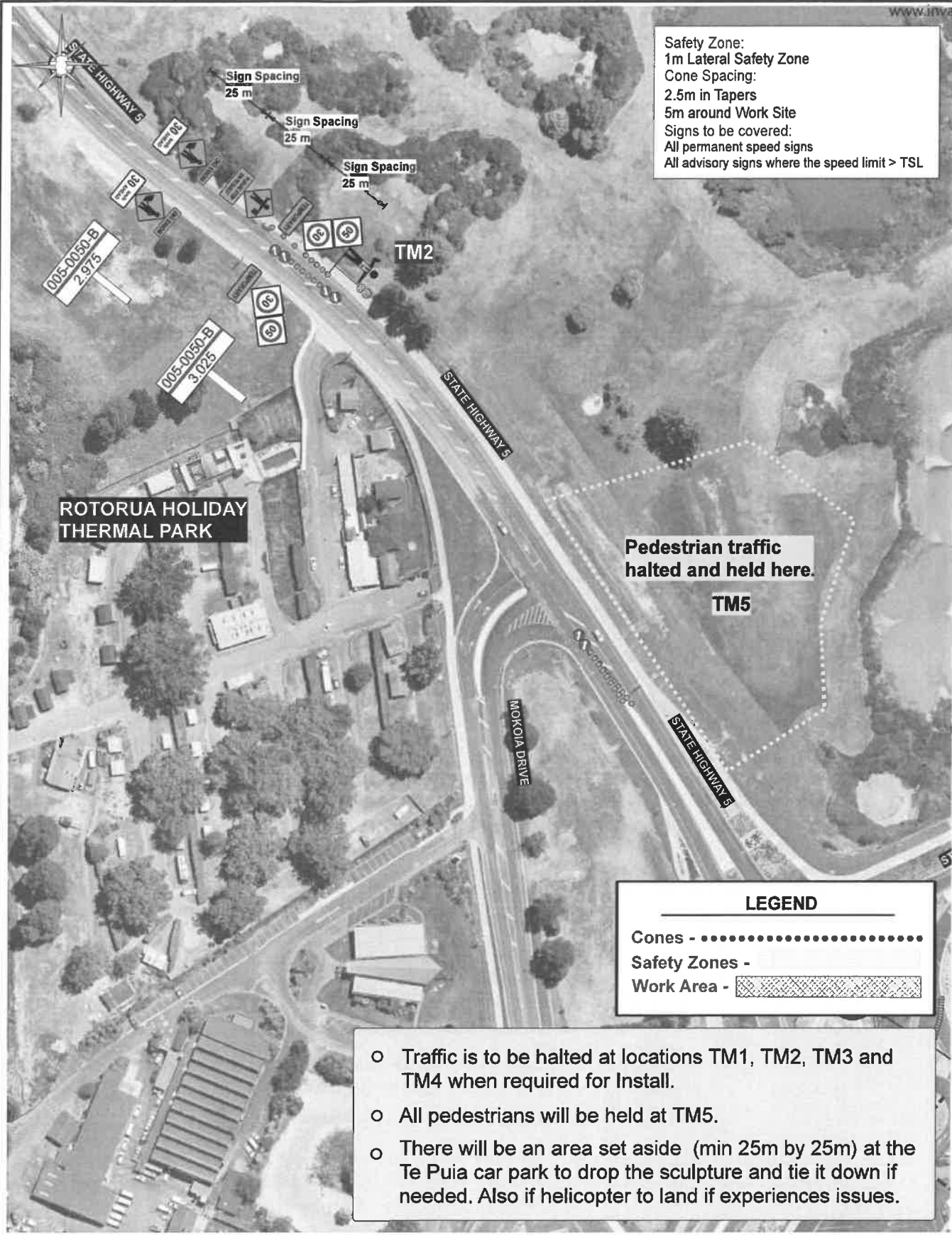
- Traffic is to be halted at locations TM1, TM2, TM3 and TM4 when required for Install.
- All pedestrians will be held at TM5.
- There will be an area set aside (min 25m by 25m) at the Te Puia car park to drop the sculpture and tie it down if needed. Also if helicopter to land if experiences issues.

Situation: <b>Hemo Road RAB</b>	Drawing No: TMNZ-ROT-200039-5	Revision: <b>A</b>
Drawing Title: Hemo Rd RAB - Statue Delivery (D) Helicopter - Overview	Checked: [signature]	Drawing By: <b>Samantha Grimes</b>
<b>Traffic Management NZ</b>		Date: <b>September 2020</b>
www.ivarion.com		TMC Approval: A - BOP East Network September 2020

**K Ā H U** <sup>NZ</sup>

THERE AND BACK SINCE 1988

Safety Zone:  
 1m Lateral Safety Zone  
 Cone Spacing:  
 2.5m in Tapers  
 5m around Work Site  
 Signs to be covered:  
 All permanent speed signs  
 All advisory signs where the speed limit > TSL



**LEGEND**

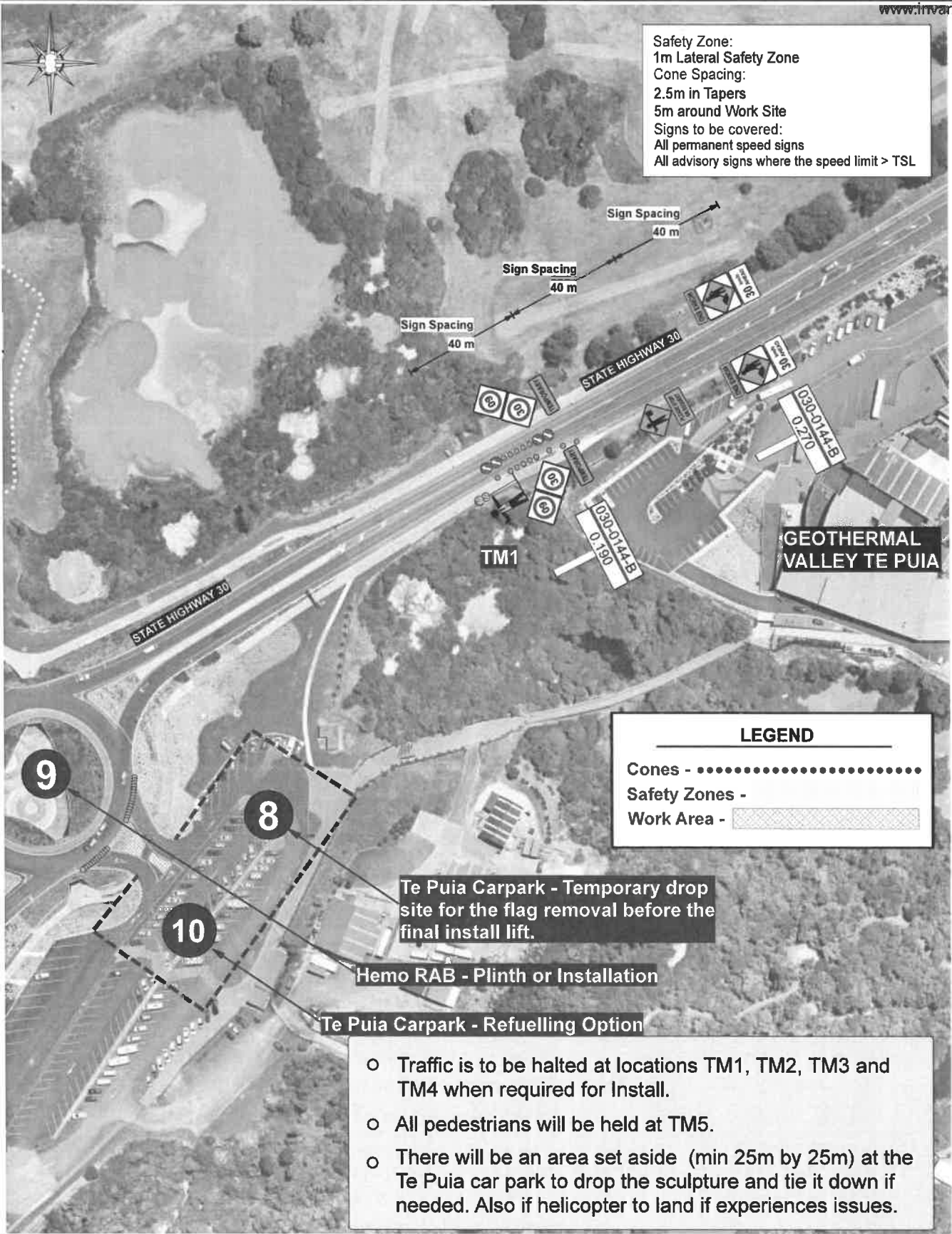
Cones - .....  
 Safety Zones - [hatched box]  
 Work Area - [solid hatched box]

- Traffic is to be halted at locations TM1, TM2, TM3 and TM4 when required for Install.
- All pedestrians will be held at TM5.
- There will be an area set aside (min 25m by 25m) at the Te Puia car park to drop the sculpture and tie it down if needed. Also if helicopter to land if experiences issues.

Situation: <b>Hemo Road RAB</b>	Drawing No: TMNZ-ROT-200039-5a	Revision: A
Drawing Title: Hemo Rd RAB - Statue Delivery (D) Helicopter - Close up A	Checked: [Signature]	Drawing By: Samantha Grimes
Traffic Management NZ		Date: 08 September 2020
Whangarei Auckland Hamilton Invercargill Tapanui Wellington Christchurch		TMC Approval: A - BOP East Network 08 September 2020

**K Ā H U** <sup>TM</sup>

THERE AND BACK SINCE 1998



Safety Zone:  
 1m Lateral Safety Zone  
 Cone Spacing:  
 2.5m in Tapers  
 5m around Work Site  
 Signs to be covered:  
 All permanent speed signs  
 All advisory signs where the speed limit > TSL

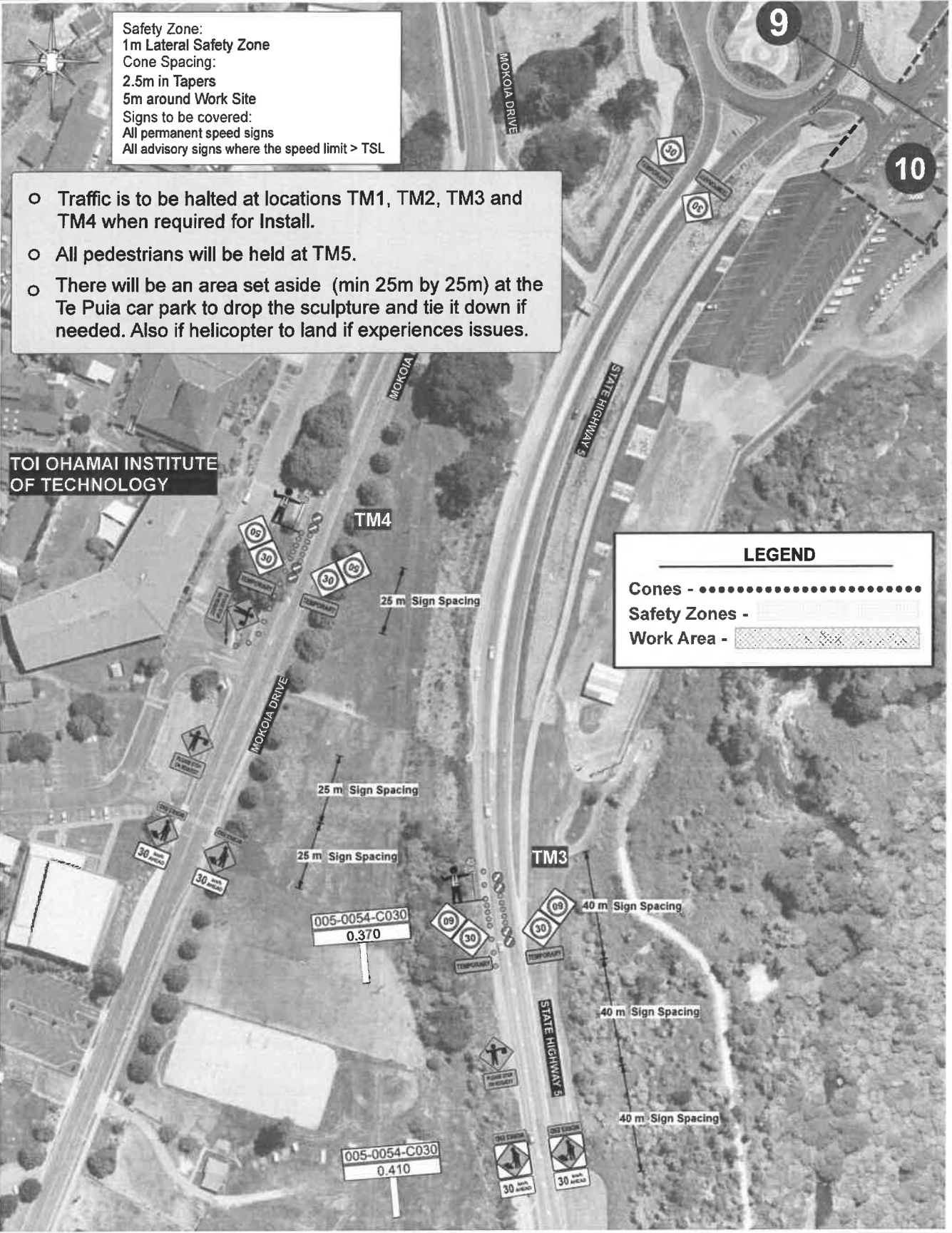
**LEGEND**

Cones - .....  
 Safety Zones - - - - -  
 Work Area - [shaded box]

- Traffic is to be halted at locations TM1, TM2, TM3 and TM4 when required for Install.
- All pedestrians will be held at TM5.
- There will be an area set aside (min 25m by 25m) at the Te Puia car park to drop the sculpture and tie it down if needed. Also if helicopter to land if experiences issues.

Situation: <b>Hemo Road RAB</b>	Drawing No: TMNZ-ROT-200039-5b	Revision: A Drawing By: Samantha Grimes
Drawing Title: Hemo Rd RAB - Statue Delivery (D) Helicopter - Close up B	Checked: [Signature] Date: 5 September 2020	TMC Approval: A - BOP East Network September 2020
<b>Traffic Management NZ</b>		





Safety Zone:  
 1m Lateral Safety Zone  
 Cone Spacing:  
 2.5m in Tapers  
 5m around Work Site  
 Signs to be covered:  
 All permanent speed signs  
 All advisory signs where the speed limit > TSL

- Traffic is to be halted at locations TM1, TM2, TM3 and TM4 when required for Install.
- All pedestrians will be held at TM5.
- There will be an area set aside (min 25m by 25m) at the Te Puia car park to drop the sculpture and tie it down if needed. Also if helicopter to land if experiences issues.

**TOI OHAMAI INSTITUTE OF TECHNOLOGY**

**LEGEND**

Cones - .....  
 Safety Zones - [hatched box]  
 Work Area - [cross-hatched box]

Situation: <b>Hemo Road RAB</b>	Drawing No: TMNZ-ROT-200039-5c	Revision: <b>A</b>
Drawing Title: Hemo Rd RAB - Statue Delivery (D) Helicopter - Close up G		Drawing By: <b>Samantha Grimes</b>
		Checked: <b>[Signature]</b>
		Date: <b>September 2020</b>
		TMC Approval: <b>[Signature]</b>
		Z1A - BOP East Network
		08 September 2020

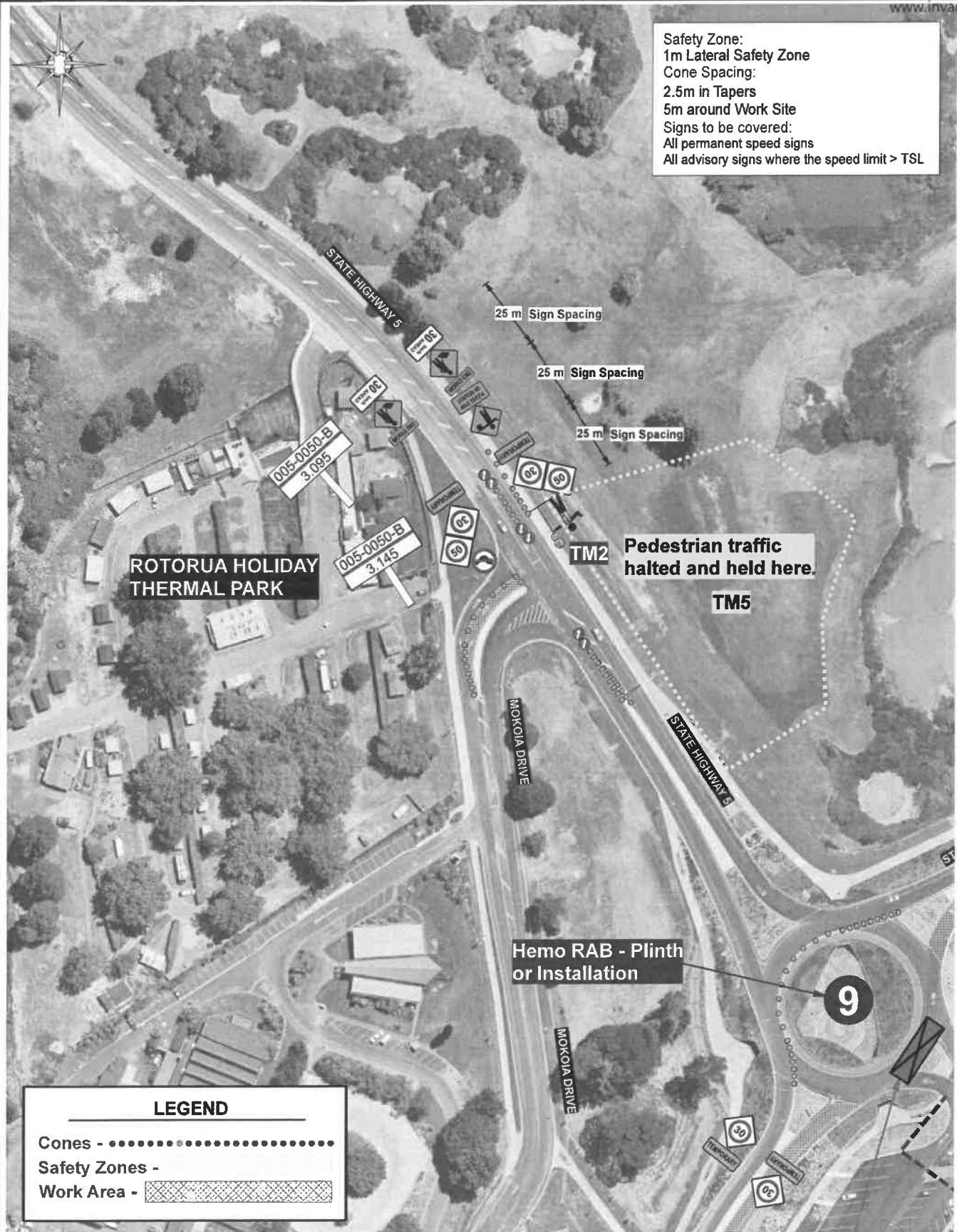
**K A H U** <sup>NT</sup>

THERE AND BACK SINCE 1988





Safety Zone:  
 1m Lateral Safety Zone  
 Cone Spacing:  
 2.5m in Tapers  
 5m around Work Site  
 Signs to be covered:  
 All permanent speed signs  
 All advisory signs where the speed limit > TSL



**ROTORUA HOLIDAY THERMAL PARK**

**TM2 Pedestrian traffic halted and held here.**

**TM5**

**Hemo RAB - Plinth or Installation**

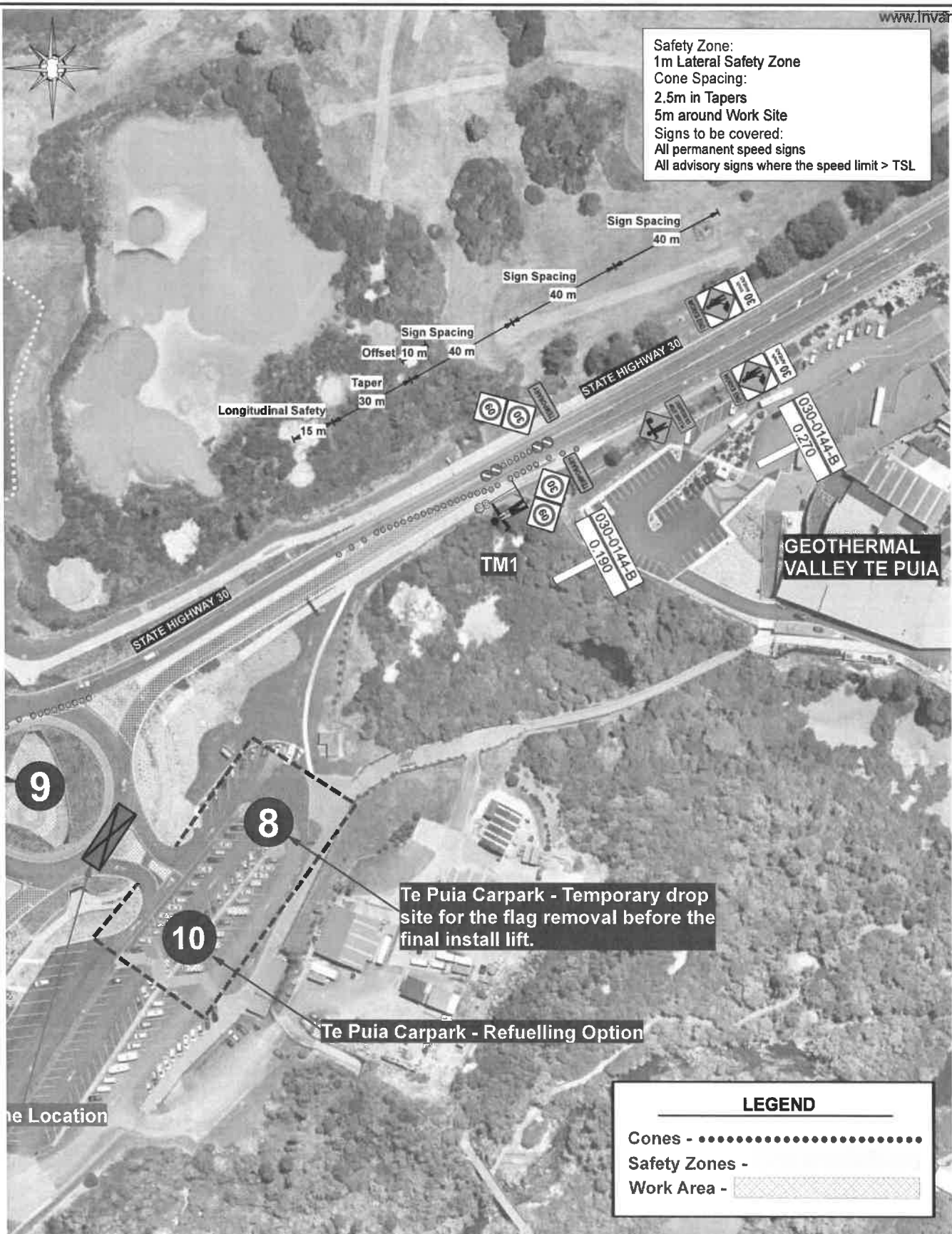
**9**

**LEGEND**

Cones - .....  
 Safety Zones - .....  
 Work Area - [hatched pattern]

Situation: <b>Hemo Rd RAB</b>	Drawing No: TMNZ-ROT-200039-6a	Revision: <b>A</b>
Drawing Title: <b>Hemo Rd RAB - Statue Install (D) Crane - Close up A</b>	Checked: <b>APPROVED</b>	Drawing By: <b>Samantha Grimes</b>
<b>Traffic Management NZ</b>		Date: <b>September 2020</b>
TMC Approval: A - BOP East Network September 2020		

**K Ā H U**   
 THERE AND BACK SINCE 1998



Safety Zone:  
 1m Lateral Safety Zone  
 Cone Spacing:  
 2.5m in Tapers  
 5m around Work Site  
 Signs to be covered:  
 All permanent speed signs  
 All advisory signs where the speed limit > TSL

**GEOHERMAL VALLEY TE PUIA**

Te Puia Carpark - Temporary drop site for the flag removal before the final install lift.

