



Note that minutes are paraphrased to an extent and may not exactly match actual statements.

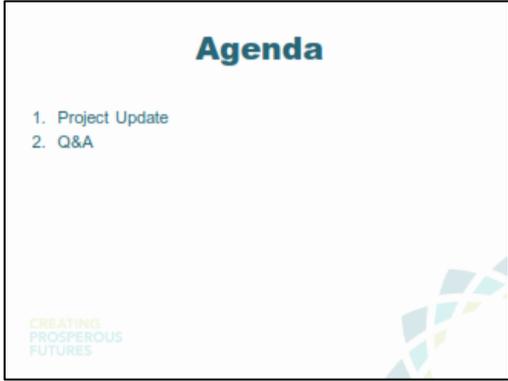
Project	Hydro Kurri Kurri site redevelopment project	From	Alexandra Parker
Subject	Community Reference Group	Tel	1800 066 243
Venue/Date/Time	Thursday 08 December 2016 Hydro offices, Kurri Kurri 6.00pm – 7:00pm	Job No	21/23175
Copies to	All committee members		
Attendees	Mr Toby Thomas – Community representative Mr Andrew Walker – Project Manager, Hydro Kurri Kurri Mr Richard Brown – Managing Director, Hydro Kurri Kurri Mr Ian Turnbull – Manager Natural Environment Planning, Cessnock City Council Mr Ian Shillington – Manager Urban Growth, Maitland City Council Mr Kerry McNaughton – Environmental Officer, Hydro Kurri Kurri Clr Darrin Gray – Cessnock City Council Mrs Kerry Hallett – Hunter BEC Mr Alan Gray – Community representative Clr Arch Humphery – Maitland City Council Mr Brad Wood – Community representative Mr Michael Ulph – CRG Chair, GHD Ms Alexandra Parker – CRG minutes, GHD		
Guests/observers			
Apologies	Mr Rod Doherty – Kurri Kurri Business Chamber		
Not present	Mr Bill Metcalfe – Community representative Ms Debra Ford - Community representative		



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Notes	Action
<p>1 Welcome and Acknowledgement of Country</p> <p>Meeting commenced at 6:01 pm</p> <p>Michael Ulph (Chair)</p> <p>Acknowledgement of country.</p>	 <p>The slide features a teal header with the text: "Hydro Aluminium Kurri Kurri – ReGrowth Kurri Kurri Project" and "Community Reference Group Meeting #18 December 2016". Below the header is a photograph of a small green seedling growing from dark soil. The text "CREATING PROSPEROUS FUTURES" is overlaid on the bottom left of the image.</p>

Notes	Action
<p>2 Meeting agenda</p> <ul style="list-style-type: none">• Welcome and meeting opening• Apologies• Acceptance of minutes from the last meeting• Project update• CRG questions and answers• All other business• Next meeting / Meeting close	 <p>The image shows a slide titled "Agenda" with a list of two items: "1. Project Update" and "2. Q&A". In the bottom left corner, there is a logo that says "CREATING PROSPEROUS FUTURES". The slide has a light blue and green geometric pattern in the bottom right corner.</p>
<p>3 Welcome and meeting opening</p> <p>Michael Ulph welcomes the committee and notes apologies.</p> <p><i>Darren Gray attended representing Cessnock City Council on behalf of the Mayor as temporary replacement for Morgan Campbell.</i></p>	
<p>4 Last meeting minutes</p> <p>Moved: Kerry McNaughton Seconded: Toby Thomas</p>	

5 Project update

Andrew Walker: We have continued with our early works, and we've actually finished loading busbar now from the super structure removal project.

We've finished all the pot de-lining, but we've still got a bit more pulverising to do in the bake furnace area.

We are towards the end of the asbestos removal. There is only a few areas on site left.

That's everything else - bulk oil product removal, power supply.

