

Date : 3/12/2021 8:37:16 AM

From : "Anthony Ross"

To : "Greg Smyth"

Cc : "Nat Smith" , "Nick Weinert" , "Alison Haycock" , "Andrew Hoffman" , "Jo Zadkovich"

Subject : FW: Invitation to Borumba Pumped Hydro Project stakeholder workshop

Attachment :

image003.png;image004.png;image005.png;image006.png;image007.jpg;image008.png;image010.jpg;image011.jpg;image012.jpg;image013.jpg;image009.png;image014.png;

Hi Greg and all

Not too much to report from attending the Borumba Dam stakeholder workshop yesterday in Gympie

- Dominant focus was on water use, water allocations, environmental flows, competing interests for water vs hydro use, how project was integrating with Mary River catchment planning
- Reps from Mary River CCG (Ian Mackay), Scec (Narelle M), and Ian Stebhens raised (from floor of greater meeting) the Yabba Links matter in context of offsets/compensation—stating that Yabba Links was a pre-existing commitment by government and that any offsets due to Borumba should be somewhat 'over and above' Yabba Links commitments (Powerlink and Dept Energy reps appeared to have little /no knowledge of Yabba Links)
- A number of participants advocated on behalf of Kabi Kabi interests (no Kabi present)
- Issues raised associated with national parks and State forest included impact of drilling and dam raising and introduction (top reservoir) on groundwater and surface water in NP (eg consultants acknowledged that there could be a risk of 'water inflow' from construction of underground pipes and changes in groundwater and surface water levels to area of park above pipes and edge of dam to park)
- Issue flagged included ecological fragmentation (including of SF and NP) by significant extent of powerlines (noting 2 x proposed powerline corridors emanating from new power station and feeding 2 substations – one to north and one to west)
- Also fragmentation of ecological landscape-level links between NP and Powerlink lands due to construction of new top reservoir (significant barrier to fauna movement in this area)
- Some concerns raised about noise and vibration impacts from underground power station
- Rock wallaby and quoll habitat raised as key fauna concerns (apparently historical presence of wallaby)
- Socio-economic discussions touched on ecotourism/recreation potential of area being one of few long lasting benefits locally
- Some discussion of upgrading and sealing existign forestry roads to support access construction as well as future scenic driving routes

I had a chat to some of above reps in breaks and offered some assurances around Yabba Links commitments

Cheers



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
61 Bunya Street, MALENY QLD 4552

From: REILLY Gerard (Powerlink) <greilly@powerlink.com.au>

Sent: Tuesday, 23 November 2021 1:48 PM

To: Anthony Ross; Borumba Project Team

Subject: RE: Invitation to Borumba Pumped Hydro Project stakeholder workshop

Hi Anthony,

Thanks for the RSVP.

The structure of the day at a high level is an overarching presentation to give background and context. Have morning tea, then in tables talk through four key areas to gain insights to help shape studies over the coming months.

The four areas are:

1. Hydrology
2. Engineering and dam infrastructure
3. Environment
4. Socio-economic.

The presentations will be made by either Powerlink reps or our consultants from SMEC. I will be the overarching facilitator on the day. We will also have table hosts to guide the discussions.

We will have name tags, so people will be able to identify the organisation you are representing.

Hope this helps.

Gerard

Gerard Reilly
21-361

File A

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From: Anthony Ross <Anthony.Ross@des.qld.gov.au>
Sent: Tuesday, 23 November 2021 1:37 PM
To: Borumba Project Team <borumba@powerlink.com.au>
Subject: RE: Invitation to Borumba Pumped Hydro Project stakeholder workshop

Hi Chris

I will be attending on behalf of the Queensland Parks and Wildlife Service and Partnerships (Dept Environment and Science).

In regard to govt dept attendees, are you able to provide any further information on expectations or ground rules for the forum etc. For example, will govt reps be identified and expected to take questions from the floor or small groups? If not, how will this be managed by a facilitator.

Just seeking to avoid surprises and be prepared!

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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Mike Ahern Centre Lvl 6, 12 First Ave, MAROOCHYDORE QLD 4558
61 Bunya Street, MALENY QLD 4552

From: Chris Evans <borumba@powerlink.com.au>
Sent: Monday, 22 November 2021 4:31 PM
To: Anthony Ross
Subject: Invitation to Borumba Pumped Hydro Project stakeholder workshop

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Invitation to Borumba Pumped Hydro Project stakeholder workshop

Dear Anthony,

The Queensland Government has committed to unlock renewable investment and to achieve a renewable energy target of 50% by 2030. As part of delivering on this commitment, the Queensland Government and Powerlink are developing and completing detailed analytical studies for a potential pumped hydro project at Borumba Dam. Pumped hydro is flexible, reliable, and complements renewable energy generation such as solar and wind. Its ability to store significant amounts of energy will allow for more renewable generation to enter the market in Queensland.

Several detailed studies will be conducted to enable the Queensland Government to decide whether to proceed with further investment of pumped hydro at the Borumba Dam site. We need stakeholder input to make an informed decision about the Borumba Dam site and the scope of the detailed analytical studies.