Te Puia Carpark - Refuelling Option

**LEGEND**

Cones - .....  
 Safety Zones - .....  
 Work Area - [hatched pattern]

Situation: Hemo Rd RAB	Drawing No: TMNZ-ROT-200039-6b	Revision: A Drawing By: Samantha Grimes
Drawing Title: Hemo Rd RAB - Statue Install (D) Crane - Close up B	Checked: [Signature]	Date: September 2020
<b>Traffic Management NZ</b>		TMC Approval: [Signature]



---

**From:** Vicki Cawte  
**Sent:** Wednesday, 9 September 2020 1:35 PM  
**To:** Vicki Cawte; Mandy Godo; 'craigw@kilwell.co.nz'; 'nick@tepuia.com'; 'Laszlo Kotan'; Rachel Green; Stewart Brown; Marc Spijkerbosch; Haley Farmer; 'Corrie Balvert'; 'Claire Pedersen-Croll'; 'Jacky James'; Nickie Hunter; Kathy Nicholls  
**Subject:** Heads up - Public notice going out in 10 minutes

Kia ora koutou

The public notice below has been signed off and I am now in the process of sending it out to stakeholders. Please feel free to pass on to your networks.

I will send it out to all of those stakeholders that were identified and notified last week.

## **Major milestone imminent - Te Ahi Tupua installation**

The final milestones for Te Ahi Tupua (aka 'Hemo sculpture') are just around the corner with plans being finalised to relocate the artwork to its home at the southern entrance to Rotorua.

Council, alongside partners Waka Kotahi NZ Transport Agency, Kilwell Fibretube and Te Puia I NZMACI have mapped out the complex operation for installation. The teams are now relying on Mother Nature to provide ideal weather conditions to get the sculpture into place.

The initial part of the installation operation, which involves use of a helicopter to move the artwork, is planned for the next fortnight. The earliest day for transportation is Saturday 12 September. The helicopter operation is strictly weather dependent so while preparation is underway for the earliest opportunity, changes to the forecast could mean transporting Te Ahi Tupua on another day.

The size and shape of the sculpture means the best method of transportation is via a specialty helicopter. The flight path will take the sculpture in two separate trips from Kilwell Fibretube on Te Ngae Road to Te Puia carpark next to the roundabout.

Once the sculpture reaches Te Puia carpark, a crane will lift the sculpture in its two separate pieces and lower them into the roundabout.

### **What you need to know:**

- Installation is strictly weather dependent meaning the team won't know exactly when installation will occur until the morning of.
- There is a limited window of availability for the specialty helicopter. Saturday 12 September is the earliest date for installation.
- The helicopter flight plan avoids all residential areas
- Transportation to Te Puia carpark will take place early in the morning from 6.30am.
- The following temporary traffic management and closures will be in place on the day of the helicopter operation from 6.00am – 10.30am:

- Pedestrian/bike entry to the paths under Hemo roundabout will be closed and will have to use alternative routes.
- Entry to Te Puia carpark (next to the roundabout) will be closed to pedestrians, bikes and vehicles; the main entrance to Te Puia will remain open.
- Stop/Go traffic management will be in place at each arm of the SH5/SH30 Hemo Road roundabout. Motorists may experience delays of up to 10 minutes during this time.
- Stop/Go traffic management will also be in place for short periods of time at Vaughan Road (behind Puketawhero Park), SH30/Te Ngae Road (east of Eastgate Business Park and outside the Rotorua Airport) and Tarawera Road (near intersection with Okareka Loop Road), where the helicopter will cross over public roads. Motorists may experience delays of up to 5 minutes at these locations.

Following installation the team from Kilwell Fibretube will be finishing parts of the construction that can only be done once it is in place within the roundabout. This work is weather dependent but is expected to take about two weeks and the roundabout (and the shared paths underneath) will be open during this time.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

**ROTORUA**  
LAKES COUNCIL

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**Caution:** The content of this email is confidential and may be legally privileged. If it is not intended for you, please email the sender immediately and destroy the original message. You may not copy, disclose or use the contents in any way. Thank You.

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**From:** Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Sent:** Thursday, 10 September 2020 9:01 am  
**To:** Will Bamford; Craig Wilson  
**Subject:** RE: Anchoring ropes

Hi Will,

That's the plan, but we still have to un-hook the chopper and then hook up the crane.

**From:** Will Bamford <Will.Bamford@rotorualc.nz>  
**Sent:** Thursday, 10 September 2020 8:50 AM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Cc:** Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Subject:** RE: Anchoring ropes

Hi Craig

Thanks for sending this through

Good you are thinking about this. How good would it be if the outer is in before the inner arrives and we can attached the inner straight to the crane!?

Yeah, we should have a better idea about wind for Sunday tomorrow morning also.

Will

**Will Bamford** Kaea Hinonga – Senior Project Manager | *Ohu Haumarū - Project Management & Risk Office*  
[07 351 8217](tel:073518217) | [027 205 1794](tel:0272051794) | [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Thursday, 10 September 2020 8:46 am  
**To:** Will Bamford <Will.Bamford@rotorualc.nz>  
**Cc:** Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Subject:** FW: Anchoring ropes

Hi Will,

Fyi – Laz is keeping an eye on the wind and putting in some extra precautions. We do need to keep an eye on the wind and specifically the gusts – but it will me Marks call on the weather tomorrow to see how it looks for Saturday.

We do have several options available:

1. Double ropes and move extra concrete blocks in to tie down the inner to.
2. Lie the inner down as discussed.

The outer is of no concern unless we have a major storm wind.

Regards  
Craig

**From:** Laszlo Kotan <Laszlok@fibretube.co.nz>

**Sent:** Thursday, 10 September 2020 8:18 AM






**To:** David Cass <DavidC@fibretube.co.nz>; Craig Wilson <craigw@kilwell.co.nz>

**Subject:** Anchoring ropes

The wind is right on the max limit for Saturday morning. When we put the anchoring ropes on, please double them up for the inner helix. I'm pretty sure the car park slightly sloping to North, that makes it even worse.

Also, I highlighted the wind speed / gust ratio for today, which is the reason I may seem to be paranoid in some peoples eyes.

Next 48 Hours 7 Days Extended Water Activities Nearby Forecasts

 **WIND** Light winds 9km/h SW  
 **GUST** 17km/h  
 **RAINFALL** 0.0mm  
 **HUMIDITY** 85%  
 **PRESSURE** 1016hPa Stable

Wind: In the last 10mins  
 Rain, humidity, and pressure: Latest hourly observation

Rotorua Automatic Weather Station (93247)



**Rotorua Rain Radar**



**Pollen**

 **POLLEN LEVELS**  
**Moderate**

Type is early grass, macrocarpa, alder, wattle,

Mostly cloudy. Brief rain at night.

Issued: 4:58am Thu, 10 Sep 20

 Information

**Hourly Observations and Forec**

FRI 11 SEP

9pm 10pm 11pm 12am

**Rainfall (mm/h)**

0	0	0	0
---	---	---	---

**Temperature (°C)**

5°	5°	4°	4°
----	----	----	----

**Avg wind speed (not gusts) in km/h**

S	S	S	S
⤴	⤴	⤴	⤴
20	22	20	20

Forecast

Total rainfall so far today: 0.0 mm. Total rain

Kind Regards,  
Laz

Laszlo Kotan  
Factory Manager

**Kilwell Fibretube**

p: +64 (0)7 345 9093, ext 802 | m: +64 (0)21 183 1203

f: +64 (0)7 345 5149 | e: [laszlok@fibretube.co.nz](mailto:laszlok@fibretube.co.nz)

w: [www.kilwellfibretube.co.nz](http://www.kilwellfibretube.co.nz) | f: [facebook.com/KilwellFibretube](https://www.facebook.com/KilwellFibretube)

490 Te Ngae Road, Rotorua 3010 | Private Bag 3033, Rotorua 3046, New Zealand



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---

**From:** Will Bamford  
**Sent:** Thursday, 10 September 2020 1:24 pm  
**To:** 'Craig Wilson'  
**Subject:** RE: Hemo Installation Run Sheet

Thanks Craig

Talk later

Will

**Will Bamford** Kaea Hinonga – Senior Project Manager | *Ohu Haumarū* - Project Management & Risk Office  
07 351 8217 | 027 205 1794 | [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

---

**From:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Sent:** Thursday, 10 September 2020 1:04 pm  
**To:** Will Bamford <[Will.Bamford@rotorualc.nz](mailto:Will.Bamford@rotorualc.nz)>; Laszlo Kotan <[Laszlok@fibretube.co.nz](mailto:Laszlok@fibretube.co.nz)>  
**Cc:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Subject:** RE: Hemo Installation Run Sheet

Yep all good thanks

---

**From:** Will Bamford <[Will.Bamford@rotorualc.nz](mailto:Will.Bamford@rotorualc.nz)>  
**Sent:** Thursday, 10 September 2020 12:47 PM  
**To:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>; Laszlo Kotan <[Laszlok@fibretube.co.nz](mailto:Laszlok@fibretube.co.nz)>  
**Cc:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Subject:** RE: Hemo Installation Run Sheet

Awesome – thanks Craig. Have highlighted changes and notes below. I've also updated Installation Plan. Can you review and let me know if you're happy?

Looking forward to hearing from you/Mark about Saturday! Once we're a bit more confirmed, I'll send a note and the installation plan and runsheet out to everyone.

Will

**Will Bamford** Kaea Hinonga – Senior Project Manager | *Ohu Haumarū* - Project Management & Risk Office  
07 351 8217 | 027 205 1794 | [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

---

**From:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Sent:** Thursday, 10 September 2020 11:39 am  
**To:** Will Bamford <[Will.Bamford@rotorualc.nz](mailto:Will.Bamford@rotorualc.nz)>; Laszlo Kotan <[Laszlok@fibretube.co.nz](mailto:Laszlok@fibretube.co.nz)>  
**Cc:** Kingi Biddle <[Kingi.Biddle@rotorualc.nz](mailto:Kingi.Biddle@rotorualc.nz)>; Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Subject:** RE: Hemo Installation Run Sheet

Hi Will,  
Have just done a 2<sup>nd</sup> reading of the run sheet – just a couple of tweaks

1. Can we add in some parameters for the wind strength – should be a max of 20km (which gusts to 35km). I believe this is the same for Kahu for his flight as well as for securing the inner helix. Have done. Can you check you are happy with Note 2
2. Who is Warren Lawrence – have not seen who/what he is for? He is the team lead from traffic management NZ
3. Have we confirmed with Mark on if he is leaving the chopper here on Friday instead of flying from Whakatane – as this is what he had told me he was doing in our last conversation – am happy to confirm if you wish? He was undecided when we spoke yesterday. If you can please confirm with him that would be good? It only really matters as far in if it brings the times forward or not?
4. We would like one of our own staff Joe Tonihi (Hepa) to be present and participate in the Karakia on departing from Kilwell (so he will be here at 5.30am). Great – Kingi knows Joe and is pleased
5. Can we underline and emphasise that the Outer & Inner helix need to be secured to the concrete blocks before Mark takes off and disengages at the Te Puia carpark (not so critical on the outer – but best to do for both). Done
6. We need a comment to insure we remove the guide ropes from the inside of the outer helix once installed by crane as the inner can not be dropped inside with these in place. Done
7. We could delay the setup of the TMP by 30mins to 5.30 – given chopper is not onsite till 6am and it would then be consistent with the TMP which states setup 30mins before scheduled flight. It would also save approx. \$500. This is what I had originally thought but when Rachel spoke with TMNZ they said it would need to be 5am. Hopefully we can confirm this and push it back to 5:30am tomorrow. I've noted a variance on the plan.

Hi Kingi,

Based on this you will have 10mins for the Karakia – please confirm this is enough time. Just so you are aware the chopper is \$150/min so we don't want any delays at either end to his flight time. Kingi is cognisant of this and they will not hold up the chopper.

Kind regards

Craig Wilson  
Chief Executive  
Kilwell Sports | Kilwell Fibretube

p: +64 (0)7 345 9094, ext 832 | m: +64 (0)21 233 1190  
f: +64 (0)7 345 5149 | e: [craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)  
w: [www.kilwell.co.nz](http://www.kilwell.co.nz) | f: [facebook.com/KilwellSports](https://facebook.com/KilwellSports) | i: [instagram/kilwellsports](https://instagram/kilwellsports)  
w: [www.kilwellfibretube.co.nz](http://www.kilwellfibretube.co.nz) | f: [facebook.com/KilwellFibretube](https://facebook.com/KilwellFibretube)  
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**From:** Will Bamford <[Will.Bamford@rotorualc.nz](mailto:Will.Bamford@rotorualc.nz)>  
**Sent:** Thursday, 10 September 2020 10:45 AM  
**To:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>; Laszlo Kotan <[Laszlok@fibretube.co.nz](mailto:Laszlok@fibretube.co.nz)>  
**Cc:** Kingi Biddle ; Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Subject:** FW: Hemo Installation Run Sheet

Hi Craig and Las

How are you?

Chad and Mark are all good with the runsheet. Still waiting to confirm karakia but it sounds like there will be 1 – 2 people at Kilwell at 6am to undertake one there. Can confirm tomorrow at 3pm around them getting access to Kilwell and your H & S requirements.

Can you please take a look at runsheet and advise of any changes? I will bring copies for everyone tomorrow but hopefully send it out this arvo once Craig/Mark confirm we are still looking good for flying (with final decision to be made Friday).

**Craig** – I've asked Chad to check any of his plans with you. Sounds like it will be him and one other ex. Doppelmayr guy as Mark Craig can no longer make it.

Happy to discuss.

Cheers

Will

**Will Bamford** Kaea Hinonga – Senior Project Manager | **Ohu Haumarū** - Project Management & Risk Office  
07 351 8217 | 027 205 1794 | [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

---

**From:** Will Bamford  
**Sent:** Wednesday, 9 September 2020 4:37 pm  
**To:** 'Mark Law' 'Chad Hooton'  
**Cc:** Stewart Brown <[Stewart.Brown@rotorualc.nz](mailto:Stewart.Brown@rotorualc.nz)>; Marc Spijkerbosch <[Marc.Spijkerbosch@rotorualc.nz](mailto:Marc.Spijkerbosch@rotorualc.nz)>; Haley Farmer · Kingi Biddle · ; Eraia Kiel ·  
Mandy Godo Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>; 'craigw@kilwell.co.nz' <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>; 'nick@tepuia.com' <[nick@tepuia.com](mailto:nick@tepuia.com)>; 'Laszlo Kotan' <[Laszlok@fibretube.co.nz](mailto:Laszlok@fibretube.co.nz)>; Rachel Green  
**Subject:** RE: Hemo Installation Run Sheet

Hi Chad and Mark

Please see attached run sheet for your thoughts? I am trying to keep it relatively high level, but with enough detail so people know when and where they need to be.

I said to everyone I would give them until 5pm before I sent it to you but I said I would be home by then for my wife's birthday dinner!

We still need to clarify the Karakia process but will do this tomorrow.

Can you please make any changes, or let me know and I'll make them? Keen to have this sorted tomorrow by 2pm please.

Will

**Will Bamford** Kaea Hinonga – Senior Project Manager | **Ohu Haumarū** - Project Management & Risk Office  
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**From:** Will Bamford  
**Sent:** Wednesday, 9 September 2020 12:42 pm  
**To:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>; Mandy Godo 'craigw@kilwell.co.nz' <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>; 'nick@tepuia.com' <[nick@tepuia.com](mailto:nick@tepuia.com)>; 'Laszlo Kotan' <[Laszlok@fibretube.co.nz](mailto:Laszlok@fibretube.co.nz)>; Rachel Green ·  
**Cc:** Stewart Brown <[Stewart.Brown@rotorualc.nz](mailto:Stewart.Brown@rotorualc.nz)>; Marc Spijkerbosch <[Marc.Spijkerbosch@rotorualc.nz](mailto:Marc.Spijkerbosch@rotorualc.nz)>; Haley

Farmer

**Subject:** FW: Hemo Installation Plan - 31st August

Kia ora koutou

As discussed, we are looking all go for Saturday morning! Should have final TMP approval by 1:30pm today.

Can you please take a look at the attached DRAFT runsheet and let me know any feedback by **5pm today?**

Once I have got feedback, I will send to Mark and Chad for comment. (Mark knows it is coming but is flying today).

I am trying to keep it relatively high level, but with enough detail so people know when and where they need to be.

Happy to discuss.

Cheers

Will

**Will Bamford** Kaea Hinonga – Senior Project Manager | *Ohu Haumarū* - Project Management & Risk Office  
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**From:** Will Bamford

**Sent:** Monday, 31 August 2020 10:28 pm

**To:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>; Jocelyn Mikaere <[Jocelyn.Mikaere@rotorualc.nz](mailto:Jocelyn.Mikaere@rotorualc.nz)>;

[jacky@shinepr.](mailto:jacky@shinepr.); 'Corrie Balvert' <[Corrie.Balvert@nzta.govt.nz](mailto:Corrie.Balvert@nzta.govt.nz)>; Mandy Godo

Haley Farmer

[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz); Marc Spijkerbosch

<[Marc.Spijkerbosch@rotorualc.nz](mailto:Marc.Spijkerbosch@rotorualc.nz)>; 'nick@tepuia.com' <[nick@tepuia.com](mailto:nick@tepuia.com)>; Nickie Hunter

Stewart Brown <[Stewart.Brown@rotorualc.nz](mailto:Stewart.Brown@rotorualc.nz)>; 'Claire Pedersen-Croll'

<[Claire.Pedersen-Croll@nzta.govt.nz](mailto:Claire.Pedersen-Croll@nzta.govt.nz)>; 'Chris Farnsworth' <[Chris.Farnsworth@nzta.govt.nz](mailto:Chris.Farnsworth@nzta.govt.nz)>; 'Laszlo Kotan'

<[Laszlok@fibretube.co.nz](mailto:Laszlok@fibretube.co.nz)>; 'bopetmps@higgins.

'[steve@trafficmanagementnz](mailto:steve@trafficmanagementnz)

'Mark Law'

'Chad

Hooton'

Joshua Holmes'

Rachel Green

**Subject:** Hemo Installation Plan - 31st August

Tēnā koutou

How are you all?

If you don't know me, I am Will. I am with RLC and am assisting with the Hemo Sculpture Installation Project. I know there has been a few copies of the installation plan floating about, but please attached the most recent (and hopefully final) version. Word and PDF versions are identical.

If we can get TMP approval, weather permitting, we are aiming to fly the helixes to the Te Puia Car Park this Sunday 6th Sept. And either install with the crane that day, or in the week following. Full details are in the plan.

Please let me know if you have any queries.

Cheers

Will

---

**Will Bamford** Kaea Hinonga – *Senior Project Manager* | *Ohu Haumarū* - Project Management & Risk  
Office

**Waea:** 07 351 8217 | **Waea Pūkoro:** 027 205 1794

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**Taunga:** 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**ROTORUA**  
LAKES COUNCIL





# Hemo Sculpture Installation Run Sheet

Revision: Will Bamford (RLC) – 09/09/20

## Thursday 10<sup>th</sup> September

**2:00pm** Mark Law to confirm to Will if fly date is Saturday or Sunday

## Friday 11<sup>th</sup> September

**12:00pm** Mark Law to reconfirm fly day to Will

**1:30pm** Warren, Mark Law, Mandy to meet at Te Puia Car Park and then drive around all TMP sites

**3:00pm** Chad Hooton, Craig Wilson, Haley Farmer, Laszlo Kotan, Leon Thomas (Drone Pilot), Mandy Godo, Mark Law, Nick Dallimore, Rachel Green, Stephen Parker (photographer), Stewart Brown, Vicki Cawte, VR Security, Warren Lawrence, Will Bamford to meet at Hemo Roundabout to go through runsheet and onsite positioning

Laszlo to take plinth cover off, check bolts, put nuts and washers on

Laszlo (with guidance from Nick) to cone off area of Te Puia Car Park required for operation

**5:00pm** VR Security has overnight guard at Hemo to watch over plinth

## Saturday 12<sup>th</sup> September

**5:00am** TMP to set up at all sites

**5:10am** Kahu support staff leave Whakatane (or come over in heli)

**5:30am** Kilwell and Kahu set up at Kilwell for pick up

VR Security sets up at Puketawhero Park and staff at Hemo Roundabout

Chad Hooton, Craig Wilson, Haley Farmer, Laszlo Kotan, Mandy Godo, Nick Dallimore, Photographer, Rachel Green, Stewart Brown, Vicki Cawte, Videographer, Will Bamford arrive and set up at site

**5:50am** Mark leaves Whakatane in heli

**6:05am** Karakia at Kilwell prior to helicopter arriving

**6:10am** Mark arrives Rotorua Airport and connects longline to helicopter, radios traffic management to stop traffic and flies to Kilwell

<b>6:15am</b>	<b>Mark</b> connects Outer Helix to heli, radios traffic management to stop traffic and flys flight path. Crosses Vaughan's Rd at Location 2, then up the lake to Airport crossing Te Ngae Rd at Location 5. Flies across farmland to cross Tarawera Rd at Location 6 and then across the Whakarewarewa Forest to Te Puia Car Park
<b>6:30am</b>	<b>Karakia</b> as first helix is being flown into Te Puia Car Park
<b>6:35am</b>	<b>Mark</b> puts helix down at Te Puia Car Park and waits for it to be secured before disconnecting hook. ,
	Mark radios traffic management to stop traffic then flies back to Kilwell following above flight path in reverse
<b>6:40am</b>	Once heli takes off, connect helix to crane hook and lift into roundabout and commence installation  If possible, install and secure outer helix to sculpture plinth before inner helix arrives at car park. If inner helix arrives before outer helix install is complete, outer helix to be raised and secured by crane within roundabout while inner helix is secured.
<b>6:45am</b>	<b>Mark</b> connects Inner Helix to Heli at Kilwells, radios traffic management to stop traffic and flies flight path. Crosses Vaughan's Rd at Location 2, then up the lake to Airport crossing Te Ngae Rd at Location 5. Flies across farmland to cross Tarawera Rd at Location 6 and then across the Whakarewarewa Forest to Te Puia Car Park  Disestablish <b>traffic management</b> and <b>event security</b> at Vaughans Rd
<b>7:05am</b>	<b>Mark</b> Puts inner helix down at Te Puia Car Park and waits for it to be secured before disconnecting hook then flies flight path back to airport, informing traffic management as required.
<b>7:10am</b>	<b>Mark</b> Disconnects longline, refuels and heads back to Whakatane  Disestablish <b>traffic management</b> at Tarawera Rd and Te Ngae Rd
<b>7:30am</b>	Once outer helix is installed, commence installation of inner helix.
<b>8:30am – 10:30am?</b>	Once inner helix is satisfactorily bolted to baseplate, <b>Karakia</b> to bless site?  Once inner helix is satisfactorily bolted to baseplate, transportation project is complete, <b>traffic management</b> and <b>event security</b> at Hemo Gorge to disestablish.  Site control given to Kilwell following the successful securing and installation of both helix to plinth in Hemo Gorge roundabout – <b>all parties other than Kilwell</b> to disestablish

**Note: Variance expected +/- 15 minutes**





# Hemo Sculpture Installation Project Plan

Revision: Will Bamford (RLC) – 31/08/20

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## **Objective**

This installation plan outlines the process of lifting the Hemo Gorge Roundabout Sculpture from the production facility at Kilwell Fibretube, located at 490 Te Ngae Road to the middle of the roundabout on SH30 outside Te Puia for installation.

