

ROTORUA LAKES COUNCIL

Minutes

**Operations & Monitoring Committee meeting
held Thursday, 7 February 2019 at 9:30am
in the Council Chamber, Rotorua Lakes Council**

- MEMBERS PRESENT:** Cr Sturt, (Chairperson)
Cr Tapsell (Deputy Chair), Mayor Chadwick, Cr Bentley, Cr Donaldson, Cr Gould, Cr Hunt, Cr Kent, Cr Kumar, Cr Maxwell, Cr Raukawa-Tait, Mr Waru and Mr Biasiny-Tule (Te Tatau o Te Arawa), Mr Stanton (Lakes Community Board)
- APOLOGIES:** Cr Maxwell & Cr Kent apologised for early departure at 2pm
- NO ATTENDANCE:** Mr Martin (Rural Community Board)
- STAFF PRESENT:** G Williams, Chief Executive; T Collé, Chief Financial Officer; J-P Gaston, Group Manager Strategy; H Weston, Acting Group Manager Operations; S Michael, General Manager Infrastructure; C Tiriana, Manager CE Office; G Rangi, Kaiwhakahaere Maori; O Hopkins, Corporate Planning & Governance Manager; S Brown, Arts & Culture Manager(part); R Pitkethley, Recreation and Environment Manager (part); N Hill, Community & Regulatory Services Manager (part); K Williams, Team leader Community Compliance(part); R Horn, City Manager (part); N Michael, Senior Communications Advisor (part); M Bell, Corporate Planning Co-ordinator; I Tiriana, Public Relations Manager; R Dunn, Governance Lead; H King, Governance Support Advisor.

The Chairperson welcomed members, members of the public and staff to the meeting.

**1. NGĀ WHAKAPAAHA
APOLOGIES**

Cr Maxwell & Cr Kent apologised for early departure at 2pm.

**2. WHAKAPUAKITANGA WHAIPĀNGA
DECLARATIONS OF INTEREST**

Nil

The Mayor commented that she had forwarded a message of support to the Mayor, colleagues and the people of the Tasman District during these difficult times they are experiencing with a Civil Emergency put in place due to the scrub fires.

**3. NGĀ TAKE WHAWHATI TATA KĀORE I TE RĀRANGI TAKE
URGENT ITEMS NOT ON THE AGENDA**

Resolved:

That a confidential urgent item “Hemo Sculpture” be discussed and dealt with.

Cr Sturt/Cr Donaldson
CARRIED

The chair explained that:

- a) The item wasn't on the agenda as the agenda had been approved and distributed before this information had been received.
- b) The discussion on this item can't be delayed until a subsequent meeting as this could delay the progress of this project.

**4. TE WHAKAŪ I NGĀ MENETI
CONFIRMATION OF MINUTES**

4.1 MINUTES OF THE OPERATIONS & MONITORING COMMITTEE MEETING 1 NOVEMBER 2018

Resolved:

That the minutes of the Operations & Monitoring Committee meeting held 1 November 2018 be confirmed as a true and correct record

Cr Gould/Cr Raukawa-Tait
O&M 19/02/01
CARRIED

**5. NGĀ TĀPAETANGA
PRESENTATIONS**

- 5.1 Henry Weston (RLC), Rob Pitkethley (RLC), Steve Watene (RLC), John Latimer (CLM) & Pierre Holland (Aquatics Operations Manager) spoke to a Powerpoint presentation titled “Rotorua Aquatic Centre” (Attachment 1).
- 5.2 Senior Sergeant Denis Murphy (Rotorua Police) and Richard Horn (RLC) spoke to a Powerpoint presentation titled “Coordinated CBD Summer Safety Campaign” (Attachment 2).

*The meeting adjourned at 11.10am.
The meeting reconvened at 11.15am*

- 5.3 Neven Hill (RLC) & Kurt Williams (RLC) spoke to a Powerpoint presentation titled “Parking Services Contract” (Attachment 3).
- 5.4 Stavros Michael (RLC) spoke to a Powerpoint presentation titled “Finding a Solution for the Future Wastewater proposal for Rotorua” (Attachment 4).

**Confidential minutes of the Operations & Monitoring Committee meeting
held 7 February 2019**

**KÖRERO MUNA
PUBLIC EXCLUDED**

**8. NGÄ TAKE MATATAPU
CONFIDENTIAL ITEMS**

**8.1 TE WHAKAŪ I NGÄ MENETI (NGÄ TAKE MATATAPU)
CONFIRMATION OF MINUTES (Confidential items)**

Confidential minutes of Operations & Monitoring Committee meeting held 1 November 2018

Resolved:

That the confidential minutes of the Operations & Monitoring Committee meeting 1 November 2018 be confirmed as true and correct

Cr Gould/Cr Raukawa-Tait
O&M 19/02/05
CARRIED

9. URGENT ITEMS NOT ON AGENDA

9.1 Hemo Sculpture – update

Resolved:

That Craig Wilson (CE Kilwell Sports) remain in the Public Excluded Session to answer questions relating to the Hemo Sculpture.

Cr Sturt/Mr Waru
O&M 19/02/06
CARRIED

Craig Wilson spoke to a Powerpoint presentation titled "Hemo Sculpture, Council update" (Attachment 6).

ATTENDANCE: Cr Maxwell left the meeting at 2.03pm

ATTENDANCE: Mr Waru left the meeting at 2.06pm

ATTENDANCE: Cr Kent left the meeting at 2.35pm

Resolved:

That the Committee recommend to Council that they endorse the project's completion and that the Chief Executive continue the discussions with funders to cover any funding shortfalls.

Cr Sturt/Cr Raukawa-Tait
O&M 19/02/07
CARRIED

Hemo Sculpture Council Update

Update Meeting
7th Feb 2019

Agenda

1. Reminder of Original Quote
2. and Original Timetable
3. Current Status of Manufacturing
4. Revised Timetable
5. Cost vs Budget
 1. 3D printing
 2. Laminate & Chevron
 3. Estimates

1. Next Steps – (Original Presentation)

1. Engineer approval to ensure proposal meets same standards as galvanised option (RDC to supply).
2. Need sign off of RDC intention & order.
3. Need building to be finished before full production
4. Confirm Carbon & Fibreglass sock delivery time
5. Order & confirm delivery of 3D printers
6. Finalise Price

2. Original Project Timeframe

Timeframe	Weeks	Date
RDC/Te Puia Approval		1-Dec-17
Gurit Preliminary Report	2	15-Dec-17
Christmas break - Order Printers & Material	4	12-Jan-18
Gurit PS1 Certification	5	16-Feb-18
3D Print Tubing (18-23hrs/7 days per week)	13	18-May-18
Assembly of Tubing	5	24-Jun-18
Assembly & Install ">", Mania & Capping	3	17-Jul-18
Painting - Prep, Clear & 2 x Nyalic	3	8-Aug-18
Installation - Base, clamps, freight etc	2	22-Aug-18
Total Time (Weeks)	21.6	
Estimated Completion Date		31-Aug-18

3. Current Manufacturing Status

- 3D printing of tubes to finish end of next week
 - 2 outer tubes (14 & 15) – 9 & 11 pieces each.
 - New outer tips week after next.
 - Then chevrons to print (approx. 2 weeks work).
 - Currently 168 of 486 (35%) done.
 - Plate is all made – but needs to be cut & CNC'd.
 - Can print 40 per day(2hrs each) and manufacture 14/day – so progress is fast on these.
- Inner tube set is all finished.
- Outer tube set is 93% printed and 82% manufactured.
- Testing to still ongoing – next week is tube to tube and base testing.

3. Current Manufacturing Status

- Protech to have final rings drilled end of next week.
 - Templates partly checked to plinth yesterday – some work to be done there to clean up site and straighten bolts.
 - Option for them to help with levelling on install.
- Testing
 - Tube to tube being made now
 - Finalisation of design & qty has been difficult.
 - This will finalise the laminate for joining tubes – needed for assembly
 - We are recycling tubes and reducing qty to help save costs.

4. Revised Timetable

- Base rings to arrive around Feb- 8 - 12th
- Finish printing tubes by Feb-15th (with 2 weeks for chevrons)
- Start assembly Feb-11th (As soon as base ring arrives)
- Install Scaffolding Feb-22nd
- Inner finished Apr-30th (6 weeks)
- Outer finished May-10th (8 weeks)
- Installation Sunday May 19th or 26th – dependent on weather & traffic.

5. Budget vs Costs

	Total Budget	YTD Actual Spend	Estimated Spend to Go	Total Estimate	Over Spend	Over Spend Breakdown		
						3D File Delay	Chevrons Design & Test	Est. Costs
Materials	\$68,922	\$129,590	\$25,000	\$154,590	(\$85,668)	\$30,000	\$55,668	
Testing & Certification	\$16,600	\$50,328	\$12,210	\$62,538	(\$45,938)	\$20,000	\$25,938	
Scaffolding	\$6,250	\$0	\$16,000	\$16,000	(\$9,750)			\$9,750
Transport	\$6,400	\$0	\$15,000	\$15,000	(\$8,600)			\$8,600
Wages	\$247,108	\$200,721	\$73,675	\$274,396	(\$27,288)		\$27,288	
Others	\$25,936	\$0	\$53,054	\$53,054	(\$27,118)		\$22,118	\$25,000
	\$371,216	\$380,638	\$194,939	\$575,577	(\$204,361)	\$50,000	\$131,012	\$43,350

- Materials have been driven by extra layers – especially in relation to resin & consumables.
- Testing & Certification is by extra testing, rechecking of design and preparing 3D files of inner helix.
- Scaffolding is due to 2 structures instead of 1 – and extra time up (12 weeks)
- Transport is now confirmed by chopper – but includes no allowance for NZTA?
- Wages is due to extension of time – offset by 3D printing savings and loss of margin & buffer!
- Other includes the Mania plates (still TBC) and base plates which has been driven by materials 26mm 316 stainless.

5.1 3D Printing

1. We relied on the [redacted] designer to supply files for the 3D printer – 10 files every day. This proved unreliable.
2. We noticed errors in his print files [redacted].
3. By May we had only printed 25% - when budget was 75%. At that stage we had 3 instances of weeks with no files to print. We had planned to finish printing at end of May – instead we were at 30% and have only just finishing this week.
4. At our insistence we took ½ of the project to [redacted] to chop the file into 3D printable files. [redacted] took 2 weeks to prepare and finish 50% the structure.
5. It had taken the other engineer 4 months previously to do 30%. Later it was discovered that ¼ of what he had done was incorrect and had to be reprinted & remade.
6. This delayed the project considerably and increased costs due to reprints and cost to employ [redacted] to create the print files and recheck what we had done (estimated \$30k plus an additional \$20k engineering costs).

5.2 Laminate Change & Chevrons

1. Original proposed design had 5 layers of material – this was insufficient to meet the IL1 certification and was increased to 12 layers for the outer and 20 layers for the inner helix. There was no change at that time to chevrons and no change to original budget.
2. This was because we calculated that we could prepare, bag and vacuum 5 layers (instead of 1) – so the increase in materials was offset by savings in labour. Plus we absorbed extra costs of material due to fixed cost.
3. However when the IL was increased to 2 the wind loads went from 135 to 175 km/hr the modelling showed a bigger problem – the chevrons started peeling.
4. The only remedy for this was to install plate between the tubes, and initially 50 of them would be required to go through the tubes.
5. Discussions with Opus and completed testing have shown that the laminated chevron plate design is stronger than modelled and these have been reduced the through plates to 18 in total. But all chevrons require backing plate.
6. This is a considerable increase in material costs and time to make, test and manufacture.

5.3 Estimates

1. Mania plates still need to be finalised and costed – original quote had \$5k in as an estimate as design was not final.
2. Base rings were in at \$5k but final price is \$33k. This is due to Opus changing design to 26mm steel.
3. Transport was \$5k estimate – estimated price for chopper lift is \$15k – but this does not include NZTA traffic mngt (Est. \$20k).

Installation

- Alan Beck from Beck Helicopters Ltd can do the job.
- Using Super Huey – max lift 1,820Kg
- Inner = 1,540kg & Outer = 1,760kg – need 50kg form clearance due to precision drop.
- Scaffolding erected against building – refer diagram.
- Alan is working up flight plan and safety plan currently.
- Flight will go from Kilwell out to lake, up to airport and across to hills and then out and around into Hemo.
- Temp stop in carpark, reset, remove sail and then drop into place.
- Refuel and then repeat with inner. (need reserved area for landing & refuel)
- Drop onto 4x2 and then pull out once centred on bolts.
- Base plate to be cut with extra 10mm bolt counter sunk hole clearance to allow ease of locating.
- Each bolt to have plastic pointed covers to protect threads.

**Confidential minutes of the Council meeting
held 28 February 2019**

PUBLIC EXCLUDED SESSION

**8. NGĀ TAKE MATATAPU
CONFIDENTIAL ITEMS**

8.1 Confidential minutes – Council meeting 13 December 2018

Resolved:

That the confidential minutes of the Council meeting held 13 December 2018 be accepted as true and correct.

Cr Gould/Cr Tapsell
CARRIED

8.2 Nga Taunakitanga a etahi atu komiti (ngā take matatapu)
Recommendations from other committees (confidential items)

Resolved:

1. **That the report “Recommendations from other committees (confidential items)” be received.**

Cr Raukawa-Tait/Cr Kent
CARRIED

2. **That the following recommendations passed in the public excluded session of the Operations & Monitoring Committee meeting held 7 February 2019 be adopted:**

Recommendation 1

HEMO SCULPTURE – UPDATE

That Council endorse the project’s completion and that the Chief Executive continue the discussions with funders to cover any funding shortfalls.

Cr Sturt/Cr Donaldson
C19/02/002
CARRIED

The items that need to be addressed if the base plates are to go on correctly are:

1. Plastic covers over all the bolts need removing cleanly
2. A number of bolts need straightening.
3. The plinth needs to be cleaned (there are a number of concrete splatters dried on it) and levelled to ensure a level base is ready for install.

If these are not done it will make it difficult to install to a correct standard. Is this something that Opus (or whoever made it) be asked to look at and fix?