We invite you to attend a workshop with other key stakeholders to learn more about the project and provide feedback. Your inputs will help inform the detailed analytical studies. Please note that due to venue capacity based on COVID restrictions we can only extend an invitation to two representatives from your organisation to attend.

Date: Thursday 2 December 2021
Time: 9am to 12pm
Location: Gympie RSL, 217 Mary Street Gympie

To register your attendance, please email borumba@powerlink.com.au by 22 November 2021.

Yours sincerely

Chris Evans

Project Director
Pumped Hydro Developments

[Redacted signature area]

This email was sent by Powerlink Queensland, 33 Harold Street, Virginia, Queensland 4014, Australia to Anthony.Ross@des.qld.gov.au

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[Redacted link area]

[Redacted box]

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Date : 17/11/2021 2:28:56 PM

From : "Chloe Gosling"

To : "Paul Harris (Gympie)" , "Bronwyn McAdam"

Subject : FW: Borumba Dam PHES Geotechnical investigation sites

Attachment :

P30032677_Borumba_Field01_NationalParksSiteVisit.pdf;image001.png;image003.jpg;image004.png;image011.png;image012.png;image013.png;image014.png;image015.png;image002.png;image005.png;image006.png;image017.png;image018.png;

Hi team

Please see attached geo-referenced map for tomorrow.

Cheers



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: Tuesday, 16 November 2021 3:51 PM

To: Chloe Gosling

Subject: RE: Borumba Dam PHES Geotechnical investigation sites

Hi Chloe,

Our GIS folk have whipped this up. Give it a try in Avenza to make sure it works or if you need anything added let me know and I will see if they have time to update before Thurs.

Cheers,

Jon Alexander

Principal Ecologist

M Personal in T +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: Monday, 15 November 2021 1:09 PM

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

Subject: RE: Borumba Dam PHES Geotechnical investigation sites

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Thanks Jon a geo-referenced PDF map would be ideal so we can load it to Avenza. If your GIS folk can include the below layers from Globe it would be appreciated:

- Protected areas and forests
- Protected tracks and trails

Yes, we plan to go out into the field on Thursday. Access will be difficult, but we will certainly try our best to get to the sites.

Thanks



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

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Level 6, 12 First Avenue
MAROOCHYDORE QLD 4558

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

Sent: Monday, 15 November 2021 12:29 PM

To: Chloe Gosling

Subject: RE: Borumba Dam PHES Geotechnical investigation sites

Hi Cloe, 21-361

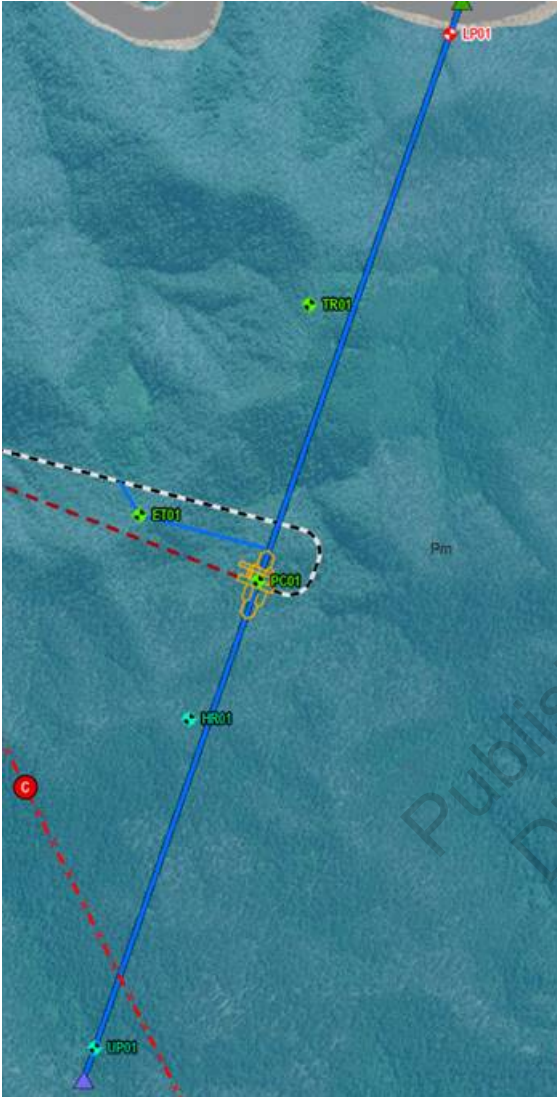
File A

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Were you going to the sites in the field on Thursday? I have spoken to our Geotechs and the geology of the tunnel sites is quite uniform (see screenshot below). Sites TR01, PC01 and ET01 are all within the NP, these have been located to try and capture the geology underlying or immediately adjacent too key project features. So ideally, we would want to keep these as close as possible to the locations shown but as discussed if they need to be moved to avoid clearing/significant habitat or features then we can do this. If for some reason an area was a complete no go for some reason that is important for us to know at this stage.

The other 2 sites of relevance are NB05 (National park) and NB06 (State Forest). Information from these is required to inform the possible construction of a new dam wall, so they need to be fairly close to the locations indicated in the screen shot.