Busbar removal is now finished; you will notice the pad is clear now. Pot de-lining was completed on 25th November. We had our occupational hygienist come through and inspect the shells. Just some minor spot cleaning is required. It's mainly a few bits of brick residue.

Once we have done that he will sign off and we will send that through to council, which is one of their conditions of consent prior to demolition.

Pot Delining - COMPLETE

- All works completed and practical completion achieved on 25/11/16.
- Independent occupational hygienist has inspected the pot shells, some minor spot cleaning required.
- Once completed will have sign off that the Potroom buildings are clear of SPL and ready for demolition.



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This is a photo showing some guys cleaning some of the white residue, the sodium salt in the pot shells. That's the bake furnace area, we are just doing some pulverising of first cut, down to minus 50 mm. Some of the material we are storing in shed 3, which is the area where Regain use to be, progressively moving it back to the bake furnace and pulverising.

Regarding the metal pads, we have recycled 500 tonnes that went to Weston Aluminium, got some thicker metal pads, mainly out of line 1. Some problems, Weston weren't able to process those, they're too thick, so we are just looking at options, how to cut it, with shears or a saw to make it a bit easier to recycle.

Activity Update

- Early works progress
 - Loading out busbar from superstructures
 - Pot delining / ABF2 SPL storage
 - Asbestos removal – phase 2
 - Demolition of buffer zone houses
 - Bulk oil removal
 - Product removal
 - Alternative 11kV power supply
 - Containment cell detailed design
 - Asset sales – CCF, PFA caster & Hertwich saw
- Preparation for stage 1 demolition

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Loading Out of Aluminium Busbar - COMPLETE



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Minor Detailing in L3 - In Progress



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Pot Delining – SPL Storage Areas



2nd cut in ABF2 South

Pulverising 1st cut in ABF2 North

1st cut in SPL Shed 3

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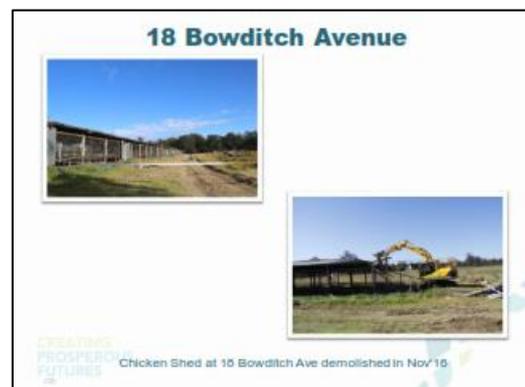


Toby Thomas: Are you tolling those pads or selling them?

Andrew Walker: We are tolling through Weston Aluminium. Leanne is looking at how that went commercially then we will make a decision on the rest. We finished recycling all the collector bars from the pot de-lining, 5200 tonnes of steel recycled.

Brad Wood: What happens to the pots?

Andrew Walker: The pots will be part of the demolition contract, they will get lanced or sheared into smaller pieces and sent off site with all the scrap for recycling.



We have got a few areas left on site for the asbestos removal.

In the buffer zone, we have been removing asbestos and demolishing some of the buildings. 18 Bowditch Ave and Wangara. In the chicken shed at 18 Bowditch we had to remove a lot of asbestos. There is a lot of asbestos buried in the ground, and mixed with concrete. Concrete footings had to be removed

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and we had to get clearance on that from our hygienist before we could start demolition.

That was finished a few weeks ago.

At Wangara, again, we have a lot of asbestos to remove from the sheds first. Last week and this week we have been demolishing.

Oil recycling has been continuing. We are not doing any more hydraulic oil at this stage, we've finished all of that. We are focusing now on all our gearboxes on bucket elevators and things.

The transformer oil in the switchyard is still on hold until we know what the future of the switchyard is. We're still going through that process.

We continued with removing product around the site. In the carbon plant since the last meeting we had some dust collectors in the green-mix plant, and some alumina in the bake furnace Fume Treatment Centre (FTC) and the silos that needed to be emptied to collect all that product in preparation for demolition.