Regards
Craig

From: Henry Weston <Henry.Weston@rotorualc.nz>
Sent: Monday, 25 February 2019 4:56 PM
To: Craig Wilson
Cc: Craig Tiriana
Subject: Sculpture - Hemo

Dear Craig and thanks for the discussion last week.

We have discussed within Council and can confirm that we accept your offer of \$40k towards resolving this issue.

We are expecting Te Puia to confirm the same amount, and we understand that NZTA have agreed to cover the majority (at least) of the traffic management costs.

So what we have (and we need to lock this in) is:

Cost overrun	\$243K
Kilwell	\$40K
Te Puia	\$40K
Council	the balance

As discussed, there is no room for Council to incur any additional costs.

Kind regards and full steam ahead as we look forward to a wonderful asset for our City,

Henry

Henry Weston *Manahautū Mahi | Group Manager, Operations*
M: 027 4483055
E: henry.weston@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: Wednesday, 20 March 2019 12:54 pm
To: Stewart Brown; craigw@kilwell.co.nz; Henry Weston; Stavros Michael; 'Corrie Taylor' (Corrie.Taylor@nzta.govt.nz); 'nick@tepuia.com'; Marc Spijkerbosch
Subject: Draft Hemo Sculpture update for approval
Attachments: Draft Hemo sculpture update - 20 March.docx

Kia ora koutou

I have worked up a draft Hemo Sculpture update to go out to the public in the next couple of days (provided all parties are agreeable).

The draft article is attached and will also feature short video clips of an interview I did with Craig late last year. The footage covers why Kilwell took over the project (sense of pride), some challenges they have faced along the way and the last clip is of Craig talking about seeing the final product. If you would like to see the footage please let me know and I will forward it by Wettransfer.

Please take a look at the draft article and let me know if you have any questions, concerns or anything to add.

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

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.

The final stages in the construction of the Hemo Gorge Sculpture are underway with Kilwell in the process of joining the 12 metre long individual pieces together like a giant kitset, ready for installation.

In December 2017 Rotorua's Kilwell Fibretube stepped up to take over the project when the original fabricators were unable to create the shape of the design using stainless steel. A world first in terms of 3D printing, the project has faced a number of manufacturing challenges that has required some real innovation to come up with solutions.

Kilwell CEO Craig Wilson says his firm was keen to be involved as a way to showcase the work they do at the long-time Rotorua business. They also liked the idea of creating a major piece of art that will welcome visitors to the city from the south.

"It's been a ground breaking project with Rotorua Lakes Council, Te Puia and the NZ Transport Agency where we have had to blend engineering, manufacturing and art together."

Despite the significant challenges the project has presented, Mr Wilson says he and his staff are very proud of what they have produced and they hope the community will be too.

[Enter video 1](#)

"For the community and especially also our staff that live within it, it's about showing what Rotorua is capable of.

"A lot of people come to visit us for a weekend and they enjoy our amazing forest and they see all the lovely tourist attractions to do and they go mountain biking, but there's a lot more to here. ...There's some really good manufacturers here in Rotorua and we make some really cool stuff and it sells and it goes really well on the world stage.

"It's nice now to be able to put that back into a local environment and so this sculpture is something that we and hopefully the whole community can be proud of and showcase to everybody that comes to visit here. It's not only a great place to come and play, it's a great place to work as well."

Mr Wilson says as a world first in 3D printing the project has included a stringent testing regime that was put in place by Gurit Composite Engineering.. The sculpture and its base plate have been built to withstand winds of more than 175kmh – that's a grade 5 hurricane.

Challenges the Kilwell team faced were totally new to the world of 3D printing and fabricating a structure that didn't have the usual linear design that most of Kilwell's projects follow. That meant they had to come up with new solutions. There was no manual to turn to.

[Enter video 3](#)

Now that the structure is in its final stages of construction the team are putting plans in motion for its transport and installation on site at Hemo Gorge.

The sculpture will have a final height of 12 metres and a total weight of 3,300kg so the team are looking at the easiest and fastest way to install it – a helicopter. That will require favourable weather but all going well it should be in place before the end of June.

Flying the sculpture into place means disruption to road users would be minimal but there is a raft of factors that need to be considered and it will take the next couple of months to ensure the logistics of the move are covered.

At a recent Council meeting Kilwell were able to give an update to elected members about progress including higher than expected final costs for the fabricating and installation of the sculpture of \$743,029. Council confirmed that it would continue the construction of the sculpture and increase its final contribution from \$270,000 to \$388,000 with project partners and Red Stag Timber, Civic Arts Trust, Rotorua Trust, Infinity Foundation and Lion Foundation.

[Entre video 3](#)

Background

Timeline

- **November 2015:** Council calls for expressions of interest from artists
- **February 2016** - 13 expressions of interest are received
- **Late Feb 2016** – A shortlist of 5 is selected by an external Public Art Selection Panel and those artists are invited to develop their concepts for the sculpture
- **Mid-April 2016** – Te Puia selected for its concept
- **May 2016** – Engineers brought in to provide advice and plan for the fabrication of the 10m tall sculpture
- **Late 2016** - Tender process for a preferred contractor to construct the sculpture started
- **January 2017** – Tender process closed and contractor selected
- **Late August 2017** – Council considers new options to speed up construction of sculpture

What is the Hemo Gorge roundabout project?

The SH5/SH30 Hemo Road intersection project involved the construction of a new roundabout to replace the SH5/SH30 intersection in Rotorua to increase safety for drivers, cyclists and pedestrians. The project was completed in 2018.

Key objectives of the project were to:

- increase safety at this high-risk intersection (fourth highest on the national list of high-risk intersections for safety (2013).
- enhance connectivity and integrate with the surrounding area and local roads
- provide cycle and pedestrian access across the state highway and integrate it with the national cycleway
- create a gateway to Rotorua in partnership with Council and the local tourism businesses
- provide enhanced stormwater treatment.

What are the benefits of a sculpture at Hemo Road?

Visual aspects along transport corridors are a type of traffic calming measure. Motorists that do not have a clear line of sight through a roundabout will slow down and take their time travelling

through. Artwork, trees and signage are all types of traffic calming measures that help slow motorists.

The NZ Transport Agency's Urban Design Guidelines say 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

This sculpture will also play a key role in Council's aim to revitalise the city's gateways.

What does the sculpture represent?

The sculpture was inspired by the story of Te Arawa chief Ngātoroirangi, who was responsible for the safe passage of people to New Zealand. Designed by the New Zealand Maori Arts and Crafts Institute (Te Puia), the sculpture illustrates the origins of geothermal. While exploring south of Rotorua Ngātoroirangi almost perished from the cold atop Tongariro and called for his sisters Kuiwai and Haungaroa to send heat and warmth to save him. They travelled beneath sea and land in the form of fire, creating a geothermal corridor and valleys such as Whakarewarewa as they travelled and surfaced at various locations in search of him.

From:
Sent: Tuesday, 26 March 2019 4:11 pm
To: jbriscoe@xtra.co.nz
Cc: Craig Wilson; Marc Spijkerbosch
Subject: RE: Invoices required
Attachments: doc20190326151317.pdf

Hi Jonathon

Please find attached 2 invoices relating to contributions made by Affinity Foundation and Lion Foundation toward the Hemo Gorge Sculpture fabrication.

Credit Controller

P: -
F:

www.kilwell.co.nz

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490 Te Ngae Road, Rotorua 3010
Private Bag 3033, Rotorua 3046, New Zealand

KILWELL Where Adventures Begin

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From: Craig Wilson <craigw@kilwell.co.nz>
Sent: 26 March 2019 1:26 PM
To:
Cc:
Subject: FW: Invoices required

Hi,
Here are the 2 invoices we need to create with regards incoming funding for the Hemo Sculpture. The monies can be coded directly to the Hemo GL account 800063. The \$5k includes GST. Once paid they will require a copy of the bank statement showing receipt of the funds to be sent to them. Let me know if you need anything else.
Regards
Craig

From: Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>
Sent: Tuesday, 26 March 2019 12:21 PM
To: Craig Wilson <craigw@kilwell.co.nz>
Cc:
, Stewart Brown <Stewart.Brown@rotorualc.nz>
Subject: Invoices required

Hi Craig

The Public Arts Trust has received two donations each of 5K (incl.) from Lion Foundation and Infinity Foundation towards fabrication of the Hemo Gorge sculpture. As part of the audit process the Trust must in turn provide bank transactions showing funds have been appropriated correctly.

As mentioned earlier then, I wonder if Kilwell could generate 2 x invoices for \$5k (incl) each.

The invoices might read:

'Contribution to Hemo Gorge sculpture fabrication – ref. Affinity Foundation.'

'Contribution to Hemo Gorge sculpture fabrication – ref. Lion Foundation.'

These should be sent to (or e-mailed as above):

Rotorua Public Arts Trust
Attn. Jonothan Briscoe
c/- Tomkins Wake
1105 Arawa St,
P.O.Box 248
Rotorua

I have attached the Trust's bank account details for your records.

Many thanks again for your time – please be in touch if you require any further info at this point.

Kind regards
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
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KILWELL FIBRETUBE

Composite Tubing Solutions

Kilwell Fibretube Ltd
Private Bag 3033, Rotorua Mail Centre, Rotorua 3046, New Zealand
Phone: +64 7 345-8093 Fax: +64 7 345-5149
Email: admin@fibretube.co.nz www.kilwellfibretube.co.nz

Invoice To :

Rotorua Public Arts Trust
C/- Tomkins Wake
P O Box 248
Rotorua

Deliver To :

Rotorua Public Arts Trust
C/- Tomkins Wake
1105 Arawa Street
Rotorua

Tax Invoice CJ 39/13

GST # 13-201-951

Invoice Date 26 Mar 2019
Due Date: 26 Mar 2019
Account No. 499
Cust Order No. AFFINITY FOUNDATION
P/Slip No.

Code	Description	Quantity	Pack	Unit Price	Disc %	Total
	Lakes District Council - Hemo Sculpture	1.00		\$4,347.83		\$4,347.83

Payment Terms: Cash Only

Affinity Foundation contribution to Hemo Gorge Sculpture Fabrication

Bank Details for Direct Credits:

Account Name: Kilwell Fibretube Ltd
Account Number: 02-0412-0113570-03

Terms of Sale:

- (1) All goods remain the property of Kilwell Fibretube Ltd (the seller) until paid for in full.
- (2) The seller retains the right to retake possession of all goods not paid for by due date.
- (3) The purchaser shall indemnify the seller against loss or damage to goods prior to payment.
- (4) Payment discount is only applicable if invoice is paid within the agreed terms.

Total of Goods	\$4,347.83
Freight	\$
SubTotal	\$4,347.83
GST	\$652.17
TOTAL	\$5,000.00

Invoice.cif
Kilwell Fibretube Ltd

KILWELL FIBRETUBE

Composite Tubing Solutions

Kilwell Fibretube Ltd
Private Bag 3033, Rotorua Mail Centre, Rotorua 3046, New Zealand
Phone: +64 7 345-9093 Fax: +64 7 345-5149
Email: admin@fibretube.co.nz www.kilwellfibretube.co.nz

Invoice To :

Rotorua Public Arts Trust
C/- Tomkins Wake
P O Box 248
Rotorua

Tax Invoice CJ 40/14

GST # 13-201-951

Invoice Date 26 Mar 2019
Due Date: 26 Mar 2019
Account No. 499
Cust Order No. LION FOUNDATION
P/Slip No.

Deliver To :

Rotorua Public Arts Trust
C/- Tomkins Wake
1105 Arawa Street
Rotorua

Code	Description	Quantity	Pack	Unit Price	Disc %	Total
	Lakes District Council - Hemo Sculpture	1.00		\$4,347.83		\$4,347.83

Payment Terms: Cash Only

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- (3) The purchaser shall indemnify the seller against loss or damage to goods prior to payment.
- (4) Payment discount is only applicable if invoice is paid within the agreed terms.

Total of Goods	\$4,347.83
Freight	\$
SubTotal	\$4,347.83
GST	\$652.17
TOTAL	\$5,000.00

From: Henry Weston
Sent: Tuesday, 23 April 2019 2:39 pm
To: Craig Wilson
Subject: RE: Hemo

Sounds good

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

From: Craig Wilson <craigw@kilwell.co.nz>
Sent: Tuesday, 23 April 2019 2:39 PM
To: Henry Weston <Henry.Weston@rotorualc.nz>
Subject: RE: Hemo

Yep that's fine - see you then.

Cheers
Craig

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

From: Henry Weston <Henry.Weston@rotorualc.nz>
Sent: Tuesday, 23 April 2019 2:30 PM
To: Craig Wilson <craigw@kilwell.co.nz>
Subject: RE: Hemo

4pm Friday??
I can come to you...
h

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

From: Craig Wilson <craigw@kilwell.co.nz>
Sent: Tuesday, 23 April 2019 12:14 PM
To: Henry Weston <Henry.Weston@rotorualc.nz>
Subject: RE: Hemo

Hi Henry,

Is today, Tomorrow or Friday after 4pm workable?

Regards
Craig

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

From: Henry Weston <Henry.Weston@rotorualc.nz>
Sent: Tuesday, 23 April 2019 10:07 AM
To: Craig Wilson <craigw@kilwell.co.nz>
Subject: Re: Hemo

Hi Craig, thanks for this.
And yes, let's get together when you have a clearer picture. I'm round this week, Craig back Monday.
We have a full Council meeting next week and then Operations and Monitoring Committee on the 9th. We just need to be able to inform them as soon as we have the information.

Kind regards

Henry

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

From: Craig Wilson <craigw@kilwell.co.nz>
Date: 23/04/19 10:02 AM (GMT+12:00)
To: Henry Weston <Henry.Weston@rotorualc.nz>
Subject: RE: Hemo

Hi Henry,

Yes we had the engineer down in the weekend to go over some issues we have around assembly.

I think its best if we can get everyone out here again next week as dates are not look achievable given the problems we have had over the past month and issues with assembly.

Sorry this is not what you wanted to hear. Probably best for me to come in and have another discussion with you and Craig again before then.

Regards
Craig

From: Henry Weston <Henry.Weston@rotorualc.nz>
Sent: Tuesday, 23 April 2019 9:26 AM
To: Craig Wilson <craigw@kilwell.co.nz>
Subject: Hemo

Hi there Craig and hope all well with you.

