

Date : 1/11/2021 4:29:10 PM

From : "Jo Zadkovich"

To : "David Woolsey" , "Alison Haycock" , "Greg Smyth" , "Anthony Ross" , "Chloe Gosling"

Cc : "Ashley Williams (DES)"

Subject : Borumba Pumped Hydro Energy Storage (PHES) Project

Attachment : image001.png;image003.png;image002.png;

Hi all,

It was good to get an overview from SMEC today. Sounds like we are aiming for March 2022 to have the initial feasibility authorities and arrangements sorted for SMEC.

Apologies, I am still a little unclear on who is doing what, however, thought it would be beneficial to briefly summarise what needs to happen. Please add to this if I left off anything important.

Initial feasibility:

- Investigate Native Title implications and advise ASAP if ILUA is required for geotechnical authority
- Investigate access authorities and potentially PTUKI if interference / ecological surveying is required
- Investigate if there is any existing road access points to proposed drill sites (QPWS to advise SMEC)
- Investigate geotechnical works authority (based on mining templates etc) and obtain the following from SMEC:
 - Drill sites GIS and confirm how flexible they are on site locations/movement (I think 50m either way of the identified location was mentioned)
 - Information on the drilling works expected to be undertaken on NP and SF tenure e.g. scale of drill site footprint, including clearing, drilling activities and machinery, spoil management and stockpiles – noting road access to some of the drill sites is highly unlikely, chopper likely the only way to get to there
 - An initial Environmental Impact Statement if possible – plus once they have more details on the scope of works etc a detailed Environmental Works Plan (considering all impacts and mitigation strategies and site rehabilitation) and Cultural Heritage Management Plan

Future requirements if feasible:

- Revocations (land offsets/compensation etc) of inundated lands (parts of Conondale NP and Yabba SF)
- Infrastructure authorities (can this infrastructure be authorised under NCA and FA or does it require leg changes?). Power station proposed to be on park but underground. No above ground infrastructure on park.

Thanks and talk soon.

Jo



Jo Zadkovich

Assistant Principal Ranger – Planning & Resilience
Technical Support | SEQR | QPWS & Partnerships
Department of Environment and Science

M) Personal in

Level 6, 12 First Avenue, Maroochydore QLD 4558



[Chat with me on Teams](#)

Date : 10/03/2022 12:34:20 PM

From : "Jo Zadkovich"

To : "Chloe Gosling"

Subject : FW: Boromba PHES project

Attachment : 30032677-SKT-001.pdf;30032677-SKT-002.pdf;Photo 5.JPG;Photo

2.JPG;image006.png;image008.png;image009.png;image010.png;image011.png;image012.png;image002.png;

Just FYI

From: Anthony Ross <Anthony.Ross@des.qld.gov.au>

Sent: Thursday, 10 March 2022 11:04 AM

To: Jon ALEXANDER

Cc: Leon BEYLEVELD; Alison Haycock

Subject: RE: Boromba PHES project

Hi Jon

Just to confirm the phone discussion we had, where I flagged that this last information (below and attached) left some ambiguity between what is proposed at the drilling sites—some of the images show everything on rigging/platforms with minimal ground impacts, where as the schematics appears to show everything on ground and assumably cut and fill earthworks to facilitate.

I understand you were going to seek further refinement on these matters and come back to QPWS. Ideally the schematics should show how the approach is being designed in regard to actual site conditions on-ground and the relevant locations—e.g. shown against contours, geological features, tree and other significant veg locations, waterways, etc.

Once we have these schematics further clarified, the intent was to issue you with a more detailed information request for any extra information we need to make a general assessment about possible impacts and conditions of any authorities etc. As an aside, I understand there was some discussion with Alison about having data loggers in boreholes, so we will need to pick up on information such as that including how it will be undertaken, accessed and over what duration.

As discussed, we can continue to do this generic assessment in parallel with the process of working out whether there is a suitable authorising pathway (though they will ultimately need to be brought together).

Please let me know if this is your understanding of where we are at.

Kind Regards



Anthony Ross

Principal Ranger, Technical Support

South East Queensland Region | Queensland Parks & Wildlife Service and Partnerships

Department of Environment and Science

Personal information | [Chat with me on Teams](#)

Mike Ahern Centre Lvl 6, 12 First Ave, MAROOCHYDORE QLD 4558

From: Jon ALEXANDER <Jon.Alexander@smec.com>

Sent: Friday, 25 February 2022 9:47 AM

To: Anthony Ross

Cc: Leon BEYLEVELD; GWYNNE Chris (Powerlink); EVANS Chris (Powerlink); Anna WEST; Jo Zadkovich; Chloe Gosling

Subject: Boromba PHES project

Hi Anthony,

I have attached, for information purposes, some indicative plans of what the layout of a "heli-rig" geotechnical site might look like. I have also attached a couple of photos of one of these sites in use in an isolated area. There are many options for adapting these setups to suit specific site conditions and minimise potential impacts, for example in the photos you will note that much of drill rig setup is on scaffolding rather than on an excavated pad, with a subsequent reduction in vegetation and ground disturbance.

I am aware that discussion regarding the approvals pathway for these works are ongoing and have a level of complexity to them. However, I thought it would be helpful to have a clearer picture of what may be possible in relation to these proposed works.

If you have any queries regarding this information or require anything additional to further inform future discussions don't hesitate to contact myself or Leon Beyleveld directly.

Best regards,

Jon Alexander

Principal Ecologist

Personal information | [+61 7 5578 0250](tel:+61755780250) | [E Jon.Alexander@smec.com](mailto:Jon.Alexander@smec.com)

832 Southport-Nerang Rd, Nerang, QLD, 4211, Australia

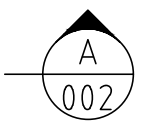
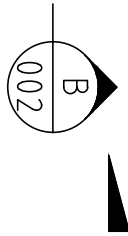
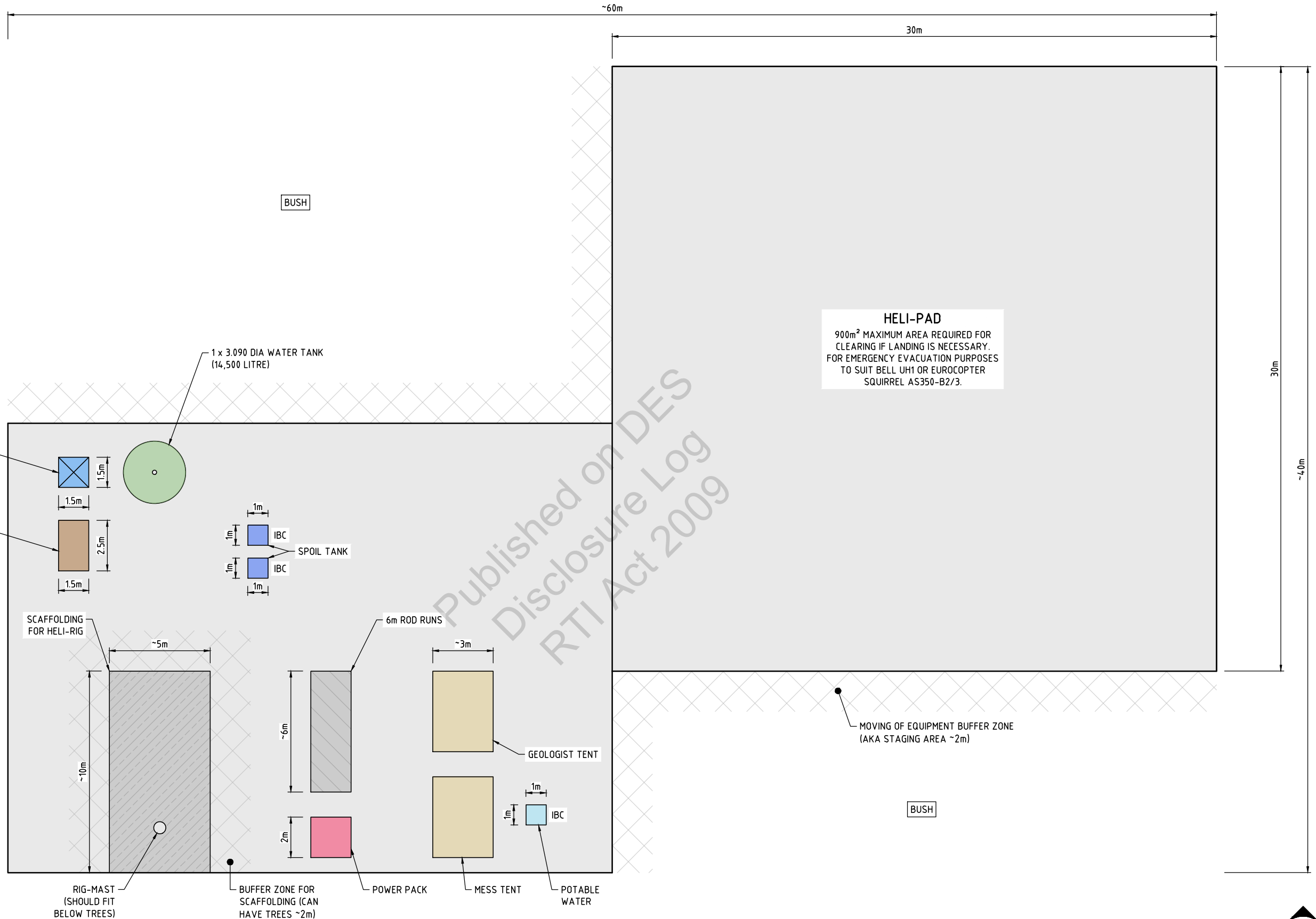
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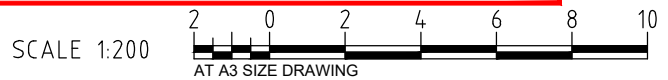
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**BORUMBA DAM
HELI-RIG AREA LAYOUT**

File C

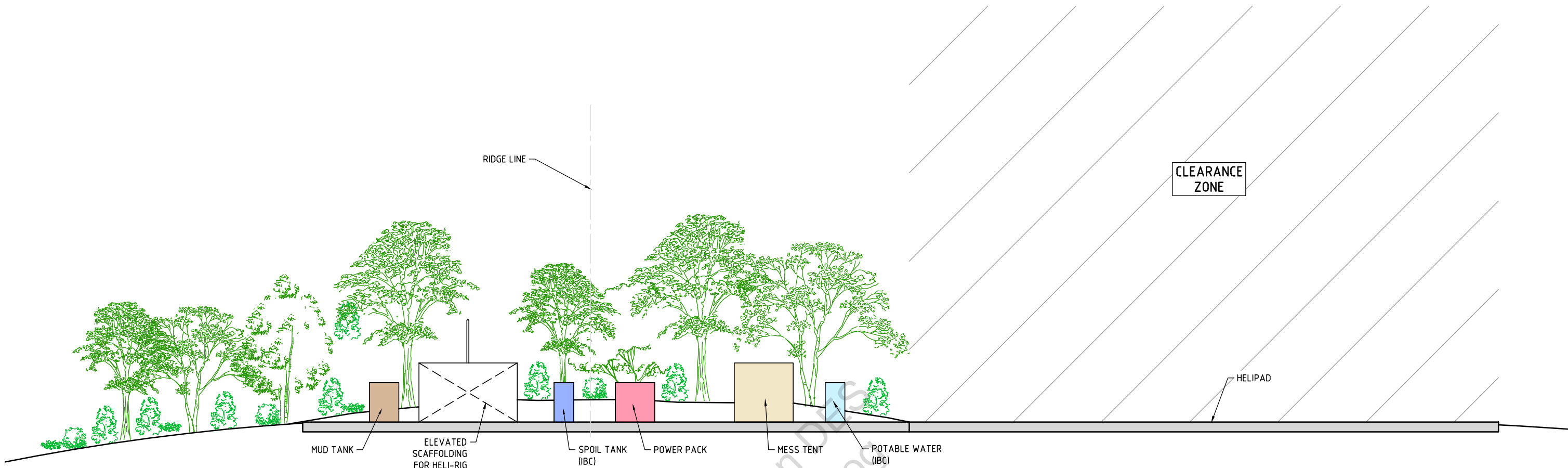
INFORMATION DOCUMENT

30032677-SKT-001

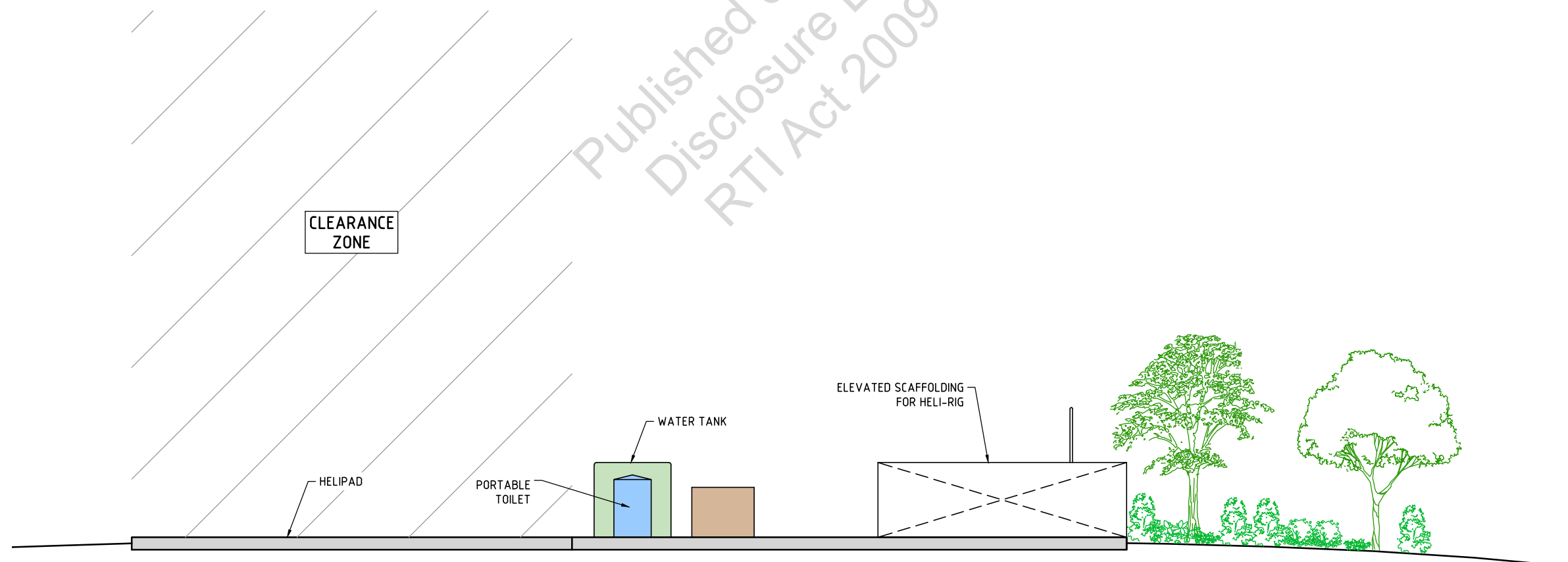


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DRAWING FILE LOCATION NAME
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ELEVATION A