Michael Ulph: What is the FTC?

Andrew Walker: Fume Treatment Centre, it's on the bake furnace. In the pot rooms we have been cutting access holes in the duct work so we can inspect how much alumina is in the duct work, ready for demolition.

Our new power supply for these three buildings, for the owner's team, work has been continuing on that. Last meeting, we'd just put the poles up on Dickson Road, we have now run all the cable, we just haven't energized it yet. We had Ausgrid here this week and they've done an inspection on the new installation and where we are connecting it to in the existing substation. Everything looks ok, we still have a little bit of work to do on the earthing side of things but we are ready to energise in mid-February. We need a diesel generator for a couple of days while we are doing that.

We are also working on isolating all the 11KV coming out of the switchyard at the back of the site. There are 23 cables we've got to isolate as well as the 415 and 240 volt supplies. We want to make sure everything is "dead" before we start demolition, for safety reasons.

We have continued working with our engineering service provider on the containment cell detailed design. Preliminary design is now complete, we are reviewing the drawings. We are working on the constructability, and we have another workshop tomorrow. Then we will go into detailed design. The liner testing is now at 6 months, and we've just got the latest set of results

Wangara Chicken Sheds



Chicken sheds at Wangara – ACM removed. Demolition in progress.

Bulk Oil Removal for Recycling



- 11,300 litres of heat transfer medium (HTM) recycled
- 23,604 litres of hydraulic oil recycled
- Also 10,044 litres of synthetic oil from pot jacks and gearboxes removed
- Continuing to remove oil from gearboxes across site
- Transformer oil – over 700,000 litres still to be removed in the Switchyard

Product Removal



- Reviewing options for recycling baked anodes and butts.
- Removed product from dust collectors in Greenmix and alumina silo on bake furnace FTC. Cutting access holes for inspection of Potroom scrubber ductwork.

Power Supply



New 11KV switchboard

- Ausgrid inspection on Mon 5/12/16
- New system should be ready for energisation in mid-Feb'17
- Will run on a diesel generator for 2-3 days during commissioning and changeover to new supply
- Working on isolation plans and switching procedures to isolate all twenty three 11kV cables from the 1A Switchyard
- Need to ensure all power emanating from the Switchyard is isolated prior to start of demolition

Notes

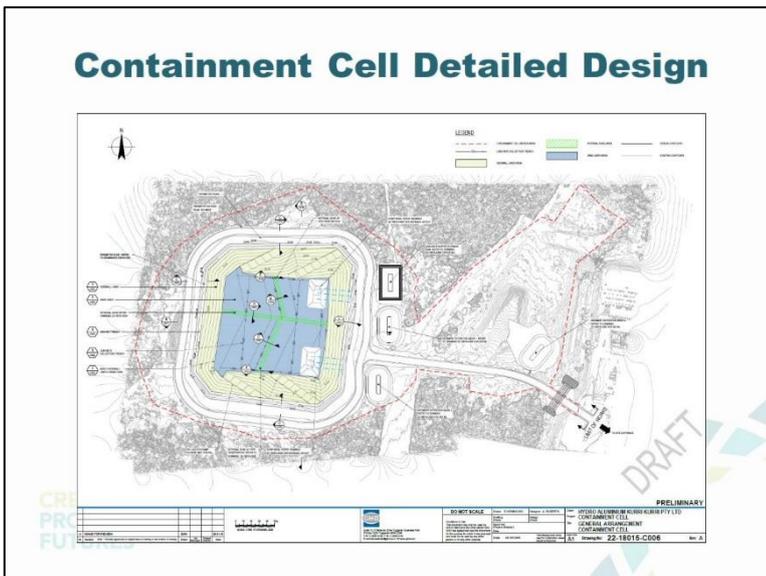
but we haven't had the chance to go through them yet, with the people doing the testing we will look at that during our workshop tomorrow. All that work should be finished by March next year.