I'm not sure if Stewart mentioned that the Associate Minister of Transport (Shane Jones) was keen to be at the opening of the Hemo Sculpture (I think there are discussions about logistics and whether it makes sense to hit the day of installation or a later date). It's just something we'll need to lock down over the next couple of weeks – but wanted you to be aware of it.

And can you just keep in touch re timing and how things are going with piecing it all together – I know you were meeting with engineers to finalise some details, but just want to be able to give politicians some reassurance on dates.

Kind regards

Henry

Henry Weston | Manahautū Mahi | Group Manager, Operations
M: 027 4483055
E: henry.weston@rotorualc.nz<mailto:henry.weston@rotorualc.nz> | W:
rotorualakescouncil.nz<http://rotorualakescouncil.nz/?utm_source=Stationery&utm_medium=Email&utm_content=Rob%2BPitkethley&utm_campaign=Stationery>
A: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

This message has been scanned for malware by Websense. www.websense.com<<http://www.websense.com/>>

From: Craig Wilson <craigw@kilwell.co.nz>
Sent: Tuesday, 23 April 2019 4:21 pm
To: Marc Spijkerbosch
Subject: RE: quote request
Attachments: Hemo Revised Quote v2 23-Apr-19.docx

Hi Marc,

Sorry for delay in getting back to you. Attached is the revised letter for you.

At this stage I have only included the contribution from RLC and not the contributions from Te Puia, NZTA and Kilwell towards its construction. Is this what you were after?

Regards
Craig

From: Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>
Sent: Monday, 8 April 2019 12:56 PM
To: Craig Wilson <craigw@kilwell.co.nz>
Subject: RE: quote request

Hi Craig
I'm still in the process of going out to funding organisations to help on the project.
I wonder if you might have a chance to update this quote for me?
It's important to send out accurate/current costings with these applications.
This is hugely appreciated.
Cheers
Marc

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, 5 November 2018 1:19 p.m.
To: Marc Spijkerbosch
Subject: RE: quote request

No worries. All good now... hopefully.

From: Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>
Sent: Monday, 5 November 2018 1:02 PM
To: Craig Wilson <craigw@kilwell.co.nz>
Subject: RE: quote request

Legend. Thanks Craig.
Only thing .. Rotorua Public Art Trust address should be:
P.O. Box 248
Rotorua 3040

Or simply take the address out.

Reckon they're quite pedantic so probably should get that right – my fault! So sorry for the extra hassle here. Much appreciate this.

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, 5 November 2018 12:55 p.m.
To: Marc Spijkerbosch
Subject: RE: quote request

Hi Marc,

Changes as requested all done.

Cheers
Craig

From: Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>
Sent: Monday, 5 November 2018 10:45 AM
To: Craig Wilson <craigw@kilwell.co.nz>
Subject: RE: quote request

Hi Craig
Sorry to come back to you on this, but hoped we could amend slightly?

Potential funders have requested that a quotation, **dated** currently, be made out directly to **The Rotorua Public Arts Trust**.

Hope this is do-able, really appreciate you actioning this.
Let me know if there's any queries ok.

Cheers, and thanks
Marc

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: Wednesday, 24 October 2018 12:50 p.m.
To: Marc Spijkerbosch
Subject: RE: quote request

Cheers Marc,

All signed (and spelling corrected!) copy attached.

Regards
Craig

From: Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>
Sent: Wednesday, 24 October 2018 12:02 PM
To: Craig Wilson <craigw@kilwell.co.nz>
Subject: RE: quote request

Hi Craig
Sorry to have pestered your time, but really appreciate this – it's perfect.
Only change would be to spell Marc – not Mark, but not a biggie at all.

Thanks heaps
Marc

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: Wednesday, 24 October 2018 10:28 a.m.
To: Marc Spijkerbosch
Subject: RE: quote request

Hi Marc,

Sorry, hadn't forgotten just have a big issue we are dealing with for another customer.

Does attached work for you? I have included some of the fixed costs for items we had not finalised when we did the original pricing. Can you review and let me know if this is ok?

Regards

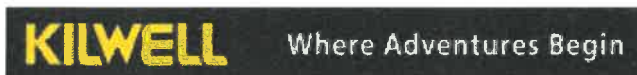
Craig Wilson (BMS, CA)
Chief Executive | Kilwell Sports Group
P: +64 (0)7 345 9094 Extn 832 M: +64 (0)21 2331190 or F: +64 (0)7 345 5149
Email: Craigw@kilwell.co.nz | Web www.kilwell.co.nz or www.kilwellfibretube.co.nz
490 Te Ngae Road, Rotorua 3010
Private Bag 3033, Rotorua 3046, New Zealand



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Awards 2018**

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From: Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>
Sent: Wednesday, 24 October 2018 9:54 AM
To: Craig Wilson <craigw@kilwell.co.nz>
Subject: RE: quote request

Hi Craig

Sorry to pester – would you have a chance to put something together here?

Really appreciated!

Cheers

Marc

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: Wednesday, 17 October 2018 11:31 a.m.

To: Marc Spijkerbosch

Subject: RE: quote request

Hi Marc,

Yep things are moving along – bit slower than hoped but we are getting there.

Did you just want a letter stating the total quote price of \$370,000?

Regards

Craig

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

Sent: Wednesday, 17 October 2018 10:36 AM

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

Subject: quote request

Hi Craig

Hope things are ticking along well there.

Just a small favour.

The Rotorua Public Art Trust have been helping with funding the Hemo sculpture and need a quote from Kilwell for your part of the project.

Obviously I have the numbers/breakdown here, but seems they need one with the Kilwell letterhead for a couple of their applications.

Hope this isn't too much of a pain, but wondered if you could organise something?

I think the deadline was for Tuesday next week.

Thanks heaps – let me know ok.

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

ROTORUA
LAKES COUNCIL

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April 23, 2019

Rotorua Lakes Council
Private Bag 3029
Rotorua Mail Centre
Rotorua 3046

Att: Marc Spijkerbosch

Please find confirmation of the Revised Quote for the manufacture and supply of the Hemo Gorge Sculpture for Rotorua Lakes Council contribution.

Price: \$530,000 + GST

This price includes :

- Manufacture and assembly of carbonfibre tubing to complete structure
- Arrow partitions between tubes (Chevrons – up to \$5,000)
- Base plate (up to \$34,000)
- Mania Side panels (up to \$8,000)
- Freight and onsite installation (up to \$13,000).

Yours Sincerely

Craig Wilson
Chief Executive

From: Kim McGrath
Sent: Monday, 29 April 2019 5:33 pm
To: I
Stewart Brown;`
Subject: HEADS UP - Hemo sculpture construction update - assembly has started

Below is the information/videos that Karen talked about in today's meeting.

Sorry I didn't send out back on the 21st. I was waiting for it to go public, and then promptly forgot!

Kim McGrath Tīheru Ohu Toihautū | Executive Support Officer, Chief Executive's Office
07 351 8142 | 0276288045 | kim.mcgrath@rotorualc.nz | rotorualakescouncil.nz

From: Karen Hunt
Sent: Thursday, 21 March 2019 4:04 p.m.
To: Kim McGrath
Subject: Fwd: HEADS UP - Hemo sculpture construction update - assembly has started

Hi Kim,

Please send this to the Major Public Arts Trust members (after Ingrid says its OK to be in the public) as I'm sure they will be grateful.

Kind regards

Karen

Begin forwarded message:

From: News Rotorua <News.Rotorua@rotorualc.nz>
Subject: HEADS UP - Hemo sculpture construction update - assembly has started
Date: 21 March 2019 at 14:02:49 NZDT

Kia ora,

The following news article update on the Hemp sculpture project will go on our channels shortly. Click on the links to see short interview videos with Craig Wilson, CEO of Kilwell Rotorua.

Blending engineering, art, technology and culture

Showcasing Rotorua's manufacturing industry on a world first project

21 March 2019



Kilwell's Will London under the first two (out of 60) pieces of the sculpture to be mounted on the base plate.

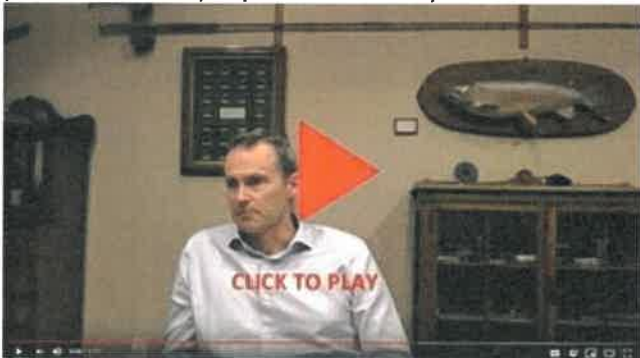
The final stages in the construction of the Hemo Gorge Sculpture are underway with Kilwell in the process of joining the 12 metre long individual pieces together like a giant kitset, ready for installation.

In December 2017 Rotorua's Kilwell Fibretube stepped up to take over the project when the original fabricators were unable to create the shape of the design using stainless steel. A world first in terms of 3D printing, the project has faced a number of manufacturing challenges that has required some real innovation to come up with solutions.

Kilwell CEO Craig Wilson says his firm was keen to be involved as a way to showcase the work they do at the long-time Rotorua business. They also liked the idea of creating a major piece of art that will welcome visitors to the city from the south.

"It's been a ground breaking project with Rotorua Lakes Council, Te Puia | New Zealand Māori Arts and Crafts Institute and the NZ Transport Agency where we have had to blend engineering, manufacturing and art together."

Despite the significant challenges the project has presented, Mr Wilson says he and his staff are very proud of what they have produced and they hope the community will be too.



Click on the image above to watch Kilwell Rotorua CEO Craig Wilson talk about what the project means to the team at Kilwell.

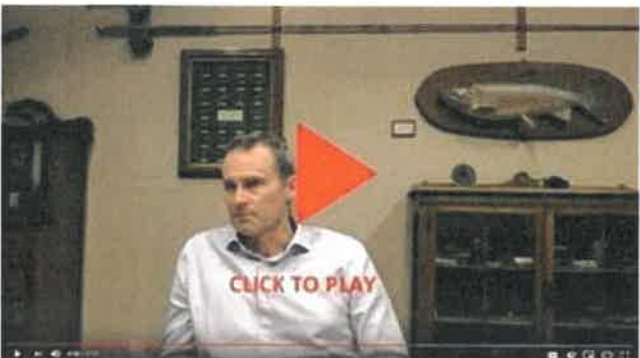
"For the community and especially also our staff that live within it, it's about showing what Rotorua is capable of.

"A lot of people come to visit us for a weekend and they enjoy our amazing forest and they see all the lovely tourist attractions to do and they go mountain biking, but there's a lot more to here. ...There's some really good manufacturers here in Rotorua and we make some really cool stuff and it sells and it goes really well on the world stage.

"It's nice now to be able to put that back into a local environment and so this sculpture is something that we and hopefully the whole community can be proud of and showcase to everybody that comes to visit here. It's not only a great place to come and play, it's a great place to work as well."

Mr Wilson says as a world first in 3D printing the project has included a stringent testing regime that was put in place by Gurit Composite Engineering. The sculpture and its base plate have been built to withstand winds of more than 175kmh – that's a grade 5 hurricane.

Challenges the Kilwell team faced were totally new to the world of 3D printing, including fabricating a structure that didn't have the usual linear design that most of Kilwell's projects follow. That meant they had to come up with new solutions. There was no manual to turn to.



Click on the image above to watch Kilwell Rotorua's CEO Craig Wilson talk about some of the challenges are that he and his team have had to overcome while creating the Hemo sculpture

Now that the structure is in its final stages of construction the team are putting plans in motion for its transport and installation on site at Hemo Gorge.

The sculpture will have a final height of 12 metres and a total weight of 3,300kg so the team are looking at the most efficient way to transport and install it. All going well it should be in place before the end of June.

At a recent Council meeting Kilwell were able to give an update to elected members about progress including higher than expected final costs for the fabricating and installation of the sculpture of \$743,029. Council confirmed that it would continue the construction of the sculpture and increase its final contribution from \$270,000 to \$388,000 with project partners and Red Stag Timber, Civic Arts Trust, Rotorua Trust, Infinity Foundation and Lion Foundation funding the rest.

Designed by Te Puia | NZMACI, the sculpture is seen as a unique way to tell the stories of the region, including the origins of the geothermal features and the story of Te Arawa tohunga (high priest) Ngātoro-i-rangi, who was responsible for the safe passage of his people to Aotearoa. It provides another opportunity for NZMACI to fulfil its Government mandate, to perpetuate, preserve and promote Māori arts and crafts – but in a contemporary way, with the design derived from whakairo rākau (wood carving).



Click on the image above to watch Kilwell Rotorua's CEO Craig Wilson talk about how the team are feeling about moving into the final construction stages

Background

Timeline

- **November 2015:** Council calls for expressions of interest from artists
- **February 2016** - 13 expressions of interest are received
- **Late Feb 2016** – A shortlist of 5 is selected by an external Public Art Selection Panel and those artists are invited to develop their concepts for the sculpture
- **Mid-April 2016** – Te Puia | New Zealand Māori Arts and Crafts Institute selected for its concept
- **May 2016** – Engineers brought in to provide advice and plan for the fabrication of the 10m tall sculpture
- **Late 2016** - Tender process for a preferred contractor to construct the sculpture started
- **January 2017** – Tender process closed and contractor selected
- **Late August 2017** – Council considers new options to speed up construction of sculpture

What is the Hemo Gorge roundabout project?

The SH5/SH30 Hemo Road intersection project involved the construction of a new roundabout to replace the SH5/SH30 intersection in Rotorua to increase safety for drivers, cyclists and pedestrians. The project was completed in 2018.

Key objectives of the project were to:

- increase safety at this high-risk intersection (fourth highest on the national list of high-risk intersections for safety (2013).
- enhance connectivity and integrate with the surrounding area and local roads
- provide cycle and pedestrian access across the state highway and integrate it with the national cycleway
- create a gateway to Rotorua in partnership with Council and the local tourism businesses
- provide enhanced stormwater treatment.

What are the benefits of a sculpture at Hemo Road?