ELEVATION B

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SCALE: NTS

**BORUMBA DAM
HELI-RIG AREA ELEVATIONS**

INFORMATION DOCUMENT

30032677-SKT-002





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Date : 25/02/2022 3:25:14 PM
From : "Jo Zadkovich"
To : "Chloe Gosling"
Subject : FW: Boromba PHES project
Attachment : 30032677-SKT-001.pdf;30032677-SKT-002.pdf;Photo 5.JPG;Photo 2.JPG;image001.png;image002.png;image003.png;image004.png;image005.png
Just FYI

From: Anthony Ross <Anthony.Ross@des.qld.gov.au>
Sent: Friday, 25 February 2022 10:14 AM
To: Alison Haycock
Cc: Jo Zadkovich
Subject: FW: Boromba PHES project

Hi Alison

FYI - see below and attached.

I have tried calling Jon because what is provided is fairly ambiguous—the images show much of the set up on scaffolding—but the diagrams show most on ground/cuttings with a helipad clearing in addition! The diagrams are now showing something like a 60m x 40m impact area (as opposed to the earlier 15 x 15m, then 30 x 30m).

There is quite a bit of gear associated with the activity – but no doubt you already knew that!

I will see what further info I can get from Jon and will ask him to set out further details in writing...

Thanks

A

From: Jon ALEXANDER <Jon.Alexander@smec.com>
Sent: Friday, 25 February 2022 9:47 AM
To: Anthony Ross
Cc: Leon BEYLEVELD; GWYNNE Chris (Powerlink); EVANS Chris (Powerlink); Anna WEST; Jo Zadkovich; Chloe Gosling
Subject: Boromba PHES project

Hi Anthony,

I have attached, for information purposes, some indicative plans of what the layout of a “heli-rig” geotechnical site might look like. I have also attached a couple of photos of one of these sites in use in an isolated area. There are many options for adapting these setups to suit specific site conditions and minimise potential impacts, for example in the photos you will note that much of drill rig setup is on scaffolding rather than on an excavated pad, with a subsequent reduction in vegetation and ground disturbance.

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If you have any queries regarding this information or require anything additional to further inform future discussions don't hesitate to contact myself or Leon Beyleveld directly.

Best regards,

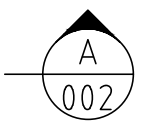
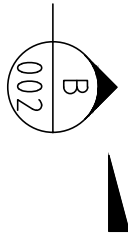
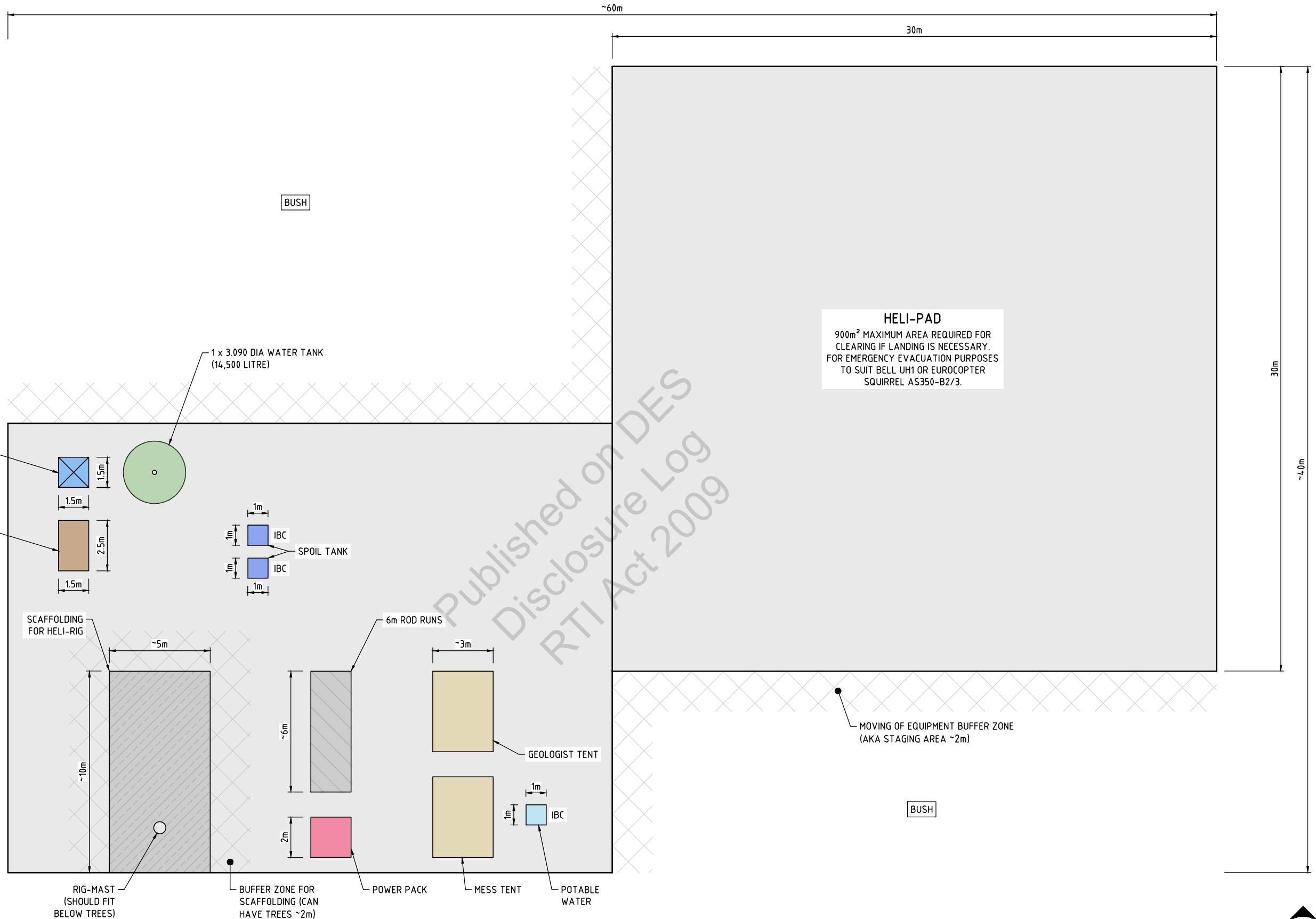
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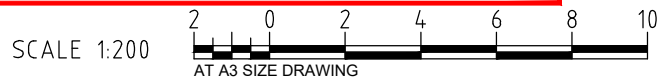


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**BORUMBA DAM
HELI-RIG AREA LAYOUT**

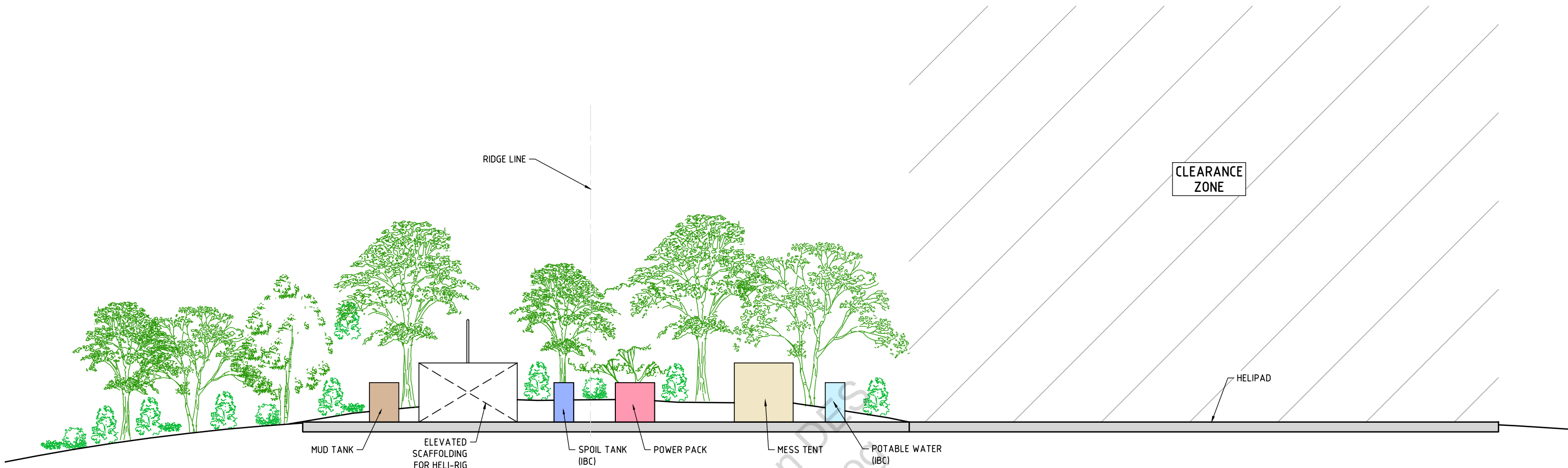
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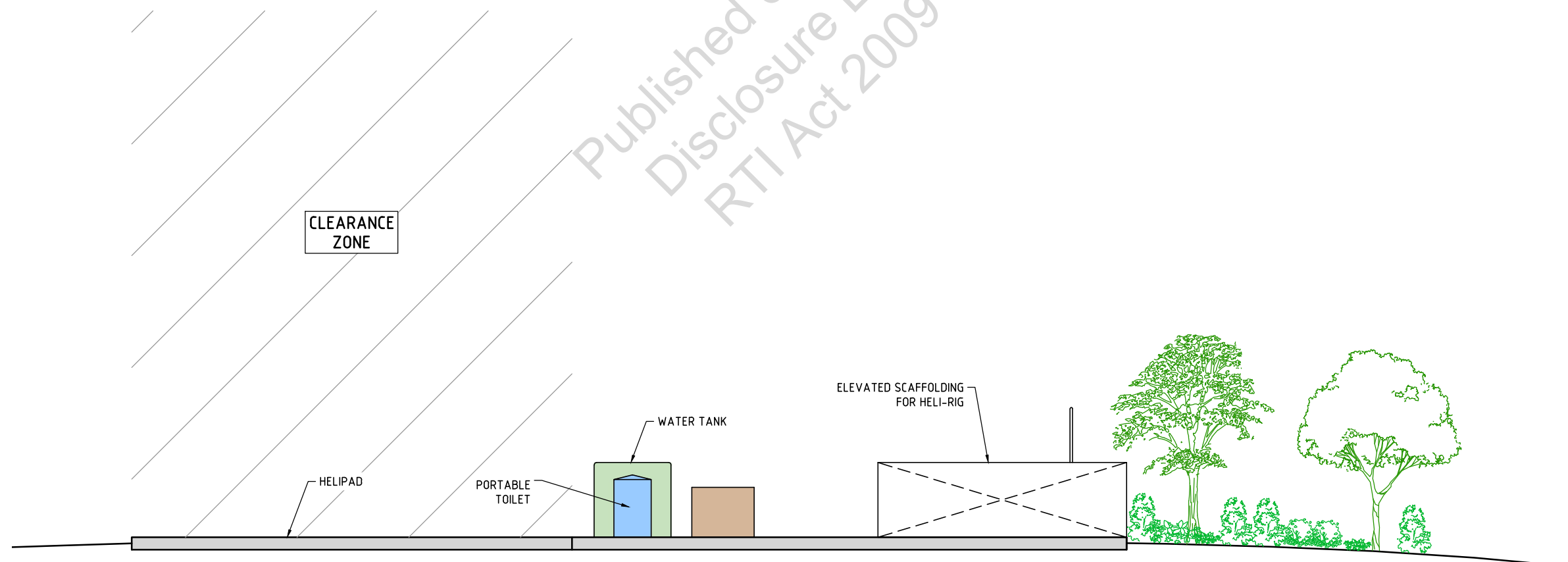
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ELEVATION A



ELEVATION B

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**BORUMBA DAM
HELI-RIG AREA ELEVATIONS**

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Date : 8/11/2021 7:48:53 AM

From : "Jo Zadkovich"

To : "Chloe Gosling"

Subject : FW: Borumba Dam PHES Geotechnical investigation Sites

Attachment :

ProposedGeotechLoc_COORDINATESGDA2020.xlsx;PropGeotechLoc_20211105.kml;image001.png;image002.png;image003.png;image004.png;image005.png;

Morning Chloe – FYI.