**The following must be read and understood by all team members including the attached Project Register.**

## **Project Overview, Hemo Gorge Sculpture**

The sculpture is comprised of two pieces – the inner and outer helixes. Installation methodology has two key stages:

1. Helicopter the sculptures (outer and inner helixes) to Te Puia Car Park
2. Crane sculptures from car park into Hemo Roundabout.

Each helix will be flown to the Te Puia Car Park, and craned into place, separately.

## **Proposed installation date/s**

**Sunday 6<sup>th</sup>, Saturday 12<sup>th</sup>, and Sunday 13<sup>th</sup> September.**

It is expected the installation will take between 2 and 6 hours. Approximate timeframe for installation is 6:30am – 12pm.

If we cannot get Traffic Management Approval for the Hemo Roundabout for Sunday 6<sup>th</sup>, if weather allows, we will consider helicoptering the sculpture from Kilwell to the Te Puia Car Park site and then do the crane install at a later date.

NOTE: Depending on Traffic Management Approval, the two stages could be undertaken separately between Sunday 6<sup>th</sup> and Saturday 19<sup>th</sup> September.

We need it calm or a slight breeze from the west so as to be able to fly in from the east. Preferred time for the lift is early morning to take advantage of low wind and traffic volumes. Wind speed over 20 knots or any wind from the East will mean a No GO. We will make a decision 3 – 4 days before if it looks possible to make the installation, and then a final confirmation the night before. This decision will be made by the pilot in conjunction with the Install Lead.

## **Programme**

- Have a landing platform set up at Te Puia car park with anchor blocks to secure the helixes to
- Have eastern (forest) side of roundabout closed off, with stop/go running traffic through the western side of roundabout
- Have crane parked on road on eastern side of roundabout
- Fly outer helix onto car park landing platform and secure to anchor blocks
- As helicopter flies back to Kilwell, crane picks up outer helix and moves to inside of roundabout (still attached to crane)

- Helicopter lands inner helix at carpark and it's secured to anchor blocks
- Install outer helix and then inner helix by crane.

## **Installation Teams**

The following project plan shows the approximate estimated timings and responsibilities of each team in the installation. Teams are as follows:

- ML** Mark Law (Pilot) & Chopper.  
Role is to lift helixes and place into Te Puia Car Park.
- K1** Kilwell Team No.1 onsite at Kilwell, 490 Te Ngae Road.  
Role is to attach lifting harness and flight sail to helixes and then longline to lifting harness.
- KH1** Kahu Helicopters ground Crew team at Kilwell  
Role is to attach lifting harness and flight sail to helixes and then longline to lifting harness.
- KH2** Kahu Helicopters ground Crew team in Te Puia carpark.  
Role is to guide pilot from landing site, receive loads, and secure helixes before detaching from longline.
- K2** Kilwell team No.2 in Te Puia carpark.  
Role is to manage installation of helixes by crane and bolting of baseplate to sculpture plinth once installed in roundabout.
- IMP** Impell specialist ground team to assist with installation at roundabout
- PC** Pollock Cranes (operator and Dogman)  
Role is to crane helixes from Te Puia Car Park and place on sculpture plinth in roundabout.  
Includes connecting crane line to helix lifting harnesses.
- WB** Will Bamford – RLC lead. Role is to be in charge of the project overview, including having total authority to make decisions on the day of the lift. Contractually, this is Kilwell's responsibility. The installation will still be Kilwell's responsibility, with Will there to make any required judgment calls on the day (with team consultation or solo, as required). He is also be in charge of the overview between all parties (Traffic Management, Event Management, Communications, Groundcrew, Pilot, Crane Operator, Dogman). He will be based at Hemo Roundabout.
- TM** Traffic Management team (TMNZ) at Locations TM1 to 8.  
TM1-4 – Hemo Roundabout Role is to manage traffic around Hemo Roundabout.  
TM5 - Pedestrian Holding area at Toi Ohomai  
TM6-8 – To halt and restart traffic at 3 road locations where ML crosses on route between Kilwell & Hemo  
TM6 – Vaughan Road @ Location  
TM7 – Te Ngae Road @ Location 5  
TM8 – Tarawera Road @ Location 6

## **Location of teams/people**

- Kilwell (pick up): 2 x Kilwell and 1 x Kahu
- Te Puia Car Park: 2 – 3 Kilwell, 2 Kahu, 2 Impell, 1 RLC
- Eastern side of Hemo Rd – 2 x Pollock Cranes
- Hemo Roundabout (drop zone): 3 – 4 Kilwell, 2 Impell
- Traffic Management - 3 areas for Traffic Management to close roads (Traffic Management NZ)
- Event Security – VR Security
- Communications – RLC
- Drone pilot – TBC

## **Event Management**

- Venue Response LTD (VR Security) to keep secure inside of hemo roundabout and associated recreation pathways and emergency landing areas

## **Traffic Management (TMNZ)**

- Flight route is 95% above lake, farmland, and forest. Roads will be closed to allow helicopter with underslung load and longline to cross safely
- We do not require road closure at Roundabout for helicopter to drop off helixes in Te Puia Car Park.
- Specific detail on TMP will be within the approved traffic management plan.
- There are three main components to the Traffic management:

### **Securing helicopter path:**

Stop and go road closures will be set up at the following locations to temporarily close the road (approximately 30seconds) as the helicopter crosses with underslung load and/or longline. This will occur 4 times at each location:

- Vaughans Road Crossing (between 258B and 264 Vaughan Rd)
- Te Ngae Road crossing (cross over Volcanic Air straight onto the paddock which is north of Wahanga-A-Rangi Cres (borders industrial park))
- Tarawera Road Crossing (west of Okareka Loop/Tarawera Rds Intersection)

### **Hemo Roundabout**

The eastern (forest) side of Hemo Roundabout will be closed off, with stop/go running traffic through the western side of roundabout.

### **VMS Boards (if required)**

3 x VMS boards to be installed 3 days prior to event

## Flight Path



Flight path will be the same both ways.

- Location 1** Kilwell Head office at 490 Te Ngae Road
- Location 2** Road Crossing between 258B and 264 Vaughan Road
- Location 3** Turning point in Lake Rotorua
- Location 4** Rotorua Airport
- Location 5** Road Crossing on Te Ngae Road by Airport, before River rats Raft & Kayak and onto the paddock to the south of the wetland / lake
- Location 6** Road Crossing on Tarawera Road, just west of Okareka Loop/Tarawera Rds Intersection
- Location 7** Redwoods forestry crossing
- Location 8** Te Puia Carpark

## **Helicopter Summary**

Once clearance is received from Rotorua Airport ML will confirm with the Hemo Roundabout site teams (KH2, TM, IMP and K2) and begin the flight project plan as detailed below.

### **Outer Helix**

1. Rotorua Airport (Location 4) - ML connects longline to helicopter, radios traffic management to stop traffic and flies to Kilwells (location 1) – 5mins
2. Location 1 - K1/KH1 to connect Outer Helix to ML – 5mins
3. Flight path – ML radios traffic management to stop traffic and flies flight path. Crosses Vaughan's Rd at Location 2, then up the lake to Airport crossing Te Ngae Rd at Location 5. Flies across farmland to cross Tarawera Rd at Location 6 and then across the Whakarewarewa Forest to Te Puia Car Park (Location 8) – 15mins
4. Puts helix down at Te Puia Car Park and waits for it to be secured before disconnecting hook – 5mins
5. Flies flight path back to Kilwells, informing traffic management as required. Filling up at airport if need – 5mins

### **Inner Helix**

6. Location 1 - K1/KH1 to connect Inner Helix to ML – 5mins
7. Flight path – ML radios traffic management to stop traffic and flies flight path. Crosses Vaughan's Rd at Location 2, then up the lake to Airport crossing Te Ngae Rd at Location 5. Flies across farmland to cross Tarawera Rd at Location 6 and then across the Whakarewarewa Forest to Te Puia Car Park (Location 8) – 15mins
8. Puts helix down at Te Puia Car Park and waits for it to be secured before disconnecting hook – 5mins
9. Flies flight path back to airport, informing traffic management as required. Disconnects longline and heads back to Whakatane – 5mins

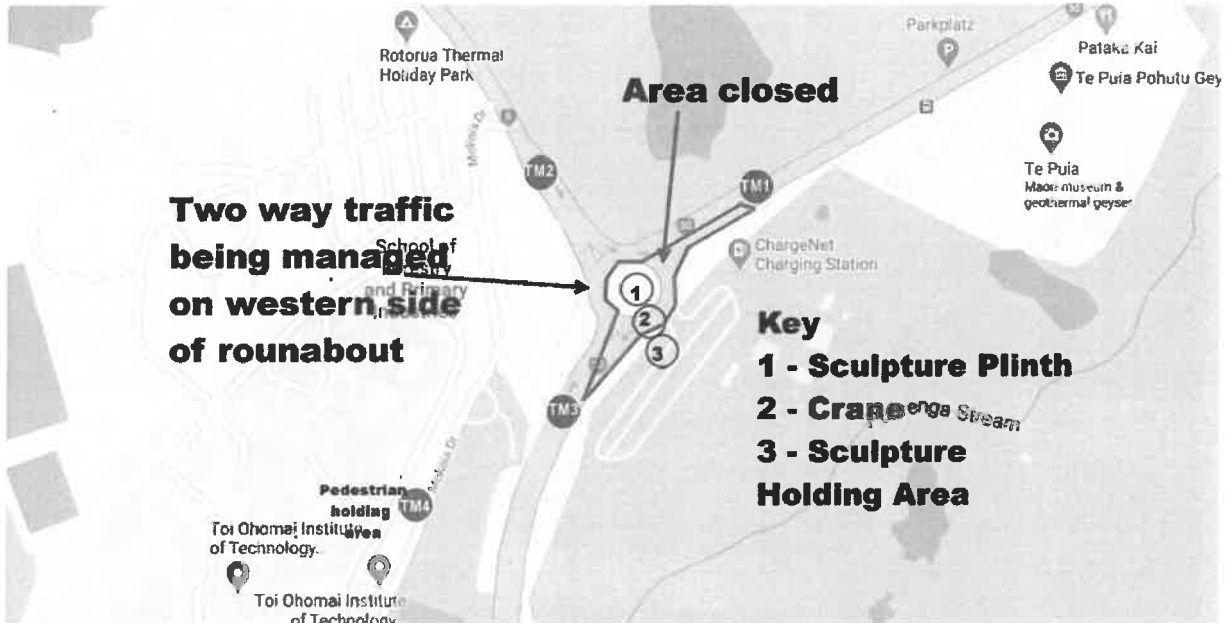
**Total Time – 65 minutes**

## **Crane Summary**

1. Once ML takes off, connect helix to hook and lift into roundabout and commence installation
2. If possible, install and secure outer helix to sculpture plinth before inner helix arrives at car park. If inner helix arrives before outer helix install is complete, outer helix to be raised and secured by crane within roundabout while inner helix is secured.
3. Once outer helix is installed, commence installation if inner helix.
4. It is expected Crane installation will take between 1 and 5 hours.

## **Hemo Roundabout**

Drop zone and Traffic Management locations:



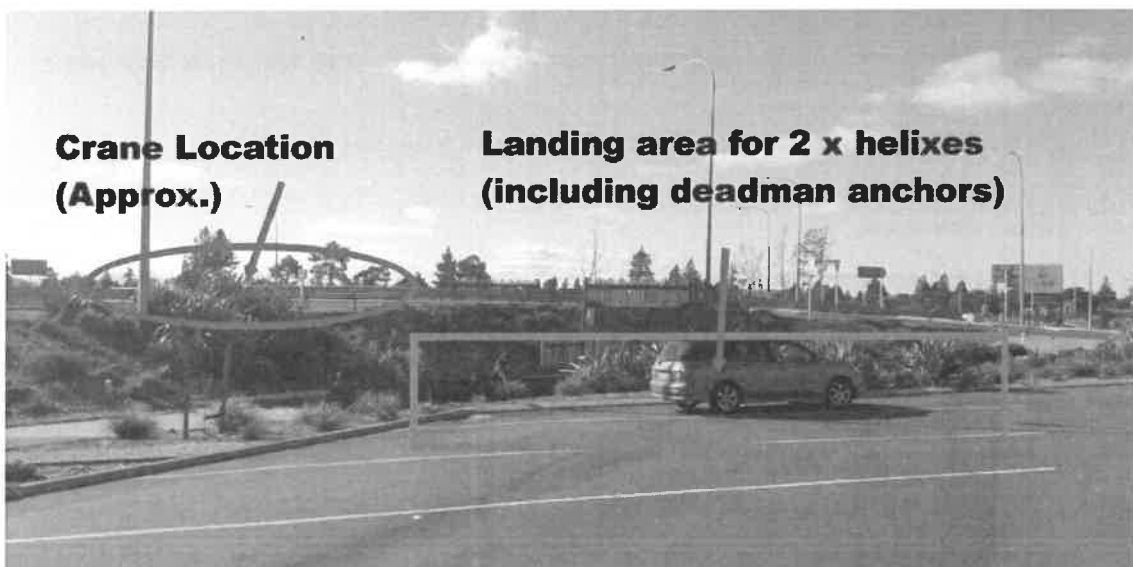
The eastern (forest) side of Hemo Roundabout will be closed off, with stop/go running traffic through the western side of roundabout.

As required, all pedestrian traffic is to be halted and held at TM4.

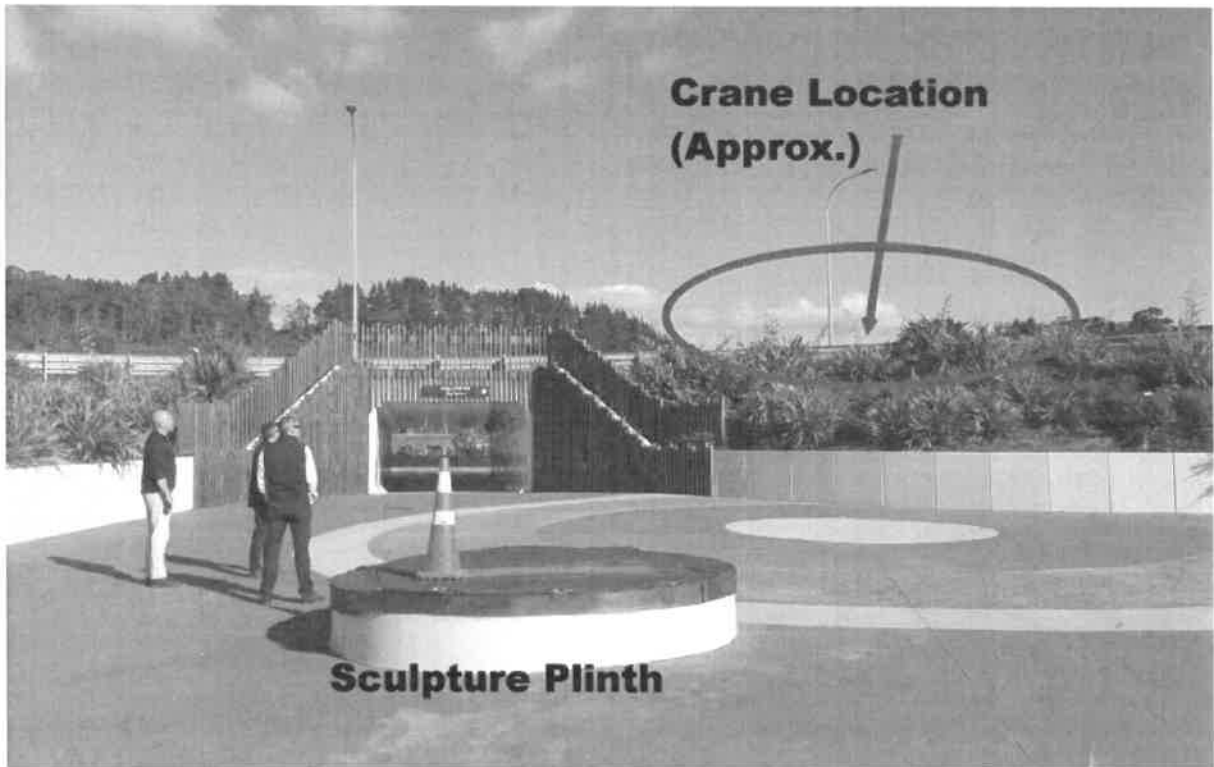
There will be an area set aside (min 25m by 25m) at Te Puia car park to drop the helixes and tie them down. The helixes will be secured by guidelines to deadman anchors (either containers or concrete blocks). This area can also be used for the Helicopter to land if experiencing issues.

The crane will be located on Hemo Road. The distance between the Crane and both the work area in Te Puia Car Park and the sculpture plinth is approximately 25m. The crane has a working reach of 30m.

Landing zone for helixes:



Approximate crane location from inside of roundabout:



### **Installation Trouble Shooting**

- The outer helix will have guidelines on it to guide it to place.
- There is plywood on inside of first helix to guide second one (as it sits inside the outer helix). This one won't have guidelines.
- The bolts the baseplates are dropping on are M16 and the holes in the platform are 25mm. The outer platform is sitting on 48 M16 bolts. The inner helix 24
- We will have 2 – 4 130mm – 150mm bolt sleeves per helix to assist with lining baseplate and bolts up
- The bolts and the baseplate have been run over with a template 3+ times
- The crane allows us to hold the baseplates over the bolts and get alignment before lowering the helixes into place.
- If the bolts are out of alignment or get damaged, PC will lift up and we will have sledge hammers to straighten the bolt back up. If damaged, Laszlo is comfortable rethreading the bolts once helix is in place (or grouting bolt in place)
- We will have angle grinders for worse case scenario of having to get rid of a bolt
- The area in the Te Puia car park will be set up to store the sculptures if we cannot get them installed on the plinth on the day.



## **Communication Plan**

A communications plan is being developed for project communications, and will including notification of all stakeholders, and impacted parties.

### **Installation comms:**

Comms required for teams at Hemo & Traffic Stops (12 sets : ML, KH1, KH2, TM1-TM8, and K2).

Comms between ML, WB, KH1, KH2 and TM6 – Vaughan Road @ Location 2,  
TM7 – Te Ngae Road @ Location 5,  
TM8 – Tarawera Road @ Location 6

Comms between KH1 & KS1 – mobile phone will suffice to enable confirmation of arrival/departure times.


### **Contact Details (key contact of each organisation highlighted)**

KAHU Helicopters	Mark Law	027 4350664
Impell	Chad Hooton	021 588 080
Fire Brigade		111
Higgins	Simon Kirner	021 2756790
Kilwell	Craig Wilson	021 2331190
	Laszlo Kotan	021 1831203
NZTA	Chris Farnsworth	021 612 136
RLC Council	Will Bamford (Install lead)	027 205 1794
	Stewart Brown	021 588 080
	Marc Spijkerbosch	027 280 5639
Te Puia	Nick Dallimore	027 201 1536
WSP	Fred Shilton	027 499 9356
TMNZ	Steve Orr	07 349 3139 / 027 491 9495
VR Security	Janine Anderson/Tony	021 249 6081

## **Plant**

Aircraft – [www.kahu.co.nz](http://www.kahu.co.nz)

The 'Blackhawk' or Sikorsky UH60 is designed for heavy lifting, within New Zealand and the South Pacific. The aircraft is configured for commercial operations.