Visual aspects along transport corridors are a type of traffic calming measure. Motorists that do not have a clear line of sight through a roundabout will slow down and take their time travelling through. Artwork, trees and signage are all types of traffic calming measures that help slow motorists.

The NZ Transport Agency's Urban Design Guidelines say 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

This sculpture will also play a key role in Council's aim to revitalise the city's gateways.

For Te Puia | New Zealand Māori Arts and Crafts Institute, the sculpture provides another opportunity to perpetuate, preserve and promote Māori Art and Craft, as outlined in its Government mandate.

What does the sculpture represent?

The sculpture was inspired by the story of Te Arawa chief Ngātoroirangi, who was responsible for the safe passage of people to New Zealand. Designed by the New Zealand Maori Arts and Crafts Institute (NZMACI) at Te Puia, the sculpture illustrates the origins of geothermal. While exploring south of Rotorua Ngātoroirangi almost perished from the cold atop Tongariro and called for his sisters Kuiwai and Haungaroa to send heat and warmth to save him. They travelled beneath sea and land in the form of fire, creating a geothermal corridor and valleys such as Whakarewarewa as they travelled and surfaced at various locations in search of him. NZMACI has a Government mandate to perpetuate, preserve and promote Māori arts and crafts, and the sculpture is another way it can fulfill this mandate.

Photos of manufacturing process



Above: 3D printers starting on the inner skeleton of the Hemo sculpture



Above: individual sections of the 3D printed skeleton ready to be put together



Above: the first couple of sections of the inner helix constructed



Above: gluing the 3D printed sections of the outer helix together



Above: sections of the inner helix waiting for layers of carbon fibre wrap

From: Craig Wilson <craigw@kilwell.co.nz>
Sent: Tuesday, 30 April 2019 11:04 pm
To: nick@tepuia.com; Stewart Brown
Subject: Gurit Report
Attachments: Te Ahi Tupua case study 0419 EXT APPROVAL.PDF

Hi Nick/Stewart,

James from Gurit has been preparing a report as per attached that highlights the Hemo and their use of the Altair software to model and design the composite laminate and loads for the PS1 certification.

It is written very much from a Gurit perspective and I could do with a bit of a background from each of the partners at the end.

He understands the current situation as he was down Easter weekend to help with some of the design and assembly issues we are trying to solve.

He will not release anything until all parties are happy with the timing and information included so could you all read through and let me know if there are any issues or additions you would like made.

Regards
Craig

DRAFT FOR APPROVAL BY GURIT EXTERNAL PARTIES:

- Stacy Gordine
- Kilwell Fibretube
- NZMACI (New Zealand Maori Arts & Crafts Institute), Derek Kawiti
- Te Puia (nick@tepuia.com)

To be uploaded to [Altair](#) website

Te Ahi Tupua - Hemo Gorge

Industry

Architecture, Engineering & Construction

Challenge

Find material to withstand corrosion and natural forces, validate the structural efficacy of the complex spiralling sculpture, within a tight budgetary criteria.

Solution

Using durable and lightweight composite material, Gurit modelled loads and stresses through the complex interconnected structure with Altair HyperMesh™ and optimized the laminate structure.

Results

The optimized, lightweight design met all structural requirements. Construction is underway to erect the sculpture

Employing Simulation-Driven Solutions to Develop an Iconic Sculpture

The local council of Rotorua, New Zealand approved upgrades to the town's road network, including a large roundabout at the Southern border. This presented Rotorua with the unique opportunity to create a showcase art installation to serve as a gateway, welcoming visitors and residents into the town.

New Zealand lore tells of the great navigator Ngatoroirangi, a Māori high priest who originally hailed from Hawaii. While exploring the central North Island, he became stuck in a snow blizzard atop Mount Tongariro. Desperate for help, he called out to his family in Hawaii to send him warmth and fire. They answered his call in the form of the geothermal activity we can observe in and around the region today.

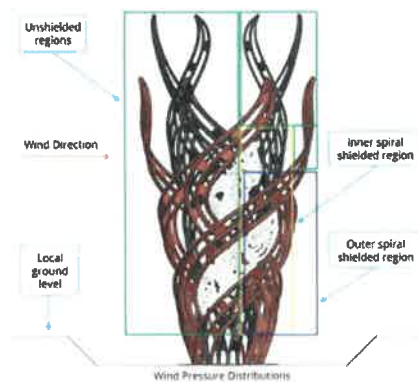
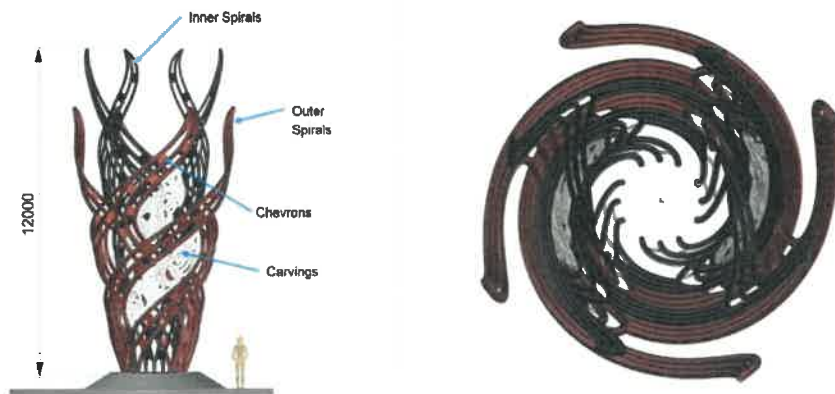
The geothermal activity is particularly prevalent in the town of Rotorua, which has become a popular tourist destination, renowned for both its geothermal activity and Māori culture. In the Whakarewarewa Valley, the 30 meter tall Pohutu Geyser erupts many times daily. The

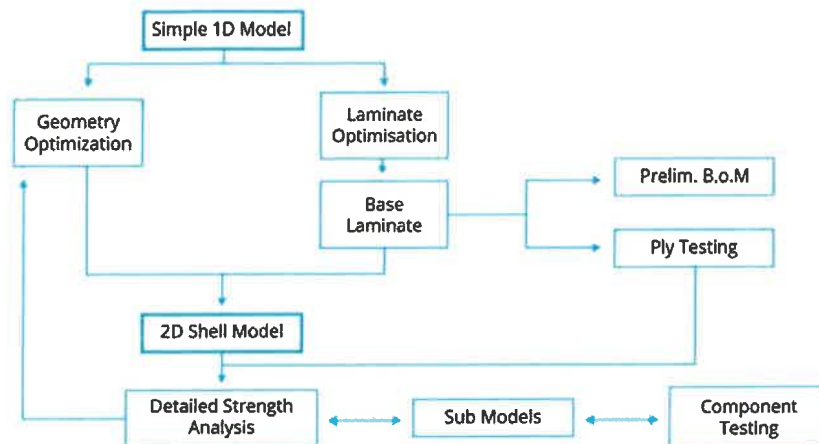
erupting water and steam of the geyser, along with the harrowing story of Ngatoroirangi, served as inspiration for Stacy Gordine, of the New Zealand Māori Arts and Crafts Institute, in his design of the curved structure for the gateway sculpture.

To help realize this ambitious project, the town elicited the help of local manufacturer Kilwell Fibretube, and composites company Gurit.

Based in Switzerland, Gurit is a developer and innovator in the composites industry as well as the leading global supplier of composite materials, engineering services, tooling equipment, and select parts and systems. Gurit has over 30 years' experience in the practical application of composites across various market sectors and projects, from small parts to large-scale structures, combined with a unique technical approach which enables them to offer a complete set of composite solution.

Gurit is present throughout the advanced composite value chain, from upstream structural engineering, to materials, processes, and testing, and downstream, delivering prototypes and fully finished manufactured parts.





Overcoming Environmental Challenges with Advanced Engineering

The Te Ahi Tupua sculpture measures around 12 meters tall with a maximum diameter of 6 meters. The inner and outer spirals are made up of groups of tubes with interconnected chevron plates. Four panels featuring traditional carvings are inlaid into the gaps within the sculpture. Initially, the sculpture was designed using steel tubing, however concerns at the manufacturing stage lead to a reassessment of the materials to be used. The highly corrosive environment of Rotorua due to the geothermal activity presented potential issues with the longevity of the piece.

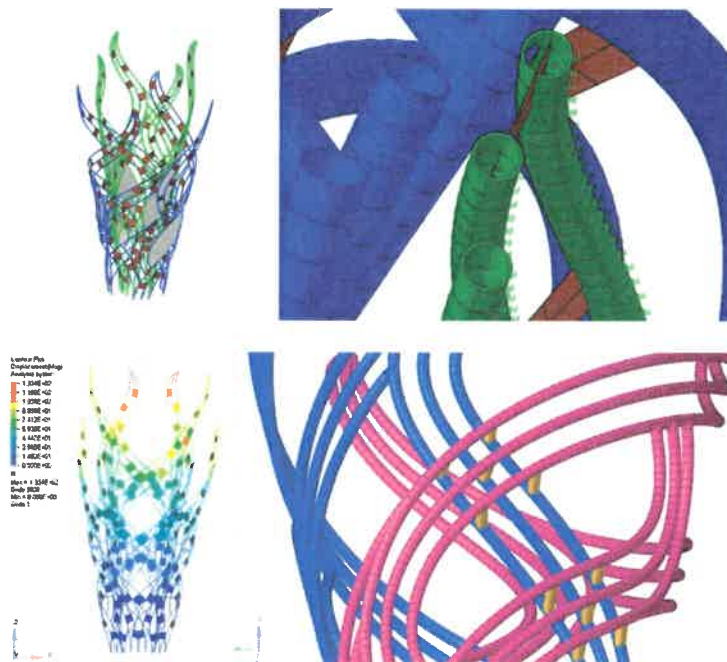
The organic nature and complex curvature of the structure suits the layered nature and drapability of composites materials. Traditionally, costs associated with the moulds and tooling needed to construct composite structures would be prohibitive to their use in this situation, but the advent of additive manufacturing has changed this and enabled their use in many more architectural applications.

In this case Kilwell Fibretube proposed to manufacture a male former via 3D printing individual segments of each tube. Around a thousand interlocking pieces were 3D printed and assembled, then wrapped in woven carbon fiber to form the curved tube structure. Gurit joined the project to confirm material quantities and verify that the required composite strength was achievable in order to withstand applied structural loads including the effects of high wind and earthquakes.





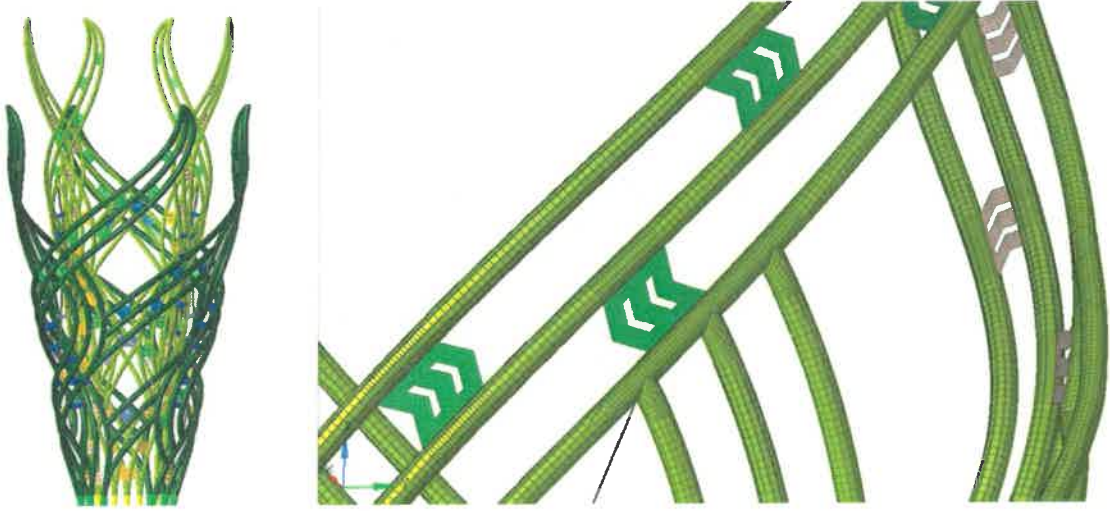
“It was interesting to see traditional Maori carving features represented using the modern technologies of 3D printing and composite materials,” said James Ledingham, Composite Structural Design Engineer at Gurit. “This created some unique challenges at the connections between parts which required careful analysis and verification via physical testing to produce a design that was both structurally sound and true to the artistic intent of the sculpture.”



Leveraging Simulation to Validate Structural Integrity and Minimize Cost

A simulation-based solution was imperative since much of the stiffness is generated by the sculpture's interconnected nature, resulting in very complex load paths. Using Altair HyperWorks software, Gurit was able to model and accurately interpret the bending stresses to derive the stiffness of the structure. A laminate optimization was then run with the objective to minimize mass. James weighed cost criteria and maximum deflection factors to help Gurit and their client arrive at the optimal project result; a laminate structure that meets strength requirements, minimizes mass and cost, and maintains a simple, easy to build

design.



Features like the auto-meshing and composite fiber orientation mapping in Altair HyperMesh™ allowed Gurit to quickly and accurately model the geometry and simulate the loads and stresses on the structure.



Now in the final stages of manufacturing, all involved in the project are excited for the Te Ahi Tupua sculpture to take its place at the gateway of the town. Incorporating New Zealand's cultural history, unique geography, and technical innovation, the sculpture stands to embody the absolute best of Rotorua, past, present, and future.



Artist, Sculpture Designer

Stacy Gordine

Manufacturer Specialist

Kilwell Fibretube

Engineering

Gurit

Photo Credits

Gurit, Kilwell Fibretube

Rendering Credits

NZMACI (New Zealand Maori Arts & Crafts Institute), Derek Kawiti

About Gurit

Over 30 years experience in the practical application of composites across various market sectors, combined with an impressive portfolio of materials and a unique technical approach, enables Gurit to offer the most complete composite solution on the market

www.gurit.com

Moana Petre

From: Henry Weston
Sent: Thursday, 2 May 2019 12:40 pm
To: Craig Wilson
Cc: Craig Tiriana
Subject: RE: Meeting

Could we lock in 1pm? At Sequoia??