From: Jon ALEXANDER <Jon.Alexander@smec.com>

Sent: Friday, 5 November 2021 3:24 PM

To: Jo Zadkovich

Cc: Leon BEYLEVELD

Subject: Borumba Dam PHES Geotechnical investigation Sites

Hi Jo,

Thank you for the offer of investigating potential access to the proposed geotechnical sites within Conondale NP and Imbil SF. Apologies for the delay in getting these through there was a little bit of delay in getting the co-ordinate systems aligned with various elements in the project GIS. That is now been resolved.

I have attached the coordinates of all the Geotech investigations sites, but the ones which will be of interest to QPWS are... NP sites (NB05, TR01, ET01, PC01) and SF site (NB06). I have also attached a Kml with the locations pinpointed. If you would rather have these as a Shape file let me know and I can send that through as well.

Thanks for your assistance.

Best regards,

Jon Alexander

Principal Ecologist

M (6) Personal info +61 7 5578 0250 E Jon.Alexander@smec.com

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Date : 25/10/2021 11:36:24 AM

From : "Jon ALEXANDER"

To : "HAYCOCK Alison" , "WILLIAMS Ashley (DES)" , "WOOLSEY David" , "SMYTH Greg" , "GOSLING Chloe"

Subject : FW: Borumba Pumped Hydro Introductory meeting

As per the email –

They are hoping to cover in the meeting is:

- Introduction to the propose project
- Context of the current stage of works
- Details of works which would require access to the National Park
- Approval requirements for those works to proceed
- Stakeholder relationships (QPWS is seen as key stakeholder in the wider project)

If you have any items you would like to see included in the meeting agenda please feel free to let me know.

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

From: Jon ALEXANDER <Jon.Alexander@smec.com>

Sent: Monday, 25 October 2021 9:46 AM

To: Jon ALEXANDER; Leon BEYLEVELD; Jo Zadkovich; Anthony Ross; Rebecca POWLETT

Subject: Borumba Pumped Hydro Introductory meeting

When: Monday, 1 November 2021 11:30 AM-12:30 PM (UTC+10:00) Brisbane.

Where: Microsoft Teams Meeting

Hi Jo/Ross,

Please pass this invite on to whoever you feel needs to be involved.

Best regards.

Jon Alexander

Microsoft Teams meeting

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Date : 10/08/2021 4:24:25 PM

From : "ROSS Anthony"

To : "NORAMBUENA Sergio" , "ENSLIN Justin"

Cc : "ZADKOVICH Jo"

Subject : FW: Borumba pumped hydro project to take next step in partnership with community

Fyi only – will involve some revocation of Conondale NP and Imbil SF I recall.

We have introduced the Dept ERH to Kabi Kabi...

A

From: HEAD Damien <Damien.Head@des.qld.gov.au>

Sent: Tuesday, 10 August 2021 2:59 PM

To: ROSS Anthony; COLLIN Jennifer; WEINERT Nick; SMYTH Greg

Cc: Corro DES QPWS Southern

Subject: FW: Borumba pumped hydro project to take next step in partnership with community

From: Ministerial Media Statements QLD <no-reply@statements.qld.gov.au>

Sent: Tuesday, 10 August 2021 2:53 PM

To: HEAD Damien

Subject: Borumba pumped hydro project to take next step in partnership with community



Media release

Minister for Energy, Renewables and Hydrogen and
Minister for Public Works and Procurement

The Honourable Mick de Brenni

Borumba pumped hydro project to take next step in partnership with community

One of Queensland's largest renewable energy projects is about to take the next step in consultation with the local community as the Palaszczuk Government continues to prioritise investment in renewables as part of Queensland's plan for economic recovery from COVID-19.

At one gigawatt and 24 hours storage, the Borumba Dam Pumped Hydro Energy Storage (PHES) project would be Queensland's largest pumped hydro project, with the potential to power up to 1.5 million homes and support 2000 construction jobs.

Tenders are now called for initial engineering and consulting services to deliver design and costings for the project.

Minister for Energy, Renewables and Hydrogen Mick de Brenni said an essential part of the project was environmental feasibility studies as well as community consultation support.

The Queensland Government has committed \$22 million for a detailed design and cost analysis of the project to support future decisions. A request for information (RFI) will be released for environmental studies and community consultation support at the same time as an invitation to tender (ITT) to be released to secure the role of Owners Engineer and technical advisory services.

"Borumba hydro is an important project for Queensland as we move towards our 50% renewable energy target by 2030," Mr de Brenni said.

"Pumped hydro will play a key role in complementing solar and wind generation.

"We hope that Queensland-based businesses get involved in the tender process to deliver the relevant work packages."

Gympie Regional Council Mayor Glen Hartwig said it was vital the community had their say.

"I'd encourage everybody to be part of this consultation process," Cr Hartwig said.

"This project has the potential to create good jobs in the Gympie region and we support the consultation process."

Powerlink Queensland will coordinate the work based on its role in the state's power system and experience in delivering large infrastructure on the electricity transmission network.

Powerlink Chief Executive Paul Simshauser said the tender process would ensure the right expertise is secured on the project.

"Together with the Queensland Government, we will soon commence engagement with a range of stakeholders, including the local community, environmental groups, Traditional Owners and Seqwater," Mr Simshauser said.

"Borumba Dam has the potential to be one of the state's largest infrastructure projects, so we need to get the right technical advice now in delivering the design and cost analysis," Mr Simshauser said.

"The project is an opportunity to further strengthen the supply of electricity across Queensland, while also driving regional economies recovering from COVID impacts."

The studies are expected to take up to 24 months, with a submission expected to Government by mid-to-end-2023.

Go to <https://www.epw.qld.gov.au/about/initiatives/borumba-dam-pumped-hydro> for more information.

ENDS

Media contact: Dan Knowle (6) Personal info

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Date : 1/02/2022 5:34:04 PM

From : "Jo Zadkovich"

To : "Anthony Ross"

Cc : "Chloe Gosling"

Subject : FW: Borumba update

Attachment : image002.png;image004.png;image005.png;image006.png;image007.png;image008.png;image003.png;image010.png;

Hi Anthony,

Agree with Chloe – leads/aligns with the questions you asked Alison in the meeting today about who is Project Managing / Coordinating – really does fit with MPEM so would be good to clarify with Kamila.

Thanks,
Jo

From: Chloe Gosling <Chloe.Gosling@des.qld.gov.au>

Sent: Tuesday, 1 February 2022 2:26 PM

To: Jo Zadkovich

Subject: FW: Borumba update

Hi Jo

As discussed on the phone just now, I think there are some bigger decisions that need to be made by the department about how this project is going to be facilitated. We have been working on the assumption that we would issue temporary authorities with the view that the leg would be amended but there hasn't been any clear direction or advice around that, so probably not appropriate for me to continue down this path with SMEC. Maybe better suited to the Major Projects and Estate Management team?

Thanks



Chloe Gosling

Senior Ranger, Estate Management | South East Queensland
Queensland Parks and Wildlife Service & Partnerships
Department of Environment and Science

M(6) Personal info

Level 6, 12 First Avenue
MAROOCHYDORE QLD 4558

From: Jon ALEXANDER <Jon.Alexander@smec.com>

Sent: Tuesday, 1 February 2022 1:53 PM

To: Chloe Gosling

Cc: Jo Zadkovich

Subject: RE: Borumba update

Hi Chloe,

As you may be aware the CH clearances for the geotech locations associated with the Borumba project have stalled while a pathway forward regarding Native Title is sorted out with the Traditional owners. There is a current commitment to provide Native Title advice to the Kabi Kabi this month but I am a bit removed from that process (although I think we are both in a meeting about this tomorrow). I am not sure how long this aspect will take to resolve, so in the interests of keeping the ball rolling with regard to the National Park and State Forest access permits, I was wondering if there was value in submitting the resource permit application to you in the next week or so, with a view to you reviewing that information and us getting any non-Cultural heritage and Native Title issues sorted, while we wait for that side of things to be resolved.

If you think this approach would be worthwhile, let me know and I will get the Resource Permit information to you shortly.

Also I have not forgotten the map discussed in the email below, but our project GIS person has been away and the data has not been imported yet. I will send it on ASAP.

Best regards,

Jon Alexander

Principal Ecologist

M(6) Personal info +61 7 5578 0250 E Jon.Alexander@smec.com
832 Southport-Nerang Rd, Nerang, QLD, 4211, Australia

From: Chloe Gosling <Chloe.Gosling@des.qld.gov.au>

Sent: Tuesday, 25 January 2022 9:07 AM

To: Jon ALEXANDER <Jon.Alexander@smec.com>

Cc: Jo Zadkovich <Jo.Zadkovich@des.qld.gov.au>

Subject: RE: Borumba update

Thanks Jon – a map with those locations would be great. We would need to ensure there is adequate protection of any EVNT's for the proposed works.

SMEC will need to obtain Cultural Heritage clearance and resolve Native Title constraints with Kabi Kabi First Nations People for the permit. It was my understanding that SMEC was already having discussions with Kabi Kabi?

Regards



Chloe Gosling
Senior Ranger, Estate Management | South East Queensland
Queensland Parks and Wildlife Service & Partnerships
Department of Environment and Science

M Personal info
Level 6, 12 First Avenue
MAROOCHYDORE QLD 4558

From: Jon ALEXANDER <Jon.Alexander@smec.com>
Sent: Monday, 24 January 2022 4:14 PM
To: Chloe Gosling
Subject: Borumba update

Hi Chloe,

Just an update on last weeks field trip to inspect the prospective sites in Conondale NP. The team walked into TR01 and TR02. The proposed location of both sites was altered slightly to reduce possible impacts. More detailed investigations of the immediate surrounding area will follow shortly.

Of interest to you in the short term, we did locate a couple of threatened species. We had two sightings of Koala (both outside the park) and a single specimen of slender milkvine (*Leichhardtia (Mardensia) coronata*) on the ridgeline where the geotech sites would be located but approximately 200m from the nearest site. Obviously no sample was taken but our ecologist who undertook the site inspection is familiar with the slender milkvine and was confident of the identification.

I have attached a shape file of the locations of the sightings FYI.

On another note, with regard to the Cultural Heritage component of the resource permit application. Is the expectation that the sites will have received cultural heritage clearance from the traditional owners or is a site inspection by a qualified specialist consultant acceptable for the purposes of the resource permit.

Best regards,

Jon Alexander
Principal Ecologist
M Personal info T +61 7 5578 0250 E Jon.Alexander@smec.com
832 Southport-Nerang Rd, Nerang, QLD, 4211, Australia
SMEC Australia We're redefining exceptional

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SMEC acknowledges the Traditional Custodians of Country throughout Australia and their connections to land, sea and community. We pay our respect to their elders past, present and emerging and extend that respect to all First Nations peoples today.

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Date : 22/11/2021 9:52:09 AM

From : "Jo Zadkovich"

To : "Anthony Ross"

Subject : FW: Inform: Borumba - stakeholder engagement

Attachment :

image001.png;image008.jpg;image010.jpg;image011.png;image012.png;image002.png;image005.png;image007.png;image013.png;
FYI

From: Chloe Gosling <Chloe.Gosling@des.qld.gov.au>

Sent: Monday, 22 November 2021 8:50 AM

To: Jo Zadkovich

Subject: RE: Inform: Borumba - stakeholder engagement

Hi Jo

Dean Bauer has an SGP (expires 2024) over Imbil State Forest 1 adjoining the NP and Borumba Dam – 270 Haywood Road Moorina. While the proposed pipeline itself won't effect the permit, the potential revocation for flood inundation area may. There is a long history with the Bauer's....

HQP have comms facility authorised under the Operations Deed.

There are 229 apiary sites in Conondale National Park, but we don't have a map (that I'm aware of) which ones will be located within the impacted area. Maybe MPEM could interrogate their database and pluck out the ones for that area?

Thanks



Chloe Gosling
Senior Ranger, Estate Management | South East Queensland
Queensland Parks and Wildlife Service & Partnerships
Department of Environment and Science

MCTPI 49-Sch4
Level 6, 12 First Avenue
MAROOCHYDORE QLD 4558

From: Jo Zadkovich <Jo.Zadkovich@des.qld.gov.au>

Sent: Friday, 19 November 2021 12:09 PM

To: Chloe Gosling

Subject: FW: Inform: Borumba - stakeholder engagement

Hey Chloe,

FYI.

Can we please try to check and see what other interests may be impacted? E.g. grazing and other leases/authorities? Let me know if you want me to ask Peter Lusk to chase this up....?

Thanks!

From: Anthony Ross <Anthony.Ross@des.qld.gov.au>

Sent: Friday, 19 November 2021 10:59 AM

To: Jo Zadkovich

Subject: Inform: Borumba - stakeholder engagement

Might be worth marking Dec 2 in diary for now – I have as well

Has anyone asked us for stock grazing on SF contacts if relevant? Can we dig up so we can prompt!?

A

From: Anthony Ross

Sent: Wednesday, 17 November 2021 1:17 PM

To: Damien Head

Cc: Andrew Hoffman

Subject: RE: Borumba - stakeholder engagement

73(2)Irrelevant

73(2)Irrelevant

Published on DES
Disclosure Log
RTI Act 2009

From: Jane Carey <Jane.Carey@epw.qld.gov.au>
Sent: Tuesday, 16 November 2021 12:40 PM
To: Nick Weinert
Subject: RE: Borumba - stakeholder engagement

Indeed, thanks Nick,
21-361

Some additional information in blue below:

- Whatever you can on the Gympie workshop (9-12, 2 December)
 - Workshop will be facilitated by Powerlink and take the following format – final program still to be confirmed:
 - Attendees given overview of Borumba project (scene setter & proposed project specifications) – presented by Chris Evans (Powerlink Project Director)
 - Attendees will be assigned a table at random, to ensure a cross section of interests are represented at each table (to stimulate discussion and exposure community members to wide ranging interests/perspectives)
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 - Print advertisement currently with MO for approval – will be placed in Sunshine Coast Daily & Gympie Times as soon as possible, to advise information sessions to the community.
 - Imbil, 1 December, 3-7pm – Mary Valley Memorial Hall (Imbil RSL Hall), 127 Yabba Road Imbil
 - Gympie, 2 December, 3-7pm – Gympie RSL, 217 Mary St Gympie
 - Powerlink & SMEC consultants will be available to speak to community and answer questions, invite residents to submit questions/concerns. Posters/factsheets will be available for community.
- 73(2)Irrelevant

Cheers
Jane

From: Nick Weinert <Nick.Weinert@des.qld.gov.au>
Sent: Tuesday, 16 November 2021 12:21 PM
To: Jane Carey <Jane.Carey@epw.qld.gov.au>
Subject: RE: Borumba - stakeholder engagement

Hi Jane

Thanks again for following this up and apologies I hadn't replied sooner.