	<p><b>SEATS: 1 Pilot + 1 Crew</b></p> <p><b>MAX LOAD: 3,600 Kgs</b></p> <p><b>SPEED : 120 Knots with load</b></p> <p><b>SOUND: T88 dba @ 500'</b></p> <p><b>DIMENSIONS: Length: 64 ft 10 in</b>  <b>Width: 9 ft 6.5 in</b>  <b>Height: 16 ft 10 in</b></p> <p><b>ROTOR DIAMETER: 53 ft 8 in</b></p> <p><b>PERFORMANCE:</b></p> <p><b>Service Ceiling: 19,150 ft</b></p> <p><b>VNE: 193 kts</b></p> <p><b>CRUISE: 140 kts</b></p> <p><b>ENDURANCE: 2.1 hrs</b></p>
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**Crane - <https://pollockcranes.co.nz/>**

**Pollock Cranes (Tauranga) – 100 Ton. Can lift 4.5T at a reach of 30metres. The maximum distance the crane will need to reach is 25metres.**





# Hemo Sculpture Installation Run Sheet

Revision: Will Bamford (RLC) – 09/09/20

## Thursday 10<sup>th</sup> September

**2:00pm** Mark Law to confirm to Will if fly date is Saturday or Sunday

## Friday 11<sup>th</sup> September

**12:00pm** Mark Law to reconfirm fly day to Will

**1:30pm** Warren, Mark Law, Mandy to meet at Te Puia Car Park and then drive around all TMP sites

**3:00pm** Chad Hooton, Craig Wilson, Haley Farmer, Laszlo Kotan, Mandy Godo, Mark Law, Nick Dallimore, Photographer, Rachel Green, Stewart Brown, Vicki Cawte, Videographer, VR Security, Warren Lawrence, Will Bamford to meet at Hemo Roundabout to go through runsheet and onsite positioning

Laszlo to take plinth cover off, check bolts, put nuts and washers on

Laszlo (with guidance from Nick) to cone off area of Te Puia Car Park required for operation

**5:00pm** VR Security has overnight guard at Hemo to watch over plinth

## Saturday 12<sup>th</sup> September

**5:00am** TMP to set up at all sites

**5:10am** Kahu support staff leave Whakatane (or come over in heli)

**5:30am** Kilwell and Kahu set up at Kilwell for pick up

VR Security sets up at Puketawhero Park and staff at Hemo Roundabout

Chad Hooton, Craig Wilson, Haley Farmer, Laszlo Kotan, Mandy Godo, Nick Dallimore, Photographer, Rachel Green, Stewart Brown, Vicki Cawte, Videographer, Will Bamford arrive and set up at site

**5:50am** Mark leaves Whakatane in heli

**6:10am** Mark arrives Rotorua Airport and connects longline to helicopter, radios traffic management to stop traffic and flies to Kilwell

**6:15am** Mark connects Outer Helix to heli, radios traffic management to stop traffic and flies flight path. Crosses Vaughan's Rd at Location 2, then up the lake to Airport crossing Te Ngae Rd

at Location 5. Flies across farmland to cross Tarawera Rd at Location 6 and then across the Whakarewarewa Forest to Te Puia Car Park

<b>6:35am</b>	<b>Mark</b> puts helix down at Te Puia Car Park and waits for it to be secured before disconnecting hook. ,
	Mark radios traffic management to stop traffic then flies back to Kilwell following above flight path in reverse
<b>6:40am</b>	Once heli takes off, connect helix to <b>crane</b> hook and lift into roundabout and commence installation
	If possible, install and secure outer helix to sculpture plinth before inner helix arrives at car park. If inner helix arrives before outer helix install is complete, outer helix to be raised and secured by crane within roundabout while inner helix is secured.
<b>6:45am</b>	<b>Mark</b> connects Inner Helix to Heli at Kilwells, radios traffic management to stop traffic and flies flight path. Crosses Vaughan’s Rd at Location 2, then up the lake to Airport crossing Te Ngae Rd at Location 5. Flies across farmland to cross Tarawera Rd at Location 6 and then across the Whakarewarewa Forest to Te Puia Car Park
	Disestablish <b>traffic management</b> and <b>event security</b> at Vaughans Rd
<b>7:05am</b>	<b>Mark</b> Puts inner helix down at Te Puia Car Park and waits for it to be secured before disconnecting hook then flies flight path back to airport, informing traffic management as required.
<b>7:10am</b>	<b>Mark</b> Disconnects longline, refuels and heads back to Whakatane
	Disestablish <b>traffic management</b> at Tarawera Rd and Te Ngae Rd
<b>7:30am</b>	Once outer helix is installed, commence installation of inner helix.
<b>8:30am – 10:30am?</b>	Once inner helix is satisfactorily bolted to baseplate, transportation project is complete, <b>traffic management</b> and <b>event security</b> at Hemo Gorge to disestablish.
	Site control given to Kilwell following the successful securing and installation of both helix to plinth in Hemo Gorge roundabout – <b>all parties other than Kilwell</b> to disestablish

**Note: Variance expected +/- 15 minutes**

---

**From:** Will Bamford  
**Sent:** Thursday, 10 September 2020 3:30 PM  
**To:** Vicki Cawte; Stewart Brown; Jocelyn Mikaere; Haley Farmer; 'Craig Wilson'; 'nick@tepuia.com'; 'Chris Farnsworth'  
**Cc:** Justine Wilmoth  
**Subject:** Final Hemo Documents  
**Attachments:** Te Ahi Tupua Installation Crisis Plan.pdf; Hemo Sculpture Installation Project Plan.pdf; Hemo Sculpture Installation Run Sheet.pdf

Kia ora koutou

We haven't received any confirmation or otherwise from the pilot about Saturday yet. I'll send out an email once I've heard from Craig.

Please see attached final documents for installation of Te Ahi Tupua, including:

- Run Sheet
- Installation Plan
- Crisis Plan

I'll be sending these out to everyone by 10am tomorrow, so please let me know if you require any changes. I'll bring copies to tomorrow's 3pm prestart meeting.

Cheers

Will

---

**Will Bamford** Kaea Hinonga – Senior Project Manager | *Ohu Haumarū* - Project Management & Risk Office

**Waea:** 07 351 8217 | **Waea Pūkoro:** 027 205 1794

**Īmera:** [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | **Ipurangi:** [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

**Taunga:** 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

---

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# Te Ahi Tupua - Installation Crisis Plan

## Core crisis response team

- **Rotorua Lakes Council Installation project Lead – Will Bamford**
  - Responsibility for decisions/judgement calls on day of installation
  - Liaison between project partners and installation crews
  - Based at Hemo roundabout on day of installation. Standing onsite with Craig Wilson
- **Rotorua Lakes Council Emergency Services communicator – Haley Farmer**
  - Responsibility for contacting emergency services in the case of an incident occurring
- **Rotorua Lakes Council Communication lead – Vicki Cawte**
  - Responsibility for coordination RLC communication crisis response
  - Communicate with core stakeholders/project partners to provide status updates
  - Liaise with and manage media – respond to media enquiries
- **Kilwell Fibretube Project Lead – Lazlo Kotan**
  - Manage crews responsible attaching & receiving sculpture pieces to helicopter for transportation
  - Ensure sculpture is secured in place at Te Puia ready for crane portion of installation
- **Traffic management lead – Steve Orr**
  - Responsible for traffic management crews and adherence to approved TMP
- **Security lead – Janine Anderson**
  - Responsible for security personnel and management of crowds or individuals that may try to access work area
- **RLC Project Sponsor/Executive member – Jocelyn Mikaere**

## Emergency contact numbers

- Rotorua Lakes Council Installation project Lead – **Will Bamford**
- Rotorua Lakes Council Emergency Services communicator – **Haley Farmer**
  
- New Zealand Emergency Services – **111**
- New Zealand Aviation security Service - **0508 222 433**
- Rotorua Lakes Council Communications lead - **Vicki Cawte**

## Immediate response to incident requiring Emergency Services

1. Any incident is to be reported to Project Lead (Will Bamford) immediately
2. Project Lead (Will Bamford) to make call to halt operations – he will liaise with Craig Wilson
3. Project Lead (Will Bamford) will inform Emergency Services communicator (Haley Farmer) to contact emergency services

**Note:** If Project Lead is uncontactable all request for Emergency Services should be directed to Emergency Services communicator (Haley Farmer)

4. Emergency Services communicator (Haley Farmer) to call **111** and coordinate emergency services response to incident
5. Emergency Services communicator (Haley Farmer) to call CAA on **0508 222 433**

6. Project Lead (Will Bamford) & Emergency Services communicator (Haley Farmer) to attend scene of incident if safe to do so. **NOTE:** If project lead is not at or unable to reach incident any member of crisis response team can take control to:
  - Determine site controller
  - Ensure scene is cleared of media/public/non-essential project team members
  - Take notes & photographs
  - Direct emergency services (on arrival) to appropriate location at incident
7. Following the arrival of appropriate Emergency services, control of the site of incident will be passed from Project Lead (Will Bamford) to Emergency services
8. Emergency Services communicator (Haley Farmer) and/or Project Lead (Will Bamford) to inform Communication lead (Vicki Cawte)
9. Communication lead (Vicki Cawte) to activate crisis communication plan
10. Project Lead (Will Bamford) to coordinate an appropriate response to all areas outside of control of emergency services

#### Immediate response to incident not requiring Emergency Services

1. Any incident is to be reported to Project Lead (Will Bamford) immediately
2. Project Lead (Will Bamford) to make call to halt operations
3. Project Lead (Will Bamford) to attend scene of incident if safe to do so. **NOTE:** If project lead is not at or unable to reach incident any member of crisis response team can take control to:
  - Determine site controller
  - Ensure scene is cleared of media/public/non-essential project team members
  - Take notes & photographs
4. Communicator (Haley Farmer) and/or Project Lead (Will Bamford) to inform Communication lead (Vicki Cawte)
5. Communication lead (Vicki Cawte) to activate crisis communication plan

#### Initial statements – for any event

- **On-scene staff:**  
**If approached by media**  
 “Our primary focus is the safety of the public and our project team. You cannot be here at this time. Please contact Vicki Cawte, Communications Lead for Rotorua Lakes Council. You can reach her on 027 937 4606”  
 \*if media member does not move along contact security.  
**If you get asked to be on camera**  
 “Thank you, but I do not wish to be on camera. Our media relations manager is Vicki Cawte – she will be able to help you. Please contact her on 027 937 4606”.  
**If approached by member of the public**  
 “Our primary focus is the safety of the public and our project team. You cannot be here at this time. Information will be shared with the community as soon as it is available.”
- **Phone call to project team members**  
 “Thank you for connecting with us. We are in the process of gathering information. Please contact Vicki Cawte, Communications Lead for Rotorua Lakes Council. You can reach her on 027 937 4606.”
- **Communications lead/media manager – Vicki Cawte**  
 “Thank you for connecting with us. We are in the process of gathering information. Can I take your name and number for when we have something to share? We will reach out.”  
 \*Don’t commit to calling back, to a timeline, or to providing a statement. When we have information, we will contact media with our response.



---

**From:** Vicki Cawte  
**Sent:** Thursday, 10 September 2020 3:36 PM  
**To:** 'Craig Wilson'  
**Subject:** RE: For review - interpretation panel and media release comment

Oh cool – do you mind if I grab a copy of the release? Be good to have up my sleeve.

I haven't got a link yet. How are you sending it?

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**LAKES COUNCIL**

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---

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Thursday, 10 September 2020 3:15 pm  
**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Subject:** RE: For review - interpretation panel and media release comment

Hi,

Have shared what we have put together. Let me know if you don't get the link. Feel free to change if too long or structure needs amending.

We also have a media release coming out tomorrow for ETNZ which we did pre covid – great timing!

Cheers

Craig

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**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Thursday, 10 September 2020 2:30 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** RE: For review - interpretation panel and media release comment

Great thanks very much for those changes! Sorry I was thinking of the Fibretube part of the business.

I'll update the media release and get it back out to everyone for review

And yes tomorrow morning is fine for the panel wording. Thanks very much.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Thursday, 10 September 2020 1:21 pm  
**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Subject:** RE: For review - interpretation panel and media release comment

Hi Vicki,

Just a few changes to the below – we have been around for 85+ years, so a lot longer than 50 years (you may be getting mixed up with age!).

Will have a read through the production process part and get this back tomorrow if possible – I assume there is not such a rush on this?

Regards  
Craig

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Thursday, 10 September 2020 11:24 AM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** For review - interpretation panel and media release comment

Kia ora Craig

Just working on some comms stuff.

### **Interpretation panels at Hemo roundabout**

I have written out the story of construction for the interpretation panels on site. Please note it's pretty high level but there isn't a whole lot of space and there needs to be images that fit on the panel too. Plus it has to suit being read by the general public so I've kept a lot of the technical stuff out. Let me know what you think.

Don't mind my little comments in it, that is just me making notes of what type of images can go with the story. Also do you know what the testing machine at Scion is called? And what the unit of measurement is called? I've highlighted those bits as still needing info.

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I am prepping the media release. My aim is to get it signed off today. It will just be a story to say 'Te Ahi Tupua has been installed!'. I've drafted some potential words from you below but feel free to add more/change or provide me with something totally different. Happy to jump on a call to discuss.

Kilwell Fibretube Chief Executive Craig Wilson says for his team, it is extremely satisfying to see Te Ahi Tupua in place.

"Kilwell has been a locally-owned company in Rotorua for more than **[Craig Wilson]** 85-50 years. A lot of our products go off shore so for us, **[Craig Wilson]** bringing to life contributing to a piece of local history and showcasing the innovation of our business was really important.

“This sculpture was locally designed and manufactured. The majority of it is hand-made by our employees. We have a talented team and for most of the project, they were coming up with solutions to things that had never been done before. We are incredibly proud that we had a crew that persevered through the challenges to make something pretty spectacular that can be enjoyed by the whole community.”

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

**P:** 07 351 8044 | **M:** 027 937 4606

**E:** vicki.cawte@rotorualc.nz | **W:** rotorualakescouncil.nz

**A:** 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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---

**From:** Vicki Cawte  
**Sent:** Thursday, 10 September 2020 3:39 PM  
**To:** 'Craig Wilson'  
**Subject:** RE: Te Ahi Tupua (Hemo) Billboard - Invitation to edit

Thanks got it

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Wilson (via Google Docs) <drive-shares-noreply@google.com>  
**Sent:** Thursday, 10 September 2020 3:38 pm  
**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Subject:** Te Ahi Tupua (Hemo) Billboard - Invitation to edit

craigw@kilwell.co.nz has invited you to **edit** the following document:



Te Ahi Tupua (Hemo) Billboard



Here you go

[Open in Docs](#)

This email grants access to this item without logging in. Only forward it to people you trust.

Google Docs: Create and edit documents online.

Google LLC, 1600 Amphitheatre Parkway, Mountain View, CA 94043, USA

You have received this email because craigw@kilwell.co.nz shared a document with you from Google Docs.

Google™



---

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Thursday, 10 September 2020 4:13 pm  
**To:** Will Bamford  
**Subject:** RE: Final Hemo Documents

Hi Will,

Have rung and left message with Mark to both confirm Go/No Go for Saturday morning and his start location(Whakatane/Rotorua Airport). Will let you know when I have a reply.

We were also looking at attaching a GoPro to the sculpture which I will check on with him, do you want to see RLC(Vicki) or anyone else has a problem with this?

Cheers  
Craig

---

**From:** Will Bamford <Will.Bamford@rotorualc.nz>  
**Sent:** Thursday, 10 September 2020 3:30 PM  
**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>; Stewart Brown <Stewart.Brown@rotorualc.nz>; Jocelyn Mikaere <Jocelyn.Mikaere@rotorualc.nz>; Haley Farmer <Haley.Farmer@rotorualc.nz>; Craig Wilson <craigw@kilwell.co.nz>; 'nick@tepuia.com' <nick@tepuia.com>; 'Chris Farnsworth' <Chris.Farnsworth@nzta.govt.nz>  
**Cc:** Justine Wilmoth <Justine.Wilmoth@rotorualc.nz>  
**Subject:** Final Hemo Documents

Kia ora koutou

We haven't received any confirmation or otherwise from the pilot about Saturday yet. I'll send out an email once I've heard from Craig.

Please see attached final documents for installation of Te Ahi Tupua, including:

- Run Sheet
- Installation Plan
- Crisis Plan

I'll be sending these out to everyone by 10am tomorrow, so please let me know if you require any changes. I'll bring copies to tomorrow's 3pm prestart meeting.

Cheers

Will

---

**Will Bamford** Kaea Hinonga – Senior Project Manager | *Ohu Haumarū - Project Management & Risk Office*

**Waea:** 07 351 8217 | **Waea Pūkoro:** 027 205 1794

**Īmera:** [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | **Ipurangi:** [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

**Taunga:** 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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---

**From:** Vicki Cawte  
**Sent:** Thursday, 10 September 2020 5:12 PM  
**To:** 'Craig Wilson'  
**Subject:** RE: Karakia at Kilwell

Awesome – thanks heaps

Ngā mihi

---

**Vicki Cawte**  
*Kaitohu Whakapā*  
P: 07 351 8044 | M: 027 937 4606  
E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)  
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---

**From:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Sent:** Thursday, 10 September 2020 5:05 pm  
**To:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Subject:** RE: Karakia at Kilwell

Yes already sorted with Will & Kingi today. It is only for here when it leaves so our guy (Hepa) will attend here with him.

---

**From:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Sent:** Thursday, 10 September 2020 4:59 PM  
**To:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Subject:** Karakia at Kilwell

Kia ora Craig

I just remembered we spoke about the potential of a couple of your staff being on site during the karakia on Sat? Where did you end up with that one?

Did you still want that to happen?

Ngā mihi

---

**Vicki Cawte**  
*Kaitohu Whakapā*  
P: 07 351 8044 | M: 027 937 4606  
E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)  
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---

**From:** Vicki Cawte  
**Sent:** Thursday, 10 September 2020 6:49 PM  
**To:** 'Craig Wilson'  
**Subject:** RE: For review - interpretation panel and media release comment

Kia ora

I had a look at the content – looks great but I do think that the team will need to pull some key info out. The panels end up having a pretty limited area for text plus photos.

We are looking at how we can provide more info on a web page somewhere. So that will be if people are looking at the panels and want to know more about the sculpture. They can look it up online.

The team will prep the content, once we get the checked on back from Will and then it will all be available for review before anything is finalised.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

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**From:** Will Bamford  
**Sent:** Thursday, 10 September 2020 7:37 PM  
**To:** 'Chad Hooton'; 'craigw@kilwell.co.nz'; Haley Farmer; Mandy Godo; 'Mark Law'; 'nick@tepuia.com'; Rachel Green; Stewart Brown; Vicki Cawte; 'Rotorua Supervisor TMNZ'; 'john@vrltd. '; 'janine@vrltd. '; Eraia Kiel; 'digitalelements.nz '; 'Stephen Parker'; Nikoietta Michael; Simone Walker; Kathy Nicholls; Marc Spijkerbosch; 'Chris Farnsworth'; Jocelyn Mikaere; 'steve@trafficmanagementnz. '; 'Claire Pedersen-Croll'; 'jacky@shinepr. '; 'Corrie Balvert'; 'James Leaingnam'  
**Cc:** 'Josh Coombes (Higgins)'; Justine Wilmoth; Craig Tiriana; Ingrid Tiriana; Jean-Paul Gaston; Thomas Colle; Gina Rangi; 'Shilton, Fred'; Stavros Michael  
**Subject:** Te Ahi Tupua - Installation Saturday 12th September  
**Attachments:** Hemo Sculpture Installation Run Sheet.pdf; Hemo Sculpture Installation Plan.pdf; Te Ahi Tupua Installation Crisis Plan.pdf

Tēnā koutou

Kei te pēhea koe?

I have spoken with Mark Law (pilot – Kahu) and Craig Wilson (Kilwell) who have confirmed the weather is looking ideal for flying Saturday morning. **This is confirmation we are all go for installation of Te Ahi Tupua (Hemo Sculpture) of Saturday morning. This will be reconfirmed by 4pm tomorrow (Friday 11<sup>th</sup> Sept).**

A lot of mahi has occurred to ensure the success of this operation – thank you very much to everyone who has played a part in the preparation of this day. Attached are the final overview documents for the installation ( each component has its own specific detail). Please ensure you share these documents as required. **Everyone who is onsite and apart of this operation must read these documents**, or have a briefing from someone who has if they are sitting within a wider team (such as event management and TMP).

On the day, Craig Wilson and I will be working together to make decisions. While this is a Kilwell operation, I am leading the transportation portion of the install on their behalf. I have overall authority for the operation between the time we assemble onsite of the morning and until the karakia to bless the installation has taken place. My number is 027 205 1794. Haley Farmer will be assisting us. If you cannot reach me on the day – please try her on 0275 559 150.

The key members of each team are meeting for a briefing at Hemo Roundabout tomorrow (Friday 11<sup>th</sup>) at 3pm. If required, you'll have an invite for this but please let me know if you don't and think you should be there?

Please let me know if you have any pātai.

Nau te rourou, naku te rourou, ka ora te manuhiri.

Ngā mihi nui,

Will

---

**Will Bamford** Kaea Hinonga – Senior Project Manager | **Ohu Haumarū** - Project Management & Risk Office

Waea: 07 351 8217 | Waea Pūkoro: 027 205 1794

Īmera: [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | Ipurangi: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

Taunga: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

---

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LAKES COUNCIL





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**From:** Will Bamford  
**Sent:** Friday, 11 September 2020 9:56 AM  
**To:** 'craigw@kilwell.co.nz'; Laszlo Kotan; Rachel Green; Mandy Godo; Kingi Biddle; 'Mark Law'; 'nick@tepuia.com'  
**Cc:** Vicki Cawte; Haley Farmer; Stewart Brown  
**Subject:** Hemo Sculpture Installation Pre Start Agenda  
**Attachments:** Hemo Sculpture Installation Pre Start Agenda.docx

Hi All

See attached Agenda for today. I'll run it and those who know the detail can fill in as required.

Please let me know if you think I've missed anything out and I'll add it on.

See you at 3pm.

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# Hemo Sculpture Pre Start Agenda

Pre-start will be led by Will with each person in charge of each component chipping in.

1. Introduction (led by - Will/Craig)
2. Who is who (Will/Craig)
3. Who is in charge (Will)
  - a. Overall
  - b. Each component
4. Run through of installation
  - a. Karakia (Kingi)
  - b. Helicopter/Flight Plan (Craig Law)
  - c. Crane (Laszlow)
  - d. On ground crew (Chad/Laszlow)
  - e. Traffic management (Mandy/Warren)
  - f. Event Management (Rachel/Janine)
    - i. Security
    - ii. Public viewing areas
  - g. Communications (Vicki)
    - i. Drone
    - ii. Photograph
    - iii. Media
5. Health and Safety (Will/Mark/Laszlow/Chad/Nick)
  - a. PPE
  - b. Who needs to be where and where you can't be
  - c. Ablutions – Te Puia toilet block
6. What happens if we experience issues (Will/Mark/Laszlow/Chad/Nick)
7. Break out and look at each component in groups as required



---

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Friday, 11 September 2020 11:06 am  
**To:** Will Bamford; Laszlo Kotan; Rachel Green; Mandy Godo; Kingi Biddle; 'Mark Law'; 'nick@tepuia.com'  
**Cc:** Vicki Cawte; Haley Farmer; Stewart Brown  
**Subject:** RE: Hemo Sculpture Installation Pre Start Agenda

Hi Will,

We had our final team meeting today and a few questions came out as per below:

1. We will have a scissor lift being dropped off at 6am (needed for both install and work next week) from Higher-Safe. It can be left parked in one of the MTB tunnels then.
2. The Crane will be arriving at 5am and will take up to an hour to setup (although could be 30mins) – so will we have traffic management at Hemo Roundabout in place by then for this?
3. Where do we park onsite at Hemo?

Regards  
Craig

---

**From:** Will Bamford <Will.Bamford@rotorualc.nz>  
**Sent:** Friday, 11 September 2020 9:56 AM  
**To:** Craig Wilson <craigw@kilwell.co.nz>; Laszlo Kotan <Laszlok@fibretube.co.nz>; Rachel Green  
Mandy Godo · : Kingi Biddle  
'Mark Law' 'nick@tepuia.com'  
**Cc:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>; Haley Farmer Stewart Brown  
<Stewart.Brown@rotorualc.nz>  
**Subject:** Hemo Sculpture Installation Pre Start Agenda

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Office

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Īmera: [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | Ipurangi: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

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---

**From:** Will Bamford  
**Sent:** Friday, 11 September 2020 11:13 am  
**To:** 'Laszlo Kotan'  
**Subject:** RE: Hemo Sculpture Installation Pre Start Agenda

Thanks Las

Sorry – I did notice it but got a phone call and forgot to take it out!