From: Craig Wilson <craigw@kilwell.co.nz>
Sent: Wednesday, 1 May 2019 5:15 PM
To: Henry Weston <Henry.Weston@rotorualc.nz>
Subject: Meeting

Hi Henry,

Yes I am free Friday – off to Auckland tomorrow but will be back after 11am on Friday.

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
w: www.kilwell.co.nz | f: facebook.com/KilwellSports | i: instagram/kilwellsports
w: www.kilwellfibretube.co.nz | f: facebook.com/KilwellFibretube
490 Te Ngae Road, Rotorua 3010 | Private Bag 3033, Rotorua 3046, New Zealand



Winner

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Kim McGrath

From: Craig Wilson <craigw@kilwell.co.nz>
Sent: Wednesday, 15 May 2019 9:58 pm
To: nick@tepuia.com; Stewart Brown
Subject: 3D Printing Talk for Tech Week

Hi All,

Just a heads up - I have been asked to talk at one of the Teckweek2019 events on 3D printing & future opportunities for Rotorua which will involve how this has helped with the Hemo Gorge Sculpture.

Nothing like a bit of short notice – but it's on at Te Puia at 5.30pm this Friday!

<https://www.facebook.com/events/814006135630486/>

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
w: 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 | 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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Click [here](#) to report this email as spam.

From: Henry Weston
Sent: Monday, 20 May 2019 12:19 pm
To: Craig Wilson
Subject: RE: Hemo Scaffolding going up

Fantastic!

From: Craig Wilson <craigw@kilwell.co.nz>
Sent: Friday, 17 May 2019 4:34 PM
To: Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; Stewart Brown <Stewart.Brown@rotorualc.nz>; Craig Tiriana <Craig.Tiriana@rotorualc.nz>; Henry Weston <Henry.Weston@rotorualc.nz>; nick@tepuia.com; 'Stacy Gordine' <stacy@nzmaci.com>
Subject: FW: Hemo Scaffolding going up

Hi All,

Thought you might like to see the progress phot of where we are with the scaffolding going up this week(this is after 2 days), should be finished by next week!

Inside is progressing well and hoping to have some near new tubes finished to go inside.

Regards
Craig

From: Craig Wilson <wils_nz@hotmail.com>
Sent: Friday, 17 May 2019 4:27 PM
To: Craig Wilson <craigw@kilwell.co.nz>
Subject:

Regards
Craig Wilson

Click [here](#) to report this email as spam.



From: Marc Spijkerbosch
Sent: Monday, 10 June 2019 9:20 am
To: 'Craig Wilson'
Subject: RE: Hemo Scaffolding going up

Hi Craig

Apologies for the delay. P.O. no. RLP009921 has been sent through to your accounts team this morning. 40k +gst
Many thanks
Marc

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: Thursday, 6 June 2019 12:12 p.m.
To: Marc Spijkerbosch
Cc: .
Subject: RE: Hemo Scaffolding going up

Hi Marc,

Any word on the PO number – we are wanting to close our May accounts as it is year end for us and we need the PO to do the final invoice.

Thanks
Craig

From: Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>
Sent: Wednesday, 5 June 2019 11:37 AM
To: Craig Wilson <craigw@kilwell.co.nz>
Subject: RE: Hemo Scaffolding going up

Hi Craig

No problem, just waiting for a P.O. number to add to your next invoice (40k + gst).
Will action soon as it arrives.

Cheers
Marc

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: Friday, 31 May 2019 3:02 p.m.
To: Marc Spijkerbosch
Subject: RE: Hemo Scaffolding going up

Hi Marc,

I sent this one to you a while ago, while you were on leave – is this what you are after?

I do need to start getting some invoices to you for the extra increase – hopefully next week – the first one of \$40k will be dated 31-May.

I have a draft setup as attached showing original invoices and updated to the \$570k price. Let me know your thoughts.

Regards

Craig

From: Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>
Sent: Friday, 31 May 2019 2:10 PM
To: Craig Wilson <craigw@kilwell.co.nz>
Subject: RE: Hemo Scaffolding going up

Hi Craig, trust all's well

I just had a look at the completed scaffolding – very, very impressive. Certainly gives an idea of the scale of the sculpture.

Certainly looking forward to seeing this come to life over the next little while.

Just a small thing ... I wonder if it's possible to get an updated quotation from Kilwell for the manufacture of the artwork. It's required by potential funding partners I'm engaging with.

No pressure, but would be hugely appreciated.

Many thanks – enjoy the long weekend!

Cheers

Marc

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: Friday, 17 May 2019 4:34 p.m.
To: Marc Spijkerbosch; Stewart Brown; Craig Tiriana; Henry Weston; nick@tepuia.com; 'Stacy Gordine'
Subject: FW: Hemo Scaffolding going up

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Inside is progressing well and hoping to have some near new tubes finished to go inside.

Regards

Craig

From: Craig Wilson <wils_nz@hotmail.com>
Sent: Friday, 17 May 2019 4:27 PM
To: Craig Wilson <craigw@kilwell.co.nz>
Subject:

Regards

Craig Wilson

From: Marc Spijkerbosch
Sent: Wednesday, 12 June 2019 9:37 am
To:
Subject: RE: Purchase Order RLP009921

Hi
Have sent through for processing - many thanks.
Marc

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

From:
Sent: Tuesday, 11 June 2019 11:52 a.m.
To: Marc Spijkerbosch
Cc: Craig Wilson
Subject: RE: Purchase Order RLP009921

Hi Marc

Please see our invoice attached for your PO RLP 009921.

Credit Controller
Kilwell Sports

p:
f: -
w: www.kilwell.co.nz | f: facebook.com/KilwellSports | i: instagram.com/kilwellsports
490 Te Ngae Road, Rotorua 3010 | Private Bag 3033, Rotorua 3046, New Zealand

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From: Craig Wilson <craigw@kilwell.co.nz>
Sent: Wednesday, 12 June 2019 11:24 am
To: nick@tepuia.com; Stewart Brown
Cc:
Subject: Hemo write up in the NBR
Attachments: Kilwell business - Draft 1.1.docx

Hi All,

We have been approached by the NBR as they are wanting to write up an article on the Hemo Sculpture.

They have sent through the attached information which I have made some updates and adjustments to – is there any other changes or additions you would like to see incorporated.

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
w: www.kilwell.co.nz | f: facebook.com/KilwellSports | i: instagram/kilwellsports
w: www.kilwellfibretube.co.nz | f: facebook.com/KilwellFibretube
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Kilwell – from fishing rods to Star Wars light-sabreers and a world first 3D printed sculpture

The 85 year-old Kilwell family business

- In 2018 Kilwell Sports celebrated 85 years of operation, while Kilwell Fibretube celebrated 50 years of manufacturing.
- Kilwell Fibretube was established in 1968 to manufacture specialist fishing rod blanks for New Zealand, Australia and South Africa. Knowledge gained in this industry was soon applied to other sporting equipment and a rapidly expanding industry using specific tubing for their industries.
- [7585](#) per cent of Kilwell Fibretube production is exported to more than 20 countries.
- Kilwell Sports distributes its extensive range of leading fishing and shooting brands nationwide with more than 7,800 product lines. Traditionally a wholesale distributor, it has more recently launched an e-commerce website in partnership with its dealer network.
- The company is now owned and managed by the third generation of Wells family: Amanda Wells, marketing director, and Geoff Wells (sales & procurement director).
- Kilwell has [8575](#) staff in total. Kilwell Sports has an average of [1520](#) years of staff service and Kilwell Fibretube [136](#) years, with [eleven](#) people serving [3040](#) years or more.
- The name Killwell came from the fishing flies Amanda's grandfather made - he said his flies killed fish rather well.

Products made – Star Wars, Bentley, bomb dismantling robots and more

- Made 200 carbon fibre tubes for the Star Wars movie to be used as light-sabreers.
- Produced 28,000 squash racquet shafts annually for Dunlop, Slazenger and Spalding.
- Today, rowing and yachting are the largest consumers of sporting carbon composite tubing.
- Aerospace, mining and industrial componentry occupy a significant proportion of production.
- Produced a very expensive tube for Bentley for behind their cars seats to stop the car compressing if it rolled.
- Supplied an English company with arms for bomb dismantling robots.
- Produces Kilwell fishing rods and Kilwell fresh water lures.

3D printing innovation

- The recent innovation of 3D printing has shifted creativity internally at Kilwell, with staff coming up with ideas and other ways of working in carbon fibre laminate manufacturing

Building the world's largest 3D Sculpture for Hemo Gorge Roundabout:

- Visitors travelling to and from Rotorua will soon be welcomed by a 12-metre-high sculpture which will be more than just a piece of art – but a culmination of Māori history and evolving arts and crafts, set to gain international attention.
- The sculpture is inspired by the story of Te Arawa chief Ngātoroirangi, who was responsible for the safe passage of people to New Zealand.
- It is a world first in 3D printing [and composites on this scale](#) - the project has included a stringent testing regime that was put in place by Gurit Composite Engineering.

- The biggest 3D composite structures in the world to date are small compared to the Hemo design - around 1.5m to 2m high as opposed to this 12m sculpture.
- The sculpture will be part of an \$8 million roading project run by New Zealand Transport Agency (NZTA) to build a new roundabout at the intersection of Hemo Rd and Old Taupo Rd.
- The sculpture will form the southern gateway to the city, aligning with the cultural concept of a waharoa (gateway), where before entering the area, you acknowledge the cultural significance of the place and its ancestors.
- The entire sculpture is taking approximately 17,300 hours to print, with the printers running up to 1924 hours per days, seven days a week for almost a year more than two months.
- The printers will use more than 26263 kilometres of PLA-biodegradable thermoplastic filament (PLA), ~~and more than 252km of biodegradable thermoplastic.~~
- The project is made up of 1700 pieces.
- The construction will use carbon fibre, fibreglass and resin.
- Kilwell describes the project as "ground-breaking" with a blend of engineering, manufacturing and art.
- The sculpture will sit on a half metre~~1.8m~~-tall plinth scripted with the narrative of the story of Ngātoro-i-rangi, visible from the underpass, being incorporated into the roundabout design.
- The cost of installing and making the Hemo sculpture is \$743,029 and it aims to be installed in Spring 2019.
- It is estimated the installation will be done using a helicopter to fly the sculpture in two parts, which in total weighs 3,300kg, to the location in two parts.
- Craig Wilson, Kilwell chief executive says "It's not quite like Lego, more like a giant Jenga".
- The sculpture and its base plate have been built to withstand winds of more than 175km/h – that's a grade 5 hurricane.
- The final stages in the construction of the Hemo Gorge Sculpture are underway with Kilwell in the process of joining the 12 metre long individual pieces together like a giant kitset, ready for installation.
- Challenges the Kilwell team faced were totally new to the world of 3D printing, including fabricating a structure that didn't have the usual linear design that most of Kilwell's projects follow. That meant they had to come up with new solutions. There was no manual to turn to.
- It gives a sense of arrival and wonderment, while serving as a sculptural expression of the cultural narratives behind the formation of the region's geothermal features.



Inspiration behind the sculpture

The sculpture tells the history of the local tribe, Te Arawa, and its tohunga (high priest) Ngātoro-i-rangi, leader of the Te Arawa canoe from Hawaiiki, who was caught in a blizzard of snow and ice on Mount Tongariro.

He called to his sisters in Hawaiiki for help, who sent the demi-god siblings Te Hoata and Te Pupu to deliver heat, creating geysers, hot pools and volcanoes along the way, until fire reached him.

Part of the inspiration for the design also came from putting a camera down the world famous Pōhutu Geyser which explodes 30m in the air at Te Puia and seeing how the erupted water and steam created a vortex.

The inner vortex of the sculpture is symbolic of the spiritual power and mana of Ngātoro-i-rangi and his call to his sisters reaching skyward. The outer vortex symbolically surrounds the inner vortex, with heat and warmth bought from Hawaiiki by the demi-god siblings.

There are eight main bands in total (inner and outer) which also represent Ngā Pūmanawa e Waru o Te Arawa – the eight beating hearts that are the eight iwi within Te Arawa confederation of tribes.

Located in the middle of the new Hemo [Gorege](#) roundabout, the sculpture embodies navigation and travelling, both ancient and modern.

Designed by:

- New Zealand Māori Arts and Crafts Institute tumu (head) of Te Takapu o Rotowhio (National Stone and Bone Carving School) Stacy Gordine.
- It provides another opportunity for NZMACI to fulfil its Government mandate, to perpetuate, preserve and promote Māori arts and crafts – but in a contemporary way, with the design derived from whakairo rākau (wood carving)
- The finished product will look exactly like the model thanks to the precision of 3D technology.

Photos of the process:



From: Marc Spijkerbosch
Sent: Thursday, 20 June 2019 8:38 am
To: Stewart Brown; 'Craig Wilson'; 'Stacy Gordine'; nick@tepuia.com; Henry Weston
Cc:
Subject: RE: Next Hemo Update Meeting

Thanks Craig

But please accept my apologies – I am in Auckland Tuesday & Wednesday.
Trust all is going smoothly and I will certainly catch up on things in due course.

Cheers
Marc

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

From: Stewart Brown
Sent: Wednesday, 19 June 2019 2:14 p.m.
To: 'Craig Wilson'; 'Stacy Gordine'; nick@tepuia.com; Marc Spijkerbosch; Henry Weston
Cc: ;
Subject: RE: Next Hemo Update Meeting

Hi Craig
Tuesday at 3pm suits me ?

Cheers

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 | W: www.rotorualakescouncil.nz



2019 ROTORUA LAKES COUNCIL WINTER EVENTS GUIDE
DOWNLOAD IT HERE



From: Craig Wilson [<mailto:craigw@kilwell.co.nz>]
Sent: Tuesday, 18 June 2019 5:29 p.m.
To: 'Stacy Gordine'; nick@tepuia.com; Stewart Brown; Marc Spijkerbosch; Henry Weston
Cc:
Subject: Next Hemo Update Meeting

Hi All,

We have now finished the two main internal helix pillars and they have started being erected outside inside the scaffolding this week.

So are we able to have a catchup meeting Tues or Wed next week at 11.30am or 3pm (either day) to review the structure and update on timing and pricing?