This is an example of what the cell will look like. You will notice these green lines are actually internal bunds and there's two sumps here, within each of these four compartments there is a leachate collection system that drains into these two sumps.

Action

Containment Cell Detailed Design

- Preliminary design completed and currently being reviewed
- Constructability review is progressing
- Detailed design commencing next
- Liner testing program has continued (now at 6 months)
- Detailed design and constructability assessment will be complete by Mar-17.



The idea of that is as we start to fill the cell with waste, we can fill one compartment. We can then cover it with a temporary cover to minimise leachate generation, and any compartments that are empty, if we have a rain event, that will just be stormwater because it's all separated into bunds and that can go into our site stormwater system, where the leachate will be transferred from the sumps into the leachate collection point here. Then that will be transferred to the treatment plant, where we have to reduce the fluoride levels down to the acceptable limits.

These other three ponds were for stormwater collection.

Michael Ulph: Is that because you take a little while to place material in one quarter of that area?

Andrew Walker: Yes. To fill the whole cell, it's looking like it will take about six months. Most, 80% of this is the capped waste stockpile material, and we are going to get rain events during that six-month period so we need to plan for that.

We are still evaluating whether we do the [leachate] treatment on site or use an offsite contractor. A water treatment contractor. If we do it on-site we're considering having the treatment plant in a central location. Probably behind this building here which will be half-way between the capped waste stockpile and the cell,

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you can transport, pump leachate to a central location, where you have power.

Richard Brown: It is probably fair to say that one of the key features of the constructability of this process is how to minimise the risks of leachate generation at both the capped waste stockpile and then at the containment cell. It's about managing cover. Pulling back the cover from the capped waste stockpile and dispose the waste in one go. It's done progressively and waste is transferred in a way that minimises the opportunity for any leachate to be generated.

Darrin Gray: Starting on the downhill side?

Richard Brown: No it starts on the uphill side because you use gravity. There are four compartments and you can kind of see the features on the map are access ramps into the cell.

Michael Ulph: Is the pale green area to contain anything?

Andrew Walker: It's batter, like a bund.

Michael Ulph: If you are looking down, the square area would be the actual area with the contained materials?

Richard Brown: That's the base.

Michael Ulph: So is the batter around that VENM?

Richard Brown: It would be lined the same way.

Andrew Walker: It is the sloping sides.

Brad Wood: How do you load the material without damaging the lining?

Andrew Walker: Normally on the liner they put down smooth stone, sometimes they use river gravel or it could be concrete that has been processed so that it's not too jagged. Then you push that out with the machine before you drive on it.

Richard Brown: They test it. It was one of the things that we looked at when we went down to the lab in Melbourne. They test the fabric. They take whatever material you are going to place as that first layer and they do a test where they put that material on the liner and compress against it and they look at the deformation in the liner to see if there is any penetration in the liner and from that they can design the specification for that material to be placed on there. The other thing we are considering is we've got other material that will be placed in the cells that is not full of large jagged pieces. It can be soils for example, they are obviously softer and can be rolled out and you are creating a buffer layer in between the actual liner material and whatever rough, jagged pieces would then go on.



Notes

Darrin Gray: So a truck will drive in and back up?

Richard Brown: It's probably dumped like a tip face, so trucks don't drive on the liner itself.

Andrew Walker: We have been removing assets as well so we were able to sell this building here, the crucible cleaning facility. The photo shows the crane being removed, we used a local contractor from Newcastle, to help us with dismantling the building.

We also were able to sell two of the assets out of the cast house that were installed in 2005/2006. Hydro invested quite a bit of money in the cast house in that period. These were the PFA Caster and the Hertwich Saw.

We used a specialist asset relocation company from the UK. Everything had to be matched marked and labelled, like every hydraulic pipe, wire, nuts and bolts, every connection had to be marked AA, or BB or whatever. That company helped us with that, a Kurri firm did the actual work under their direction.

Michael Ulph: What does PFA stand for?

Andrew Walker: Primary Foundry Alloy.