Sorry! 😊

**Will Bamford** Kaea Hinonga – Senior Project Manager | *Ohu Haumarū* - Project Management & Risk Office  
07 351 8217 | 027 205 1794 | [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

---

**From:** Laszlo Kotan <[Laszlok@fibretube.co.nz](mailto:Laszlok@fibretube.co.nz)>  
**Sent:** Friday, 11 September 2020 11:12 am  
**To:** Will Bamford <[Will.Bamford@rotorualc.nz](mailto:Will.Bamford@rotorualc.nz)>  
**Subject:** RE: Hemo Sculpture Installation Pre Start Agenda

Hi Will

There is a surplus W at the end of my name in the document 😊

Cheers,  
Laszlo

---

**From:** Will Bamford <[Will.Bamford@rotorualc.nz](mailto:Will.Bamford@rotorualc.nz)>  
**Sent:** Friday, 11 September 2020 9:56 AM  
**To:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>; Laszlo Kotan <[Laszlok@fibretube.co.nz](mailto:Laszlok@fibretube.co.nz)>; Rachel Green  
Mandy Godo Kingi Biddle  
'Mark Law' 'nick@tepuia.com' <[nick@tepuia.com](mailto:nick@tepuia.com)>  
**Cc:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>; Haley Farmer Stewart Brown  
<[Stewart.Brown@rotorualc.nz](mailto:Stewart.Brown@rotorualc.nz)>  
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Will

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---

**From:** Will Bamford  
**Sent:** Friday, 11 September 2020 12:18 pm  
**To:** 'James Ledingham'; Tony Stanton  
**Cc:** 'Craig Wilson'; Stewart Brown  
**Subject:** FW: Hemo Sculpture - producer statement  
**Attachments:** GU6706 - PS1 - GU6706 Hemo Gorge Sculpture Design - Gurit APAC RevA.pdf

Hi James and Tony

How are you?

Is it possible to please get a copy of the calculations you refer to in this PS1?

Thanks

Will

**Will Bamford** Kaea Hinonga – Senior Project Manager | *Ohu Haumarū* - Project Management & Risk Office  
07 351 8217 | 027 205 1794 | [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

---

**From:** Will Bamford  
**Sent:** Thursday, 10 September 2020 11:29 am  
**To:** 'Craig Wilson' <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>; Laszlo Kotan <[Laszlok@fibretube.co.nz](mailto:Laszlok@fibretube.co.nz)>  
**Cc:** Stewart Brown <[Stewart.Brown@rotorualc.nz](mailto:Stewart.Brown@rotorualc.nz)>  
**Subject:** RE: Hemo Sculpture - producer statement

Hi Craig

Is it possible to please get a copy of the calculations Gurit references to in their PS1?

Will

**Will Bamford** Kaea Hinonga – Senior Project Manager | *Ohu Haumarū* - Project Management & Risk Office  
07 351 8217 | 027 205 1794 | [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

---

**From:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Sent:** Wednesday, 2 September 2020 4:30 pm  
**To:** Will Bamford <[Will.Bamford@rotorualc.nz](mailto:Will.Bamford@rotorualc.nz)>; Laszlo Kotan <[Laszlok@fibretube.co.nz](mailto:Laszlok@fibretube.co.nz)>; Fred Shilton <[fred.shilton@opus.co.nz](mailto:fred.shilton@opus.co.nz)>  
**Cc:** Stewart Brown <[Stewart.Brown@rotorualc.nz](mailto:Stewart.Brown@rotorualc.nz)>; Marc Spijkerbosch <[Marc.Spijkerbosch@rotorualc.nz](mailto:Marc.Spijkerbosch@rotorualc.nz)>; 'Chris Farnsworth' <[Chris.Farnsworth@nzta.govt.nz](mailto:Chris.Farnsworth@nzta.govt.nz)>; Haley Farmer  
**Subject:** RE: Hemo Sculpture - producer statement

Hi All,

I have attached the PS1 Certificate from Gurit as well as an Zipped file of Project Report from Gurit – we have loads more but can only include so many on an email as they tend to be chunky reports.

Regards  
Craig

**From:** Will Bamford <Will.Bamford@rotorualc.nz>  
**Sent:** Wednesday, 2 September 2020 2:31 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>; Laszlo Kotan <Laszlok@fibretube.co.nz>; Fred Shilton <fred.shilton@opus.co.nz>  
**Cc:** Stewart Brown <Stewart.Brown@rotorualc.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; 'Chris Farnsworth' <Chris.Farnsworth@nzta.govt.nz>; Haley Farmer  
**Subject:** Hemo Sculpture - producer statement

Hi Craig and Laz

How's it going?

Just spoke with Chris from NZTA. Can you please send us a copy of all the producer statements/engineer review documents for the sculpture? Their structural team are after them.

**Fred**, can you please flick through any producer statements for the plinth?

Please let me know if you have any queries.

Will

---

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LAKES COUNCIL

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**From:** Will Bamford  
**Sent:** Friday, 11 September 2020 12:45 pm  
**To:** 'Craig Wilson'; 'Laszlo Kotan'; Rachel Green; Mandy Godo; Kingi Biddle; 'Mark Law'; 'nick@tepuia.com'  
**Cc:** Vicki Cawte; Haley Farmer; Stewart Brown; 'Rotorua Supervisor TMNZ'  
**Subject:** RE: Hemo Sculpture Installation Pre Start Agenda  
**Attachments:** Hemo Sculpture Installation Run Sheet.pdf

Hi all

Amended runsheet to reflect below comments. But using the original one is fine too.

I'll bring printed copies today.

Will

**Will Bamford** Kaea Hinonga – Senior Project Manager | *Ohu Haumarū* - Project Management & Risk Office  
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**Cc:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>; Haley Farmer  
<[Stewart.Brown@rotorualc.nz](mailto:Stewart.Brown@rotorualc.nz)>; 'Rotorua Supervisor TMNZ'  
Stewart Brown  
**Subject:** RE: Hemo Sculpture Installation Pre Start Agenda

Hi Craig

Ideal

Thank you.

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2. The Crane will be arriving at 5am and will take up to an hour to setup (although could be 30mins) – so will we have traffic management at Hemo Roundabout in place by then for this? We spoke with Warren. They will be setting up the TMP from 5am for a closure from 6am. They should be able to start the closure between 5:30am and 5:45am but can't do it any earlier than that due to how our approvals are. He will run through this at our 3pm meeting. He said the Crane can arrive and sit in the Te Puia Car Park/off ramp and then set up as soon as they have it closed?
3. Where do we park onsite at Hemo? In the south end of the southern te puia car park (where we will be working from). Or in the car park off Mokoia Drive if they may need to leave during the operation?

Regards  
Craig

---

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LAKES COUNCIL

# Hemo Sculpture Installation Run Sheet

Revision: Will Bamford (RLC) – 11/09/20

## Thursday 10<sup>th</sup> September

**5:00pm** Mark Law to confirm to Will if fly date is Saturday or Sunday  
Will to communicate fly date to all involved

## Friday 11<sup>th</sup> September

**12:00pm** Mark Law to reconfirm fly day to Will

**2:00pm** Warren, Mark Law, Mandy to meet at Kilwell and then drive around all TMP sites

**3:00pm** Chad Hooton, Craig Wilson, Haley Farmer, Laszlo Kotan, Leon Thomas (Drone Pilot), Mandy Godo, Marc Spijkerbosch, Mark Law, Nick Dallimore, Rachel Green, Stephen Parker (photographer), Stewart Brown, Vicki Cawte, VR Security, Warren Lawrence, Will Bamford to meet at Hemo Roundabout to go through runsheet and onsite positioning

Laszlo to take plinth cover off, check bolts, put nuts and washers on

Laszlo (with guidance from Nick) to cone off area of Te Puia Car Park required for operation

**5:00pm** VR Security has overnight guard at Hemo to watch over plinth

## Saturday 12<sup>th</sup> September

**5:00am – 5:30am** TMP to set up at all sites  
Crane arrives at Hemo and starts set up once TMP is in place

**5:10am** Kahu support staff leave Whakatane (or come over in heli)

**5:30am** Kilwell and Kahu set up at Kilwell for pick up  
VR Security sets up at Puketawhero Park and staff at Hemo Roundabout  
Chad Hooton, Craig Wilson, Haley Farmer, Laszlo Kotan, Mandy Godo, Marc Spijkerbosch, Nick Dallimore, Photographer, Rachel Green, Stewart Brown, Vicki Cawte, Videographer, Will Bamford arrive and set up at site

**5:50am** Mark leaves Whakatane in heli

**6:05am** Karakia at Kilwell prior to helicopter arriving (5 x Whakaue plus Joe Tonihi)  
Scissor lift arrives at Hemo (Higher-Safe) and gets parked in underpass tunnel

**6:10am** Mark arrives Rotorua Airport and connects longline to helicopter, radios traffic management to stop traffic and flies to Kilwell

6:15am	Mark connects Outer Helix to heli, radios traffic management to stop traffic and flies flight path. Crosses Vaughan's Rd at Location 2, then up the lake to Airport crossing Te Ngae Rd at Location 5. Flies across farmland to cross Tarawera Rd at Location 6 and then across the Whakarewarewa Forest to Te Puia Car Park
6:35am	Mark puts helix down at Te Puia Car Park <b><u>Outer helix to be secured to the concrete blocks before Mark disconnects and takes off</u></b>
	Mark radios traffic management to stop traffic then flies back to Kilwell following above flight path in reverse
6:40am	Once heli takes off, connect outer helix to crane hook and lift into roundabout and commence installation  If possible, install and secure outer helix to sculpture plinth before inner helix arrives at car park. If inner helix arrives before outer helix install is complete, outer helix to be raised and secured by crane within roundabout while inner helix is secured.
6:45am	Mark connects Inner Helix to Heli at Kilwells, radios traffic management to stop traffic and flies flight path. Crosses Vaughan's Rd at Location 2, then up the lake to Airport crossing Te Ngae Rd at Location 5. Flies across farmland to cross Tarawera Rd at Location 6 and then across the Whakarewarewa Forest to Te Puia Car Park  Disestablish <b>traffic management</b> and <b>event security</b> at Vaughans Rd
7:05am	Mark Puts inner helix down at Te Puia Car Park and waits for it to be secured before disconnecting hook then flies flight path back to airport, informing traffic management as required.  <b><u>Inner helix to be secured to the concrete blocks before Mark disconnects and takes off</u></b>  Mark radios traffic management to stop traffic then flies back to Kilwell following above flight path in reverse
7:10am	Mark arrives at Rotorua Airport, disconnects longline, refuels and heads back to Whakatane  Disestablish <b>traffic management</b> at Tarawera Rd and Te Ngae Rd
7:10am - ?	Once outer helix is installed, <b><u>Kilwell to remove the guide ropes from the inside of the outer helix before crane commence installation of inner helix</u></b>  Commence crane installation of inner helix
8:30am – 10:30am?	Once inner helix is satisfactorily bolted to baseplate, Karakia to bless site  Once karakia is complete, the transportation project is complete. <b>Traffic management</b> and <b>event security</b> at Hemo Gorge to disestablish.  Site control given to Kilwell following the successful securing and installation of both helix to plinth in Hemo Gorge roundabout – <b>all parties other than Kilwell</b> to disestablish

**Notes:**

1. **Variance expected +/- 15 minutes**
2. **Max wind speed for operation is 20km (with gusts up to 35km)**
3. **Car parking in the unsealed section of the southern te puia car park or on Mokoia Drive**



---

**From:** Vicki Cawte  
**Sent:** Friday, 11 September 2020 1:31 PM  
**To:** 'Craig Wilson'  
**Cc:** Benn Bathgate  
**Subject:** RE: Stuff query

Kia ora Craig

Thanks for looping me in – Benn is definitely on the list to get the media pack.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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---

**From:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Sent:** Friday, 11 September 2020 12:25 pm  
**To:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Cc:** Benn Bathgate <[benn.bathgate@stuff.co.nz](mailto:benn.bathgate@stuff.co.nz)>  
**Subject:** FW: Stuff query

Hi Vicki,

Just had a call from Benn, who we have been in touch with before over the sculpture.

Can you provide him with the media pack etc.

Kind regards

Craig Wilson  
Chief Executive  
Kilwell Sports | Kilwell Fibretube

p: +64 (0)7 345 9094, ext 832 | m: +64 (0)21 233 1190

f: +64 (0)7 345 5149 | e: [craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)

w: [www.kilwell.co.nz](http://www.kilwell.co.nz) | f: [facebook.com/KilwellSports](https://www.facebook.com/KilwellSports) | i: [instagram/kilwellsports](https://www.instagram.com/kilwellsports)

w: [www.kilwellfibretube.co.nz](http://www.kilwellfibretube.co.nz) | f: [facebook.com/KilwellFibretube](https://www.facebook.com/KilwellFibretube)

490 Te Ngae Road, Rotorua 3010 | Private Bag 3033, Rotorua 3046, New Zealand



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**From:** Benn Bathgate <[benn.bathgate@stuff.co.nz](mailto:benn.bathgate@stuff.co.nz)>  
**Sent:** Wednesday, 4 December 2019 8:54 AM  
**To:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Subject:** Re: Stuff query

Hi Craig,

Thanks and that'd be perfect.

I should note too, if it's easier I'd be happy to talk over the phone at a time that suited?

Kind regards,

Benn

On Tue, 3 Dec 2019 at 22:00, Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)> wrote:

Hi Benn,

Pretty swamped at the moment with an Australian customer over for the week and Xmas rush starting for us - maybe towards end of next week?

Regards  
Craig

---

**From:** Benn Bathgate <[benn.bathgate@stuff.co.nz](mailto:benn.bathgate@stuff.co.nz)>  
**Sent:** Monday, 2 December 2019 12:28 PM  
**To:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Subject:** Stuff query

Hi Craig,

Benn from Stuff here.

I wanted to ask whether you might have a few minutes spare sometime this week?

I'd like to finally put something together on the Hemo Gorge sculpture so was hoping we could speak about how it's going?

Kind regards,

Benn

--

**Benn Bathgate**  
Reporter

**E** [benn.bathgate@stuff.co.nz](mailto:benn.bathgate@stuff.co.nz) | **M** 027 204 2918  
1289 Fenton St, Rotorua, 3015, New Zealand



---

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Friday, 11 September 2020 2:48 PM  
**To:** Vicki Cawte  
**Subject:** RE: For review - interpretation panel and media release comment  
**Attachments:** Interpretation panel - Kilwell Fibretube v1.1.docx

Hi Vicki,

We have made a start at updating the attached – version 1.1 attached.

Would like to review again next week before we finalise.

Regards  
Craig

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Thursday, 10 September 2020 11:24 AM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** For review - interpretation panel and media release comment

Kia ora Craig

Just working on some comms stuff.

#### **Interpretation panels at Hemo roundabout**

I have written out the story of construction for the interpretation panels on site. Please note it's pretty high level but there isn't a whole lot of space and there needs to be images that fit on the panel too. Plus it has to suit being read by the general public so I've kept a lot of the technical stuff out. Let me know what you think.

Don't mind my little comments in it, that is just me making notes of what type of images can go with the story. Also do you know what the testing machine at Scion is called? And what the unit of measurement is called? I've highlighted those bits as still needing info.

#### **Media release content**

I am prepping the media release. My aim is to get it signed off today. It will just be a story to say 'Te Ahi Tupua has been installed!'. I've drafted some potential words from you below but feel free to add more/change or provide me with something totally different. Happy to jump on a call to discuss.

Kilwell Fibretube Chief Executive Craig Wilson says for his team, it is extremely satisfying to see Te Ahi Tupua in place.

"Kilwell has been a locally-owned company in Rotorua for more than 50 years. A lot of our products go off shore so for us, contributing to a piece of local history and showcasing the innovation of our business was really important.

"This sculpture was locally designed and manufactured. The majority of it is hand-made by our employees. We have a talented team and for most of the project, they were coming up with solutions to things that had never been done before. We are incredibly proud that we had a crew that persevered through the challenges to make something pretty spectacular that can be enjoyed by the whole community."

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

**P:** 07 351 8044 | **M:** 027 937 4606

**E:** vicki.cawte@rotorualc.nz | **W:** rotorualakescouncil.nz

**A:** 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

---

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## How was the sculpture made?

### Construction of Te Ahi Tupua

The construction of Te Ahi Tupua took between 23 – 25 months and during that time, Kilwell Fibretube spent more than 20,000 hours building the sculpture by hand. 3D printing began in March 2018 and assembly of the first sections started in April 2018. The second helix was erected in January 2020 with minor cosmetic works in the months following.

### Printing

The first step in the process was converting the design to a digital format to enable 3D printing to begin. Victoria University digital design lecturer Derek Kawiti conceptualised the sculpture and converted it into a digital format. Derek and Gurit Composite Engineering then broke the image into individual files to enable Kilwell Fibretube to print them on their Raise3D N2 printers.

The internal structure is built from more than 1200 interlocking 3D printed cylinder blocks. The blocks are made from Polylactic Acid (PLA), a thermoplastic often derived from renewable sources such as corn starch or sugar cane. More than 262 kms of PLA material was used during printing. Each block is unique like a fingerprint, and when connected, fit together to create the long curved sections that gives Te Ahi Tupua its shape.

The unique shape of each block was essential to maintaining the curved design. The interlocking keys on the end of each block were printed to a precise degree to ensure that, as they were connected, the curve of the entire length followed the correct pattern.

The 3D printing process took in excess of 17,000 hours with the printers working 24/7 for over 6 months to complete. This required staff to check the printers twice a day to swap over filament and remove completed pieces as they took between 7 (for the inner helix) and 19 hours (for the Outer Helix) to print.

### Assembly

Once printed, the 3D printed sections were glued together to create short 3 metre sections. Those sections were then fitted with a carbon fibre sleeve and cured with a layer of epoxy resin to seal the 3D printed surface. Several of these sections were then joined together to form the full 12 metre lengths. Each length was then hand-wrapped in layers of carbon fibre and fibreglass material. After every five layers were applied by hand, the sections were vacuum infused with epoxy resin (to draw the resin through the composite layers). To achieve the desired structural strength certification, Kilwell repeated this process until each piece of the sculpture had between 12 and 20 layers of material and resin surrounding the inner 3D printed core.

Commented [VC1]: Picture from the wall of Kilwell showing the sections

The use of carbon fibre meant that the sculpture would be incredibly strong while remaining relatively lightweight for its size. Carbon fibre and fibreglass material is also easily manipulated which helped to maintain the natural, curved design as the sculpture was developed.

Commented [VC2]: Photo of the material twisted

### Testing

During the construction of Te Ahi Tupua, Kilwell Fibretube worked with Scion NZ to test the structural integrity of the sculpture. Testing involved replicating sections of the sculpture and using a 60 tonne press to essentially tear those pieces apart to measure the force at which the material would break apart. Te Ahi Tupua is built to withstand wind speeds of up to 175km/hr, a category five hurricane.

### Innovation

There is no other sculpture, of this size and shape that has been constructed from 3D printed material and hand-wrapped in layers of carbon fibre. During construction, there were many challenges that Kilwell had to overcome with no template or guide to look to. Kilwell Fibretube, with guidance from Gurit Composite Engineering, devised innovative solutions and worked through periods of trial and error. Kilwell was able to harmonise the need to create a structure that was physically achievable, and structurally sound, while maintaining the original design and concept of Te Ahi Tupua.

---

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Friday, 11 September 2020 5:49 PM  
**To:** Vicki Cawte; Stewart Brown; Corrie Balvert; Jocelyn Mikaere; 'Nick Dallimore'; 'Jacky James'; 'Megan Heffield'; Ingrid Tiriana  
**Subject:** RE: URGENT - Final media release and supporting background info for review and sign off

Hi Vicki,

Yes this is all good – agree with the changes you made.

Regards  
Craig

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Friday, 11 September 2020 4:39 PM  
**To:** Stewart Brown <Stewart.Brown@rotorualc.nz>; Craig Wilson <craigw@kilwell.co.nz>; Corrie Balvert <Corrie.Balvert@nzta.govt.nz>; Jocelyn Mikaere <Jocelyn.Mikaere@rotorualc.nz>; 'Nick Dallimore' <nick@tepuia.com>; 'Jacky James' ; 'Megan Heffield'  
Ingrid Tiriana <Ingrid.Tiriana@rotorualc.nz>  
**Subject:** URGENT - Final media release and supporting background info for review and sign off

Kia ora koutou

Apologies that this is coming through last minute on a Friday – could you all please take a few moments to review the content and let me know if you have any feedback?

I'll be online tonight so feel free to email/call/text with any changes or questions.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

**P:** 07 351 8044 | **M:** 027 937 4606

**E:** vicki.cawte@rotorualc.nz | **W:** rotorualakescouncil.nz

**A:** 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Friday, 11 September 2020 9:36 PM  
**To:** Vicki Cawte  
**Subject:** RE: video if you want to watch

Wow – that’s some really great work. Thank the team they have done a mighty job.

Will have another look next week and get the rest of the guys to view it and make sure I haven’t got anything wrong, but looks brilliant so far. Really liked how you have put some of the images into it to match the story.

Might like to add some bits maybe from Laz and Will if I can?

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Friday, 11 September 2020 5:53 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** video if you want to watch

Kia ora

Here is the video we put together from the interview we did the other day.

Doesn’t have to be watched today – I would like to publish this next week. But thought you might like to see it. Have a think if there is anything you would like changed.

<https://youtu.be/LG3PZ3HOlgc>

Ngā mihi

---

**Vicki Cawte**  
*Kaitohu Whakapā*  
P: 07 351 8044 | M: 027 937 4606  
E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz  
A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Charlotte Pinfold <Charlotte.Pinfold@rotorualc.nz>  
**Sent:** Friday, 11 September 2020 5:49 pm  
**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Cc:** Nikoletta Michael <Nikoletta.Michael@rotorualc.nz>  
**Subject:** Final vid is up

Unlisted here

<https://youtu.be/LG3PZ3HOlgc>

Still needs subtitles – if we want to do those 😊



---

**From:** Will Bamford  
**Sent:** Saturday, 12 September 2020 8:55 PM  
**To:** 'Chad Hooton'; 'craigw@kilwell.co.nz'; Haley Farmer; Mandy Godo; 'Mark Law'; 'nick@tepuia.com'; Rachel Green; Stewart Brown; Vicki Cawte; 'Rotorua Supervisor TMNZ'; 'john@vrltd.'; 'janine@vrltd.'; Eraia Kiel; 'digialelements.nz'; 'Stephen Parker'; Nikoietta Michael; Simone Walker; Kathy Nicholls; Marc Spijkerbosch; 'Chris Farnsworth'; Jocelyn Mikaere; 'steve@trafficmanagementnz.'; 'Claire Pedersen-Croll'; 'jacky@shinepr.'; 'Corrie Balvert'; 'James Ledingham'  
**Cc:** 'Josh Coombes (Higgins)'; Justine Wilmoth; Craig Tiriana; Ingrid Tiriana; Jean-Paul Gaston; Thomas Colle; Gina Rangi; 'Shilton, Fred'; Stavros Michael  
**Subject:** RE: Te Ahi Tupua - Installation Saturday 12th September  
**Attachments:** Morning light on Te Ahi Tupua\_ photo credit Stephen Parker.jpg; Te Ahi Tupua outer helix\_ photo credit Stephen Parker.jpg; Te Ahi Tupua installation - photo credit Stephen Parker.jpg

Tēnā koutou

Kei te pēhea koe?

Thank you very much for everyone's hard work today. While it had its challenges, today was great and I am really proud of what we achieved. We got both helices on the roundabout plinth!

Installation of the outer helix and helicopter delivery of the inner helix was text book and went as planned. When craning in the inner helix (around 7:40am), we ran into a fitment issue. The inner helix is slightly wider than the inside width of the outer helix as it comes down the helix, so we could not get it to the bolts on the required alignment. Everyone kicked into gear and we went through a four hour problem solving process to try and get the inner helix through the pinch point. This involved four steps:

1. Removing the inner helix, placing strops around it to then squeeze it together;
2. Cutting a gap into a support links between helix strands;
3. Putting double cuts on the main tubes;
4. Removing the chevrons.