Would it be possible for you to send me the following details so we can confirm best participation etc:

- Whatever you can on the Gympie workshop (9-12, 2 December)
- Attendance / invite list for the workshop
- Details and location of drop in sessions for Imbil and Gympie

- 73(2)Irrelevant

Thanks again,
Nick



Nick Weinert
Executive Director
Protected Area Strategy and Investment
QPWS and Partnerships
Department of Environment and Science

M Personal if
Level 13, 400 George St, Brisbane QLD 4000
GPO Box 2454, Brisbane QLD 4001

I'm sending this message now because it suits me. I don't expect you to read, action or respond out of normal work hours.



From: Jane Carey <Jane.Carey@epw.qld.gov.au>
Sent: Wednesday, 10 November 2021 12:43 PM
To: Nick Weinert
Subject: Borumba - stakeholder engagement

Hi Nick,

Hope this email finds you well.

Getting in touch on the Borumba project – I wanted to let you know that Powerlink will be commencing their community engagement activities in early December.

Powerlink will be holding community 'drop in information' sessions to provide information on the detailed studies, in Imbil on afternoon of 1 December and Gympie on afternoon of 2 December.

As well as community information sessions, an invitation only workshop will be held in Gympie (2 December, 9am-midday). This workshop will be facilitated by Powerlink. The purpose of this workshop is to gather feedback from various stakeholder groups on the project for scoping of the detailed analytical studies. Invitations will be sent to a cross-sector of local environment and industry organisations.

We also have a limited number of places for State government agencies to attend the workshop in an observer capacity. I wondered if you would like to be included in an invitation to attend the workshop, given your involvement in the Yabba links project and previous contact with environment groups in the area?

Please let me know if you'd like to be included on the invitation list and I can ensure an invitation is forwarded to you.

Many thanks in advance,

Kind regards

Jane



Jane Carey
Principal Policy Officer
Commercial | Energy
Department of Energy and Public Works
P (07) 3008 3676 / Personal in E jane.carey@epw.qld.gov.au
Level 8, 1 William Street, Brisbane, QLD 4001

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Date : 23/11/2021 9:54:42 AM

From : "Jo Zadkovich"

To : "Chloe Gosling"

Subject : FW: Inform: Borumba - stakeholder engagement

Attachment : image001.png;image002.png;image003.png;image006.jpg;image007.png;image008.png;image009.png;

FYI

From: Anthony Ross <Anthony.Ross@des.qld.gov.au>

Sent: Tuesday, 23 November 2021 8:50 AM

To: Jo Zadkovich

Subject: FW: Inform: Borumba - stakeholder engagement

FYI



Anthony Ross

Principal Ranger, Technical Support

South East Queensland Region | Queensland Parks & Wildlife Service and Partnerships

Department of Environment and Science

M Personal in [Chat with me on Teams](#)

Mike Ahern Centre Lvl 6, 12 First Ave, MAROOCHYDORE QLD 4558

61 Bunya Street, MALENY QLD 4552

From: EVANS Chris (Powerlink) <chris.evans@powerlink.com.au>

Sent: Tuesday, 23 November 2021 8:43 AM

To: Jane Carey; Anthony Ross

Cc: MAIR Holly (Powerlink)

Subject: RE: Inform: Borumba - stakeholder engagement

Hi Anthony

We are yet to undertake any direct engagement with adjacent land holders or lease holders. One of our challenges is not having confirmed height of the lower dam, and therefore extent of inundation. Once this is defined, direct engagement would occur (early 2022). Contact details for any leaseholders on Qld Gov land would be very helpful to assist with this.

Thanks

Chris

From: Jane Carey <Jane.Carey@epw.qld.gov.au>

Sent: Monday, 22 November 2021 10:44 AM

To: Anthony Ross <Anthony.Ross@des.qld.gov.au>

Cc: EVANS Chris (Powerlink) <chris.evans@powerlink.com.au>

Subject: RE: Inform: Borumba - stakeholder engagement

Hi Anthony,

Thanks for reaching out and for the information below. I've copied Chris Evans, Powerlink's Project Director who may be able to give you an understanding of what contact there's been with potentially affected land-holders around the area.

Hope this assists,

Kind regards

Jane



Jane Carey

Principal Policy Officer

Commercial | Energy

Department of Energy and Public Works

P (07) 3008 3676 / [Personal in](#) E jane.carey@epw.qld.gov.au

Level 8, 1 William Street, Brisbane, QLD 4001

From: Anthony Ross <Anthony.Ross@des.qld.gov.au>

Sent: Monday, 22 November 2021 10:39 AM

To: Jane Carey <Jane.Carey@epw.qld.gov.au>

Subject: FW: Inform: Borumba - stakeholder engagement

Hi Jane

I was just patched into this email via Nick (as likely rep from QPWS at stakeholder meeting) and thought worth a quick question.

QPWS has issued a Stock Grazing Permit to a grazier (expires 2024) over Imbil State Forest 1 adjoining the NP and Borumba Dam.

This area may be impacted by inundation.

Would such an SGP holder just be expected to find out themselves about the general community drop in invite—or should we/Powerlink send them a notice of that?

We did flag with SMEC but not sure if Powerlink have considered.

Cheers

Anthony Ross
Principal Ranger, Technical Support
South East Queensland Region | Queensland Parks & Wildlife Service and Partnerships
Department of Environment and Science

M [Personal i](#) or [Chat with me on Teams](#)
Mike Ahern Centre Lvl 6, 12 First Ave, MAROOCHYDORE QLD 4558
61 Bunya Street, MALENY QLD 4552

From: Jane Carey <Jane.Carey@epw.qld.gov.au>
Sent: Tuesday, 16 November 2021 12:40 PM
To: Nick Weinert
Subject: RE: Borumba - stakeholder engagement

Indeed, thanks Nick,

Some additional information in blue below:

- Whatever you can on the Gympie workshop (9-12, 2 December)
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 - Powerlink & SMEC consultants will be available to speak to community and answer questions, invite residents to submit questions/concerns. Posters/factsheets will be available for community.

• 73(2)Irrelevant

Cheers
Jane

From: Nick Weinert <Nick.Weinert@des.qld.gov.au>
Sent: Tuesday, 16 November 2021 12:21 PM
To: Jane Carey <Jane.Carey@epw.qld.gov.au>
Subject: RE: Borumba - stakeholder engagement

Hi Jane

Thanks again for following this up and apologies I hadn't replied sooner.

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• 73(2)Irrelevant

Thanks again,
21-361

Nick



Nick Weinert
Executive Director
Protected Area Strategy and Investment
QPWS and Partnerships
Department of Environment and Science

M Personal in
Level 13, 400 George St, Brisbane QLD 4000
GPO Box 2454, Brisbane QLD 4001

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From: Jane Carey <Jane.Carey@epw.qld.gov.au>
Sent: Wednesday, 10 November 2021 12:43 PM
To: Nick Weinert
Subject: Borumba - stakeholder engagement

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Many thanks in advance,

Kind regards

Jane



Jane Carey
Principal Policy Officer
Commercial | Energy
Department of Energy and Public Works

P (07) 3008 3676 | Personal in | E jane.carey@epw.qld.gov.au
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73(2)Irrelevant

Cheers
Jane

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Sent: Tuesday, 16 November 2021 12:21 PM
To: Jane Carey <Jane.Carey@epw.qld.gov.au>
Subject: RE: Borumba - stakeholder engagement

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- 73(2) Irrelevant

Thanks again,
Nick



Nick Weinert
Executive Director
Protected Area Strategy and Investment
QPWS and Partnerships
Department of Environment and Science

M Personal in
Level 13, 400 George St, Brisbane QLD 4000
GPO Box 2454, Brisbane QLD 4001

I'm sending this message now because it suits me. I don't expect you to read, action or respond out of normal work hours.



From: Jane Carey <Jane.Carey@epw.qld.gov.au>
Sent: Wednesday, 10 November 2021 12:43 PM
To: Nick Weinert
Subject: Borumba - stakeholder engagement

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Many thanks in advance,

Kind regards

Jane



Jane Carey
Principal Policy Officer
Commercial | Energy
Department of Energy and Public Works

P (07) 3008 3676 / M Personal in | E jane.carey@epw.qld.gov.au
Level 8, 1 William Street, Brisbane, QLD 4001

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Date : 22/10/2021 10:16:37 AM

From : "ZADKOVICH Jo"

To : "WILLIAMS Ashley (DES)" , "SMYTH Greg" , "HAYCOCK Alison"

Cc : "ROSS Anthony"

Subject : FW: Meeting to discuss Borumba Pumped Hydro Energy Storage (PHES) Project

Attachment :

image006.png;image009.png;image010.png;image011.png;image012.png;image013.png;image001.png;image002.png;image003.png;

Hi all,

We have recently been approached by SMEC – see below – about setting up a meeting to discuss the Borumba PHES project.

I am unsure how familiar you are with this – if you have any additional background it would be great if you could share it with me!

We were thinking it might be beneficial for you or a team representative to attend this initial meeting? Can you let me know if you would like to attend and your availability? The 28th isn't suitable for Anthony or myself – we were hoping to run with the 1st of November option.

Thanks and talk soon.

Jo



Jo Zadkovich

Acting Assistant Principal Ranger – Planning & Resilience

Technical Support | SEQR | QPWS & Partnerships

Department of Environment and Science

M Personal info

Level 6, 12 First Avenue, Maroochydore QLD 4558

[Chat with me on Teams](#)

From: Jon ALEXANDER <Jon.Alexander@smec.com>

Sent: Thursday, 21 October 2021 5:22 PM

To: ROSS Anthony

Cc: ZADKOVICH Jo; Leon BEYLEVELD; Rebecca POWLETT

Subject: RE: Meeting to discuss Borumba Pumped Hydro Energy Storage (PHES) Project

Hi Ross,

I am anticipating that we can cover most of the key things in this initial meeting in about an hour.

In which case, how would the following work for your team:

Thursday Oct 28th – between 12 to 2pm

Monday Nov 1st – Anytime between 11am – 2pm

Thursday Nov 4th – between 12 and 2pm

We would probably do this via Teams given the geographic scatter of the likely participants.

What we are hoping to cover in the meeting is:

- Introduction to the propose project
- Context of the current stage of works
- Details of works which would require access to the National Park
- Approval requirements for those works to proceed
- Stakeholder relationships (QPWS is seen as key stakeholder in the wider project)

If you have any items you would like to see included in the meeting agenda please feel free to let me know.

Best regards,

Jon Alexander

Principal Ecologist

M Personal info +61 7 5578 0250 E Jon.Alexander@smec.com

832 Southport-Nerang Rd, Nerang, QLD, 4211, Australia

From: ROSS Anthony <Anthony.Ross@des.qld.gov.au>

Sent: Thursday, 21 October 2021 8:55 AM

To: Jon ALEXANDER <Jon.Alexander@smec.com>

Cc: ZADKOVICH Jo <Jo.Zadkovich@des.qld.gov.au>

Subject: FW: Meeting to discuss Borumba Pumped Hydro Energy Storage (PHES) Project

Hi Jon

Could you suggest a couple of suitable dates/times either late next week or the week after?

If you are on Teams this may be the most efficient approach as we have staff in both Brisbane and Maroochydore that will need to be involved. Otherwise Maroochydore will be the best meeting place.

Kind Regards

Anthony Ross
Principal Ranger, Technical Support
South East Queensland Region | Queensland Parks & Wildlife Service and Partnerships
Department of Environment and Science
.....
M [Personal info](#) or [Chat with me on Teams](#)
Mike Ahern Centre Lvl 6, 12 First Ave, MAROOCHYDORE QLD 4558
61 Bunya Street, MALENY QLD 4552

From: Jon ALEXANDER <Jon.Alexander@smec.com>
Sent: Tuesday, 19 October 2021 1:10 PM
To: HOFFMAN Andrew
Cc: Leon BEYLEVELD
Subject: Meeting to discuss Borumba Pumped Hydro Energy Storage (PHES) Project

Hi Andrew,

Thanks for your time last week.

As discussed we are looking to arrange a meeting to allow us to introduce the relevant people within your department to the Borumba PHES project and to discuss approval requirements for undertaking geotechnical investigative works within Conondale National Park. I will not attempt to outline all the project elements in this email but by way of very brief summary. Borumba Pumped Hydroelectric Energy Storage (PHES) project is a 1,000 MW pumped hydropower scheme with 24 hours of generation storage available. It is an integrated energy and water security brownfield development encompassing the existing Borumba Dam as a lower reservoir.

The site was identified as a preferred site for pumped hydro with numerous studies undertaken, including a concept study completed in May 2020. To support the development of a pumped hydro facility at Borumba, front end engineering design (FEED) and detailed project analysis is required to progress the project.

Part of this detailed project analysis would involve geotechnical investigative works, some of which would need to occur in Conondale NP. It should be noted these are short term investigative works and no permanent infrastructure is required or proposed.