Toby Thomas: Where do they go to?

Andrew Walker: To plants in Norway, Hydro plants.

Michael Ulph: ODT?

Andrew Walker: That is a company name, they are the manufacturer of that caster machine, they are based in Melbourne. The difficult part was that everything on this machine was in 6 metre lengths, as it was trucked up from Melbourne, the standard twenty-foot shipping container only takes 5.7m. We had to go the next size up the 40 footer. Tried to fill up the rest of the space with smaller pieces. Where this machine **Andrew points to the Hertwich saw photo**, everything was in 5.7m lengths. It will all fit nicely, either 5.7 or 11.4m. They finished a week early, finished, packed up and cleaned up by tomorrow. It's good that we can sell those assets and not scrap them.

Stage 1 demolition, we are very close to awarding the contract. We are still negotiation commercially with tenderers and we are hoping by the next meeting to let you know who has been successful with the contract. We are hoping that work can start late February after we have done the isolations in the switch yard to isolate the power.

Action

Casthouse Asset Removal




- Specialist asset relocation company from the UK supervising
- Local mechanical contractor providing labour & craneage
- Work commenced 1/11/16
- All major lifts and packing completed by 6/12/16
- Final clean up and demobilisation 9/12/16 (1 week early)
- ODT caster – 9 containers and 1 flat rack
- Hertwich saw – 10 containers and 1 flat rack



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Stage 1 Demolition

- A Development Application and Statement of Environmental Effects (SEE) were submitted to Cessnock City Council (Council) on 21 August 2015.
- The SEE described the methodology (including environmental management) to be implemented during demolition and assessed the potential for environmental, social and cultural impacts.
- SEE included specialist investigations:
 - Noise and Vibration Impact Assessment
 - Air Quality Impact Assessment
 - Traffic Impact Assessment
- The SEE concluded that the potential environmental impacts of demolition could be mitigated to minimise impacts on the community and the environment.
- Following Council review of the SEE and discussions between Council and Hydro, Council granted development consent on 15 March 2016
- **Currently working through the tendering process with a view to awarding a demolition contract in Jan'17.**

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Environmental Impact Assessment for Stage 2 Demolition / Remediation DA (SSD6666)

- Finalised all EIS sub-reports including an EPA Auditor review
- Submitted to DoPE for adequacy assessment
- Exhibition of EIS is between 11/8/16 and 12/9/16
 - Drop-in session Tuesday 30th Aug at Kurri Kurri BEC.
- **Currently reviewing submissions and starting to preparing a report in response to those submissions.**

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http://majorprojects.planning.nsw.gov.au/index.pl?action=view_job&job_id=6666

Spent Pot Lining Recycling

- Phase 2 investigations are ongoing. This includes:
 - Site visits for the purpose for HSE / CSR audits
 - Intermediate and final product testing (to validate claims of non-hazardous material, or otherwise)
 - Validation of capacity claims
 - Commercial negotiations
- Options being considered are still a mix of domestic and international options, therefore consultation with Commonwealth Dept. of Environment will be undertaken regarding the requirements for exporting of spent pot lining for recycling abroad.

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Richard Brown: The approvals for the remediation, demolition, I don't think those words have actually changed from last month.

We are still waiting for the Department of Planning to finalise their submission to us which we can respond to. We are having some ongoing discussions with the EPA. They've given us a draft of their submission and we are having discussions around several issues within that. We'll continue to have those discussions and when the Department of Planning issues its submission we'll respond to that.

The spent pot lining recycling, we are continuing to move down a number of different options. We are getting very close to starting a trial with one option. Working through contractual terms at the moment. We hope to have something early in New Year with trial for treatment for that option. We are also looking at a number of other options where we are going to be doing some additional material testing and quick performance work on those options.