Each of these steps took around an hour each. They provided progress but it was small and ultimately, at 12pm, we made the decision to call a halt to the final part of the installation. The inner helix is sitting inside the outer helix on blocks 200mm above the plinth (100mm above the bolts). It is orientated about 10degrees from where it needs to be to meet the bolts.

I want to acknowledge that, to ensure we did not have too much of an adverse impact on traffic movements through the roundabout, I had made a commitment to be completed by 10:30am. I made the call to push through until the road was reopened around 12:30pm. While this was still within our TMP approval of 1pm, I want to acknowledge and apologise for the traffic interruptions and breaking my commitment to NZTA. I believe we made the right call to continue through the problem solving process, as taking these four steps in a sequential action was both logical and minimised damage to the structure. It was also cost efficient, with the cost of resetting the crane, traffic/event management etc, being in excess of \$10k per day. Pausing once these options were extinguished was the next required step to ensure we can spend time thinking about how to complete the final piece. As we sit, the methodology to complete the installation process does not require any further road closures or hireage of cranes/helicopters.

Kilwell and James (Engineer – Gurit) are meeting Sunday 13<sup>th</sup> to determine which further sections of the inner/outer helices need to (and can) be removed to provide enough space for the inner helix to land on the bolts in the correct alignment. The inner helix will then be jacked up and placed on swivel blocks. This will allow the helix to be moved on the plinth and lined up with the required bolts. The helix will then be jacked down onto the bolts. Removed sections of the sculpture will be repaired. This will happen from Monday. Between now and 9am Monday, VR security are providing 24 hour security of Te Ahi Tupua.

If for some reason the Engineers determine we cannot temporarily thin out the helixes, there are other options to look at such as having the inner helix located 250mm higher on sections of steel beams (which would allow for required alignment but be slightly higher).

Kilwell is leading the process from here, and we will assist as needed.

Thanks again for everyone's commitment and hard work to make today a reality. Attached are some neat photos from Stephen.

Please let me know if you have any pātai.

Ma tini ma mano ka rapa te whai.

Kia pai tō koutou rā whakatā,

Will

**Will Bamford Kaea Hinonga – Senior Project Manager | Ohu Haumarū - Project Management & Risk Office**  
07 351 8217 | 027 205 1794 | [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

**From:** Will Bamford

**Sent:** Thursday, 10 September 2020 7:37 pm

**To:** 'Chad Hooton' <chad.hooton@rotorualc.nz>; 'craigw@kilwell.co.nz' <craigw@kilwell.co.nz>; Haley Farmer

Mandy Godo

'Mark Law' <mark.law@rotorualc.nz>

'nick@tepuia.com' <nick@tepuia.com>; Rachel Green

Stewart Brown

<Stewart.Brown@rotorualc.nz>; Vicki Cawte <Vicki.Cawte@rotorualc.nz>; 'Rotorua Supervisor TMNZ'

'john@vrltd

'; 'janine@vrltd.

Eraia Kiel

'digitalelements.nz'

'; 'Stephen Parker' <

'; Nikoletta Michael

Simone Walker

Kathy Nicholls

Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; 'Chris Farnsworth'

<Chris.Farnsworth@nzta.govt.nz>; Jocelyn Mikaere <Jocelyn.Mikaere@rotorualc.nz>;

'steve@trafficmanagementnz.

'Claire Pedersen-Croll' <Claire.Pedersen-

Croll@nzta.govt.nz>; 'jacky@shinepr.

'Corrie Balvert' <Corrie.Balvert@nzta.govt.nz>;

'James Ledingham'

**Cc:** 'Josh Coombes (Higgins)'

Justine Wilmoth <Justine.Wilmoth@rotorualc.nz>; Craig

Tiriana <Craig.Tiriana@rotorualc.nz>; Ingrid Tiriana <Ingrid.Tiriana@rotorualc.nz>; Jean-Paul Gaston <Jean-

Paul.Gaston@rotorualc.nz>; Thomas Colle <Thomas.Colle@rotorualc.nz>; Gina Rangi <Gina.Rangi@rotorualc.nz>;

'Shilton, Fred'

; Stavros Michael <Stavros.Michael@rotorualc.nz>

**Subject:** Te Ahi Tupua - Installation Saturday 12th September

Tēnā koutou

Kei te pēhea koe?

I have spoken with Mark Law (pilot – Kahu) and Craig Wilson (Kilwell) who have confirmed the weather is looking ideal for flying Saturday morning. **This is confirmation we are all go for installation of Te Ahi Tupua (Hemo Sculpture) of Saturday morning. This will be reconfirmed by 4pm tomorrow (Friday 11<sup>th</sup> Sept).**

A lot of mahi has occurred to ensure the success of this operation – thank you very much to everyone who has played a part in the preparation of this day. Attached are the final overview documents for the installation ( each component has its own specific detail). Please ensure you share these documents as required. **Everyone who is onsite and apart of this operation must read these documents**, or have a briefing from someone who has if they are sitting within a wider team (such as event management and TMP).

On the day, Craig Wilson and I will be working together to make decisions. While this is a Kilwell operation, I am leading the transportation portion of the install on their behalf. I have overall authority for the operation between the time we assemble onsite of the morning and until the karakia to bless the installation has taken place. My number is 027 205 1794. Haley Farmer will be assisting us. If you cannot reach me on the day – please try her on 0275 559 150.

The key members of each team are meeting for a briefing at Hemo Roundabout tomorrow (Friday 11<sup>th</sup>) at 3pm. If required, you'll have an invite for this but please let me know if you don't and think you should be there?

Please let me know if you have any pātai.

Nau te rourou, naku te rourou, ka ora te manuhiri.

Ngā mihi nui,

Will

---

**Will Bamford** Kaea Hinonga – *Senior Project Manager | Ohu Haumarū - Project Management & Risk Office*

**Waea:** 07 351 8217 | **Waea Pūkoro:** 027 205 1794

**Īmera:** [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | **Ipurangi:** [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

**Taunga:** 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Tuesday, 15 September 2020 8:33 AM  
**To:** Vicki Cawte  
**Subject:** RE: Slightly updated response for review

We will have to wait on this we need to work up this morning what the remedy will be for the repairs – I will have something ready by 12

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Monday, 14 September 2020 4:03 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** Slightly updated response for review

Kia ora Craig

Just amended slightly – timeframe has been adjusted

Ngā mihi

---

**Vicki Cawte**  
*Kaitohu Whakapā*  
P: 07 351 8044 | M: 027 937 4606  
E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz  
A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Vicki Cawte  
**Sent:** Tuesday, 15 September 2020 9:18 AM  
**To:** Craig Wilson  
**Subject:** Re: Slightly updated response for review

Okay will hold off

Sent from my iPhone

On 15/09/2020, at 9:02 AM, Craig Wilson <craigw@kilwell.co.nz> wrote:

I wouldn't use that as the wording is incorrect – I have a meeting for next 2 hours which I cannot get out of – so I am try for 11

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Tuesday, 15 September 2020 8:39 AM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** RE: Slightly updated response for review

Morning

Thanks for coming back to me.

I can take out the time frame? Need to get this back to Felix this morning.

I've adjusted – see the yellow highlighted bit below.

**Response from Operations Group Manager Jocelyn Mikaere -**

We are pleased with Saturday's operation to get Te Ahi Tupua to Hemo gorge. The helicopter transport was text book and both helices are in place in the centre of the roundabout. Kilwell now has pre-scheduled work to do on site to connect the inner to the outer helix.

The outer helix was secured in place within minutes. The inner helix, which was expected to be the more complicated part of the operation, took more manoeuvring to get it into place. To restore traffic flow on the day, the inner was fixed within the outer helix and secured to allow the installation team more time to adjust it.

The composite engineers on site provided guidance and the installation teams have removed some of the carbon fibre from the inner helix to make it easier to guide the structure down. That carbon fibre will be replaced (timing to be confirmed).

**Information**

The size and shape is the same as the original construction plans. The picture that is commonly related to Te Ahi Tupua was an artist impression from 2015 and during the journey to complete Te Ahi Tupua, Council has shared more realistic photos of the sculpture. A 3D printed mini version has also been shared with the community since Kilwell Fibretube took over the project. You can view that [here](#)

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Wilson <craigw@kilwell.co.nz>

**Sent:** Tuesday, 15 September 2020 8:33 AM

**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>

**Subject:** RE: Slightly updated response for review

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**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>

**Sent:** Monday, 14 September 2020 4:03 PM

**To:** Craig Wilson <craigw@kilwell.co.nz>

**Subject:** Slightly updated response for review

Kia ora Craig

Just amended slightly – timeframe has been adjusted

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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---

**From:** Vicki Cawte  
**Sent:** Tuesday, 15 September 2020 9:33 AM  
**To:** Craig Wilson  
**Subject:** Re: Slightly updated response for review

Awesome thanks Craig

Sent from my iPhone

On 15/09/2020, at 9:27 AM, Craig Wilson <craigw@kilwell.co.nz> wrote:

As below:

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Tuesday, 15 September 2020 8:39 AM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** RE: Slightly updated response for review

Morning

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I can take out the time frame? Need to get this back to Felix this morning.

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**Response from Operations Group Manager Jocelyn Mikaere -**

We are pleased with Saturday's operation to get Te Ahi Tupua to Hemo gorge. The helicopter transport was text book and both helices are in place in the centre of the roundabout. Kilwell now has some pre-scheduled work to do on site to connect the inner to the outer helix.

The outer helix was secured in place within minutes of the expected timetable. However the inner helix, took more manoeuvring than expected to get it into place as the tolerances were very tight between the helices. To restore traffic flow on the day, the inner was temporarily fixed in place within the outer helix and to allow the installation team more time to adjust it.

Kilwell and Gurit, the composite engineers have subsequently finished the installation of the inner on to the base plinth but this required the temporary removal of several small sections of the inner tube. These tubes and the additional post installation inner to outer tubes will be installed over the next few weeks.

**Information**

The size and shape is the same as the original construction plans. The picture that is commonly related to Te Ahi Tupua was an artist impression from 2015 and during the journey to complete Te Ahi Tupua, Council has shared more realistic photos of the sculpture. A 3D printed mini version has also been shared with the community since Kilwell Fibretube took over the project. You can view that [here](#)

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

**ROTOR  
LAKES COU**

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**From:** Craig Wilson <craigw@kilwell.co.nz>

**Sent:** Tuesday, 15 September 2020 8:33 AM

**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>

**Subject:** RE: Slightly updated response for review

We will have to wait on this we need to work up this morning what the remedy will be for the repairs – I will have something ready by 12

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>

**Sent:** Monday, 14 September 2020 4:03 PM

**To:** Craig Wilson <craigw@kilwell.co.nz>

**Subject:** Slightly updated response for review

Kia ora Craig

Just amended slightly – timeframe has been adjusted

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

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**ROTOR  
LAKES COU**

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**From:** Vicki Cawte  
**Sent:** Wednesday, 16 September 2020 12:06 PM  
**To:** craigw@kilwell.co.nz; Stewart Brown; Jocelyn Mikaere; 'Nick Dallimore'; 'Jacky James'; 'Corrie Balvert'; Will Bamford; Haley Farmer; Mandy Godo; Rachel Green; Marc Spijkerbosch; Kathy Nicholls; Joanna Doherty  
**Subject:** Media coverage Te Ahi Tupua  
**Attachments:** Te Ahi Tupua - media and social media coverage.docx

Kia ora koutou

I've put together a very brief report of the media coverage during the weekend relating to Te Ahi Tupua.

We got some great coverage and also featured on the 6pm TV3 news – in Comms land that is almost the ultimate result for a project. Unfortunately the reporters got it a bit wrong but I think it sent a really positive message to anyone locally about the significance of Te Ahi Tupua on a national scale.

Just a quick note for anyone that may have been following our local news reports and comments from the public re the sculpture. The mix of feedback was actually quite encouraging. There were some amazing comments from people who really love Te Ahi Tupua and the story that goes along with it. It's a great reminder that depending on which pages you look at determines the type of comments you will likely see. For instance Mayor Chadwick's post received really good engagement and the feedback was really positive. A lot of the people who shared their negative view of the project are likely to have a negative view on most things – especially if they are Council related. Don't let it get you down.

I just want to say a huge thank you to everyone for all the assistance – especially when I was asking annoying questions and getting you to review and confirm long documents. Please pass my thanks on to your respective teams.

Also the drone footage is being edited today so I will get that out as soon as it is finished. It's pretty spectacular.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

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## Te Ahi Tupua

Success – featured on TV3 6pm news on Saturday 12 September (info was a little wrong) but story coverage was positive

- Stuff.co.nz – 12 September – World’s largest 3D printed sculpture finally installed in Rotorua - <https://www.stuff.co.nz/entertainment/arts/122736007/worlds-largest-3d-printed-sculpture-finally-installed-in-rotorua>
- Te Ao Māori News – 12 September - Ground-breaking sculpture set in place at southern gateway to Rotorua - <https://www.teaomaori.news/ground-breaking-sculpture-set-place-southern-gateway-rotorua>
- Sunlive – 12 September - Rotorua sculpture flown into place - <https://www.sunlive.co.nz/news/251776-rotorua-sculpture-flown-into-place.html>
- Rotorua Now – 12 September – Sculpture flown into place - <https://www.rotoruanow.co.nz/news/21799-sculpture-flown-into-place.html>
- Emirates Team New Zealand – 10 September - [https://emirates-team-new-zealand.americascup.com/en/news/469\\_KILWELL-FIBRETUBE-TOUGHER-THAN-THE-REST.html](https://emirates-team-new-zealand.americascup.com/en/news/469_KILWELL-FIBRETUBE-TOUGHER-THAN-THE-REST.html)
- NZ Herald Rotorua Daily Post - 12 September – Bonfire of ratepayer dollars: Rotorua’s Hemo sculpture finally installed - [https://www.nzherald.co.nz/rotorua-daily-post/news/article.cfm?c\\_id=1503438&objectid=12364346](https://www.nzherald.co.nz/rotorua-daily-post/news/article.cfm?c_id=1503438&objectid=12364346)
- NZ Herald Rotorua Daily Post - 14 September - Rotorua's controversial Hemo sculpture Te Ahi Tupua arrives at its new home - [https://www.nzherald.co.nz/rotorua-daily-post/news/article.cfm?c\\_id=1503438&objectid=12364528](https://www.nzherald.co.nz/rotorua-daily-post/news/article.cfm?c_id=1503438&objectid=12364528)
- 3D print media – 14 September - New Zealand city welcomes 12-meter-tall 3D printed sculpture - <https://www.3dprintingmedia.network/new-zealand-12-m-3d-printed-sculpture/>

## Social media

- Te Puia – 12 September – 215 reactions + 31 comments (mostly positive)
- Rotorua Now – 12 September - 44 reactions + 35 comments (somewhat negative)
- Kahu NZ – 13 September - 125 reactions + 4 comments (positive)
- Mayor Steve Chadwick – 12 September - 212 reactions + 102 comments (mostly positive)
- Rotorua Daily Post
- Te Ao – 12 September – 195 reactions + 10 comments (positive)
- Councillor Yates – 12 September – 32 reactions + 7 comments (positive)
- Councillor Yates – 12 September (design inspiration) – 32 reactions + 1 comment (positive)
- Councillor Donaldson – 12 September – 65 reactions + 16 comments (positive)
- Rotorua Chat Line – 12 September - 26 reactions + 59 comments (neutral)
- Rotorua Daily Post – 12 September (initial post) – 395 reactions + 339 comments (mixed)
- Rotorua Business Chamber – 12 September – 40 reactions + 2 comments (positive)
- Rotorua Daily Post – 14 September – 112 reactions + 194 comments (mixed)
- RideRotorua – 12 September – 13 reactions + 1 comment

- Rotorua NZ – 12 September – 276 reactions, 110 comments, 16 shares (mixed)
- Kiwell Rotorua
- Rotorua Aero Club

### **RLC page**

- 12 September – initial post – 6594 reach, 2894 engagements, 177 reactions, 50 comments, 15 shares
- 12 September – video of installation – 4645 reach, 1241 engagements, 87 reactions, 24 comments, 19 shares
- 12 September – design explanation – 7440 reach, 2132 engagements, 117 reactions, 25 comments, 35 shares
- 13 September – video with Stacy – 1917 reach, 143 engagements, 2 comments, 3 shares



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**From:** Will Bamford  
**Sent:** Friday, 18 September 2020 12:59 PM  
**To:** Vicki Cawte; Stewart Brown; Rachel Green; Mandy Godo; Kathy Nicholls; Joanna Doherty; Marc Spijkerbosch; craigw@kilwell.co.nz; 'Jacky James'; 'Nick Dallimore'; Haley Farmer; 'digitalelementsanz@mac.com'; 'Corrie Balvert'; Claire Pedersen-Croll  
**Subject:** RE: Te Ahi Tupua installation - drone footage

Awesome work Vicki and Leon – looks unreal! Well done.

Will

**Will Bamford** Kaea Hinonga – Senior Project Manager | *Ohu Haumarū* - Project Management & Risk Office  
07 351 8217 | 027 205 1794 | [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

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**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Friday, 18 September 2020 12:53 pm  
**To:** Stewart Brown <Stewart.Brown@rotorualc.nz>; Rachel Green <Rachel.Green@rotorualc.nz>; Mandy Godo <Mandy.Godo@rotorualc.nz>; Kathy Nicholls <Kathy.Nicholls@rotorualc.nz>; Joanna Doherty <Joanna.Doherty@rotorualc.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; craigw@kilwell.co.nz; 'Jacky James' <Jacky.James@rotorualc.nz>; 'Nick Dallimore' <nick@tepuia.com>; Will Bamford <Will.Bamford@rotorualc.nz>; Haley Farmer <Haley.Farmer@rotorualc.nz>; 'digitalelementsanz' <digitalelementsanz@mac.com>; 'Corrie Balvert' <Corrie.Balvert@nzta.govt.nz>; Claire Pedersen-Croll <Claire.Pedersen-Croll@nzta.govt.nz>  
**Subject:** Te Ahi Tupua installation - drone footage

Kia ora koutou

Just a heads up to say we have edited the drone footage from last weekend and here is the final result.

I wanted to share it with you all before I post it to Council's Facebook page.

You can view the unlisted Youtube link here <https://youtu.be/whdrmrw2YWQ>

Ngā mihi

---

**Vicki Cawte**  
*Kaitohu Whakapā*  
P: 07 351 8044 | M: 027 937 4606  
E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)  
A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Friday, 18 September 2020 1:15 PM  
**To:** Vicki Cawte; Stewart Brown; Rachel Green; Mandy Godo; Kathy Nicholls; Joanna Doherty; Marc Spijkerbosch; 'Jacky James'; 'Nick Dallimore'; Will Bamford; Haley Farmer; 'digitalelements@mac.com'; 'Corrie Balvert'; Claire Pedersen-Croll  
**Subject:** RE: Te Ahi Tupua installation - drone footage

Looks amazing – great work on the recording and editing

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Friday, 18 September 2020 12:53 PM  
**To:** Stewart Brown <Stewart.Brown@rotorualc.nz>; Rachel Green Mandy Godo  
Kathy Nicholls · Joanna Doherty  
Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; Craig Wilson  
<craigw@kilwell.co.nz>; 'Jacky James' <Jacky.James@rotorualc.nz>; 'Nick Dallimore' <nick@tepuia.com>; Will  
Bamford <Will.Bamford@rotorualc.nz>; Haley Farmer 'digitalelements@mac.com'  
'Corrie Balvert' <Corrie.Balvert@nzta.govt.nz>; Claire Pedersen-Croll  
<Claire.Pedersen-Croll@nzta.govt.nz>  
**Subject:** Te Ahi Tupua installation - drone footage

Kia ora koutou

Just a heads up to say we have edited the drone footage from last weekend and here is the final result.

I wanted to share it with you all before I post it to Council's Facebook page.

You can view the unlisted Youtube link here <https://youtu.be/whdrmrw2YWQ>

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

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A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Monday, 21 September 2020 2:29 PM  
**To:** Vicki Cawte  
**Subject:** RE: Interpretation panel wording

Hi Vicki,

Just to let you know I have made some changes and sent to Gurit to review to ensure they are happy as I have mentioned them several times.

Should have it back by tomorrow at the latest for you.

Also just a FYI – it looks like we may be an additional 2 weeks of the repairs, Dennis who does all our vacuum bagging and hence tube repairs has the next 2 weeks on annual leave due to school holidays and cannot change (we have tried – I even said I would look after his 4 kids!) but to no avail (Phew!).

I assume this would cause problems with the opening etc? so I have also let Stewart know and will be discussing with him & Jocelyn tomorrow.

Regards  
Craig

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Friday, 18 September 2020 3:00 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** Interpretation panel wording

Kia ora Craig

Hope you're getting on well and the team haven't had too bad a week down on site at Hemo.

Kathy from our Arts and Culture team has been working on the interpretation panels and has edited all the info so they can reach the right amount of content to balance with the photos.

We are getting the content translated so they wanted to get Kilwell's part signed off as soon as possible.

If you can take a look at the attached document and make any edits required. There are a few spaces where we need to confirm/enter details for the facts – they are highlighted in yellow.

Just keep in mind that this content is for the signage so there isn't heaps of space. But we will have corresponding webpages and the signs will have QR codes to link to those pages that will have all the background detail.

Give me a call if you have any questions, otherwise have a nice weekend and we can catch up next week.

Ngā mihi

---

**Vicki Cawte**  
*Kaitohu Whakapā*  
P: 07 351 8044 | M: 027 937 4606  
E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz  
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**From:** Marc Spijkerbosch  
**Sent:** Tuesday, 6 October 2020 10:15 am  
**To:** 'Craig Wilson'; James Ledingham; Stewart Brown  
**Cc:** Laszlo Kotan  
**Subject:** RE: Structural Integrity of Hemo Gorge Sculpture

No problem Craig  
I'll keep an eye on repair timings and re-confirm the grout specs with WSP.  
Cheers  
Marc

**Marc Spijkerbosch** Community Arts Advisor  
P: 07 351 8154 | E: marc.spijkerbosch@rotorualc.nz | W: rotorualakescouncil.nz

---

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Monday, 5 October 2020 2:15 PM  
**To:** James Ledingham : Stewart Brown <Stewart.Brown@rotorualc.nz>  
**Cc:** Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Subject:** RE: Structural Integrity of Hemo Gorge Sculpture

Hi,

Have chased up Fred Shilton from WSP again on the torque setting for the bolts on the base plate as attached. We have them all bolted down to 80 newtons (until we know any different) but have been waiting for the setting to go back with a torque wrench and set them all to the engineer approved settings. We have put in the extra adjusted ones since install by the ones close to the tubes so all are done for now.

Something to remember is that the bolts are sitting on the washers up off the base as there is a grout to be installed under the plate on top of the plinth. Marc, I believe you are arranging this once all the repair & inner to outer tubes have been installed as it would be a pain working while it was in place.