I can get mapping for you to take in the field. Let me know what sort of file type is best (Shape, KML etc etc) our GIS folk can supply it in whatever you need.





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: Chloe Gosling <Chloe.Gosling@des.qld.gov.au>
Sent: Monday, 15 November 2021 11:22 AM
To: Jon ALEXANDER <Jon.Alexander@smec.com>
Subject: RE: Borumba Dam PHES Geotechnical investigation Sites

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Hi Jon

Any luck with the mapping. I'm planning to check out the locations on Thursday and the geo mapping would be very handy. We can certainly access Globe, but we don't have geologists within QPWS, so if you/your staff can provide us with the areas that you think contain the relevant criteria that would be appreciated.

Thanks



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

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MAROOCHYDORE QLD 4558

From: Jon ALEXANDER <Jon.Alexander@smec.com>
Sent: Thursday, 11 November 2021 11:07 AM
To: Chloe Gosling
Subject: RE: Borumba Dam PHES Geotechnical investigation Sites

Hi Chloe,

The geologic information for the area is not very detailed (hence the need for the investigations). We are currently relying on the existing State Government geologic mapping, which I imagine you probably have access to. Currently the National Park geotechnical investigation sites all appear to be within on geologic unit but that mapping may or may not be correct.


Our project GIS is currently playing up, but once that is back up and running I can send you the details.

Thanks for you help with this.

Best regards,

Jon Alexander

Principal Ecologist

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

From: Chloe Gosling <Chloe.Gosling@des.qld.gov.au>
Sent: Thursday, 11 November 2021 9:42 AM
To: Jon ALEXANDER <Jon.Alexander@smec.com>
Subject: RE: Borumba Dam PHES Geotechnical investigation Sites

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Thanks Jon

Is there mapping that you can provide that would show the general area that captures the relevant geologic structures and features? That way, when we go have a look on site we have an area that we can recommend as the most appropriate?

Thanks



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

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From: Jon ALEXANDER <Jon.Alexander@smec.com>
Sent: Monday, 8 November 2021 3:22 PM
To: Chloe Gosling
Cc: Jo Zadkovich
Subject: RE: Borumba Dam PHES Geotechnical investigation Sites

Hi Cloe,

Yes flexibility of that order is usually ok, especially if there is a large area of uniform underlying geology. I would of course need to confirm changes with the Geotechnical engineers.


The critical factor with the Geotech work is that it needs to capture the relevant geologic structures and features ie ones that could lead to problems with the installation or future use of the tunnel, like faults between changes in geology.

If you have any other queries please let me know.

Best regards,

Jon Alexander

Principal Ecologist

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

From: Chloe Gosling <Chloe.Gosling@des.qld.gov.au>
Sent: Monday, 8 November 2021 3:04 PM
To: Jon ALEXANDER <Jon.Alexander@smec.com>
Cc: Jo Zadkovich <Jo.Zadkovich@des.qld.gov.au>
Subject: FW: Borumba Dam PHES Geotechnical investigation Sites

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Hi Jon

Any chance you can confirm flexibility of locations for the Geotech sites?

I recall in the meeting you mentioned 50-100m from the proposed pipeline. Can you please confirm if this is correct, and advise if there is specific features/criteria that is critical for the sites?

Thanks



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

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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
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Date : 10/02/2022 8:42:24 AM

From : "Justin Enslin"

To : "Paul Harris (Gympie)" , "Bronwyn McAdam"

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;image010.png;

Just FYI



Justin Enslin
A/ Principal Ranger | Sunshine Coast Area
South East Queensland Region
Queensland Parks and Wildlife Service & Partnerships
Department of Environment and Science

Mobile: Personal in
Mike Ahern Centre Level 6/12 First Avenue
Maroochydore Qld 4558
www.des.qld.gov.au

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

Sent: Wednesday, 9 February 2022 8:56 AM

To: Jo Zadkovich; Alison Haycock

Cc: Justin Enslin

Subject: FW: Borumba PHES Project

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

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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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Date : 23/11/2021 11:10:51 AM

From : "Chloe Gosling"

To : "Jo Zadkovich"

Cc : "Paul Harris (Gympie)"

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

Attachment :

P30032677_Borumba_Field01_NationalParksSiteVisit.pdf;P30032677_Borumba_Field01_NationalParksSiteVisit.kml;image001.png;image014.png;image016.png;image017.png;image018.png;image019.png;image020.png;image002.png;image003.png;image004.png;

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 |
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.

It sounds like you are aiming to have the necessary approvals to undertake geotechnical investigations by March 2022. Below are some dot points to summarise the discussion around QPWS&P requirements.