On the rezoning, I had a quick chat to Shannon before the meeting and asked what the big issues were with regards to rezoning. He said the main issues and discussion over the last month has been around biodiversity and flooding. There has been a number of discussions on biodiversity with OEH, both Councils and the Department of Planning just around the current state of play with the biodiversity. Ian and Ian, have you got any other comments about where things are at?

Ian Turnbull: In terms of the biodiversity assessment report, there are three expert reports that go with it. Those three expert reports have been to the Office of Environment and Heritage and last week they have given us feedback on those. We will have to go back to Shannon and Ecological Australia, and tell them we have feedback and do another round I suppose.

Richard Brown: Maybe Ian the next point you might want to give some comments to is on flooding?

Ian Shillington: We have been advised that we have been successful in getting the money for the flood studies. We got that a few weeks ago, so we are in the process of preparing a brief working with OEH and Cessnock City Council to prepare a brief for that, to send to Shannon before Christmas.

Richard Brown: So the next step is once the brief's finalised its go to market in terms of tendering?

Ian Shillington: Yes. We hope early in the new year is what we expect, to go to the market. We will be doing a joint study between the two councils.

Michael Ulph: Is that focused around that flood plain in that particular area?

Rezoning - Key Issues/Constraints

- Biodiversity
 - Meetings with OEH / MCC / CCC / DoPE
- Flooding
 - Waiting for MCC to procure Flood study

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Ian Shillington: Yes. The catchment around Wallis and Swamp creek.

Richard Brown: On the divestment side of things, we continue to work through a couple of potential purchases for this site. We have now completed a sort of bidding process, we issued a request for proposals to some developers and we have received those proposals. We have had those proposals presented to us and we are now seeking clarification on a number of issues and pending the outcome for that clarification, will determine how we go forward. The next step in that process is still subject to corporate approval. We have an internal mergers and acquisitions approval process. Each of the significant steps requires gateway approval at a corporate level.

We will make a recommendation to corporate, and say “we believe that Party A is our most suitable candidate for taking the site forward”. In all likelihood, what that will mean is we will enter a period where it’s working up the long form documentation for a transaction at the same time as the party is completing their DD [due diligence] process. That will take several months to actually work up until we get to the final decision. Probably towards the middle or back end of next year before it is actually finalised.

Toby Thomas: Is there a possibility that Hydro would divest itself of the land before demolition is completed?

Richard Brown: It’s likely that whichever way that the transaction is structured there will be conditions precedent to the transfer of title which is more than likely linked to things like rezoning, achieving a Site Audit Statement and things like demolition and the like.

Divestment

- Hydro has conducted a limited EOI process with possible future owner/developers
- Currently working with a selected few towards a Purchase proposal



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6 Questions and Answers from the CRG / General Business

Kerry Hallett: With the SPL, I noticed on your slide you said there is a mix of domestic and international recycling you were looking at. Is that a more cost effective way to go or is there nobody in Australia that could do the lot?

Richard Brown: We believe that the best way to get a guaranteed outcome in terms of timing is to actually diversify our output.

Kerry Hallett: Why did you just trash the sheds? Why didn't you strip the chicken sheds and sell them for second-hand usage?

Richard Brown: I can't answer that question. It is being recycled and it is not going to the tip, but in terms of selling for purposes of re-use I don't know.

Kerry Hallett: There's some good stuff in there going to waste. A lot of the iron is good. Particularly with the timbers because people are looking for that rustic look.

Richard Brown: Fair comment. I think it has been handled in relation to everything that we have dealt with on site and our experience with people buying stuff is not good, it's actually pretty tough.

Brad Wood: It would be expensive to sort it too, wouldn't it?

Kerry Hallett: Not necessarily. When they are actually pulling them down they are pulling down certain sections at a time. They just pull the iron off straight into that pile, pull the timbers down push through the frames then put into that pile.

Andrew Walker: The timbers at Bowditch Avenue were all rotten with termites. Not sure about Wangara.

Kerry Hallett: Bowditch Avenue they have a big problem with termites.

Richard Brown: Point taken.