Regards  
Craig

---

**From:** James Ledingham  
**Sent:** Monday, 5 October 2020 12:51 PM  
**To:** Stewart Brown <Stewart.Brown@rotorualc.nz>  
**Cc:** Craig Wilson <craigw@kilwell.co.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>  
**Subject:** RE: Structural Integrity of Hemo Gorge Sculpture

Hi Stuart,

In answer to the questions raised:

Yes, there is an engineering model of the sculpture and it has been completed by suitably qualified composite/structural engineers. The engineers being us/Gurit, and in the case of the foundations WSP/Opus. (blurb regarding Gurit engineering services: <https://www.gurit.com/Our-Business/Composite-Engineering>)

We have a design report covering the structural analysis and modelling of the sculpture. However, this is a confidential document and we would not usually share this information with the public.

As the sculpture is a public art installation there may be requirements around having to disclose information that is requested by the public, but do not know what these are. If you have to provide the report, we may be able to approve its release, otherwise provide a redacted version removing any commercially sensitive information.

We have reviewed the structural integrity with the missing tubes that were cut during installation and I am happy that in a temporary capacity there is no issue with the strength of the structure. Kilwell have installed some support stays at our request to provide additional support to the sculpture while it is being repaired.

Regarding the base plate, my understanding when I left the site after the installation was that it had not yet been fully tightened and torqued down as some of the studs ended up too close to the tubes to get the washers on and needed to be cut down. Kilwell were due to do this during the following weeks. **Craig** – can you update us on the status of the foundation bolts please.

Thanks

James

**From:** Stewart Brown <[Stewart.Brown@rotorualc.nz](mailto:Stewart.Brown@rotorualc.nz)>

**Sent:** Monday, 5 October 2020 10:36 am

**To:** James Ledingham

**Cc:** Craig Wilson ([craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)) <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>; Marc Spijkerbosch <[Marc.Spijkerbosch@rotorualc.nz](mailto:Marc.Spijkerbosch@rotorualc.nz)>

**Subject:** FW: Structural Integrity of Hemo Gorge Sculpture

This message was sent from outside Gurit organisation. Please do not click links or open attachments unless you recognise the source of this email and know the content is safe.

**Stewart Brown** Kaihautū Mahi Toi Arts & Culture Manager, OHU: MAHI TOI - Arts & Culture  
Rotorua Lakes Council P: 07 351 7828 | E: [stewart.brown@rotorualc.nz](mailto:stewart.brown@rotorualc.nz) | W: [www.rotorualakescouncil.nz](http://www.rotorualakescouncil.nz)

Hi James,

Hope all is well with you, see below in an email to council from a member of the public about the Hemo sculpture, from a structural perspective are you able to provide some commentary about their concerns please?

Cheers

Stewart

**From:** Abby Spurdle

**Date:** 4 October 2020 at 10:31:26 PM NZDT

**To:** <[Stavros.Michael@rotorualc.nz](mailto:Stavros.Michael@rotorualc.nz)>



**Cc:** <Peter.Bentley@rotorualc.nz>, <reynold.macpherson@rotorualc.nz>

**Subject: Structural Integrity of Hemo Gorge Sculpture**

Hi Stavros,  
(Peter and Reynold cc'd)

Re: The Hemo Gorge Sculpture.  
Is there any (engineering) model of its structural integrity?  
That is, one completed by an expert in structural engineering.

If so, can I see the results/conclusions?

Note it doesn't look secure.  
And part of the base is uneven.

Photos attached.

Abby





---

**From:** Kathy Nicholls  
**Sent:** Tuesday, 6 October 2020 5:03 PM  
**To:** Stewart Brown; Joanna Doherty; Marc Spijkerbosch; Vicki Cawte; craigw@kilwell.co.nz  
**Subject:** Te Ahi Tupua - Interpretive panel - Construction  
**Attachments:** Hemo - Killwell REO TRANSLATION TO COME (2400mm x 1000mm).pdf; Kilwell interpretation panel from VC KN edits.docx

Kia ora,

Please find attached one partially designed panel for the construction of Te Ahi Tupua for your consideration – please note this till needs to be translated into te reo Māori so the text will be about double what is on there now, and some of the titles are still awaiting the te reo version.

Also attached is the word document of text which we are still waiting on approval for – please note this is shorter than previous text supplied as was too wordy on the panel.

Please read through carefully and check all text, logos, titles, photos and send any amendments to me by midday Friday 9 October. Once I have the finalised text on Friday I will get translated over the weekend and we will update the panel with any changes and the translated text and send out for final ok early next week and get printed!

Kind regards

---

**ROTORUA  
LAKES COUNCIL**

**Kathy Nicholls** *Kaea Whakatairanga* - Communications & Marketing Lead

*Ohu Mahi Toi* - Arts & Culture

**Waea:** 07 3518456 | **Waea Pūkoro:** 0276 741 898

**Īmera:** kathy.nicholls@rotorualc.nz | **Ipurangi:** rotorualakescouncil.nz

**Taunga:** 1106 Arawa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**ROTORUANUI.NZ**





# TE AHI TUPIUA

## THE ETERNAL FIRE

developed since the business began in 1933, this third-generation, family-owned company is a world leader in composite innovation.

Rotorua's very own Kilwell Fibretube accepted the unique task of constructing this beautiful and complex sculpture. Using highly innovative technology

### Printing

Victoria University digital design lecturer Derek Lawl converted 3Doy Gridline's design into a digital format and broke the image into individual files to 3D print. The printed blocks are built from more than 1200 individual 3D printed cylinder blocks made from Polypropylene Acrylate (PPA), a material known for its strength and durability. Each block is unique due to irregular and organic shapes. The blocks are then glued together to create the long curved shape.

The printing process for the 4000 3D printed blocks took over 19 hours to complete. Some of the more complex blocks took up to 19 hours to print.



### Assembly

The 3D printed blocks were glued together in 3 metres sections before being lifted with a crane to be attached to the next layer of every year in real time 3D printed sculpture.

Throughout the construction process, Kilwell worked with Spacefit to test the structural integrity of the sculpture. This involved replicating sections of the sculpture and using a 40 tonne press to load them apart to measure the force at which the material would fail.

Several sections were joined together in from the full 12 metre height. Then the sections were joined together in 3 metres sections. After every 100 layers the sections were vacuum infused with epoxy resin. To remove the desired resin, the force of which the material resisted until each length of the sculpture was between 12 - 20 layers.

The use of carbon fibre meant that the sculpture would be incredibly strong while remaining relatively lightweight. This meant it could be transported which helped to maintain the natural curved design.

### Testing

The construction of the Ahi Tupua took 25 months and during that time Kilwell worked with Spacefit to test the structural integrity of the sculpture. This involved replicating sections of the sculpture and using a 40 tonne press to load them apart to measure the force at which the material would fail.



### Construction

The Ahi Tupua is unique and innovative in both design and construction. There is no other sculpture in the world of this size that has been constructed from a single material and handwelded in layers of carbon fibre.

Being the first of its kind meant there were many challenges that were overcome. With guidance from Gunt Composite, Kilwell was able to overcome each obstacle and develop innovative solutions.



### Innovation



### ! Reo Did you know?

Over 200 kilograms of the material was used in constructing this sculpture. The blocks are made from a material called Polypropylene Acrylate (PPA) which is a type of plastic that is used in many different applications.

It is a high strength plastic that is used in many different applications. It is a type of plastic that is used in many different applications.

ROTORUA  
LAKERS COUNCIL

KILWELL  
FIBRE TUBE

TE AHI TUPIUA

THE TRANSPORT  
TRUST

THE LAKERS  
FOUNDATION

ANZ  
BANK

INITIALLY  
MOTIVATION

THE LAKERS  
FOUNDATION



Panel three – construction

## TE AHI TUPUA | The Eternal Fire

Rotorua's very own Kilwell Fibretube accepted the unique task of constructing this beautiful and complex sculpture. Using hugely innovative technology developed since the business began in 1933, this third-generation, family-owned company is a world leader in composite innovation.

### Reo title | Printing

Victoria University digital design lecturer Derek Kawiti converted Stacy Gordine's (New Zealand Māori Arts & Crafts Institute) designs into a digital format and broke the image into individual files to 3D print.

The internal structure is built from more than 1200 interlocking 3D printed cylinder blocks made from Polyactic Acid (PLA), a thermoplastic derived from renewable sources such as cornstarch or sugar cane. Each block is unique like a fingerprint and fit together to create the long curved sections that gives Te Ahi Tupua its fluid shape.

The printing process saw Kilwell's ten 3D printers working 24/7 for over 6 months to complete. Some of the more complex blocks took up to 19 hours to print.

### Reo title | Did you know?

Over 262 kilometres of PLA material was used during printing. That's the same as running around Lake Rotorua more than six times!

The 3D printing process took in excess of 17,000 hours. That's nearly two years!

The final structure weighed \*\*\* tonnes. That's the same as \*\*\*\*\*! It was lifted in place by Black Hawk helicopter.

Te Ahi Tupua is built to withstand wind speeds of up to 175km/hr, a category five hurricane!

Commented [KN1]: Picture of helicopter bringing in helix

## Reo title | Assembly

The 3D printed blocks were glued together in 3 metre sections before being fitted with a carbon fibre sleeve and cured with a layer of epoxy resin to seal the 3D printed surface.

Commented [KN2]: Any images of the layers?

Several sections were joined together to form the full 12 metre helix lengths then hand-wrapped in layers of carbon fibre and fibreglass material. After every five layers, the sections were vacuum infused with epoxy. To achieve the desired structural strength this process was repeated until each length of the sculpture had between 12 - 20 layers.

The use of carbon fibre meant that the sculpture would be incredibly strong while remaining relatively lightweight for its size. Carbon fibre and fibreglass material is easily manipulated which helped to maintain the natural, curved design.

Commented [VC3]: Photo of the material twisted

## Reo title | Testing

Throughout the construction process, Kilwell worked with Scion NZ to test the structural integrity of Te Ahi Tupua. This involved replicating sections of the sculpture and using a 60 tonne press to tear them apart to measure the force at which the material would break.

## Reo title | Construction

The construction of Te Ahi Tupua took 25 months and during that time Kilwell spent more than 20,000 hours building the sculpture by hand. 3D printing began in March 2018 and both helixes were installed on 12 September 2020.

## Reo title | Innovation

Te Ahi Tupua is unique and innovative in both design and construction. There is no other sculpture in the world of this size that has been constructed from 3D printed material and hand-wrapped in layers of carbon fibre.

Being the first of its kind meant there were many challenges that were overcome. With guidance from Gurit Composite Engineering, Kilwell worked through each obstacle and devised innovative solutions.



---

**From:** Marc Spijkerbosch  
**Sent:** Monday, 7 September 2020 3:08 pm  
**To:** Craig Wilson (craigw@kilwell.co.nz)  
**Cc:** Laszlo Kotan (Laszlok@fibretube.co.nz)  
**Subject:** Sculpture - future inspection and maintenance

Hi Craig, Laz

I've been asked to put together an inspection/maintenance regime and hoped you might give me a steer with this ...

Once installed, I wonder which elements of the sculpture (and plinth) will need periodic inspection? From memory the only maintenance required will be a 5-yearly wash-down, and possible repaint(?)  
It may well be that we'll need to contract your team to cast an expert eye over things from time to time.

Look forward your thoughts/recommendations on this. I can swing by and discuss further if need be - let me know what suits ok.

Huge thanks in advance.  
Marc

---

**Marc Spijkerbosch** *Community Arts Advisor*  
P: 07 351 8154  
E: marc.spijkerbosch@rotorualc.nz | W: rotorualakescouncil.nz  
A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

**ROTORUA**  
LAKES COUNCIL



---

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Tuesday, 8 September 2020 4:29 pm  
**To:** Stewart Brown; Marc Spijkerbosch; Will Bamford  
**Cc:** Laszlo Kotan  
**Subject:** FW: question

Hi Guys,

Laz got Gurit to do some workings on at what point the inner Helix would tip over – as per below it will only take a wind of 20km (10knots) to do this – which is the same upper limit speed for Kahu to do the drop in.

It is not much given that any gusts of wind could be up to double this level. This is why we do not want to leave it tied down over night as it would not take a lot of force to tip this over.

Hopefully not a problem now that we have a tentatively given authority to do it all in one go.

Regards  
Craig

**From:** Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Sent:** Tuesday, 8 September 2020 3:47 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Subject:** FW: question

Below is the info from James.

Making it a bit more specific : if the wind reaches 30km/h (16 knots), it can tip over the helix. That wind speed could be just a gust, so the average max wind speed should be less than 17-19km/h (9-10 knots). I would consider the anchoring block as the safety factor, nothing more than that.

**From:** James Ledingham  
**Sent:** Tuesday, 8 September 2020 11:29 AM  
**To:** Laszlo Kotan <[Laszlok@fibretube.co.nz](mailto:Laszlok@fibretube.co.nz)>  
**Subject:** RE: question

Hi Laz,

Ok.

For a simple constant wind pressure on the inner helix, tipping it over about the edge of the baseplate on a 2% slope would require a wind speed of approximately 8.2m/s or 30km/h.

This is the point at which it would tip, so you would want to add some margin onto that if you were going to have it freestanding.

With tiedowns/anchoring blocks this maximum wind speed could increase. To what I can't say without knowing more about the tiedown setup.

Thanks

James

**From:** Laszlo Kotan <[Laszlok@fibretube.co.nz](mailto:Laszlok@fibretube.co.nz)>  
**Sent:** Tuesday, 8 September 2020 9:50 am  
**To:** James Ledingham  
**Subject:** question

This message was sent from outside Gurit organisation. Please do not click links or open attachments unless you recognise the source of this email and know the content is safe.

Hi James,

Jus a very quick question, if it takes more than a few minutes to answer please ignore it.

Could you give me an approximate max safe windspeed before the inner helix becomes instable? Stand alone, ground level 2 % slope.

There were some ideas passed around to fly the helixes to the carpark and leave them there for a few days until the road closure approval is sorted. There are some concrete blocks there to anchor the helix down, but I don't want to rely on them to keep them upright. I'm not worried about the outer helix, concerned about the inner one though. What's your opinion?

Kind Regards,

Laz

Laszlo Kotan  
Factory Manager  
Kilwell Fibretube

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f: +64 (0)7 345 5149 | e: [Laszlok@fibretube.co.nz](mailto:Laszlok@fibretube.co.nz)  
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490 Te Ngae Road, Rotorua 3010 | Private Bag 3033, Rotorua 3046, New Zealand

**KILWELL FIBRETUBE**  
Composite Innovation

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---

**From:** Vicki Cawte  
**Sent:** Friday, 9 October 2020 9:10 AM  
**To:** 'Craig Wilson'  
**Subject:** RE: Interpretation panel

Kia ora Craig

Thanks heaps for sending this through. I've passed it on to Kathy to start the translation process.

Let me know if you do hear from Gurit in the next couple of days and then we can pass on any changes to Kathy before the translation is finalised.

Have a nice weekend.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

**ROTORUA**  
**LAKES COUNCIL**

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---

**From:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Sent:** Thursday, 8 October 2020 4:31 PM  
**To:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Subject:** RE: Interpretation panel

Hi Vicki,

Have made some minor changes – hopefully you can still fit it in. I have not heard back from Gurit so hopefully they are ok with their mentions.

Regards  
Craig

---

**From:** Vicki Cawte <[Vicki.Cawte@rotorualc.nz](mailto:Vicki.Cawte@rotorualc.nz)>  
**Sent:** Monday, 5 October 2020 10:16 AM  
**To:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Subject:** RE: Interpretation panel

Kia ora

All good I thought that may have been the case. I'll let the A&C team know.

Thanks

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

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---

**From:** Craig Wilson <craigw@kilwell.co.nz>

**Sent:** Monday, 5 October 2020 10:15 AM

**To:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>

**Subject:** RE: Interpretation panel

Hi Vicki,

Am just back this week (after last weeks attempt at a week off where I worked 10hrs), so have a lot to catchup on – but will try to get to it in a few days.

Regards

Craig

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>

**Sent:** Thursday, 1 October 2020 4:19 PM

**To:** Craig Wilson <craigw@kilwell.co.nz>

**Subject:** Interpretation panel

Kia ora Craig

How did you get on in the marathon?

Just following up to see if you've had the content back from Gurit yet? Our team is progressing with the other panels so would ideally like to get them all done and installed at the same time.

Cheers

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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### Panel three – construction

## TE AHI TUPUA | The Eternal Fire

Rotorua's very own Kilwell Fibretube accepted the unique task of constructing this beautiful and complex sculpture. Using hugely innovative technology developed since the business began in ~~1933~~1968, this third-generation, family-owned company is a world leader in composite innovation.

Commented [AW1]: Sports began in 1933, but Fibretube was 1968

### Reo title | Printing

Victoria University digital design lecturer Derek Kawiti converted Stacy Gordine's (New Zealand Māori Arts & Crafts Institute) designs into a digital format. ~~Derek and Gurit~~ Engineering them broke the image into individual files to 3D print.

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The internal structure is built from more than 1200 interlocking 3D printed cylinder blocks made from Polyactic Acid (PLA), a thermoplastic derived from renewable sources such as corn\_starch or sugar cane. Each block is unique like a fingerprint and fit together to create the long curved sections that gives Te Ahi Tupua its fluid shape.

The printing process saw Kilwell's ten 3D printers working 24/7 for over 6 months to complete. Some of the more complex blocks took up to 19 hours to print.

### Reo title | Did you know?

Over 262 kilometres of PLA material was used during printing. That's the same as running around Lake Rotorua more than six times!

The 3D printing process took in excess of 17,000 hours. That's nearly two years!

The final structure weighed ~~5.5~~ tonnes. That's the same as \*\*\*\*\*! It was ~~lifted into~~ place by Kahu using their Black Hawk helicopter.

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Te Ahi Tupua is built to withstand wind speeds of up to 175km/hr, a category five hurricane!

Commented [KN2]: Picture of helicopter bringing in helix

## Reo title | Assembly

The 3D printed blocks were glued together in 3 metre sections before being fitted with a carbon fibre sleeve and cured with a layer of epoxy resin to seal the 3D printed surface.

Commented [KN3]: Any images of the layers?

Several sections were joined together to form the full 12 metre helix lengths then hand-wrapped in layers of carbon fibre and fibreglass material. After every five layers, the sections were vacuum infused with epoxy. To achieve the desired structural strength this process was repeated until each length of the sculpture had between 12 - 20 layers.

The use of carbon fibre meant that the sculpture would be incredibly strong while remaining relatively lightweight for its size. Carbon fibre and fibreglass material is easily manipulated which helped to maintain the natural, curved design.

Commented [VC4]: Photo of the material twisted

## Reo title | Testing

Throughout the construction process, Kilwell worked with Gurit Engineering and Scion NZ to test the structural integrity of Te Ahi Tupua. This involved replicating sections of the sculpture and using a 60 tonne press to tear them apart to measure the force at which the material would break.

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## Reo title | Construction

The construction of Te Ahi Tupua took 25 months and during that time Kilwell spent more than 20,000 hours building the sculpture by hand. 3D printing began in March 2018 and both helixes were installed on 12 September 2020.

Commented [AW5]: Typo

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## Reo title | Innovation

Te Ahi Tupua is unique and innovative in both design and construction. There is no other sculpture in the world of this size that has been constructed from 3D printed material and hand-wrapped in layers of carbon fibre.

Being the first of its kind meant there were many challenges that were overcome. With guidance from Gurit Composite Engineering, Kilwell worked through each obstacle and devised innovative solutions to enable its construction.

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---

**From:** Marc Spijkerbosch  
**Sent:** Thursday, 10 September 2020 12:29 pm  
**To:** 'Craig Wilson'  
**Cc:** Laszlo Kotan  
**Subject:** RE: Sculpture - future inspection and maintenance

Thanks Craig

I've changed inspection frequency as suggested – and added the extra notes.

Have also included the possibility of using a cherry-picker, unless you think this could cause any problems?

Big weekend coming up. All falling into place well here.

Cheers

Marc

**Marc Spijkerbosch** Community Arts Advisor  
P: 07 351 8154 | E: marc.spijkerbosch@rotorualc.nz | W: rotorualakescouncil.nz

---

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Thursday, 10 September 2020 12:08 PM  
**To:** Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>  
**Cc:** Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Subject:** RE: Sculpture - future inspection and maintenance

Hi Marc,

Just a couple of points to add:

1. We will be onsite working for the 1<sup>st</sup> two weeks (us & Tony from Protech) so can do checks each day as part of the process if that helps
2. The monthly checking for the 1<sup>st</sup> 6 months seems quite high frequency.
3. Checks will require a scissor lift –(approx. daily cost of \$500 or weekly of \$800) but should not take more than 4 hours to review entire structure from top to bottom and base.
4. The cleaning and wash should be able to be done in a day but would also require the use of the scissor lift and probably 2 people with a water blaster
5. Repaint will be tricky – would think at least a full week for 2 people with scissor lift. I would suggest repainting be applied by roller, as spray gun method has the possibility for over spray on passing traffic.

Above is only estimates as base don our experiences but have not done it onsite so expect that to have some extra challenges as mentioned above.

Hope all is going well.

Regards  
Craig

---

**From:** Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>  
**Sent:** Thursday, 10 September 2020 9:17 AM  
**To:** Craig Wilson <craigw@kilwell.co.nz>

**Cc:** Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Subject:** RE: Sculpture - future inspection and maintenance

Hi Craig, Laz  
Wonder if you could take a quick look and see if this plan covers everything?  
Thanks  
Marc

**Marc Spijkerbosch** Community Arts Advisor  
P: 07 351 8154 | E: marc.spijkerbosch@rotorualc.nz | W: rotorualakescouncil.nz

---

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Tuesday, 8 September 2020 1:13 PM  
**To:** Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>  
**Cc:** Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Subject:** RE: Sculpture - future inspection and maintenance

An inspection of the chevrons, tube bases and the joining tubes would be the only areas worth looking at.

---

**From:** Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>  
**Sent:** Tuesday, 8 September 2020 12:35 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>  
**Cc:** Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Subject:** RE: Sculpture - future inspection and maintenance

Thanks Craig, this is really helpful  
I'll set up a schedule for wash down and painting accordingly.  
Sounds tricky to paint when in final position – but I'm sure it'll be doable.

I guess the rest of the maintenance will be around inspecting the joints, paint finish and plinth (bolts etc).  
Unless there are other areas that come to mind?  
Cheers

**Marc Spijkerbosch** Community Arts Advisor  
P: 07 351 8154 | E: marc.spijkerbosch@rotorualc.nz | W: rotorualakescouncil.nz

---

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Tuesday, 8 September 2020 11:46 AM  
**To:** Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>  
**Cc:** Laszlo Kotan <Laszlok@fibretube.co.nz>  
**Subject:** RE: Sculpture - future inspection and maintenance

Hi Marc,

Sorry I understated the cost of the Nyalic paint we used to coat the sculpture (was thinking gallons and not litres). We used 6 US gallons to coat the sculpture, which equals to about 22.7 litres. The current price is NZ\$790.00 per gallon, so it comes to **NZ\$4740.00 +GST + shipping from Dunedin to paint the whole sculpture with Nyalic.**

With regard maintenance and length of adherence they state 3 to 10 years on their website, with 3 being for applications in marine vehicle use. I would suggest the use on a fixed sculpture would be towards the later – so 5 to 10 years would be the recommended assuming periodic cleaning is maintained. We chose this solution as it is used for

marine applications, coating on aboriginal art in Australia and heat pumps in Rotorua to name a few, so is well proven. When speaking directly with them they stated up to 15 years should be no problem.