Items we would include on a potential agenda include (but are not limited to):

- Introduction to the propose project
- Context of the current stage of works
- Details of works which would require access to the National Park
- Approval requirements for those works to proceed
- Stakeholder relationships (QPWS is seen as key stakeholder in the wider project)

If you have any items you would like to see included in the meeting agenda please feel free to let me know.

You mentioned that QPWS staff from the region and QPWS Land tenure staff would be appropriate to attend. We are hoping to have this meeting within the next two weeks, so if you are able to coordinate with the relevant people and propose some times which suit, we will try and lock it in.

Thanks for your assistance with this. If you have any queries please don't hesitate to get in touch.

Best regards,

Jon Alexander
Principal Ecologist
M [Personal info](#) +61 7 5578 0250 E Jon.Alexander@smec.com
832 Southport-Nerang Rd, Nerang, QLD, 4211, Australia
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Date : 8/06/2021 2:21:25 PM

From : "ROSS Anthony"

To : "ZADKOVICH Jo"

Subject : FYI: Borumba/Yabba Links

Attachment : Borumba Dam Pumped Hydro fact sheet.pdf;image007.png;image010.jpg;image003.png;image005.png;

FYI project is progressing and will impact park and forest tenure to a degree. DES was trying to do a deal to get commitments to deliver Yabba Links as a quid pro quo – but not bearing fruit yet.

Strategic Acquisitions and Geoff have been involved. Kabi Kabi is in process of been engaged by Dept Energy

[Borumba hydro to deliver reliable supply and 2000 jobs - Ministerial Media Statements](#)

A



Anthony Ross
A/Principal Ranger – Technical Support
South East Queensland Region | Queensland Parks & Wildlife Service and Partnerships
Department of Environment and Science

M [Personal in](#) or [Chat with me on Teams](#)
Mike Ahern Centre Lvl 6, 12 First Ave, MAROOCHYDORE QLD 4558
61 Bunya Street, MALENY QLD 4552

From: SMYTH Greg <Greg.Smyth@des.qld.gov.au>

Sent: Tuesday, 8 June 2021 11:14 AM

To: KLAASSEN Ben; COLLIN Jennifer; SIGGERY Angela; BRITTINGHAM Geoff; HEAD Damien

Cc: BYRD Ben; ROSS Anthony; CLIFTON Daniel

Subject: FW: Borumba/Yabba Links

Hey Ben and Bosses

Just a heads up - Borumba Dam is going out shortly (Midday) and DoE are proposing to send advice to QCC, NPAQ and SCEC plus to the Claimants for Kabi Kabi.

73(2)Irrelevant

While Yabba Links is not mentioned in the release it points to the DES (National Parks) and Conservation Groups and Traditional Owners as key stakeholders.

DoE have suggested we meet tomorrow to discuss how it has landed with stakeholders.

I imagine Laura (NPAQ) and Narelle (SCEC) may be on the phone to you / us to understand what this means for Yabba Links.

Will keep you all posted if we hear anything.

Regards

Greg



Greg Smyth
Program Coordinator – Strategic Acquisitions
Protected Area Investment | Protected Area Strategy & Investment
Department of Environment and Science

P 07 3330 5056 | M [Personal in](#)
Level 4 400 George St Brisbane QLD 4000 | GPO Box 2454 Brisbane QLD 4001





Borumba Dam Pumped Hydro

The Queensland Government has committed to developing a detailed cost and design analysis for a potential pumped hydro energy storage (PHES) located at Borumba Dam.

Incorporated within the analysis will be a range of studies including geotechnical investigation, engineering design and environmental assessments.

The outcomes of the analysis will be delivered to government to enable the necessary decisions to be made regarding construction of the project.

Site location

Borumba Dam is located approximately 70 km south-west of Noosa in the Sunshine Coast hinterland. Due to its proximity to the high voltage electricity transmission network, the Queensland Government previously identified the site as a possible location for the development of a PHES facility. Powerlink has held the site since the 1980s.

Technical parameters

A PHES at Borumba Dam would be capable of generating up to 1 GW (1,000 MW) at maximum output — equivalent to over 15% of Queensland's average electricity demand.

The PHES would store enough water to be able to deliver this output for 24 hours continuously, making Borumba Dam one of the largest PHES facilities in the world in terms of storage capacity.

Creation of a PHES at Borumba requires a new dam to be constructed above the existing Borumba Dam, and expansion of the existing lower reservoir. Tunnels would link the two dams, to enable water to be pumped from the lower reservoir to the upper reservoir, and for water released from the upper reservoir to drive turbines to generate electricity.

Metric	
Maximum generation	1 GW
Storage duration	24 hours
Energy storage	24 GWh
Height between dams	325 m
Tunnel length	2.6 km
Upper dam volume	31.5 GL

Why are further studies needed?

While Borumba Dam has been identified as a potential site for a new large-scale PHES, further studies are required in order to fully address the feasibility of a project on the site.

Large PHES projects are major investments with expected lives of over 50 years. PHES projects also have the potential to impact the local environment due to the need to build new dams, drill tunnels to connect dams and new transmission lines to connect the PHES to the electricity network.

Over the next two years, a number of detailed studies will be conducted into Borumba Dam to enable the government to decide whether or not to proceed with a PHES at the site.

Studies will include:

Environmental — a decision to proceed with a PHES at Borumba Dam will only be taken once the project has been assessed consistent with the government's environmental principles for PHES. Environmental and social impact studies will assess the proposed PHES and address potential options to minimise and offset the impact of the project.

Geotechnical — geotechnical studies provide certainty on the engineering requirements for tunnels between dams by providing detailed information on the geology at the site along the length of alternative tunnel routes.

Hydrological — hydrological studies will address issues associated with water. This will provide detailed assessment of sources of water for initial filling of the PHES, impact on other water users, and the impact of climate change on the PHES.

Engineering design — engineering design studies will include dam construction, tunnel design, pump and turbine selection and connection to the electricity network.

Financial — once all the various studies have been compiled, more accurate estimates of the expected total cost of the project will be developed. Financial assessment will enable the Queensland Government to maximise the economic benefits to the state if it decides to proceed with a project at Borumba Dam.

Implementation partner

The government has selected Powerlink to manage the next phase of work to complete the additional studies.

Powerlink is well placed as implementation partner due to their understanding of the electricity system and market, and their experience with developing large infrastructure projects.

Public consultation

Consistent with its environmental principles, the government is committed to transparent and regular engagement with stakeholders when assessing potential PHES projects.

Powerlink will engage formally with stakeholders in the process of undertaking detailed cost and design analysis at Borumba Dam.

More broadly, the government welcomes community and stakeholder feedback at any stage of the project. Email contact: QRET@dnrme.qld.gov.au in the first instance.



Date : 25/02/2022 10:13:57 AM
From : "Anthony Ross"
To : "Alison Haycock"
Cc : "Jo Zadkovich"
Subject : FW: Boromba PHES project
Attachment : 30032677-SKT-001.pdf;30032677-SKT-002.pdf;Photo 5.JPG;Photo 2.JPG;image001.png;image002.png;image003.png;image004.png;image005.png;

Hi Alison

FYI - see below and attached.

I have tried calling Jon because what is provided is fairly ambiguous—the images show much of the set up on scaffolding – but the diagrams show most on ground/cuttings with a helipad clearing in addition! The diagrams are now showing something like a 60m x 40m impact area (as opposed to the earlier 15 x 15m, then 30 x 30m).

There is quite a bit of gear associated with the activity – but no doubt you already knew that!

I will see what further info I can get from Jon and will ask him to set out further details in writing....

Thanks

A

From: Jon ALEXANDER <Jon.Alexander@smec.com>
Sent: Friday, 25 February 2022 9:47 AM
To: Anthony Ross
Cc: Leon BEYLEVELD; GWYNNE Chris (Powerlink); EVANS Chris (Powerlink); Anna WEST; Jo Zadkovich; Chloe Gosling
Subject: Boromba PHES project

Hi Anthony,

I have attached, for information purposes, some indicative plans of what the layout of a “heli-rig” geotechnical site might look like. I have also attached a couple of photos of one of these sites in use in an isolated area. There are many options for adapting these setups to suit specific site conditions and minimise potential impacts, for example in the photos you will note that much of drill rig setup is on scaffolding rather than on an excavated pad, with a subsequent reduction in vegetation and ground disturbance.

I am aware that discussion regarding the approvals pathway for these works are ongoing and have a level of complexity to them. However, I thought it would be helpful to have a clearer picture of what may be possible in relation to these proposed works.

If you have any queries regarding this information or require anything additional to further inform future discussions don't hesitate to contact myself or Leon Beyleveld directly.

Best regards,

Jon Alexander

Principal Ecologist

M (6) Personal info +61 7 5578 0250 E Jon.Alexander@smec.com

832 Southport-Nerang Rd, Nerang, QLD, 4211, Australia

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Date : 10/02/2022 8:09:27 AM

From : "Jo Zadkovich"

To : "Anthony Ross"

Cc : "Justin Enslin"

Subject : RE: Borumba tasks and responsibilities

Attachment : image001.png;image004.png;image003.png;image006.png;

Thanks Anthony. The bit highlighted was what I was concerned about – we get them to lodge for a resource permit then change the game on them once Alison and Todd thrash it all out.

I think having you as the single point of contact for the region is great – thank-you. And yep I am happy for you to advise Jon to lodge the resource permit application and we will check it all out and let you know if we need more info.

Thanks and talk soon.

Jo



Jo Zadkovich

Assistant Principal Ranger – Planning, Assessments & Biodiversity

Technical Support | SEQR | QPWS & Partnerships

Department of Environment and Science

M | Personal |

Level 6, 12 First Avenue, Maroochydore QLD 4558



[Chat with me on Teams](#)

From: Anthony Ross <Anthony.Ross@des.qld.gov.au>

Sent: Wednesday, 9 February 2022 4:57 PM

To: Jo Zadkovich

Cc: Justin Enslin

Subject: Borumba tasks and responsibilities

Hi Jo

Spoke to Alison late this arvo re Borumba and we agreed:

- MP&E will lead development of authority pathway options for both exploratory/drilling works and the bigger project implementation – including briefing up on options and solutions
- Alison will make contact with the proponent and Crown Law to prompt a meeting to discuss legal matters such as ‘management principles’ under NCA, ‘public works’ under NT, ‘service facilities’ under NCA
- In the interim we will accept a Resources Permit application form from proponent (so in theory they have a ‘properly made’ application) – but we will **caveat saying that the authorisation pathway may change**
- Proponent has provide package 1 info and we are awaiting package 2 (schematics for pad etc) by end of week
- Alison indicated that MP&E may have been working on a draft ‘assessment form’ for Resource Permits (like we have for PTUKI) – Alison to advise but in the interim we would do a ‘freeform’ assessment against usual headings and later tailor to need
- Alison advised a new EMP template/guide is being developed...but don’t think ready. We will simply need to see what proponent gives us this week and request extra as needed.
- We have communicated Gurra Gurra implications to proponent over and above NT issues

Let me know if further clarification needed

I can advise Jon Alexandra to put the RP application in? Do you want me to become proponent contact point for project given way things are going...no probs with your team’s ability but thinking best to streamline contacts at this point?

ta

A



Anthony Ross

Principal Ranger, Technical Support

South East Queensland Region | Queensland Parks & Wildlife Service and Partnerships

Department of Environment and Science

M | Personal | or [Chat with me on Teams](#)

Mike Ahern Centre Lvl 6, 12 First Ave, MAROOCHYDORE QLD 4558

Date : 2/02/2022 7:57:34 AM

From : "Jo Zadkovich"

To : "Jon ALEXANDER" , "Chloe Gosling"

Cc : "Anthony Ross"

Subject : RE: Borumba update

Attachment :

image001.png;image009.png;image011.png;image012.png;image013.png;image014.png;image015.png;image003.png;image004.png;

Hi Jon,

I recommend holding off submitting anything to the department just yet – I believe there is a meeting happening today between the State departments to discuss permit and other legislative requirements.

Once we have a clearer idea of the full scope of works / requirements we can then appropriately advise on the authorisation process. Our policy and legislation team are discussing options with the project team and our Executive to determine what is permissible under the current legislation.

In any case, as you have touched on, we would require Native Title and Cultural Heritage issues to be resolved before we could appropriately assess and issue any authorisations – details of how this has been addressed/resolved should be included in any permit applications.

Regards,

Jo



Jo Zadkovich

Assistant Principal Ranger – Planning, Assessments & Biodiversity

Technical Support | SEQR | QPWS & Partnerships

Department of Environment and Science

M Personal info

Level 6, 12 First Avenue, Maroochydore QLD 4558

[Chat with me on Teams](#)

From: Jon ALEXANDER <Jon.Alexander@smec.com>

Sent: Tuesday, 1 February 2022 1:53 PM

To: Chloe Gosling

Cc: Jo Zadkovich

Subject: RE: Borumba update

Hi Chloe,

As you may be aware the CH clearances for the geotech locations associated with the Borumba project have stalled while a pathway forward regarding Native Title is sorted out with the Traditional owners. There is a current commitment to provide Native Title advice to the Kabi Kabi this month but I am a bit removed from that process (although I think we are both in a meeting about this tomorrow). I am not sure how long this aspect will take to resolve, so in the interests of keeping the ball rolling with regard to the National Park and State Forest access permits, I was wondering if there was value in submitting the resource permit application to you in the next week or so, with a view to you reviewing that information and us getting any non-Cultural heritage and Native Title issues sorted, while we wait for that side of things to be resolved.

If you think this approach would be worthwhile, let me know and I will get the Resource Permit information to you shortly.

Also I have not forgotten the map discussed in the email below, but our project GIS person has been away and the data has not been imported yet. I will send it on ASAP.