Initial feasibility:

- 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 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
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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

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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](#) T +61 7 5578 0250 E Jon.Alexander@smec.com
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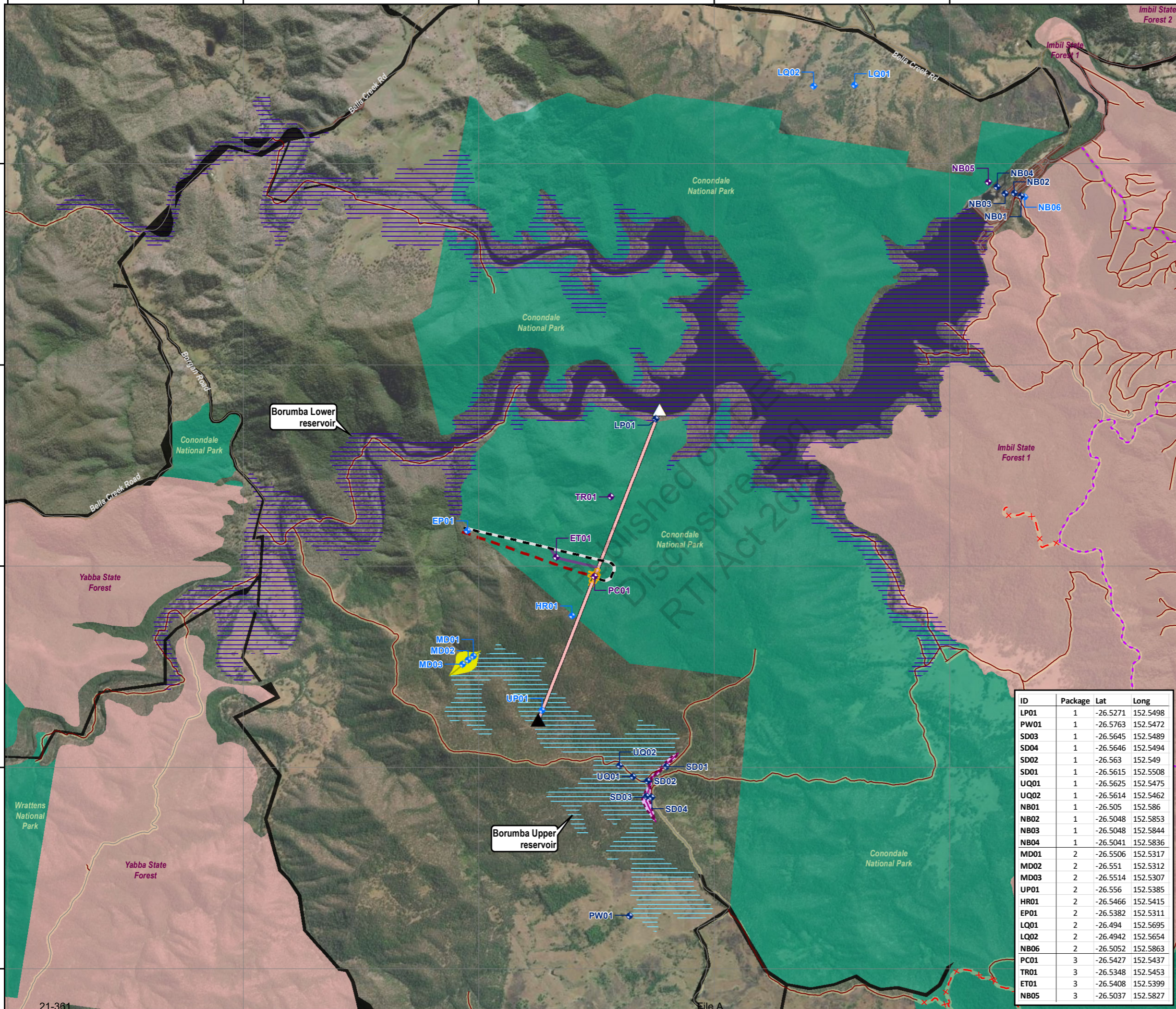
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Powerlink **SMEC**
Member of the Surbana Jurong Group

GDA2020
0 400 800 m
1 cm = 400 m (when printed @ A3)

LEGEND

Proposed Geotechnical Investigation Locations
 Package 1 Package 2 Package 3

QLD Parks and Wildlife Service Access
 Horse trail

by Status and Traffic
 Closed, closed road
 Open, 2wd
 Open, 4wd

by Material / Surface
 Natural
 Paved
 Sealed fit for purpose

Protected Areas (by Estate Type)
 National Park
 State Forest

Site Layout
 Lower Intake Upper Intake
 Axes, upper saddle wall
 Dam Body, upper saddle wall
 Platform, upper saddle wall
 Axes, upper wall
 Dam Body, upper wall
 Emergency Tunnel
 Main Access Tunnel
 Penstock
 Surge Shaft
 Power Station
 Roads

Reservoirs (indicative, to be amended once LIDAR information is collected)
 Borumba Lower Reservoir
 Borumba Upper Reservoir