Unfortunately Laz & I are away in Australia for the rest of this week and I am away from next Thursday for a week.

Please confirm what times work and I will try and book something that works for most people.

Kind regards

Craig Wilson
Chief Executive
Kilwell Sports | Kilwell Fibretube

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From: Henry Weston
Sent: Thursday, 20 June 2019 5:09 pm
To: Craig Wilson
Subject: RE: Next Hemo Update Meeting

Fantastic Craig – well done.
Have enjoyed even seeing the scaffolding....
I'll have to leave this next one to Stewart...

From: Craig Wilson <craigw@kilwell.co.nz>
Sent: Tuesday, 18 June 2019 5:29 PM
To: 'Stacy Gordine' <stacy@nzmaci.com>; nick@tepuia.com; Stewart Brown <Stewart.Brown@rotorualc.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>; Henry Weston <Henry.Weston@rotorualc.nz>
Cc:
Subject: Next Hemo Update Meeting

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So are we able to have a catchup meeting Tues or Wed next week at 11.30am or 3pm (either day) to review the structure and update on timing and pricing?

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Please confirm what times work and I will try and book something that works for most people.

Kind regards

Craig Wilson
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Click [here](#) to report this email as spam.

From: Craig Wilson <craigw@kilwell.co.nz>
Sent: Tuesday, 25 June 2019 9:24 am
To: Stewart Brown
Subject: RE: RE: Next Hemo Update Meeting

Cant do any earlier – if you cant to make it out at 2pm I can show you where we are at though?

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

From: Stewart Brown <Stewart.Brown@rotorualc.nz>
Sent: Tuesday, 25 June 2019 8:30 AM
To: Craig Wilson
Subject: Declined: RE: Next Hemo Update Meeting
When: Tuesday, 25 June 2019 3:00 PM-4:00 PM (UTC+12:00) Auckland, Wellington.
Where: Kilwell

Hi Craig sorry can't make 3pm, 1 -2:30pm I am available

This message has been scanned for malware by Websense. www.websense.com

Click [here](#) to report this email as spam.

From: Craig Wilson <craigw@kilwell.co.nz>
Sent: Monday, 1 July 2019 1:33 pm
To: Marc Spijkerbosch
Cc: Stewart Brown
Subject: Re: Rotorua Public Arts Trust

Hi Marc.
Yes that's fine. I will sort one for you next week I am back.
Cheers
Craig

Regards
Craig Wilson

From: Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>
Sent: Monday, July 1, 2019 11:50:55 AM
To: Craig Wilson
Cc: Stewart Brown
Subject: Rotorua Public Arts Trust

Hi Craig
Had a chance to pop in last week and check things over with William – it's looking fantastic.
Just checking on the possibility of having the Rotorua Public Arts Trust make another payment directly to Kilwell for the sculpture fabrication – helps for clear accountability to their funders, and to obviously reduce Council's commitment a little bit.
Total is \$25k (incl gst).
I would just need an invoice generated for RPAT at some point.
Hope this sounds ok?
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

ROTORUA
LAKES COUNCIL

This message has been scanned for malware by Websense. www.websense.com

Click [here](#) to report this email as spam.

From: Marc Spijkerbosch
Sent: Monday, 15 July 2019 2:17 pm
To: 'Craig Wilson'
Cc:
Subject: RE: June & July Invoices

No worries Craig
Will send them through on Wednesday when Stewart is back on deck to sign off.
Cheers
Marc

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, 15 July 2019 12:36 p.m.
To: Marc Spijkerbosch
Cc: .
Subject: June & July Invoices

Hi Marc,

We need to invoice you for the June & July invoices for the Hemo – they are for \$40k + GST each.

Can you get us some PO numbers for these.

Kind regards

Craig Wilson
Chief Executive
Kilwell Sports | Kilwell Fibretube

p: +64 (0)7 345 9094, ext 832 | m: +64 (0)21 233 1190
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[Craig Wilson]

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Sent: Monday, 10 June 2019 9:20 AM
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Subject: RE: Hemo Scaffolding going up

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Many thanks

Marc

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: Thursday, 6 June 2019 12:12 p.m.

To: Marc Spijkerbosch

Cc: .

Subject: RE: Hemo Scaffolding going up

Hi Marc,

Any word on the PO number – we are wanting to close our May accounts as it is year end for us and we need the PO to do the final invoice.

Thanks

Craig

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

Sent: Wednesday, 5 June 2019 11:37 AM

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Cheers

Marc

Marc Spijkerbosch Community Arts Advisor

P: 07 351 8154 | E: marc.spijkerbosch@rotorualc.nz | W: rotorualakescouncil.nz

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Sent: Friday, 31 May 2019 3:02 p.m.

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I have a draft setup as attached showing original invoices and updated to the \$570k price. Let me know your thoughts.

Regards

Craig

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Hi Craig, trust all's well

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Certainly looking forward to seeing this come to life over the next little while.

Just a small thing ... I wonder if it's possible to get an updated quotation from Kilwell for the manufacture of the artwork. It's required by potential funding partners I'm engaging with.

No pressure, but would be hugely appreciated.

Many thanks – enjoy the long weekend!

Cheers

Marc

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: Friday, 17 May 2019 4:34 p.m.
To: Marc Spijkerbosch; Stewart Brown; Craig Tiriana; Henry Weston; nick@tepuia.com; 'Stacy Gordine'
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Regards

Craig

From: Craig Wilson <wils_nz@hotmail.com>
Sent: Friday, 17 May 2019 4:27 PM
To: Craig Wilson <craigw@kilwell.co.nz>
Subject:

Regards
Craig Wilson

Click [here](#) to report this email as spam.

This message has been scanned for malware by Websense. www.websense.com

From: Marc Spijkerbosch
Sent: Friday, 19 July 2019 1:09 pm
To: 'William London'; Craig Wilson
Cc:
Subject: RE: Hemo Plinth Bolt check-up

Just heard 1pm next Tuesday.
See you there ..
Thanks
Marc

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

From: William London [mailto:williaml@fibretube.co.nz]
Sent: Friday, 19 July 2019 1:04 p.m.
To: Marc Spijkerbosch; Craig Wilson
Cc: Laszlo Kotan
Subject: Re: Hemo Plinth Bolt check-up

I can be available.

Cheers
William London

Sent From iPhone

From: Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>
Sent: Friday, July 19, 2019 1:01:30 PM
To: Craig Wilson <craigw@kilwell.co.nz>
Cc: William London <williaml@fibretube.co.nz>; Laszlo Kotan <Laszlok@fibretube.co.nz>
Subject: RE: Hemo Plinth Bolt check-up

Thanks Craig
Agreed – let's look at next week. Have pencilled in Tuesday, be great if you could have someone along.
Will confirm a time when Mark gets back to me.
Can't imagine we'll be able to remove any bolts as per spec'd – but will definitely ask the question.
Cheers for that
Marc

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: Friday, 19 July 2019 12:43 p.m.
To: Marc Spijkerbosch

Cc: William London; Laszlo Kotan
Subject: RE: Hemo Plinth Bolt check-up

Hi Marc,

Yeah next week would be best (weather is miserable and not expected to get any better!). Just let us know a time and we should be able to ensure someone is there to help.

We have the templates available if required.

Not sure on reducing their height – this may need Opus to confirm (if asking then see if they can remove some – as 48 per ring is very excessive – they could have done 4 much larger ones if doing again – but what is done is done unfortunately).

Regards
Craig

From: Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>
Sent: Friday, 19 July 2019 9:35 AM
To: Craig Wilson <craigw@kilwell.co.nz>; William London <williaml@fibretube.co.nz>
Subject: RE: Hemo Plinth Bolt check-up

Hi Craig

I'm meeting with Mark Pemberton (builder) 2pm this afternoon to take a first look at the plinth and discuss the cleandown/prep required.

Not sure we need the template just as yet, but would it be possible to have perhaps William advise (or even join us) to discuss the requirements for this? I understand that the bolts could also be potentially shortened ...

I just see the weather forecast is not brilliant for this afternoon – so happy to shift out till early next week if that might suit better.

Look forward your thoughts.

Cheers
Marc

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: Wednesday, 30 January 2019 5:22 p.m.
To: Shilton, Fred; Marc Spijkerbosch
Cc: Chris Farnsworth; Nick Dallimore
Subject: RE: Hemo Plinth Bolt check-up

Hi Fred,

Yes pretty much so – a couple of them appear to have been bent a bit out of alignment – but we are pretty sure we can use a rubber mallet to move them back. We only checked a 1/3 of the bolt placements as it was a much bigger job taking off the plinth cover than expected. A lot more screws and by 9am we were baking in the heat!

So we are going to go back at a later date and check the entire area. The bolts all need their protective cover removed (a glad wrap/masking tape/concrete splatter cover which I assume was put on during the concreting phase) and the

plinth needs cleaning up as there is a bit of excess concrete splatter that will interfere with the rings when trying to level them off during the install.

We were planning on making some changes to the base plate around widening and count sinking the bolt holes to make the lowering on of the ring easier – especially when there are 48 on each ring to line up. We will also put a pointed plastic sheath over the bolts to protect them and help guide them into through the holes when its dropped into place.

Will let you know when we go back to have another look and clean up the plinth – but will wait for a cooler day to be sure.

Regards
Craig

From: Shilton, Fred <fred.shilton@wsp-opus.co.nz>
Sent: Wednesday, 30 January 2019 3:12 PM
To: Craig Wilson <craigw@kilwell.co.nz>; Marc Stijkenbosch <marc.spijkerbosch@rotorualc.nz>
Cc: Chris Farnsworth <Chris.Farnsworth@nzta.govt.nz>; Nick Dallimore <nick@tepuia.com>
Subject: RE: Hemo Plinth Bolt checkup




How did the bolt check go, does it all line up still?



Fred Shilton

Work Group Manager Transportation | Project Director

WSP Opus, 1105 Arawa St, Rotorua 3010, New Zealand
PO Box 1245, Rotorua 3040, New Zealand

 +64 7 343 1405  +64 27 499 9356  Fred.Shilton@wsp-opus.co.nz



www.wsp-opus.co.nz

From: Craig Wilson [<mailto:craigw@kilwell.co.nz>]
Sent: Saturday, 26 January 2019 9:30 p.m.
To: Marc Stijkenbosch <marc.spijkerbosch@rotorualc.nz>; Shilton, Fred <fred.shilton@wsp.com>
Cc: Chris Farnsworth <Chris.Farnsworth@nzta.govt.nz>; Nick Dallimore <nick@tepuia.com>
Subject: Hemo Plinth Bolt checkup

Hi All,

Just to let you know Tony from Protech stainless in Hamilton will be over on Wednesday morning at 8am with a template of the inner and out helix rings. We plan is to take the lid off the plinth and check that everything fits and then replace it - should not take long. But its something we want to double check before we go to make the final ring and go to chopper in he sculpture.

Let me know if there is any problems - anyone else is welcome to come and inspect.

Regards

Craig

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From: Marc Spijkerbosch
Sent: Tuesday, 1 October 2019 8:50 am
To: Craig Wilson (craigw@kilwell.co.nz)
Cc: (nick@tepuia.com)
Subject: Hemo sculpture website/promo discussion

Nick Dallimore

Morning Craig

Be great if we could catch up and look through some potentials here.

As mentioned, the Rotorua Public Arts Trust could be keen to look at hosting a website around this.

I've cc'd trust members – I wonder if it might suit for us all to meet at Kilwell this week?

Suggesting 1pm Thursday, let me know if this works for everyone ok.

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: Marc Spijkerbosch
Sent: Tuesday, 1 October 2019 9:08 am
To: 'Nick Dallimore'; 'Craig Wilson'
Cc: 'Stacy Gordine'; 'jacky@shinepr.co.nz'
Subject: RE: Hemo sculpture website

Morena Nick

Thanks for that – we're hoping to meet this week at Kilwell.
Be great to have Stacy and Jacky come along if that was possible?
Currently looking at Thursday 1pm (tbc) – will get back to you soon.
Cheers
Marc

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

From: Nick Dallimore [mailto:nick@tepuia.com]
Sent: Monday, 30 September 2019 12:28 p.m.
To: Marc Spijkerbosch; 'Craig Wilson'
Subject: RE: Hemo sculpture website

Kia ora Marc,

Sorry for the delay.... I may not be around much over the next few weeks unfortunately.... so whilst I agree with the concept, that won't necessarily help with information gathering etc etc.

Stacy will be the main point of contact (along with Jacky – Shine PR) from our perspective regarding content – so it might be best to communicate directly with him.

I shall try and catch him today to discuss.

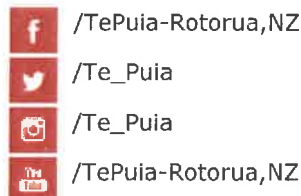
Nga mihi

Nick

Nick Dallimore

GM OPERATIONS & SITE DEVELOPMENT

D +64 7 343 1872
M +64 27 2011 536
E nick@tepuia.com
W www.tepuia.com



 HEMO ROAD, P.O. BOX 334, ROTORUA, 3040 NEW ZEALAND [ex}



From: Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>
Sent: Thursday, 26 September 2019 5:57 PM
To: 'Craig Wilson' <craigw@kilwell.co.nz>; Nick Dallimore <nick@tepuia.com>
Subject: RE: Hemo sculpture website

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Thanks Craig
I think I like the neutral aspect if these guys take it on. Not Council or enterprise.
Had a chat with Vicki today, and obviously things should stay under the radar at the moment
But it's truly a big conversation, and we should start it soon.
Have any time mid next week ? Your thoughts Nick?

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: Thursday, 26 September 2019 3:56 p.m.
To: Marc Spijkerbosch; Nick Dallimore (nick@tepuia.com)
Subject: RE: Hemo sculpture website

Hi Marc,

Yes, I am happy for this to go ahead. Have kind of wanted the RLC to provide something like this from the start. I thought Vicki was going to provide something like this starting with background story on why & when it started, then to competition and entries, then story and background behind Stacey's winning design and then to manufacture – or something along those lines.

Happy to provide photos of progress up to now and updates to circulate and pass on if OK.