I have attached a link to their technical Guide and FAQ below:

<http://www.nyalic.co.nz/technical/2020%20Nyalic%20basic%20guide%20and%20manual.pdf>

[https://www.nyalic.com/FAQs\\_ep\\_92.html#:~:text=How%20long%20will%20a%20Nyalic,and%20will%20retain%20its%20shine.](https://www.nyalic.com/FAQs_ep_92.html#:~:text=How%20long%20will%20a%20Nyalic,and%20will%20retain%20its%20shine.)

### **Something to note - How do you maintain a Nyalic coating?**

Periodic washing of a Nyalic-coated surface will help prolong the life of the coating. Also, use Nyalic aerosols to repair and touch-up any damaged areas. PLEASE DO NOT:

- Use solvent-based or abrasive cleaners on a Nyalic-coated surface
- Polish, wax or buff a Nyalic-coated surface – this may dull or damage the finish

The challenge will be to work out how to access the sculpture for painting (inner side and in between helixes) while in the roundabout. Doable, but don't underestimate the effort and equipment required to do this. We used scaffolding to finish the work onsite as it was only touch-up painting on the joints as well as a swing chair on the inside for the spray painting of the same. But most of our painting was done inside while it was laying down in sections.

Hope this helps.

Regards  
Craig

---

**From:** Marc Spijkerbosch <[Marc.Spijkerbosch@rotorualc.nz](mailto:Marc.Spijkerbosch@rotorualc.nz)>  
**Sent:** Monday, 7 September 2020 3:08 PM  
**To:** Craig Wilson <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>  
**Cc:** Laszlo Kotan <[Laszlok@fibretube.co.nz](mailto:Laszlok@fibretube.co.nz)>  
**Subject:** Sculpture - future inspection and maintenance

Hi Craig, Laz

I've been asked to put together an inspection/maintenance regime and hoped you might give me a steer with this ...

Once installed, I wonder which elements of the sculpture (and plinth) will need periodic inspection? From memory the only maintenance required will be a 5-yearly wash-down, and possible repaint(?)

It may well be that we'll need to contract your team to cast an expert eye over things from time to time.

Look forward your thoughts/recommendations on this. I can swing by and discuss further if need be - let me know what suits ok.

Huge thanks in advance.  
Marc

**Marc Spijkerbosch** *Community Arts Advisor*

P: 07 351 8154

E: [marc.spijkerbosch@rotorualc.nz](mailto:marc.spijkerbosch@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand



---

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Tuesday, 13 October 2020 3:56 PM  
**To:** Vicki Cawte; Stewart Brown  
**Subject:** RE: Media enquiry - install update

Hi,

Depends on if I can get Dennis off the jury duty – Laz has already tried without success! But then he may not get selected for a case – but not willing to hope on that.

We are still looking at a minimum of 3 weeks work – when we can work around weather.

At this stage no further updates on anything else.

Regards  
Craig

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Tuesday, 13 October 2020 2:51 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>; Stewart Brown <Stewart.Brown@rotorualc.nz>  
**Subject:** RE: Media enquiry - install update

Thanks very much for the info Craig.

So I can respond to Felix do we have any ballpark idea of timing?

Also did you have any thoughts on the rest of the response? I'll need to get it to Jocelyn this arvo to make sure she is happy with it.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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---

**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Tuesday, 13 October 2020 1:56 PM  
**To:** Stewart Brown <Stewart.Brown@rotorualc.nz>; Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Subject:** Re: Media enquiry - install update

Hi Vicki. At this stage of change. Still same problem with school holidays but now compounded by Dennis being called for jury duty. But trying to get hom off. Also weather not helping at present. Felix has rung me this morning but have been in meetings until now and have a h&S one starting now.

Get [Outlook for Android](#)

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>

**Sent:** Tuesday, October 13, 2020 9:59:52 AM

**To:** Stewart Brown <Stewart.Brown@rotorualc.nz>; Craig Wilson <craigw@kilwell.co.nz>

**Subject:** Media enquiry - install update

Kia Ora korua

We've had a media enquiry from Felix to see where the install is at.

You will see his questions in the document attached – it's all relatively the same as previous questions so I've drafted some responses based on what has been said in all our previous responses but keen to get your thoughts. All I really need is the indicative date for work to be complete (sorry I know it's a bit difficult to pin down so maybe we talk in weeks rather than a specific date).

I've also attached our previous response so you can see what we provided back then.

Please note Felix's deadline is 3pm so if I can get something back from you both by 2pm I'd be very appreciative.

Ngā mihi

---

**Vicki Cawte**

*Kaitohu Whakapā*

P: 07 351 8044 | M: 027 937 4606

E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz

A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Wednesday, 16 September 2020 9:34 am  
**To:** fred.shilton@wsp.co  
**Cc:** Stewart Brown; Marc Spijkerbosch; David Cass; Laszlo Kotan  
**Subject:** Bolt material for Torque setting

Hi Fred,

Does someone from Opus/WSP know what the torque settings for the nuts to be set at for the bolts which are in place on the plinth at the roundabout.

Apparently these are set depending on what the grade specified on the bolts that are in the plinth.

Thanks

Kind regards

Craig Wilson  
Chief Executive  
Kilwell Sports | Kilwell Fibretube

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f: +64 (0)7 345 5149 | e: [craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)  
w: [www.kilwell.co.nz](http://www.kilwell.co.nz) | f: [facebook.com/KilwellSports](https://facebook.com/KilwellSports) | i: [instagram/kilwellsports](https://instagram/kilwellsports)  
w: [www.kilwellfibretube.co.nz](http://www.kilwellfibretube.co.nz) | f: [facebook.com/KilwellFibretube](https://facebook.com/KilwellFibretube)  
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**From:** Kathy Nicholls  
**Sent:** Friday, 16 October 2020 4:34 PM  
**To:** Stewart Brown; Marc Spijkerbosch; 'craigw@kilwell.co.nz'; Aneta Morgan; Kingi Biddle; Patai Rotorua  
**Cc:** Joanna Doherty; Vicki Cawte  
**Subject:** Te Ahi Tupua - Interpretive panel - Amended Construction Panel for approval  
**Attachments:** Te Ahi Tupua - Construction (2400mm x 1000mm).pdf  
**Importance:** High

Kia ora,  
Please find attached the designed panel for the construction of Te Ahi Tupua for your consideration. This now includes the te reo translations.

Please read through carefully and check all text, logos, titles, photos and send any amendments to me by midday Tuesday 20 October.

Following these last changes the interpretive panels will go to print and be installed with the sculpture

Kind regards

---

**ROTORUA  
LAKES COUNCIL**

**Kathy Nicholls** *Kaea Whakatairanga* - Communications & Marketing Lead  
*Ohu Mahi Toi* - Arts & Culture  
**Waea:** 07 3518456 | **Waea Pūkoro:** 0276 741 898  
**Īmera:** kathy.nicholls@rotorualc.nz | **Ipurangi:** rotorualakescouncil.nz  
**Taunga:** 1106 Arawa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

  
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# TE AHI TUPIUA THE ETERNAL FIRE

## Te Tā

At the end of 2015, the Government of New Zealand announced that it would build a new national parliament building. The new building would be a landmark in New Zealand's history, and it would be a symbol of the country's commitment to democracy and transparency.

The building would be a landmark in New Zealand's history, and it would be a symbol of the country's commitment to democracy and transparency.

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By using carbon fibre the sculpture is incredibly strong but relatively lightweight for its size.

## Te Tūhono Assembly

The 3D printed blocks were glued together in a vacuum chamber. After every five layers the sections were repeated with each length had between 12 and 20 layers.

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## Te Whakamātau

Throughout the construction process, Kiwell used a range of testing methods to ensure the structure was strong and durable. This included testing the carbon fiber sections under various conditions to ensure they could withstand the weight and stress of the building.

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## Te Hanga

The construction of the Ahi Tupua took 25 months and during that time Kiwell spent more than 2000 hours building the structure. The building was completed in March 2016 and both Kiwell and the building were finished on 13 September 2016.

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## Auahatanga

Te Ahi Tupua is unique and innovative in both design and construction. There is no other sculpture in the world of its size that is made of carbon fibre.

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## I mōhio rānei koe? Did you know??

The building is made of 100% carbon fibre and is the world's largest carbon fibre structure. It is a landmark in New Zealand's history and a symbol of the country's commitment to democracy and transparency.

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**From:** Will Bamford  
**Sent:** Friday, 18 September 2020 12:59 pm  
**To:** Vicki Cawte; Stewart Brown; Rachel Green; Mandy Godo; Kathy Nicholls; Joanna Doherty; Marc Spijkerbosch; craigw@kilwell.co.nz; 'Jacky James'; 'Nick Dallimore'; Haley Farmer; 'digitalelements@mac.com'; 'Corrie Balvert'; Claire Pedersen-Croll  
**Subject:** RE: Te Ahi Tupua installation - drone footage

Awesome work Vicki and Leon – looks unreal! Well done.

Will

**Will Bamford** Kaea Hinonga – Senior Project Manager | *Ohu Haumarū* - Project Management & Risk Office  
07 351 8217 | 027 205 1794 | [will.bamford@rotorualc.nz](mailto:will.bamford@rotorualc.nz) | [rotorualakescouncil.nz](http://rotorualakescouncil.nz)

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Friday, 18 September 2020 12:53 pm  
**To:** Stewart Brown <Stewart.Brown@rotorualc.nz>; Rachel Green  
Mandy Godo  
Kathy Nicholls  
Joanna Doherty  
Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; craigw@kilwell.co.nz;  
'Jacky James' 'Nick Dallimore' <nick@tepuia.com>; Will Bamford  
<Will.Bamford@rotorualc.nz>; Haley Farmer 'digitalelements@mac.com';  
'Corrie Balvert' <Corrie.Balvert@nzta.govt.nz>; Claire Pedersen-Croll  
<Claire.Pedersen-Croll@nzta.govt.nz>  
**Subject:** Te Ahi Tupua installation - drone footage

Kia ora koutou

Just a heads up to say we have edited the drone footage from last weekend and here is the final result.

I wanted to share it with you all before I post it to Council's Facebook page.

You can view the unlisted Youtube link here <https://youtu.be/whdrmrw2YWQ>

Ngā mihi

---

**Vicki Cawte**  
*Kaitohu Whakapā*  
P: 07 351 8044 | M: 027 937 4606  
E: [vicki.cawte@rotorualc.nz](mailto:vicki.cawte@rotorualc.nz) | W: [rotorualakescouncil.nz](http://rotorualakescouncil.nz)  
A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand



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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Friday, 18 September 2020 1:15 pm  
**To:** Vicki Cawte; Stewart Brown; Rachel Green; Mandy Godo; Kathy Nicholls; Joanna Doherty; Marc Spijkerbosch; 'Jacky James'; 'Nick Dallimore'; Will Bamford; Haley Farmer; 'digitalelements.nz@mac.com'; 'Corrie Balvert'; Claire Pedersen-Croll  
**Subject:** RE: Te Ahi Tupua installation - drone footage

Looks amazing – great work on the recording and editing

---

**From:** Vicki Cawte <Vicki.Cawte@rotorualc.nz>  
**Sent:** Friday, 18 September 2020 12:53 PM  
**To:** Stewart Brown <Stewart.Brown@rotorualc.nz>; Rachel Green <Rachel.Green@rotorualc.nz>; Mandy Godo <Mandy.Godo@rotorualc.nz>; Kathy Nicholls <Kathy.Nicholls@rotorualc.nz>; Joanna Doherty <Joanna.Doherty@rotorualc.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; Craig Wilson <craigw@kilwell.co.nz>; 'Jacky James' <Jacky.James@rotorualc.nz>; 'Nick Dallimore' <nick@tepuia.com>; Will Bamford <Will.Bamford@rotorualc.nz>; Haley Farmer <Haley.Farmer@rotorualc.nz>; 'digitalelements.nz' <digitalelements.nz@mac.com>; 'Corrie Balvert' <Corrie.Balvert@nzta.govt.nz>; Claire Pedersen-Croll <Claire.Pedersen-Croll@nzta.govt.nz>  
**Subject:** Te Ahi Tupua installation - drone footage

Kia ora koutou

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Ngā mihi

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**Vicki Cawte**  
*Kaitohu Whakapā*  
P: 07 351 8044 | M: 027 937 4606  
E: vicki.cawte@rotorualc.nz | W: rotorualakescouncil.nz  
A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Kathy Nicholls  
**Sent:** Friday, 23 October 2020 12:01 PM  
**To:** 'Nick Dallimore'; 'Stacy Gordine'; Eraia Kiel; 'craigw@kilwell.co.nz'  
**Cc:** Stewart Brown; Marc Spijkerbosch; Nick Johansson; Joanna Doherty; Vicki Cawte  
**Subject:** Te Ahi Tupua - 3 final panels for sign off  
**Attachments:** Te Ahi Tupua - Construction (2400mm x 1000mm).pdf; Te Ahi Tupua - Design (2400mm x 1000mm).pdf; Te Ahi Tupua - Historical Account (2400mm x 1000mm).pdf

Morena everyone

Thanks to those that have sent through feedback. We are hoping to go to print next week and get installed so really important you look carefully at each panel and let me know if there are any changes by next Wed (28 October). On the historical account Nick (designer) has just received an amended ember icon which he will amend next week.

Many thanks - Have a great long weekend!

Kind regards

---

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LAKES COUNCIL**

**Kathy Nicholls** *Kaea Whakatairanga* - Communications & Marketing Lead

*Ohu Mahi Toi* - Arts & Culture

**Waea:** 07 3518456 | **Waea Pūkoro:** 0276 741 898

**Īmera:** kathy.nicholls@rotorualc.nz | **Ipurangi:** rotorualakescouncil.nz

**Taunga:** 1106 Arawa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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**From:** Craig Wilson <craigw@kilwell.co.nz>  
**Sent:** Monday, 5 October 2020 2:15 pm  
**To:** James Ledingham; Stewart Brown  
**Cc:** Marc Spijkerbosch; Laszlo Kotan  
**Subject:** RE: Structural Integrity of Hemo Gorge Sculpture  
**Attachments:** RE: Bolt material for Torque setting

**Follow Up Flag:** Follow up  
**Flag Status:** Flagged

Hi,

Have chased up Fred Shilton from WSP again on the torque setting for the bolts on the base plate as attached. We have them all bolted down to 80 newtons (until we know any different) but have been waiting for the setting to go back with a torque wrench and set them all to the engineer approved settings. We have put in the extra adjusted ones since install by the ones close to the tubes so all are done for now.

Something to remember is that the bolts are sitting on the washers up off the base as there is a grout to be installed under the plate on top of the plinth. Marc, I believe you are arranging this once all the repair & inner to outer tubes have been installed as it would be a pain working while it was in place.

Regards  
Craig

---

**From:** James Ledingham  
**Sent:** Monday, 5 October 2020 12:51 PM  
**To:** Stewart Brown <Stewart.Brown@rotorualc.nz>  
**Cc:** Craig Wilson <craigw@kilwell.co.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>  
**Subject:** RE: Structural Integrity of Hemo Gorge Sculpture

Hi Stuart,

In answer to the questions raised:

Yes, there is an engineering model of the sculpture and it has been completed by suitably qualified composite/structural engineers. The engineers being us/Gurit, and in the case of the foundations WSP/Opus. (blurb regarding Gurit engineering services: <https://www.gurit.com/Our-Business/Composite-Engineering>)

We have a design report covering the structural analysis and modelling of the sculpture. However, this is a confidential document and we would not usually share this information with the public.

As the sculpture is a public art installation there may be requirements around having to disclose information that is requested by the public, but do not know what these are. If you have to provide the report, we may be able to approve its release, otherwise provide a redacted version removing any commercially sensitive information.

We have reviewed the structural integrity with the missing tubes that were cut during installation and I am happy that in a temporary capacity there is no issue with the strength of the structure. Kilwell have installed some support stays at our request to provide additional support to the sculpture while it is being repaired.

Regarding the base plate, my understanding when I left the site after the installation was that it had not yet been fully tightened and torqued down as some of the studs ended up too close to the tubes to get the washers on and needed to be cut down. Kilwell were due to do this during the following weeks. **Craig** – can you update us on the status of the foundation bolts please.

Thanks

James

---

**From:** Stewart Brown <[Stewart.Brown@rotorualc.nz](mailto:Stewart.Brown@rotorualc.nz)>  
**Sent:** Monday, 5 October 2020 10:36 am  
**To:** James Ledingham  
**Cc:** Craig Wilson ([craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)) <[craigw@kilwell.co.nz](mailto:craigw@kilwell.co.nz)>; Marc Spijkerbosch <[Marc.Spijkerbosch@rotorualc.nz](mailto:Marc.Spijkerbosch@rotorualc.nz)>  
**Subject:** FW: Structural Integrity of Hemo Gorge Sculpture

This message was sent from outside Gurit organisation. Please do not click links or open attachments unless you recognise the source of this email and know the content is safe.

**Stewart Brown** Kaihautū Mahi Toi Arts & Culture Manager, OHU: MAHI TOI - Arts & Culture  
Rotorua Lakes Council P: 07 351 7828 | E: [stewart.brown@rotorualc.nz](mailto:stewart.brown@rotorualc.nz) | W: [www.rotorualakescouncil.nz](http://www.rotorualakescouncil.nz)

Hi James,

Hope all is well with you, see below in an email to council from a member of the public about the Hemo sculpture, from a structural perspective are you able to provide some commentary about their concerns please?

Cheers

Stewart

---

**From:** Abby Spurdle  
**Date:** 4 October 2020 at 10:31:26 PM NZDT  
**To:** <[Stavros.Michael@rotorualc.nz](mailto:Stavros.Michael@rotorualc.nz)>  
**Cc:** <[Peter.Bentley@rotorualc.nz](mailto:Peter.Bentley@rotorualc.nz)>, <[reynold.macpherson@rotorualc.nz](mailto:reynold.macpherson@rotorualc.nz)>  
**Subject:** Structural Integrity of Hemo Gorge Sculpture

Hi Stavros,  
(Peter and Reynold cc'd)

Re: The Hemo Gorge Sculpture.  
Is there any (engineering) model of its structural integrity?  
That is, one completed by an expert in structural engineering.

If so, can I see the results/conclusions?

Note it doesn't look secure.  
And part of the base is uneven.

Photos attached.

Abby







---

**From:** Marc Spijkerbosch  
**Sent:** Monday, 7 October 2019 1:19 pm  
**To:** 'Craig Wilson'; Allison Lawton; Nick Dallimore; Rebecca Malcolm; Vicki Cawte; stacy@nzmaci. Tracey@friendwholesale.  
**Subject:** RE: Catch up re: Hemo Sculpture website/promo discussion

Thanks Craig – sounds perfect.  
Cheers

**Marc Spijkerbosch** Community Arts Advisor  
P: 07 351 8154 | E: marc.spijkerbosch@rotorualc.nz | W: rotorualakescouncil.nz

---

**From:** Craig Wilson [mailto:craigw@kilwell.co.nz]  
**Sent:** Monday, 7 October 2019 1:16 p.m.  
**To:** Allison Lawton; Nick Dallimore; Marc Spijkerbosch; Rebecca Malcolm; Vicki Cawte; stacy@nzmaci Tracey@friendwholesale  
**Subject:** RE: Catch up re: Hemo Sculpture website/promo discussion

Hi All,

Happy to have it out here so everyone can eyeball what we have up so far?

Regards  
Craig

---

**From:** Allison Lawton <allison@avidagency.co.nz>  
**Sent:** Monday, 7 October 2019 1:01 PM  
**To:** Craig Wilson <craigw@kilwell.co.nz>; Nick Dallimore <nick@tepuia.com>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; Rebecca Malcolm /icki.cawte@rotorualc.nz; stacy@nzmaci. ; Tracey@friendwholesale.  
**Subject:** Re: Catch up re: Hemo Sculpture website/promo discussion

Kia ora  
Any ideas for a meeting place? If need be we can meet here in our Board Room. Our address is:

Trinity House  
Level 1  
1268 Haupapa Street.

Let me know if anyone else has another suggestion.

Na, Allison

---

**From:** [allison@avidagency](mailto:allison@avidagency)  
**When:** 9:30 AM - 10:15 AM 11 October 2019  
**Subject:** Catch up re: Hemo Sculpture website/promo discussion  
**Location:** TBA

Kia ora peeps  
Thought I would put this our diary for all of us....meeting place?

Cheers Allison

Click [here](#) to report this email as spam.

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**From:** Kathy Nicholls  
**Sent:** Wednesday, 28 October 2020 3:53 PM  
**To:** 'Craig Wilson'; Eraia Kiel; 'Nick Dallimore'; 'Stacy Gordine'  
**Cc:** Marc Spijkerbosch; Stewart Brown; Nick Johansson; Aneta Morgan; Kingi Biddle; Vicki Cawte; Joanna Doherty  
**Subject:** Amended Te Ahi Panels  
**Attachments:** Te Ahi Tupua - Construction (2400mm x 1000mm).pdf; Te Ahi Tupua - Design (2400mm x 1000mm).pdf; Te Ahi Tupua - Historical Account (2400mm x 1000mm).pdf

**Importance:** High

Kia ora,  
Thank you for all of your feedback on the panels. We are so nearly there!

**Design** – Stacy/Eraia – we have switched the Manaia/wheku graphics and lined up to the smaller manaia design below – is that ok? In making some edits to the text on this panel Eraia felt that whakairo (carve) probably wasn't the best translation for the design since it hasn't been carved. So on the design panel we have changed instances of whakairo to: āhua tanga hoahoa.

**Historical Account** – Stacy can you confirm you are happy with the ember icon on the map please. Eraia suggested the removal of the title of traditional Waiata that sat along the song title The Beginning – since the waiata wasn't a traditional waiata.

**Construction** – Stacy we have removed your photo and replaced with another assembly image. Craig we made those text changes in the testing column but changed the words slightly so they flow – can you read the English and confirm all ok? Aneta/Kingi – can you look at the highlighted English under the testing and let me know what changes need to be made to the highlighted reo above? In keeping all the panels uniform I think we need to look at the 9 instances of whakairo used in the construction panel and decide if they also need to be changed to āhua tanga hoahoa – Eraia can you have a look at this please and let me know?

Thanks for your patience and assistance everyone!  
Kind regards

---

**ROTORUA  
LAKES COUNCIL**

**Kathy Nicholls** *Kaea Whakatairanga* - Communications & Marketing Lead  
*Ohu Mahi Toi* - Arts & Culture  
**Waea:** 07 3518456 | **Waea Pūkoro:** 0276 741 898  
**Īmera:** kathy.nicholls@rotorualc.nz | **Ipurangi:** rotorualakescouncil.nz  
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*Ohu Mahi Toi* - Arts & Culture  
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