Best regards,

Jon Alexander

Principal Ecologist

M Personal info +61 7 5578 0250 E Jon.Alexander@smec.com

832 Southport-Nerang Rd, Nerang, QLD, 4211, Australia

From: Chloe Gosling <Chloe.Gosling@des.qld.gov.au>

Sent: Tuesday, 25 January 2022 9:07 AM

To: Jon ALEXANDER <Jon.Alexander@smec.com>

Cc: Jo Zadkovich <Jo.Zadkovich@des.qld.gov.au>

Subject: RE: Borumba update

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Thanks Jon – a map with those locations would be great. We would need to ensure there is adequate protection of any EVNT's for the proposed works.

SMC will need to obtain Cultural Heritage clearance and resolve Native Title constraints with Kabi Kabi First Nations People for the permit. It

was my understanding that SMEC was already having discussions with Kabi Kabi?

Regards



Chloe Gosling
Senior Ranger, Estate Management | South East Queensland
Queensland Parks and Wildlife Service & Partnerships
Department of Environment and Science

M Personal in
Level 6, 12 First Avenue
MAROOCHYDORE QLD 4558

From: Jon ALEXANDER <Jon.Alexander@smec.com>
Sent: Monday, 24 January 2022 4:14 PM
To: Chloe Gosling
Subject: Borumba update

Hi Chloe,

Just an update on last weeks field trip to inspect the prospective sites in Conondale NP. The team walked into TR01 and TR02. The proposed location of both sites was altered slightly to reduce possible impacts. More detailed investigations of the immediate surrounding area will follow shortly.

Of interest to you in the short term, we did locate a couple of threatened species. We had two sightings of Koala (both outside the park) and a single specimen of slender milkvine (*Leichhardtia (Mardensia) coronata*) on the ridgeline where the geotech sites would be located but approximately 200m from the nearest site. Obviously no sample was taken but our ecologist who undertook the site inspection is familiar with the slender milkvine and was confident of the identification.

I have attached a shape file of the locations of the sightings FYI.

On another note, with regard to the Cultural Heritage component of the resource permit application. Is the expectation that the sites will have received cultural heritage clearance from the traditional owners or is a site inspection by a qualified specialist consultant acceptable for the purposes of the resource permit.

Best regards,

Jon Alexander
Principal Ecologist
M [+61 7 5578 0250](tel:+61755780250) E Jon.Alexander@smec.com
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Date : 25/10/2021 8:40:41 AM

From : "Jo Zadkovich"

To : "Jon ALEXANDER" , "ROSS Anthony"

Cc : "Leon BEYLEVELD" , "Rebecca POWLETT"

Subject : RE: Meeting to discuss Borumba Pumped Hydro Energy Storage (PHES) Project

Attachment :

image001.png;image003.png;image004.png;image005.png;image006.png;image007.png;image009.png;image008.png;image011.png;

Hi Jon,

Thank-you for the response below.

Monday 1st November works best for the majority of DES staff who should attend this TEAMS meeting with Anthony and myself. 11.30am – 12.30pm seems to be the best time slot.

I will forward on the meeting invite to the other DES staff members when it comes through.

Thanks and talk soon.

Jo



Jo Zadkovich

Acting Assistant Principal Ranger – Planning & Resilience

Technical Support | SEQ Region | QPWS & Partnerships

Department of Environment and Science

M Personal info

Level 6, 12 First Avenue, Maroochydore QLD 4558

[Chat with me on Teams](#)

From: Jon ALEXANDER <Jon.Alexander@smec.com>

Sent: Thursday, 21 October 2021 5:22 PM

To: ROSS Anthony

Cc: ZADKOVICH Jo; Leon BEYLEVELD; Rebecca POWLETT

Subject: RE: Meeting to discuss Borumba Pumped Hydro Energy Storage (PHES) Project

Hi Ross,

I am anticipating that we can cover most of the key things in this initial meeting in about an hour.

In which case, how would the following work for your team:

Thursday Oct 28th – between 12 to 2pm

Monday Nov 1st – Anytime between 11am – 2pm

Thursday Nov 4th – between 12 and 2pm

We would probably do this via Teams given the geographic scatter of the likely participants.

What we are hoping to cover in the meeting is:

- Introduction to the propose project
- Context of the current stage of works
- Details of works which would require access to the National Park
- Approval requirements for those works to proceed
- Stakeholder relationships (QPWS is seen as key stakeholder in the wider project)

If you have any items you would like to see included in the meeting agenda please feel free to let me know.

Best regards,

Jon Alexander

Principal Ecologist

M Personal info +61 7 5578 0250 E Jon.Alexander@smec.com

832 Southport-Nerang Rd, Nerang, QLD, 4211, Australia

From: ROSS Anthony <Anthony.Ross@des.qld.gov.au>

Sent: Thursday, 21 October 2021 8:55 AM

To: Jon ALEXANDER <Jon.Alexander@smec.com>

Cc: ZADKOVICH Jo <Jo.Zadkovich@des.qld.gov.au>

Subject: FW: Meeting to discuss Borumba Pumped Hydro Energy Storage (PHES) Project

Hi Jon

Could you suggest a couple of suitable dates/times either late next week or the week after?

If you are on Teams this may be the most efficient approach as we have staff in both Brisbane and Maroochydore that will need to be involved. Otherwise Maroochydore will be the best meeting place.

Kind Regards



Anthony Ross
Principal Ranger, Technical Support
South East Queensland Region | Queensland Parks & Wildlife Service and Partnerships
Department of Environment and Science

M Personal info or Chat with me on Teams
Mike Ahern Centre Lvl 6, 12 First Ave, MAROOCHYDORE QLD 4558
61 Bunya Street, MALENY QLD 4552

From: Jon ALEXANDER <Jon.Alexander@smec.com>
Sent: Tuesday, 19 October 2021 1:10 PM
To: HOFFMAN Andrew
Cc: Leon BEYLEVELD
Subject: Meeting to discuss Borumba Pumped Hydro Energy Storage (PHES) Project

Hi Andrew,

Thanks for your time last week.

As discussed we are looking to arrange a meeting to allow us to introduce the relevant people within your department to the Borumba PHES project and to discuss approval requirements for undertaking geotechnical investigative works within Conondale National Park. I will not attempt to outline all the project elements in this email but by way of very brief summary. Borumba Pumped Hydroelectric Energy Storage (PHES) project is a 1,000 MW pumped hydropower scheme with 24 hours of generation storage available. It is an integrated energy and water security brownfield development encompassing the existing Borumba Dam as a lower reservoir.

The site was identified as a preferred site for pumped hydro with numerous studies undertaken, including a concept study completed in May 2020. To support the development of a pumped hydro facility at Borumba, front end engineering design (FEED) and detailed project analysis is required to progress the project.

Part of this detailed project analysis would involve geotechnical investigative works, some of which would need to occur in Conondale NP. It should be noted these are short term investigative works and no permanent infrastructure is required or proposed.

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If you have any items you would like to see included in the meeting agenda please feel free to let me know.

You mentioned that QPWS staff from the region and QPWS Land tenure staff would be appropriate to attend. We are hoping to have this meeting within the next two weeks, so if you are able to coordinate with the relevant people and propose some times which suit, we will try and lock it in.

Thanks for your assistance with this. If you have any queries please don't hesitate to get in touch.

Best regards,

Jon Alexander
Principal Ecologist
M Personal info T +61 7 5578 0250 E Jon.Alexander@smec.com
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Date : 25/10/2021 1:54:24 PM

From : "Jo Zadkovich"

To : "Corro QPWS Southern SEQR"

Subject : RE: Meeting to discuss Borumba Pumped Hydro Energy Storage (PHES) Project

Attachment : image006.png;image009.png;image010.png;image011.png;image012.png;image013.png;image001.png;

Hi Sue,

Yes Sue, it is in progress we are meeting with SMEC (with some other key departmental reps) next week on 1 November.

From: Corro QPWS Southern SEQR <QPWSsouthernSEQR.Corro@des.qld.gov.au>

Sent: Friday, 22 October 2021 4:16 PM

To: ZADKOVICH Jo

Subject: FW: Meeting to discuss Borumba Pumped Hydro Energy Storage (PHES) Project

Hey Jo

Do you know if this is in progress?



Sue West

Administration Officer
South East Queensland Region|QPWS & Partnerships
Department of Environment and Science

P -07 5459 6169 Level 6, 12 First Avenue
MAROOCHYDORE QLD 4558
susan.west@des.qld.gov.au

From: HOFFMAN Andrew <Andrew.Hoffman@des.qld.gov.au>

Sent: Tuesday, 19 October 2021 4:01 PM

To: ROSS Anthony

Cc: Corro QPWS Southern SEQR

Subject: FW: Meeting to discuss Borumba Pumped Hydro Energy Storage (PHES) Project

Hi Anthony

The following refers as previously discussed.

Could your team pls take the lead in arranging the requested meeting, including ID / liaison with suitable QPWS attendees including a rep/s from Tenure team.

thanks

Andrew Hoffman

A/ Regional Director

South East Queensland Region | QPWS & Partnerships

Department of Environment and Science

M [Personal i]

60 Mt Nebo Rd., The Gap, Qld., 4061

www.des.qld.gov.au

From: Jon ALEXANDER <Jon.Alexander@smec.com>

Sent: Tuesday, 19 October 2021 1:10 PM

To: HOFFMAN Andrew

Cc: Leon BEYLEVELD

Subject: Meeting to discuss Borumba Pumped Hydro Energy Storage (PHES) Project

Hi Andrew,

Thanks for your time last week.

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should be noted these are short term investigative works and no permanent infrastructure is required or proposed.

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- Stakeholder relationships (QPWS is seen as key stakeholder in the wider project)

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You mentioned that QPWS staff from the region and QPWS Land tenure staff would be appropriate to attend. We are hoping to have this meeting within the next two weeks, so if you are able to coordinate with the relevant people and propose some times which suit, we will try and lock it in.

Thanks for your assistance with this. If you have any queries please don't hesitate to get in touch.

Best regards,

Jon Alexander

Principal Ecologist

M [6\) Personal info](#) T +61 7 5578 0250 E Jon.Alexander@smec.com

832 Southport-Nerang Rd, Nerang, QLD, 4211, Australia

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Date : 3/11/2021 9:02:49 AM

From : "Jo Zadkovich"

To : "'Jon ALEXANDER'"

Cc : "Leon BEYLEVELD" , "Rebecca POWLETT" , "Anthony Ross" , "Alison Haycock" , "David Woolsey" , "Chloe Gosling"

Subject : RE: Meeting to discuss Borumba Pumped Hydro Energy Storage (PHES) Project

Attachment :

image001.png;image003.png;image004.png;image005.png;image006.png;image007.png;image002.png;image009.png;image010.png;

Hi Jon,

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- The project needs to consider Native Title and Cultural Heritage implications
- SMEC to investigate current permits and advise if a permit is required to access and undertake initial ecological assessments on the State Forest and National Park (PTUKI - <https://www.qld.gov.au/environment/parks/permits/science-education>)
- QPWS to investigate if there is any existing road access points to proposed drill sites and advise SMEC
- QPWS to progress a geotechnical works authority – to do this we require the following from SMEC:
 - Project brief – outlining why it is necessary to undertake the works in the NP/SF - our assessment criteria for infrastructure projects includes , no reasonable practical alternative, in the broader public's interest, ecologically sustainable, consistent with the management principles
 - Drill sites GIS and confirm how flexible you are on site locations/movement
 - Information on the drilling works expected to be undertaken on NP and SF tenure e.g. estimated scale of drill site footprint, including clearing, drilling activities and machinery, spoil management and stockpiles – noting road access to some of the drill sites is highly unlikely
 - An initial Environmental Impact Statement if possible (this can be included in the project brief or as a separate document)
 - Once final details on the scope of works etc is established QPWS require a detailed Environmental Works Plan (considering all impacts and mitigation strategies and site rehabilitation) and Cultural Heritage Management Plan

Future requirements if deemed feasible:

- Revocations (land offsets/compensation etc) of inundated lands (parts of Conondale NP and Yabba SF) – Dave Woolsey will send through some information on revocations
- Infrastructure authorities – noting that the power station is proposed to be on park but underground and that there will be no above ground infrastructure on park – Alison Haycock will be investigating this and will share more information with you

Thanks again, please contact me if you have any questions on the above.

Kind regards,

Jo

Jo Zadkovich

Assistant Principal Ranger – Planning & Resilience

Technical Support | SEQR | QPWS & Partnerships

Department of Environment and Science

M) [Personal id](#)

Level 6, 12 First Avenue, Maroochydore QLD 4558



[Chat with me on Teams](#)

From: Jon ALEXANDER <Jon.Alexander@smec.com>

Sent: Thursday, 21 October 2021 5:22 PM

To: ROSS Anthony

Cc: ZADKOVICH Jo; Leon BEYLEVELD; Rebecca POWLETT

Subject: RE: Meeting to discuss Borumba Pumped Hydro Energy Storage (PHES) Project

Hi Ross,

I am anticipating that we can cover most of the key things in this initial meeting in about an hour.

In which case, how would the following work for your team:

Thursday Oct 28th – between 12 to 2pm

Monday Nov 1st – Anytime between 11am – 2pm

Thursday Nov 4th – between 12 and 2pm

We would probably do this via Teams given the geographic scatter of the likely participants.

What we are hoping to cover in the meeting is:

- Introduction to the propose project

File C

Page 48 of 63

- Context of the current stage of works
- Details of works which would require access to the National Park
- Approval requirements for those works to proceed
- Stakeholder relationships (QPWS is seen as key stakeholder in the wider project)

If you have any items you would like to see included in the meeting agenda please feel free to let me know.