Regards
Craig

From: Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>
Sent: Thursday, 26 September 2019 12:42 PM
To: Craig Wilson <craigw@kilwell.co.nz>; Nick Dallimore (nick@tepuia.com) <nick@tepuia.com>
Subject: Hemo sculpture website

Hi Craig, Nick

I was in a monthly meeting with the Rotorua Public Art Trust on Monday.

They're very keen to set up a stand-alone website for the sculpture detailing all the construction, imbedded video, that kind of thing.

Not sure what current thinking is around all this, but promised I'd touch base and explore the possibility.

No worries either way, but if need be I could set up a meeting and bring a couple trust members along.

Look forward your thoughts.

Cheers, 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: Stacy Gordine <stacy@nzmaci.com>
Sent: Tuesday, 1 October 2019 1:07 pm
To: Marc Spijkerbosch
Cc: Nick Dallimore; Craig Wilson;
Subject: Re: Hemo sculpture website/promo discussion
Attachments: image001.jpg; image002.png; image003.png; image004.png; image005.png; image006.png; image007.png; image008.png; image009.jpg; image010.jpg; image011.jpg; image012.jpg; image013.jpg; image014.jpg; image015.jpg; image016.jpg; image017.jpg; image018.jpg; image019.jpg; image020.jpg; image021.gif; image022.gif; image023.jpg

Ka pai thanks..

Sent from my iPhone

> On 1/10/2019, at 10:17 am, "Marc Spijkerbosch" <Marc.Spijkerbosch@rotorualc.nz> wrote:
>
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>
> Works for me too ... thanks
>
> Marc Spijkerbosch Community Arts Advisor
> P: 07 351 8154<tel:+6473518154> | E:
> marc.spijkerbosch@rotorualc.nz<mailto:marc.spijkerbosch@rotorualc.nz>
> | W:
> rotorualakescouncil.nz<http://rotorualakescouncil.nz/?utm_source=Stationery&utm_medium=Email&utm_content=Marc%2BSpijkerbosch&utm_campaign=Stationery>
>
> From:
> Sent: Tuesday, 1 October 2019 10:11 a.m.
> To: Nick Dallimore; Craig Wilson; Marc Spijkerbosch;
> Stacy Gordine;
> Subject: RE: Hemo sculpture website/promo discussion
>
> perfect for me.
>
> Kind regards
>
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> [cid:image001.jpg@01D071F8.44B7F900]
>

>
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>
> From: Nick Dallimore [mailto:nick@tepuia.com]
> Sent: Tuesday, 1 October 2019 10:09 a.m.
> To: Craig Wilson; Marc Spijkerbosch;
Stacy Gordine;
> Subject: RE: Hemo sculpture website/promo discussion
>
> Can we aim for Friday 11th – say 9:30am please?
>
>
> Nick Dallimore
> GM OPERATIONS & SITE DEVELOPMENT
> D
> +64 7 343 1872<tel:+64%207%20343%201872>
> M
> +64 27 2011 536<tel:+64%2027%202011%20536>
> E
> nick@tepuia.com<mailto:nick@tepuia.com>
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> /TePuia-Rotorua,NZ
> [map image]
> HEMO ROAD, P.O. BOX 334, ROTORUA, 3040 NEW ZEALAND
> [ex]<https://www.google.co.uk/maps/place/Te+Puia/@-38.163513,176.24834
> 03,17z/data=!3m1!4b1!4m2!3m1!1s0x6d6e9debd23c0e05:0x5057a1e6b872d49f>
> [Banner]<http://www.tepuia.com>
>
> From: Craig Wilson <craigw@kilwell.co.nz>
> Sent: Tuesday, 1 October 2019 10:04 AM
> To: Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>;

> Cc: Nick Dallimore <nick@tepuia.com>
> Subject: RE: Hemo sculpture website/promo discussion
>

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>
> Hi,
>
> I can do next week – just not Tues, Wed, Thurs or Friday arvo. Easier if I say when I am available – which is only Mon & Tues Arvo or Fri morning?
>
> Regards
> Craig
>
> From: Marc Spijkerbosch
> <Marc.Spijkerbosch@rotorualc.nz<mailto:Marc.Spijkerbosch@rotorualc.nz>
>>
> Sent: Tuesday, 1 October 2019 9:49 AM
> To:
>
>
> Cc: Nick Dallimore (nick@tepuia.com<mailto:nick@tepuia.com>)
> <nick@tepuia.com<mailto:nick@tepuia.com>>; Craig Wilson
> <craigw@kilwell.co.nz<mailto:craigw@kilwell.co.nz>>
> Subject: RE: Hemo sculpture website/promo discussion
>
> Hi all
> Might be difficult to get synergy with timings – I know Craig is away next week.
> Seems we might have to look at a date starting the week 14th Oct.
> Perhaps let us know a date/time that will suit you Craig ... then see if we can pull a majority?
> Many thanks
> Marc
>
> Marc Spijkerbosch Community Arts Advisor
> P: 07 351 8154<tel:+6473518154> | E:
> marc.spijkerbosch@rotorualc.nz<mailto:marc.spijkerbosch@rotorualc.nz>
> | W:
> rotorualakescouncil.nz<http://rotorualakescouncil.nz/?utm_source=Stationery&utm_medium=Email&utm_content=Marc%2BSpijkerbosch&utm_campaign=Stationery>
> ationery>
>
> From:
> Sent: Tuesday, 1 October 2019 9:45 a.m.
> To: 1 Marc Spijkerbosch
> Cc: Nick Dallimore (nick@tepuia.com<mailto:nick@tepuia.com>); Craig
> Wilson (craigw@kilwell.co.nz<mailto:craigw@kilwell.co.nz>)
> Subject: Re: Hemo sculpture website/promo discussion
>
> I am fine, except for Tuesday morning.
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>
> Cheers
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> [facebook]<<https://www.twitter.com/>>
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> From:

> Date: Tuesday, 1 October 2019 at 9:43 AM
> To:

Marc

> Spijkerbosch
> <Marc.Spijkerbosch@rotorualc.nz>
>>
> Cc: "Nick Dallimore (nick@tepuia.com<<mailto:nick@tepuia.com>>)"
> <nick@tepuia.com<<mailto:nick@tepuia.com>>>, "Craig Wilson
> (craigw@kilwell.co.nz<<mailto:craigw@kilwell.co.nz>>)"
> <craigw@kilwell.co.nz<<mailto:craigw@kilwell.co.nz>>>
> Subject: RE: Hemo sculpture website/promo discussion
>
> I am fine any day except Monday next week
>
>
> Kind regards

>

.nz>

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> [cid:image014.jpg@01D57840.D6EEEC40]
>
>
>
> From:
> Sent: Tuesday, 1 October 2019 9:34 a.m.
> To: Marc Spijkerbosch
> Cc: Nick Dallimore (nick@tepuia.com<mailto:nick@tepuia.com>); Craig
> Wilson (craigw@kilwell.co.nz<mailto:craigw@kilwell.co.nz>)
> Subject: Re: Hemo sculpture website/promo discussion
>
> Morena
>
> Sorry I will be on my way to Auckland. Can we push it out to the following week?

> Cheers

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> From:
>
> Date: Tuesday, 1 October 2019 at 9:19 AM
> To: Marc Spijkerbosch
> <Marc.Spijkerbosch@rotorualc.nz<mailto:Marc.Spijkerbosch@rotorualc.nz>
>>

:
:
> Dallimore (nick@tepuia.com<mailto:nick@tepuia.com>)"
> <nick@tepuia.com<mailto:nick@tepuia.com>>, "Craig Wilson
> (craigw@kilwell.co.nz<mailto:craigw@kilwell.co.nz>)"
> <craigw@kilwell.co.nz<mailto:craigw@kilwell.co.nz>>
> Subject: RE: Hemo sculpture website/promo discussion

>
> Hi all
>
> 1pm on Thursday is good for me :)
>
> Kind regards

:
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>
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> [cid:image020.jpg@01D57840.D6EEEC40]

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>
> From: Marc Spijkerbosch [mailto:Marc.Spijkerbosch@rotorualc.nz]
> Sent: Tuesday, 1 October 2019 8:50 a.m.
> To: Craig Wilson (craigw@kilwell.co.nz<mailto:craigw@kilwell.co.nz>)
> Cc:
> Nick

> Dallimore (nick@tepuia.com<mailto:nick@tepuia.com>)
> Subject: Hemo sculpture website/promo discussion
>
> Morning Craig
> Be great if we could catch up and look through some potentials here.
> As mentioned, the Rotorua Public Arts Trust could be keen to look at hosting a website around this.
> I've cc'd trust members - I wonder if it might suit for us all to meet at Kilwell this week?
> Suggesting 1pm Thursday, let me know if this works for everyone ok.

> Cheers
> Marc
>
>
> Marc Spijkerbosch Community Arts Advisor
> P: 07 351 8154<tel:+6473518154>
> E:
> marc.spijkerbosch@rotorualc.nz<mailto:marc.spijkerbosch@rotorualc.nz>

From: Craig Wilson <craigw@kilwell.co.nz>
Sent: Monday, 7 October 2019 12:43 pm
To: Stewart Brown
Cc: Marc Spijkerbosch; Laszlo Kotan
Subject: RE: Hemo Update

Hi Stewart,

We are having an internal progress meeting tomorrow morning, so I will update you tomorrow afternoon if that's ok?

Regards
Craig

From: Stewart Brown <Stewart.Brown@rotorualc.nz>
Sent: Monday, 7 October 2019 8:49 AM
To: Craig Wilson <craigw@kilwell.co.nz>
Subject: Hemo Update

Hi Craig, just checking in on progress, how are things coming along?

Cheers

Stewart

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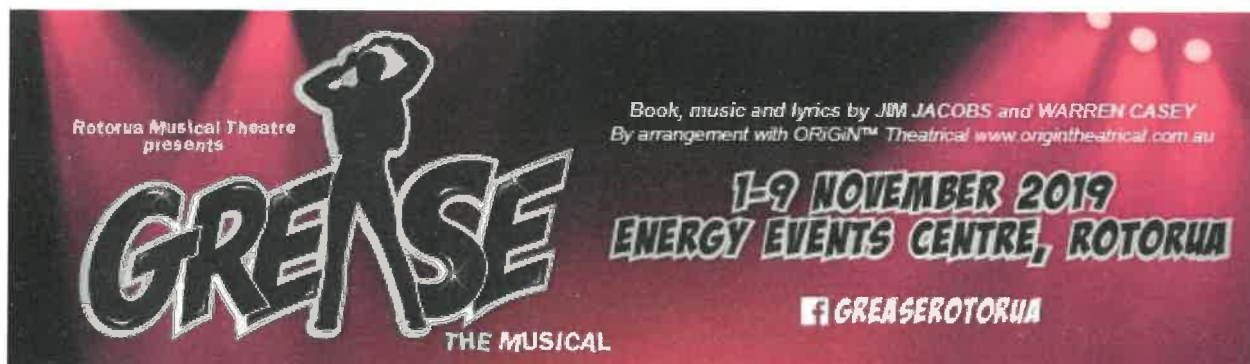
Stewart Brown - Kaihautū Mahi Toi - Manager Arts & Culture |

Ohu Mahi Toi - Arts & Culture

Waea: [07 3517828](tel:073517828) | Waea Pūkoro: [021588080](tel:021588080)

Īmera: stewart.brown@rotorualc.nz | Ipurangi: rotorualakescouncil.nz

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





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From: Stacy Gordine <stacy@nzmaci.com>
Sent: Monday, 7 October 2019 3:15 pm
To: Craig Wilson
Cc: Nick Dallimore; Marc Spijkerbosch; Rebecca Malcolm; Vicki Cawte;
Subject: Re: Catch up re: Hemo Sculpture website/promo discussion

Ka pai koutou ma..

Sent from my iPhone

Stacy Gordine

D +64 7 348 9047
M +64 21 350 881
E stacy@nzmaci.com
W www.nzmaci.com



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HEMO ROAD, P.O. BOX 334, ROTORUA, 3040 NEW ZEALAND [ex] P +64 7 348 9047 F +64 7 348 9045



On 7/10/2019, at 1:15 pm, "Craig Wilson" <craigw@kilwell.co.nz> wrote:

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Hi All,

Happy to have it out here so everyone can eyeball what we have up so far?

Regards
Craig

From: /

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 <rebecca@shinecollective.co.nz>; Vicki.cawte@rotorualc.nz; stacy@nzmaci.com;

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:

Let me know if anyone else has another suggestion.

Na,

From: --

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

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From: Marc Spijkerbosch
Sent: Tuesday, 15 October 2019 8:20 am
To: 'Chris Farnsworth'; Craig Wilson
Cc: Laszlo Kotan
Subject: RE: Hemo Sculpture update meeting

Morning all

Have a first meeting with in-house event organisers tomorrow morning.

Will keep you posted on outcomes, and certainly loop in Te Puia.

Cheers

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

From: Chris Farnsworth [mailto:Chris.Farnsworth@nzta.govt.nz]
Sent: Monday, 14 October 2019 7:24 p.m.
To: Craig Wilson
Cc: Laszlo Kotan; Marc Spijkerbosch
Subject: Re: Hemo Sculpture update meeting

Ok, that was my recollection but am hearing murmurs.

Would send the blessing query to Council/Te Puia, but I would think highly likely.

Chris

Get [Outlook for Android](#)

From: Craig Wilson <craigw@kilwell.co.nz>
Sent: Monday, October 14, 2019 4:53:20 PM
To: Chris Farnsworth <Chris.Farnsworth@nzta.govt.nz>
Cc: Laszlo Kotan <Laszlok@fibretube.co.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>
Subject: RE: Hemo Sculpture update meeting

Hi Chris,

Sounds good – more than willing to show I think we all agreed that the opening ceremony would be another time as it still needs additional work completed on it once put in place.

Not sure if there would be a blessing or some other ceremony?

Regards
Craig

From: Chris Farnsworth <Chris.Farnsworth@nzta.govt.nz>
Sent: Monday, 14 October 2019 1:12 PM
To: Craig Wilson <craigw@kilwell.co.nz>

Cc: Laszlo Kotan <Laszlok@fibretube.co.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>
Subject: Re: Hemo Sculpture update meeting

Thanks Craig

I had a chat with Lillian Tulloch (TMC) as well this morn, will send through her details. She works with Simon.