OVERVIEW
 Gympie Regional, Somerset Regional, Sunshine Coast Regional

OVERVIEW Queensland

OVERVIEW NSW

Main Map Extent

ID	Package	Lat	Long
LP01	1	-26.5271	152.5498
PW01	1	-26.5763	152.5472
SD03	1	-26.5645	152.5489
SD04	1	-26.5646	152.5494
SD02	1	-26.563	152.549
SD01	1	-26.5615	152.5508
UQ01	1	-26.5625	152.5475
UQ02	1	-26.5614	152.5462
NB01	1	-26.505	152.586
NB02	1	-26.5048	152.5853
NB03	1	-26.5048	152.5844
NB04	1	-26.5041	152.5836
MD01	2	-26.5506	152.5317
MD02	2	-26.551	152.5312
MD03	2	-26.5514	152.5307
UP01	2	-26.556	152.5385
HR01	2	-26.5466	152.5415
EP01	2	-26.5382	152.5311
LQ01	2	-26.494	152.5695
LQ02	2	-26.4942	152.5654
NB06	2	-26.5052	152.5863
PC01	3	-26.5427	152.5437
TR01	3	-26.5348	152.5453
ET01	3	-26.5408	152.5399
NB05	3	-26.5037	152.5827

Data Sources:
 1. Queensland Parks and Wildlife Service access © State of Queensland (Department of Environment and Science) 2020
 2. Protected areas of Queensland © State of Queensland (Department of Environment and Science) 2020
 3. Site Layout Items from previous projects © SMEC, 2020
 4. Watercourses and Cadastre © State of Queensland (Department of Natural Resources, Mines and Energy) 2021

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Borumba Pumped Hydro Energy Storage Project Support
 Engineering & Environment | Field Visit on 18/11/2021

PROTECTED AREAS, FORESTS, TRACKS, TRAILS
OVERVIEW

PROJECT #: 30032677
 CREATED BY: BM
 LAST MODIFIED: BM14706, 16/11/2021
 REVISION: A

FIELD NP01

Page 14 of 68

Date : 12/01/2022 11:16:37 AM

From : "Chloe Gosling"

To : "Paul Harris (Gympie)"

Cc : "Anthony Ross"

Subject : FW: Site Visit

Attachment : image001.png;image003.png;image005.png;image007.png;image009.png;image002.png;image006.png;

Hi Paul

Please note Borumba Hydro Geotech team are proposing to head to Conondale next week to have a look at the proposed test sites.

I have mentioned that unlikely any issues apart from potential washouts from recent rain, but I have asked for an updated map of locations as they have changed apparently, just to make sure we don't have any issues with their new proposed sites. Will send it through when it comes.

Thanks



Chloe Gosling
A/Assistant Principal Ranger
Planning, Assessments and Biodiversity | 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: Wednesday, 12 January 2022 10:35 AM

To: Chloe Gosling

Subject: Site Visit

Hi Chloe,

Some of our team (Geotech's and an ecologist) are proposing to head out to the sites in Conondale NP next week.... Tuesday 18th at this stage. The main object of this excursion is to confirm the location/suitability of the nominated sites from a Geotech perspective but obviously we will be guiding that process from an environmental/ecological view as well (ie selecting sites where impacts will be lowest). Is there any problems/requirements from QPWS in regard to accessing the park and those area on that date? The team will be driving as close as they can get to the park boundary and then walking in.

Also, the project design has changed and there is now only 3 sites in Conondale NP (was 4 previously). Preliminary location of a couple has changed a little as well. I will send you an updated map showing where these are as soon as it gets updated in the GIS.

If you, or any other NP staff are interested in coming along for the trip your are more than welcome. Please let me know if you are interested and we can organise a time and place to meet up.

Cheers,

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

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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 in
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.

It sounds like you are aiming to have the necessary approvals to undertake geotechnical investigations by March 2022. Below are some dot points to summarise the discussion around QPWS&P requirements.

Initial feasibility:

- 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 i

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 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
- 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](#) T +61 7 5578 0250 E Jon.Alexander@smec.com

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21-361

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Date : 13/01/2022 12:38:11 PM

From : "Chloe Gosling"

To : "Jon ALEXANDER"

Subject : RE: Site Visit

Attachment :

P30032677_Borumba_Field01_NationalParksSiteVisit.pdf;image001.png;image003.png;image006.png;image007.png;image008.png;image009.png;image010.png;image002.png;image004.png;

Thanks Jon, the less interference with the park the better. National Parks should always be the last resort option not the first.

QPWS&P is comfortable for SMEC consultants to undertake visual only surveys in Conondale National Park and Imbil State Forest sites via 4WD vehicle foot access only. There is to be no taking, keeping or interfering with the natural resources.

DES does not warrant that Conondale National Park and Imbil State Forest are free from defect or that it is safe, fit, suitable or adequate for the surveys. To the full extent permitted by law, all warranties as to fitness, suitability and adequacy implied by law or are expressly negative.

SMEC and its consultants use of the National Park and State Forest is entirely at their own risk and must first check the area to be used for the surveys to ensure that it is suitable before undertaking the activities.

As mentioned, recent rainfall may have cause damage to tracks, please ensure consultants are aware to be extra vigilant. Vehicle access must not carry on if there is potential to cause damage to the tracks in Conondale National Park and Imbil State Forest.