One of our colleagues has put together a video of the activity over the last 6 months to show you.

Richard Brown:
[Shows video]

Richard Brown: This is part of our documentation of the process and history of what is going on. Not only is it documenting the past but current activities so some point in decades to come there is evidence for what has happened.



Notes

Action

Alan Gray moved a vote of thanks to Andrew for video
Carried.

Richard Brown: That's all we had today. But what Andrew has shown you is what we have been doing is basically wrapping a bit of work up over this last few months. We have noticed there are less cars here now. We've had different contractors onsite with lots of cars in the carpark, only the last couple of mornings we have seen fewer cars. We are really starting to wrap up some of the early works and preparation works ahead of the demolition. Hopefully we come out of the other side of Christmas and the carpark fills up again because we are starting to begin the demolition works.

Michael Ulph: Any other questions? Any other business?

Toby Thomas: The mural.

Michael Ulph: Thank you. In relation to the mural, Towns with Heart have put together a Project Management brief which details the requirements and cost estimates for the mural for Hydro to develop the budget to move forward with. That is now with the Commercial Manager and we will hear back about it shortly.

Toby Thomas: Leslie Morris was with council yesterday afternoon and spoke in detail about the murals. It was well received. With that timeframe wise we are aiming to paint it in March next year. Does that meet your criteria?

Richard Brown: Yes, not a problem. As long as the commercial issues there are ok we have no problem with timing wise.

Toby Thomas: I have done a dial before you dig but I have to chase Telstra. I will over the next few days put four pegs on the ground where I feel is the logical location and then anyone can comment before the build. I'm talking with the RMS at the moment about one at Neath. That shouldn't be a problem because it is on RMS land. That will be in 2018. Stanford Merthyr will be another year apart.

Richard Brown: What is the process in terms with artist selection and the concept flavour?

Toby Thomas: The committee/group has to work that out. I am looking after the structure, process and mechanicals.

Richard Brown: In terms of timing, when will that need to be sorted?

Toby Thomas: Briefing to the artist will be based on what they need to come up with if you are happy with the figure. It think it



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was about \$17,000 with an additional \$15,000 allowed for the artist. If you are happy with that figure.

Richard Brown: What I really hope to get out of this is a high quality piece of work. What is on there is up to people to decide.

Michael Ulph: We decided in the last meeting that you [TWH] would draft up an Expression of Interest document that we could have a look at. That would be a good next step in relation to finding an artist.

Toby Thomas: Leslie will do that, she deals with the artists, but we really need to know what needs to be on it.

Michael Ulph: That will be in the notes of the mural committee. We have some images and some reference material. We'll proceed on that basis.

Michael Ulph: Any other general business.

Alan Gray: Are we any closer than about twelve months or so ago, to using flood plain for a Scout camp? Is that advanced any?

Richard Brown: We haven't had any more discussion on that. Probably when we are looking at any other land uses or in that period of discussion with these future owners, we would probably, once we get into the one on one, if we are happy with that then we would start introducing some of these concepts to them. The flood level itself obviously will be somewhat determined, by this new piece of work by the council. It is flood prone so it's not like it won't be developed.

Richard Brown: Given this is our last meeting for the year. I would like to express my thanks to the committee. It is very much appreciated for you giving up your time coming here to help us working through this project. Without the feedback from the community and the ability to communicate to the community through the committee the project wouldn't be as advanced and structured the way it is.
I've had my boss out here this week and one of the features of discussion was engagement with community and I feel that this is a good process. I wish you all the best for the Christmas period and the New Year.



Notes	Action
<p>7 Meeting close <i>Meeting closed: 6:44 pm</i></p> <p>Next meeting: Thursday 16 February 6:00 pm to 7:30 pm</p>	 A teal rectangular graphic containing the Regrowth Kurri Kurri logo and the tagline "CREATING PROSPEROUS FUTURES" at the bottom.

Alexandra Parker

GHD – Stakeholder Engagement and Social Sustainability