Best regards,

Jon Alexander

Principal Ecologist

M 6) Personal info T +61 7 5578 0250 E Jon.Alexander@smec.com

832 Southport-Nerang Rd, Nerang, QLD, 4211, Australia

From: ROSS Anthony <Anthony.Ross@des.qld.gov.au>

Sent: Thursday, 21 October 2021 8:55 AM

To: Jon ALEXANDER <Jon.Alexander@smec.com>

Cc: ZADKOVICH Jo <Jo.Zadkovich@des.qld.gov.au>

Subject: FW: Meeting to discuss Borumba Pumped Hydro Energy Storage (PHES) Project

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Hi Jon

Could you suggest a couple of suitable dates/times either late next week or the week after?

If you are on Teams this may be the most efficient approach as we have staff in both Brisbane and Maroochydore that will need to be involved. Otherwise Maroochydore will be the best meeting place.

Kind Regards

Anthony Ross

Principal Ranger, Technical Support

South East Queensland Region | Queensland Parks & Wildlife Service and Partnerships

Department of Environment and Science

M) Personal info or [Chat with me on Teams](#)

Mike Ahern Centre Lvl 6, 12 First Ave, MAROOCHYDORE QLD 4558

61 Bunya Street, MALENY QLD 4552

From: Jon ALEXANDER <Jon.Alexander@smec.com>

Sent: Tuesday, 19 October 2021 1:10 PM

To: HOFFMAN Andrew

Cc: Leon BEYLEVELD

Subject: Meeting to discuss Borumba Pumped Hydro Energy Storage (PHES) Project

Hi Andrew,

Thanks for your time last week.

As discussed we are looking to arrange a meeting to allow us to introduce the relevant people within your department to the Borumba PHES project and to discuss approval requirements for undertaking geotechnical investigative works within Conondale National Park.

I will not attempt to outline all the project elements in this email but by way of very brief summary. Borumba Pumped Hydroelectric Energy Storage (PHES) project is a 1,000 MW pumped hydropower scheme with 24 hours of generation storage available. It is an integrated energy and water security brownfield development encompassing the existing Borumba Dam as a lower reservoir.

The site was identified as a preferred site for pumped hydro with numerous studies undertaken, including a concept study completed in May 2020. To support the development of a pumped hydro facility at Borumba, front end engineering design (FEED) and detailed project analysis is required to progress the project.

Part of this detailed project analysis would involve geotechnical investigative works, some of which would need to occur in Conondale NP. It should be noted these are short term investigative works and no permanent infrastructure is required or proposed.

Items we would include on a potential agenda include (but are not limited to):

- Introduction to the propose project
- Context of the current stage of works
- Details of works which would require access to the National Park
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If you have any items you would like to see included in the meeting agenda please feel free to let me know.

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Thanks for your assistance with this. If you have any queries please don't hesitate to get in touch.

Best regards,

Jon Alexander

Principal Ecologist

M  **Personal info** +61 7 5578 0250 E Jon.Alexander@smec.com

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Date : 23/11/2021 11:48:18 AM

From : "Jo Zadkovich"

To : "Chloe Gosling"

Cc : "Paul Harris (Gympie)"

Subject : RE: Meeting to discuss Borumba Pumped Hydro Energy Storage (PHES) Project

Attachment :

image001.png;image007.png;image009.png;image010.png;image011.png;image012.png;image013.png;image002.png;image003.png;image004.png;

Thanks Chloe. I am happy for you to provide the advice direct to SMEC so they can take this into consideration when they do their scouting.

Really glad you guys took the time to go have a look!

From: Chloe Gosling <Chloe.Gosling@des.qld.gov.au>

Sent: Tuesday, 23 November 2021 11:11 AM

To: Jo Zadkovich

Cc: Paul Harris (Gympie)

Subject: FW: Meeting to discuss Borumba Pumped Hydro Energy Storage (PHES) Project

Hi Jo

Paul, Bronwyn and I went and had a look at the proposed Geotech sites on Thursday. We couldn't get to every site, but the below is our findings. I have attached the map supplied by SMEC and also the track we followed which might be useful for SMEC.

- NB05 (NP) – no existing tracks. QPWS drove to fish hatchery proposed site is located is on the other side of the creek downstream of the existing dam. Suggest SMEC contacts Seqwater to see if access across the creek from the camping ground is possible.
- NB06 (SF) – access likely possible. There is an existing track nearby and the forest isn't too thick in this location. Some clearing would be necessary, but until we know what the equipment is it is difficult to tell.
- LP01 (NP) – no known existing track. Given location to water, SMEC could consider transporting equipment via boat/barge.
- TR01 (NP) – no known existing track. Very steep and heavily vegetated. QPWS did not walk to this point.
- PC01 (NP) – access is possible. QPWS drove to "parked vehicle" marked on attached KML and walked in to PC01. QPWS recommends equipment is lifted in by helicopter and daily/regular access for drill rig operators to be via ATV (side by side) vehicles to limit impact the National Park. There appears to be an old snig track (mainly located on Powerlink lands) between parked vehicle pin and "old snig track" pin.
- ET01 (NP) – access will be very difficult. Depending on equipment needed it might not be viable. QPWS did not walk all the way down to the point from PC01.

We have given SMEC email approval to undertake similar investigations via foot, the above information would be useful to them.

For your information and forwarding onto SMEC (or I'm happy to do this if you prefer).

Thanks



Chloe Gosling
Senior Ranger, Estate Management | South East Queensland
Queensland Parks and Wildlife Service & Partnerships
Department of Environment and Science

M Personal if
Level 6, 12 First Avenue
MAROOCHYDORE QLD 4558

From: Jo Zadkovich <Jo.Zadkovich@des.qld.gov.au>

Sent: Wednesday, 3 November 2021 9:03 AM

To: Jon ALEXANDER

Cc: Leon BEYLEVELD; Rebecca POWLETT; Anthony Ross; Alison Haycock; David Woolsey; Chloe Gosling

Subject: RE: Meeting to discuss Borumba Pumped Hydro Energy Storage (PHES) Project

Hi Jon,

Thanks for your time on Monday giving an overview of the project.

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Thanks again, please contact me if you have any questions on the above.

Kind regards,
Jo

Jo Zadkovich

Assistant Principal Ranger – Planning & Resilience
Technical Support | SEQR | QPWS & Partnerships
Department of Environment and Science

M) Personal info
Level 6, 12 First Avenue, Maroochydore QLD 4558

 [Chat with me on Teams](#)

From: Jon ALEXANDER <Jon.Alexander@smec.com>

Sent: Thursday, 21 October 2021 5:22 PM

To: ROSS Anthony

Cc: ZADKOVICH Jo; Leon BEYLEVELD; Rebecca POWLETT

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Best regards,

Jon Alexander

Principal Ecologist

M) Personal info T +61 7 5578 0250 E Jon.Alexander@smec.com

832 Southport-Nerang Rd, Nerang, QLD, 4211, Australia

From: ROSS Anthony <Anthony.Ross@des.qld.gov.au>

Sent: Thursday, 21 October 2021 8:55 AM

To: Jon ALEXANDER <Jon.Alexander@smec.com>

Cc: ZADKOVICH Jo <Jo.Zadkovich@des.qld.gov.au>

Subject: FW: Meeting to discuss Borumba Pumped Hydro Energy Storage (PHES) Project

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Kind Regards



Anthony Ross
Principal Ranger, Technical Support
South East Queensland Region | Queensland Parks & Wildlife Service and Partnerships
Department of Environment and Science
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M Personal | or [Chat with me on Teams](#)
Mike Ahern Centre Lvl 6, 12 First Ave, MAROOCHYDORE QLD 4558
61 Bunya Street, MALENY QLD 4552

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Principal Ecologist
M Personal | or [Chat with me on Teams](#) T +61 7 5578 0250 E Jon.Alexander@smec.com
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Date : 15/11/2021 12:07:09 PM

From : "Alison Haycock"

To : "Kamilla Wyeth"

Cc : "Amanda Gravina"

Subject : Pumped hydro - impact on QPWS lands

Attachment : image001.png;image003.png;

Points for Fiona to raise with Ben

- Dept of Energy and Public Works is currently progressing a pumped hydro strategy for Qld.
- This includes investing \$22 million to progress detailed design for the proposed Borumba Dam pumped hydro project, which impacts Conondale NP and Imbil SF.
- The Borumba Dam proposal involves raising the existing dam wall, constructing a new upper reservoir on Powerlink owned land, and construction of pipes ('penstock'), surge chambers, an underground power station, access tunnels, access tracks, and a potential ventilation shaft under part of the NP. A transmission line running through NP and the SF to link the power station with the existing Powerlink network is also required.
- It will require revocation of some of the NP and SF for the increased dam inundation area, and permits for any infrastructure on/under NP.
- MPEM (Alison H), Tenures, Acquisitions and SEQ Region staff met with SMEC (consultant to Powerlink) on 1 Nov to discuss the proposal, and also SMECs request to do ecological surveys on the NP and SF, and geotechnical drilling on the NP to a depth of 400m by end March 2022.
- DEPW are also shortlisting several more sites for further concept studies and will be recommending these to their Board by end November.
- Jen Collin (PASI), Manda Page (Threatened species) and Alison Haycock (PM) met with DEPW on 19 October, and Jen and Alison attended a shortlisting workshop with EPW and other departments on 21 October about 16 other potential sites. MPEM is providing DEPW with comments on QPWS&P impacts.
- 5 out of DEPWs 6 preferred sites for further investigation also have impacts on QPWS land – see below. As for Borumba, impacts will result from geotechnical works, construction of underground and above ground infrastructure, possible inundation from new/raised reservoirs, and clearing for transmission lines.
- Impacts on native title, First nations cultural heritage, wildlife etc will also be expected.
- An amendment to the NCA will also be required to enable power stations and associated infrastructure constructed underneath NPs to be authorised, as they are not currently captured in the definition of service facilities.

Project	Impacted areas
Tinaroo to Little Mulgrave	Danbulla NP Danbulla SF Danbulla South FR
Cardstone/Koombooloomba	Koombooloomba NP
Ingham	Nil identified
Pioneer Valley	Eungella NP Crediton SF
Proserpine	McCartney SF Cathu SF
Mt Byron	D'Aguilar NP (possible depending on design) Somerset-Wivenhoe Dams NR



Alison Haycock

Team Leader (Resource Industry Projects)

Major Projects and Estate Management, Permissions Management

Queensland Parks and Wildlife Service & Partnerships, Department of Environment and Science

P 07 3199 7617

Level 13, 400 George Street, Brisbane

PO Box 15187, City East, QLD 4002

Date : 1/11/2021 5:15:58 PM

From : "David Woolsey"

To : "Jo Zadkovich" , "Alison Haycock" , "Greg Smyth" , "Anthony Ross" , "Chloe Gosling"

Cc : "Ashley Williams (DES)"

Subject : RE: Borumba Pumped Hydro Energy Storage (PHES) Project

Attachment : image004.png;image005.png;image007.png;image001.png;

Thanks Jo,

I will provide some information to SMEC in the coming days about the revocation process for any impacts that are deemed not compatible with NP/SF tenures.

The proposed inundated areas would likely require revocation and outside of that I would be leaning on your good selves in the region and Alison to determine further areas in need of revocation (where there are no viable alternatives and where the activities cannot be authorised).

Given the large area they had estimated for inundation, the compensation (10:1 for NP, 5:1 for SF) could be fairly significant.

Cheers

Dave



David Woolsey
A/Program Coordinator - Tenure Services
Park Services | Queensland Parks and Wildlife Service and Partnerships
Department of Environment and Science

Ph. 07 3330 5333
Level 5, 400 George St, Brisbane Qld 4000
PO Box 15187, City East QLD 4002

From: Jo Zadkovich <Jo.Zadkovich@des.qld.gov.au>

Sent: Monday, 1 November 2021 4:29 PM

To: David Woolsey; Alison Haycock; Greg Smyth; Anthony Ross; Chloe Gosling

Cc: Ashley Williams (DES)

Subject: Borumba Pumped Hydro Energy Storage (PHES) Project

Hi all,

It was good to get an overview from SMEC today. Sounds like we are aiming for March 2022 to have the initial feasibility authorities and arrangements sorted for SMEC.

Apologies, I am still a little unclear on who is doing what, however, thought it would be beneficial to briefly summarise what needs to happen. Please add to this if I left off anything important.

Initial feasibility:

- Investigate Native Title implications and advise ASAP if ILUA is required for geotechnical authority
- Investigate access authorities and potentially PTUKI if interference / ecological surveying is required
- Investigate if there is any existing road access points to proposed drill sites (QPWS to advise SMEC)
- Investigate geotechnical works authority (based on mining templates etc) and obtain the following from SMEC:
 - Drill sites GIS and confirm how flexible they are on site locations/movement (I think 50m either way of the identified location was mentioned)
 - Information on the drilling works expected to be undertaken on NP and SF tenure e.g. scale of drill site footprint, including clearing, drilling activities and machinery, spoil management and stockpiles – noting road access to some of the drill sites is highly unlikely, chopper likely the only way to get to there
 - An initial Environmental Impact Statement if possible – plus once they have more details on the scope of works etc a detailed Environmental Works Plan (considering all impacts and mitigation strategies and site rehabilitation) and Cultural Heritage Management Plan

Future requirements if feasible:

- Revocations (land offsets/compensation etc) of inundated lands (parts of Conondale NP and Yabba SF)
- Infrastructure authorities (can this infrastructure be authorised under NCA and FA or does it require leg changes?). Power station proposed to be on park but underground. No above ground infrastructure on park.

Thanks and talk soon.

Jo



Jo Zadkovich

Assistant Principal Ranger – Planning & Resilience

Technical Support | SEQR | QPWS & Partnerships

Department of Environment and Science

M) Personal in

Level 6, 12 First Avenue, Maroochydore QLD 4558

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Date : 25/02/2022 10:13:57 AM
From : "Anthony Ross"
To : "Alison Haycock"
Cc : "Jo Zadkovich"
Subject : FW: Boromba PHES project
Attachment : 30032677-SKT-001.pdf;30032677-SKT-002.pdf;Photo 5.JPG;Photo 2.JPG;image001.png;image002.png;image003.png;image004.png;image005.png;

Hi Alison

FYI - see below and attached.