Thanks



Chloe Gosling
A/Assistant Principal Ranger
Planning, Assessments and Biodiversity | 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: Thursday, 13 January 2022 12:22 PM

To: Chloe Gosling

Subject: RE: Site Visit

Hi Chloe,

As discussed the design of the PHES scheme has been updated and this design has now been approved to be used as the Reference design for future stages of the project. Below is a plan showing the new arrangement of the PHES scheme in the vicinity of the upper storage reservoir. For comparison I have attached the map we prepared for you for your site visit. Most of the tunnels and the underground power plant have now been moved outside the park boundary leaving a single tunnel linking the upper and lower storages passing under the park. Subsequently, one of the proposed sites (ET01) is no longer required and has been removed. The site you visited is now designated TR01 (was formerly PC01) and TR02 now replaces the original TR01. HR01 which was near the park boundary has been removed entirely. Other NP and State Forest geotech investigation sites near the proposed new dam wall are unchanged.



If you wish to discuss or require any clarification, don't hesitate to get in touch.

Best regards,

Jon Alexander

Principal Ecologist

M  +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: Wednesday, 12 January 2022 11:01 AM

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

Subject: RE: Site Visit

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Hi Jon

Apart from recent rain and potential washout (our team haven't been out there since), it shouldn't be a problem, but we are keen to see a copy of the new locations in the first instance in case we have any issues with those locations.

Thanks

Chloe Gosling

A/Assistant Principal Ranger

Planning, Assessments and Biodiversity | South East Queensland

Queensland Parks and Wildlife Service & Partnerships

File A



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

From: Jon ALEXANDER <Jon.Alexander@smec.com>
Sent: Wednesday, 12 January 2022 10:35 AM
To: Chloe Gosling
Subject: Site Visit

Hi Chloe,

Some of our team (Geotech's and an ecologist) are proposing to head out to the sites in Conondale NP next week.... Tuesday 18th at this stage. The main object of this excursion is to confirm the location/suitability of the nominated sites from a Geotech perspective but obviously we will be guiding that process from an environmental/ecological view as well (ie selecting sites where impacts will be lowest). Is there any problems/requirements from QPWS in regard to accessing the park and those area on that date? The team will be driving as close as they can get to the park boundary and then walking in.

Also, the project design has changed and there is now only 3 sites in Conondale NP (was 4 previously). Preliminary location of a couple has changed a little as well. I will send you an updated map showing where these are as soon as it gets updated in the GIS.

If you, or any other NP staff are interested in coming along for the trip your are more than welcome. Please let me know if you are interested and we can organise a time and place to meet up.

Cheers,

Jon Alexander

Principal Ecologist

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

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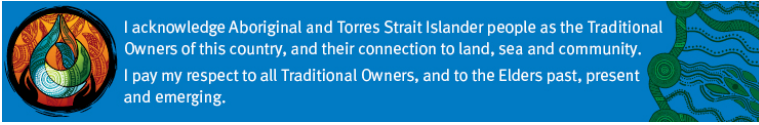
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Nick Weinert
Executive Director
Protected Area Strategy and Investment
QPWS and Partnerships
Department of Environment and Science

M(6) Personal info
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: 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)
 - 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)
 - SMEC subject matter consultants contracted to undertake environmental/hydrology/cultural heritage/social impact studies to give the audience an overview of the proposed study (5 mins)
 - Table groups to discuss additional items they would like to see included in the study; these will be recorded at each table on butcher's paper (15mins & 5 min report back). Powerlink/SMEC will provide table scribes who will take notes/facilitate conversation (if needed).
 - Proposed studies to be discussed include: hydrological, environmental, socio-economic, cultural heritage, recreational
 - Government departments invited to attend in an observer capacity, also be in a position to provide information on relevant issues, if required.
- Attendance / invite list for the workshop – attached
- Details and location of drop in sessions for Imbil and Gympie
 - 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 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

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 / M Personal in E jane.carey@epw.qld.gov.au
 Level 8, 1 William Street, Brisbane, QLD 4001

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RTI Act 2009

Date : 3/12/2021 9:00:00 AM

From : "Andrew Hoffman"

To : "Troy Spinks" , "Damien Head"

Subject : FW: Invitation to Borumba Pumped Hydro Project stakeholder workshop

Attachment :

image003.png;image004.png;image005.png;image006.png;image007.jpg;image008.png;image010.jpg;image011.jpg;image012.jpg;image013.jpg;image001.png;image002.png;

Fyi

Andrew Hoffman

A/ Regional Director

South East Queensland Region | QPWS & Partnerships

Department of Environment and Science

 Personal information

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

www.des.qld.gov.au

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

Sent: Friday, 3 December 2021 8:37 AM

To: Greg Smyth

Cc: Nat Smith; Nick Weinert; Alison Haycock; Andrew Hoffman; Jo Zadkovich

Subject: FW: Invitation to Borumba Pumped Hydro Project stakeholder workshop

Hi Greg and all

Not too much to report from attending the Borumba Dam stakeholder workshop yesterday in Gympie