I think getting them along the road to at least see the sculpture would be quite useful, to get a handle on scale and point out the how. They will be able to guide a TMP process for the install, as well as control of obverservers.

Is the Council plan to have an event the same afternoon, or a separate day? Would be another 'event' TMP regardless.

Chris

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From: Craig Wilson <craigw@kilwell.co.nz>
Sent: Monday, October 14, 2019 12:35:26 PM
To: Chris Farnsworth <Chris.Farnsworth@nzta.govt.nz>
Cc: Laszlo Kotan <Laszlok@fibretube.co.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>
Subject: RE: Hemo Sculpture update meeting

Hi Chris,

Have rung and left a message with Simon Kerner? who is there Traffic Management Supervisor. He is due to ring me back later today.

At this stage we are looking around mid-Dec but still depends on weather and helicopter availability – as it will be matter of getting many ducks in a row to get this in place.

Marc mentioned getting him up here and show him what it is we are planning to do (do you also wish to attend?) and then we will need to meet up at some stage to discuss the plan to confirm timings and availability of everyone.

Regards
Craig

From: Chris Farnsworth <Chris.Farnsworth@nzta.govt.nz>
Sent: Friday, 9 August 2019 4:13 PM
To: Craig Wilson <craigw@kilwell.co.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>
Cc: Laszlo Kotan <Laszlok@fibretube.co.nz>
Subject: RE: Hemo Sculpture update meeting

Thanks Craig

Nov should be fine, was getting a bit concerned when I heard Sept, but a decent amount of time. Im not that worried about the date, just the people/process to work through in accessing and installing on the highway.

Cheers,

Chris Farnsworth / Senior Project Manager
System Design and Delivery - Bay of Plenty

DDI 64 7 927 6017 / M 64 21 612 136

E chris.farnsworth@nzta.govt.nz / W nzta.govt.nz

From: Craig Wilson <craigw@kilwell.co.nz>

Sent: Friday, 9 August 2019 2:36 PM

To: Chris Farnsworth <Chris.Farnsworth@nzta.govt.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>

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

Subject: RE: Hemo Sculpture update meeting

Hi Chris,

Yes we are still looking good for this period – although towards the end (Nov).

We have a full team update in a couple of weeks time (Aug 19-23) – is it ok to confirm a date after that?

Regards

Craig

From: Chris Farnsworth <Chris.Farnsworth@nzta.govt.nz>

Sent: Friday, 9 August 2019 1:53 PM

To: Craig Wilson <craigw@kilwell.co.nz>; Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>

Subject: RE: Hemo Sculpture update meeting

Hi Craig/Marc,

I see the latest media is saying install for Spring (Sept-Nov).

If so how are the team getting on with the TMP process of the install, especially if this is for Sept ?

Thanks,

Chris Farnsworth / Senior Project Manager

System Design and Delivery - Bay of Plenty

DDI 64 7 927 6017 / M 64 21 612 136

E chris.farnsworth@nzta.govt.nz / W nzta.govt.nz

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

Sent: Wednesday, 16 January 2019 9:18 AM

To: Chris Farnsworth <Chris.Farnsworth@nzta.govt.nz>

Subject: RE: Hemo Sculpture update meeting

Hi Chris

Hope you had a good break!

Just had a chat with Craig at Kilwell to get a sense of timings.

Currently on track for an April install.

Printing almost complete, assembly to start next week on the first helix. Both helix's should be completed end of March.

Helicopter install scenario – confirming this week.

Hope this all sounds ok. Will be great to see this thing finally pointing to the heavens.

Cheers

Marc

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

From: Chris Farnsworth [<mailto:Chris.Farnsworth@nzta.govt.nz>]
Sent: Tuesday, 15 January 2019 10:47 a.m.
To: Marc Spijkerbosch
Subject: RE: Hemo Sculpture update meeting

Hi Marc
Happy NYs to you.
What's the latest on the sculpture plans – is it mostly built and do we have an install month yet?
Cheers,

Chris Farnsworth / Senior Project Manager
System Design and Delivery - Bay of Plenty
DDI 64 7 927 6017 / M 64 21 612 136
E chris.farnsworth@nzta.govt.nz / W nzta.govt.nz

From: Marc Spijkerbosch <Marc.Spijkerbosch@rotorualc.nz>
Sent: Monday, 27 August 2018 9:25 AM
To: Chris Farnsworth <Chris.Farnsworth@nzta.govt.nz>
Subject: Hemo Sculpture update meeting

Morning Chris
Not sure if you are over these ways on Friday, but we're having a monthly catch up at Kilwell 10.30am.
You would be most welcomed to come along and share anything from NZTA's perspective.
Fabricators, engineers, Opus etc planning to be around the table.

Hope that works – let me know
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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www.nzta.govt.nz

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From: Darryl Robson
Sent: Tuesday, 15 October 2019 5:26 pm
To: 'Craig Wilson'; Marc Spijkerbosch; nick@tepuia.com; Chris Farnsworth
Cc: Laszlo Kotan
Subject: RE: Traffic management plan for sculpture move

Hi
Thursday after lunch works best for me, otherwise 1-2pm Wed is ok at this stage.
Regards

Darryl Robson *Kaihautū Waka | Transport Services Manager, Infrastructure Group*
P: 07 351 8039 | E: darryl.robson@rotorualc.nz | W: rotorualakescouncil.nz

From: Craig Wilson [mailto:craigw@kilwell.co.nz]
Sent: Tuesday, 15 October 2019 5:03 p.m.
To: Darryl Robson; Marc Spijkerbosch; nick@tepuia.com; Chris Farnsworth
Cc: Laszlo Kotan
Subject: RE: Traffic management plan for sculpture move

Hi All,

Have been in touch with Simon from Higgins, he is checking his availability for Wed/Thur after lunch next week for a catchup and discussion on the Hemo installation – just checking availability or preferences for next week?

Regards
Craig

From: Vicki Cawte <Vicki.Cawte@rotorualc.nz>
Sent: Tuesday, 15 October 2019 10:08 AM
To: Craig Wilson <craigw@kilwell.co.nz>
Cc: Darryl Robson <Darryl.Robson@rotorualc.nz>
Subject: Traffic management plan for sculpture move

Kia ora Craig

Just following on from our meeting last week I have been in touch with our roading team and Darryl Robson will be the RLC contact to be around the table for the Traffic Management Plan work.

I've CCd Darryl in on this email so once you are ready to start putting the TMP together can you keep him in the loop?

Thanks

Ngā mihi

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

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From: Marc Spijkerbosch
Sent: Friday, 1 November 2019 9:28 am
To: 'Craig Wilson'
Subject: RE: Hemo Installation Traffic Management Plan Meeting

Morning Craig
Just touching base see how the TMP (and sculpture) are progressing.
Are we still on track for early December?
Cheers

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

From: Craig Wilson <craigw@kilwell.co.nz>
Sent: Tuesday, 15 October 2019 5:47 PM
To: Laszlo Kotan; nick@tepuia.com; Marc Spijkerbosch; Darryl Robson
Subject: Hemo Installation Traffic Management Plan Meeting
When: Thursday, 24 October 2019 2:30 PM-3:30 PM (UTC+12:00) Auckland, Wellington.
Where: Kilwell

Hi All,

Tentatively booking this in – still awaiting Simon (from Higgins) email and preferred time.

Regards
Craig

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From: Craig Wilson <craigw@kilwell.co.nz>
Sent: Tuesday, 5 November 2019 11:02 am
To: Vicki Cawte; Stewart Brown
Subject: RE: Photos for Daily Post

Would be ok, but today they have it all tented up to do a post cure so not much to look at or photo

From: Vicki Cawte <Vicki.Cawte@rotorualc.nz>
Sent: Tuesday, 5 November 2019 10:48 AM
To: Craig Wilson <craigw@kilwell.co.nz>; Stewart Brown <Stewart.Brown@rotorualc.nz>
Subject: RE: Photos for Daily Post

Okay thanks Craig – so I can say they can take one of the inner in the drive way but they can't have access to the workshop 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

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From: Craig Wilson <craigw@kilwell.co.nz>
Sent: Tuesday, 5 November 2019 10:40 am
To: Vicki Cawte <Vicki.Cawte@rotorualc.nz>; Stewart Brown <Stewart.Brown@rotorualc.nz>
Subject: RE: Photos for Daily Post

Yep I am good with them. They can probably get a better one today if they need of the inner all in.

From: Vicki Cawte <Vicki.Cawte@rotorualc.nz>
Sent: Tuesday, 5 November 2019 9:23 AM
To: Craig Wilson <craigw@kilwell.co.nz>; Stewart Brown <Stewart.Brown@rotorualc.nz>
Subject: Photos for Daily Post

Kia ora

Zizi has asked if they can take a photo of the sculpture – I've got some recent ones I can send from when the last piece of the inner helix was lifted in. I've attached them. Are you okay with me supplying these to Zizi?

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, 5 November 2019 12:23 pm
To: Vicki Cawte; Stewart Brown
Subject: RE: Media response to check
Attachments: Draft Hemo response 5-Nov-11 V2.docx

Just a couple of minor changes as per attached

From: Vicki Cawte <Vicki.Cawte@rotorualc.nz>
Sent: Tuesday, 5 November 2019 12:15 PM
To: Stewart Brown <Stewart.Brown@rotorualc.nz>; Craig Wilson <craigw@kilwell.co.nz>
Subject: Media response to check
Importance: High

Kia ora koutou

Can you please have a quick look and see if you're happy with the response attached. Henry has checked and is happy.

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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Questions:

So questions as follows:

- When will the sculpture be installed?
- Has construction of the sculpture been finished?
- What needs to happen in order for the installation to occur? eg traffic, weather etc.
- Is the cost of the making and installing the sculpture still \$743,029? As reported in March?

Response

Here is the update re Hemo sculpture for your information and not for publication

As advised in October the inner helix, which you can see from the road in Kilwell's parking area, is [nearly](#) complete. Construction of the outer helix is progressing, the team at Kilwell are working through an issue with the alignment of a section of the outer helix but are [working](#) to complete as close to the end of spring as they can.

Moving the sculpture to Hemo roundabout requires aligning the timing for road closure, calm weather and the availability of the transport helicopter. Pinpointing a date for installation will depend on those three factors coming together. Just to reiterate that these aspects are out of Council's control. The traffic management aspect is managed by NZTA as owner of the State Highway. They will determine the safest, least disruptive date for the installation of the sculpture. The private transport helicopter also needs to be available and obviously, the weather is up to Mother Nature.

There will be no change to Council's contribution towards the sculpture from the amount reported back in March of \$388,000.

Previous responses

11 October

As requested here is an update re Hemo sculpture for your information and not for publication.

The inner helix, which you can see from the road in Kilwell's parking area, is now complete. Construction of the outer helix is progressing and the timeframe for completion of the sculpture is still late spring.

Moving the sculpture to Hemo roundabout requires aligning the timing for road closure, calm weather and the availability of the transport helicopter. Pinpointing a date for installation will depend on those three factors coming together.

There will be no change to Council's contribution towards the sculpture from what is included in that update.

30 August

As indicated last week, the latest regarding the Hemo sculpture can be found [HERE](#) on Council's website.

Field Code

Re your questions about Council's financial contribution and date for installation, see below (bullet points) information provided by Operations Group Manager Henry Weston:

- There will be no change to Council's contribution towards the sculpture from what is included in that update.
- No firm date for installation has been confirmed.

Regarding what decision may have been made had Kilwell not approached Council – as the situation didn't occur, it's not possible to answer that question. If you want elected members' opinions about that you will need to contact them directly.

We're not able to assist with your last question as it doesn't relate to council business. You will need to contact the Mayor directly yourself.

From: Craig Wilson <craigw@kilwell.co.nz>
Sent: Tuesday, 5 November 2019 1:23 pm
To: Vicki Cawte; Stewart Brown
Subject: RE: Media response to check

I would prefer to get the status correct – there is still a few weeks work (given good weather) that needs to be completed on the inner helix

From: Vicki Cawte <Vicki.Cawte@rotorualc.nz>
Sent: Tuesday, 5 November 2019 12:29 PM
To: Craig Wilson <craigw@kilwell.co.nz>; Stewart Brown <Stewart.Brown@rotorualc.nz>
Subject: RE: Media response to check

Thank Craig

Just conscious that our previous response said the inner helix was complete so maybe I remove reference to its status all together and just say it's in the driveway.

What do you think?

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, 5 November 2019 12:23 pm
To: Vicki Cawte <Vicki.Cawte@rotorualc.nz>; Stewart Brown <Stewart.Brown@rotorualc.nz>
Subject: RE: Media response to check

Just a couple of minor changes as per attached

From: Vicki Cawte <Vicki.Cawte@rotorualc.nz>
Sent: Tuesday, 5 November 2019 12:15 PM
To: Stewart Brown <Stewart.Brown@rotorualc.nz>; Craig Wilson <craigw@kilwell.co.nz>
Subject: Media response to check
Importance: High

Kia ora koutou

Can you please have a quick look and see if you're happy with the response attached. Henry has checked and is happy.

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, 12 November 2019 2:56 pm
To: Craig Tiriana; Henry Weston
Subject: RE: Catch-up

Hi Craig,

Yep perfect – see you then.

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
w: www.kilwell.co.nz | f: facebook.com/KilwellSports | i: instagram/kilwellsports
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From: Craig Tiriana <Craig.Tiriana@rotorualc.nz>
Sent: Tuesday, 12 November 2019 2:31 PM
To: Craig Wilson <craigw@kilwell.co.nz>; Henry Weston <Henry.Weston@rotorualc.nz>
Subject: Catch-up

How does 2.30pm tomorrow sound? We'll come your way.

Craig

Craig Tiriana *Kaihautū – Ohu Toihautū* | Manager, Chief Executive's Office
Waea: 07 348 4199 | Waea pūkoro: 027 838 9961
Īmera: craig.tiriana@rotorualc.nz | Ipurangi: rotorualakescouncil.nz
Taunga: 1061 Haupapa St, Private Bag 3029, Rotorua Mail Centre, Rotorua 3046, New Zealand

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