I have tried calling Jon because what is provided is fairly ambiguous—the images show much of the set up on scaffolding – but the diagrams show most on ground/cuttings with a helipad clearing in addition! The diagrams are now showing something like a 60m x 40m impact area (as opposed to the earlier 15 x 15m, then 30 x 30m).

There is quite a bit of gear associated with the activity – but no doubt you already knew that!

I will see what further info I can get from Jon and will ask him to set out further details in writing....

Thanks

A

From: Jon ALEXANDER <Jon.Alexander@smec.com>
Sent: Friday, 25 February 2022 9:47 AM
To: Anthony Ross
Cc: Leon BEYLEVELD; GWYNNE Chris (Powerlink); EVANS Chris (Powerlink); Anna WEST; Jo Zadkovich; Chloe Gosling
Subject: Boromba PHES project

Hi Anthony,

I have attached, for information purposes, some indicative plans of what the layout of a “heli-rig” geotechnical site might look like. I have also attached a couple of photos of one of these sites in use in an isolated area. There are many options for adapting these setups to suit specific site conditions and minimise potential impacts, for example in the photos you will note that much of drill rig setup is on scaffolding rather than on an excavated pad, with a subsequent reduction in vegetation and ground disturbance.

I am aware that discussion regarding the approvals pathway for these works are ongoing and have a level of complexity to them. However, I thought it would be helpful to have a clearer picture of what may be possible in relation to these proposed works.

If you have any queries regarding this information or require anything additional to further inform future discussions don't hesitate to contact myself or Leon Beyleveld directly.

Best regards,

Jon Alexander

Principal Ecologist

M [6](tel:+61755780250) Personal info +61 7 5578 0250 E Jon.Alexander@smec.com

832 Southport-Nerang Rd, Nerang, QLD, 4211, Australia

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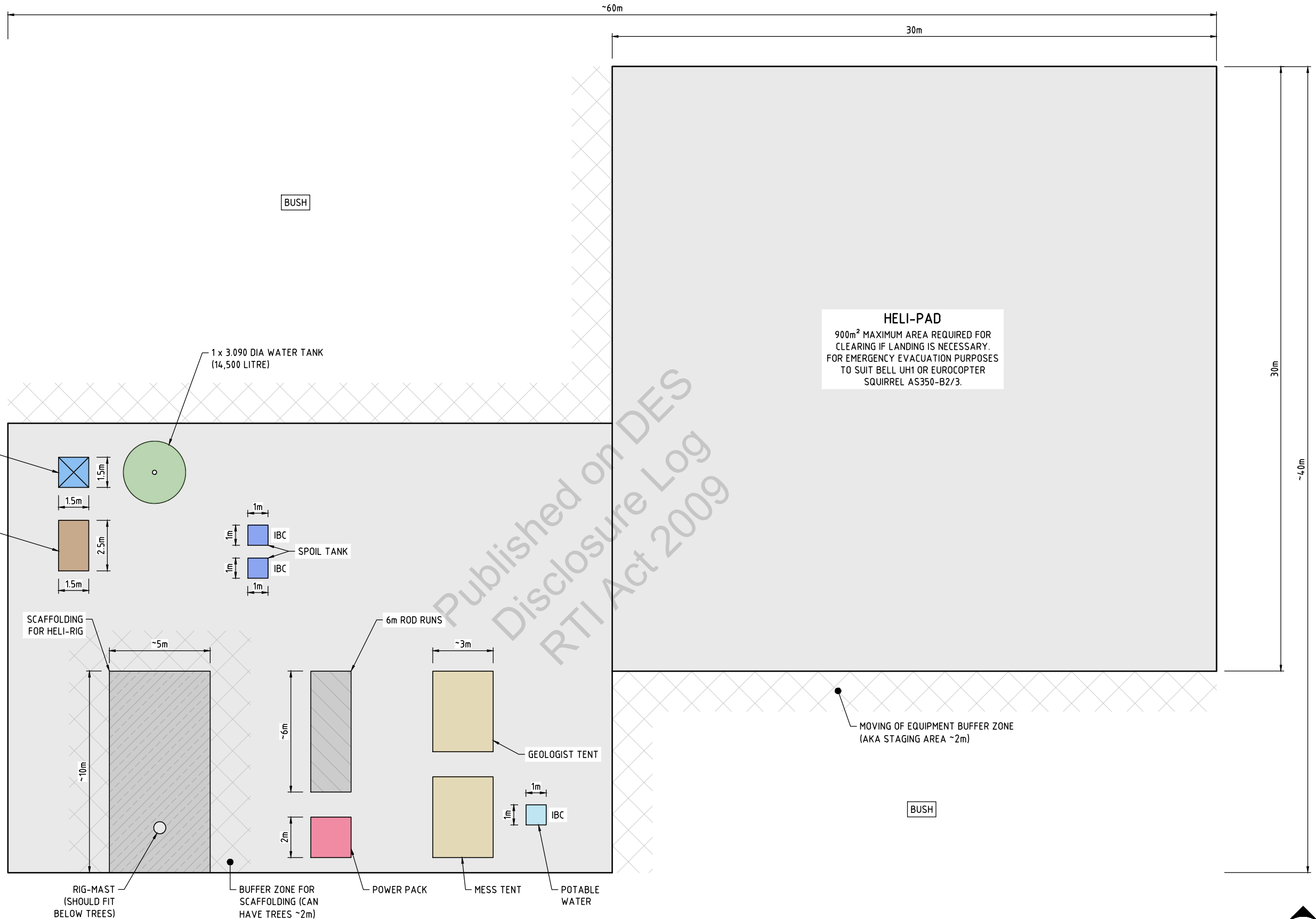
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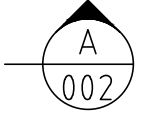
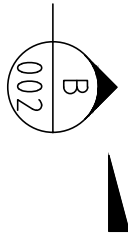
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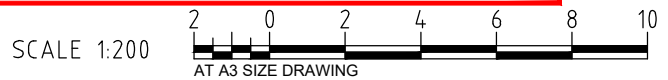
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HELI-PAD
 900m² MAXIMUM AREA REQUIRED FOR CLEARING IF LANDING IS NECESSARY. FOR EMERGENCY EVACUATION PURPOSES TO SUIT BELL UH1 OR EUROCOPTER SQUIRREL AS350-B2/3.



NOT FOR CONSTRUCTION



**BORUMBA DAM
 HELI-RIG AREA LAYOUT**

File C

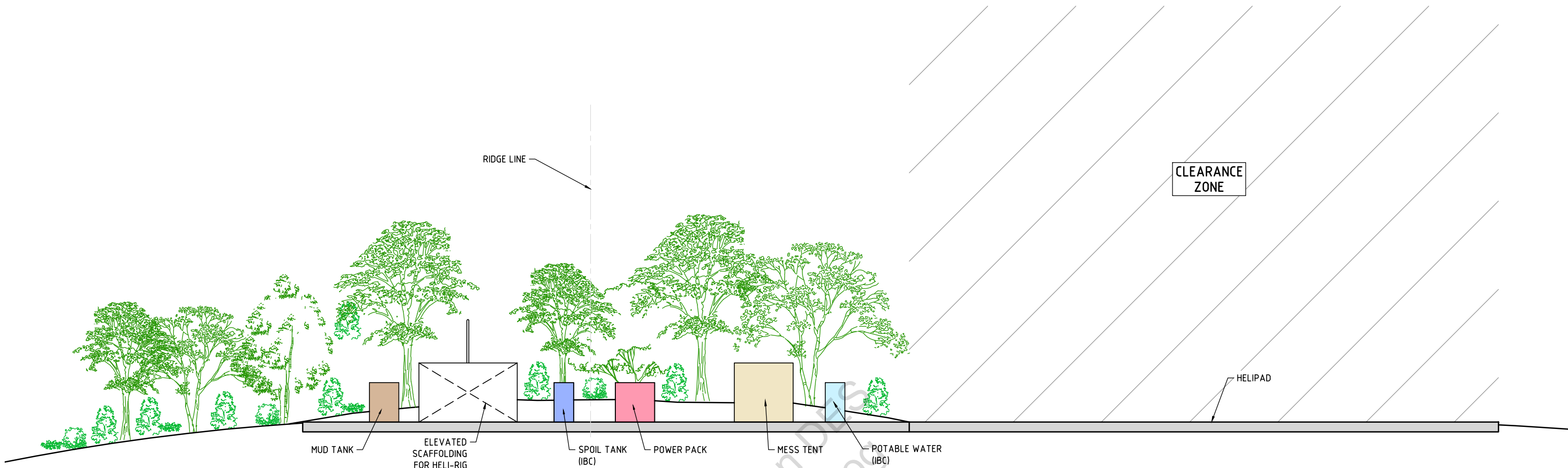
INFORMATION DOCUMENT

30032677-SKT-001

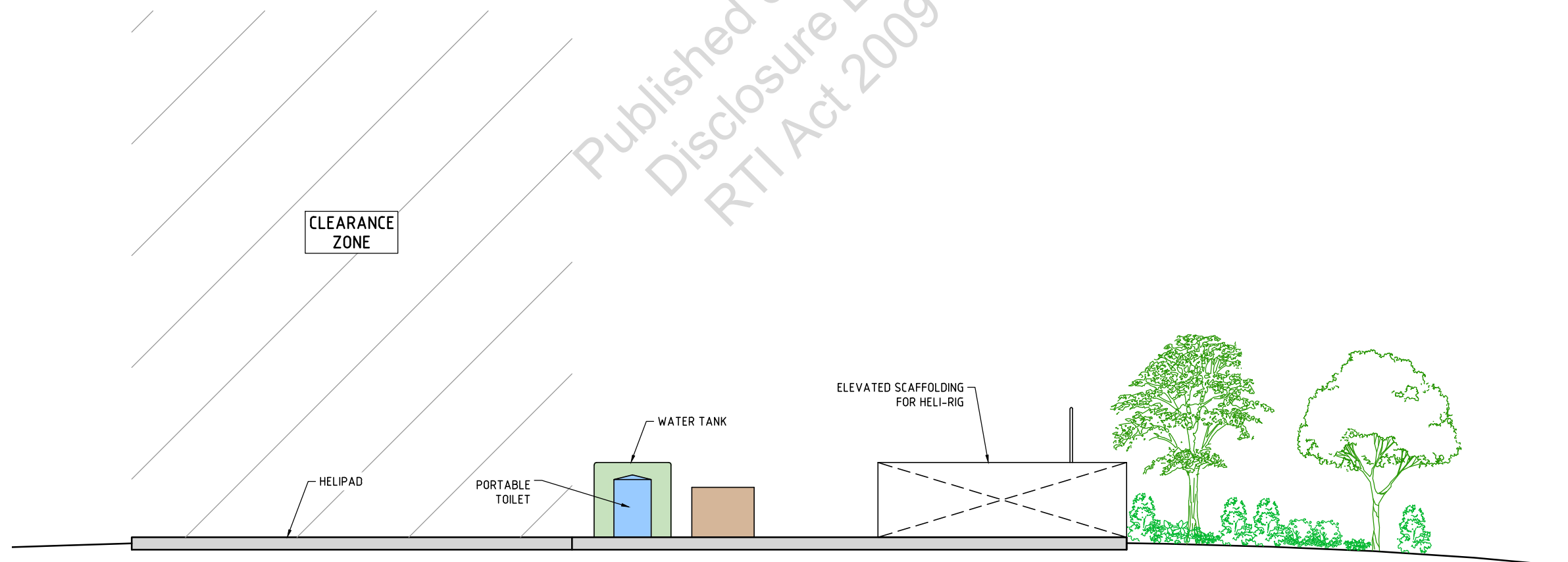


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ELEVATION A



ELEVATION B

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SCALE: NTS

**BORUMBA DAM
HELI-RIG AREA ELEVATIONS**

INFORMATION DOCUMENT

30032677-SKT-002





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Date : 9/02/2022 8:56:09 AM
From : "Anthony Ross"
To : "Jo Zadkovich" , "Alison Haycock"
Cc : "Justin Enslin"
Subject : FW: Borumba PHES Project
Attachment : BPHES QPWS Geotechnical site information..doc;image001.png;image002.png;image003.png;image004.png;image005.png;image006.png;image007.png;

FYI a bit more location and eco info on sites for test drilling for Borumba project – but still awaiting schematics to understand scale of impact, cut and fill pad etc. They have confirmed in this that no access tracks will be cut/used to access sites.

Notes that an EMP also to come

A



Anthony Ross
Principal Ranger, Technical Support
South East Queensland Region | Queensland Parks & Wildlife Service and Partnerships
Department of Environment and Science
M Personal [in](#) or [Chat with me on Teams](#)
Mike Ahern Centre Lvl 6, 12 First Ave, MAROOCHYDORE QLD 4558

From: Jon ALEXANDER <Jon.Alexander@smec.com>
Sent: Tuesday, 8 February 2022 8:17 PM
To: Anthony Ross
Cc: Leon BEYLEVELD; Julius Frangos
Subject: Borumba PHES Project

Hi Anthony,

As discussed at the meeting last week, here is the first package of information regarding the geotechnical investigation site proposed for within Conondale National Park and Imbil State forest. This package is largely background information regarding what is proposed and the results of preliminary investigations of the sites, which hopefully will assist QPWS in its assessment of what the most appropriate approval pathway is.

A second package of information including plans of what the sites may look like, additional information regarding access options and details of the equipment likely to be involved will be available later in the week.

In the mean time if you have any queries regarding the proposed works, or think of other information that would be of assistance, please don't hesitate to contact myself or Leon Beyleveld directly.

Best Regards,

Jon Alexander
Principal Ecologist
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