- Dominant focus was on water use, water allocations, environmental flows, competing interests for water vs hydro use, how project was integrating with Mary River catchment planning
- Reps from Mary River CCG (Ian Mackay), SSEC (Narelle M), and Ian Stephens raised (from floor of greater meeting) the Yabba Links matter in context of offsets/compensation—stating that Yabba Links was a pre-existing commitment by government and that any offsets due to Borumba should be somewhat 'over and above' Yabba Links commitments (Powerlink and Dept Energy reps appeared to have little /no knowledge of Yabba Links)
- A number of participants advocated on behalf of Kabi Kabi interests (no Kabi present)
- Issues raised associated with national parks and State forest included impact of drilling and dam raising and introduction (top reservoir) on groundwater and surface water in NP (eg consultants acknowledged that there could be a risk of 'water inflow' from construction of underground pipes and changes in groundwater and surface water levels to area of park above pipes and edge of dam to park)
- Issue flagged included ecological fragmentation (including of SF and NP) by significant extent of powerlines (noting 2 x proposed powerline corridors emanating from new power station and feeding 2 substations – one to north and one to west)
- Also fragmentation of ecological landscape-level links between NP and Powerlink lands due to construction of new top reservoir (significant barrier to fauna movement in this area)
- Some concerns raised about noise and vibration impacts from underground power station
- Rock wallaby and quoll habitat raised as key fauna concerns (apparently historical presence of wallaby)
- Socio-economic discussions touched on ecotourism/recreation potential of area being one of few long lasting benefits locally
- Some discussion of upgrading and sealing existing forestry roads to support access construction as well as future scenic driving routes

I had a chat to some of above reps in breaks and offered some assurances around Yabba Links commitments

Cheers



Anthony Ross

Principal Ranger, Technical Support

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

Department of Environment and Science

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

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

61 Bunya Street, MALENY QLD 4552

From: REILLY Gerard (Powerlink) <greilly@powerlink.com.au>

Sent: Tuesday, 23 November 2021 1:48 PM

To: Anthony Ross; Borumba Project Team

Subject: RE: Invitation to Borumba Pumped Hydro Project stakeholder workshop

Hi Anthony,

Thanks for the RSVP.

The structure of the day at a high level is an overarching presentation to give background and context. Have morning tea, then in tables talk through four key areas to gain insights to help shape studies over the coming months.

The four areas are:

1. Hydrology
2. Engineering and dam infrastructure

3. Environment
4. Socio-economic.

The presentations will be made by either Powerlink reps or our consultants from SMEC. I will be the overarching facilitator on the day. We will also have table hosts to guide the discussions.

We will have name tags, so people will be able to identify the organisation you are representing.

Hope this helps.

Gerard

Gerard Reilly

General Manager Communications, Customer & Engagement

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33 HAROLD STREET VIRGINIA QLD 4014 | PO Box 1193 Virginia QLD 4014
T (07) 3860-2057 | [M](#) [Personal info](#) | [Egreilly@powerlink.com.au](mailto:Greilly@powerlink.com.au)



From: Anthony Ross <Anthony.Ross@des.qld.gov.au>
Sent: Tuesday, 23 November 2021 1:37 PM
To: Borumba Project Team <borumba@powerlink.com.au>
Subject: RE: Invitation to Borumba Pumped Hydro Project stakeholder workshop

Hi Chris

I will be attending on behalf of the Queensland Parks and Wildlife Service and Partnerships (Dept Environment and Science).

In regard to govt dept attendees, are you able to provide any further information on expectations or ground rules for the forum etc. For example, will govt reps be identified and expected to take questions from the floor or small groups? If not, how will this be managed by a facilitator.

Just seeking to avoid surprises and be prepared!

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: Chris Evans <borumba@powerlink.com.au>
Sent: Monday, 22 November 2021 4:31 PM
To: Anthony Ross
Subject: Invitation to Borumba Pumped Hydro Project stakeholder workshop

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Invitation to Borumba Pumped Hydro Project stakeholder workshop

Dear Anthony,

The Queensland Government has committed to unlock renewable investment and to

achieve a renewable energy target of 50% by 2030. As part of delivering on this commitment, the Queensland Government and Powerlink are developing and completing detailed analytical studies for a potential pumped hydro project at Borumba Dam. Pumped hydro is flexible, reliable, and complements renewable energy generation such as solar and wind. Its ability to store significant amounts of energy will allow for more renewable generation to enter the market in Queensland.

Several detailed studies will be conducted to enable the Queensland Government to decide whether to proceed with further investment of pumped hydro at the Borumba Dam site. We need stakeholder input to make an informed decision about the Borumba Dam site and the scope of the detailed analytical studies.

We invite you to attend a workshop with other key stakeholders to learn more about the project and provide feedback. Your inputs will help inform the detailed analytical studies. Please note that due to venue capacity based on COVID restrictions we can only extend an invitation to two representatives from your organisation to attend.

Date: Thursday 2 December 2021
Time: 9am to 12pm
Location: Gympie RSL, 217 Mary Street Gympie

To register your attendance, please email borumba@powerlink.com.au by 22 November 2021.

Yours sincerely

Chris Evans

Project Director
Pumped Hydro Developments

This email was sent by Powerlink Queensland, 33 Harold Street, Virginia, Queensland 4014, Australia to Anthony.Ross@des.qld.gov.au

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[Redacted]

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Date : 25/02/2022 10:17:25 AM
From : "Anthony Ross"
To : "Damien Head" , "Troy Spinks"
Subject : Inform: Boromba PHES project
Attachment : 30032677-SKT-001.pdf;30032677-SKT-002.pdf;Photo
5.JPG;image001.png;image002.png;image003.png;image004.png;image005.png;
FYI

From: Anthony Ross
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 photo images show much of the set up on scaffolding – but the diagrams for Boromba show most of activity 'on ground'/cuttings—with a helipad clearing now an addition.

I note the diagrams are now showing something like a 60m x 40m impact area in the national park drill sites (as opposed to the earlier advised 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,

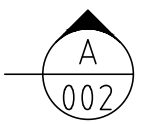
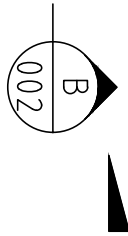
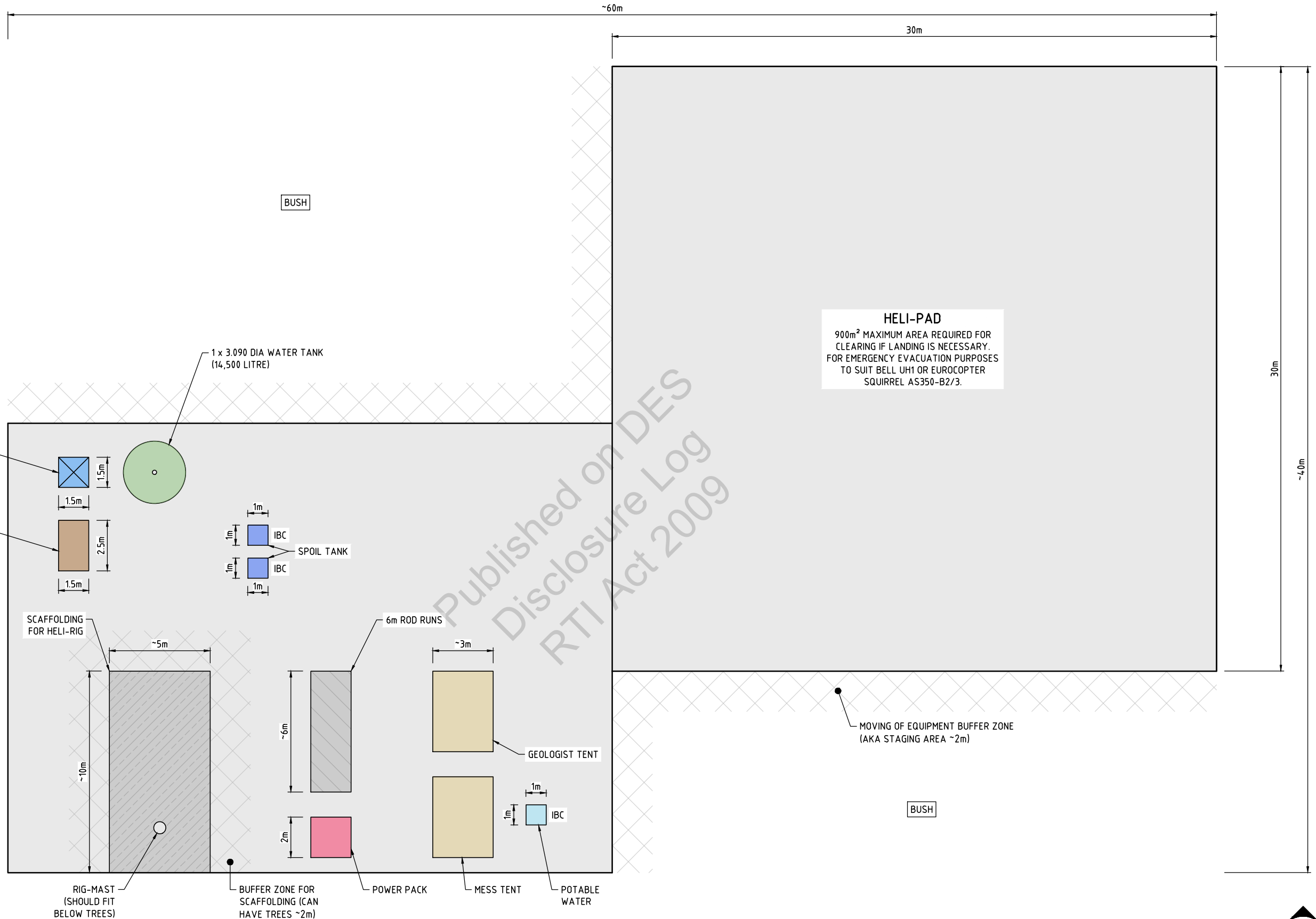
Jon Alexander
Principal Ecologist
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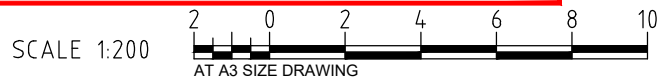


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**BORUMBA DAM
HELI-RIG AREA LAYOUT**

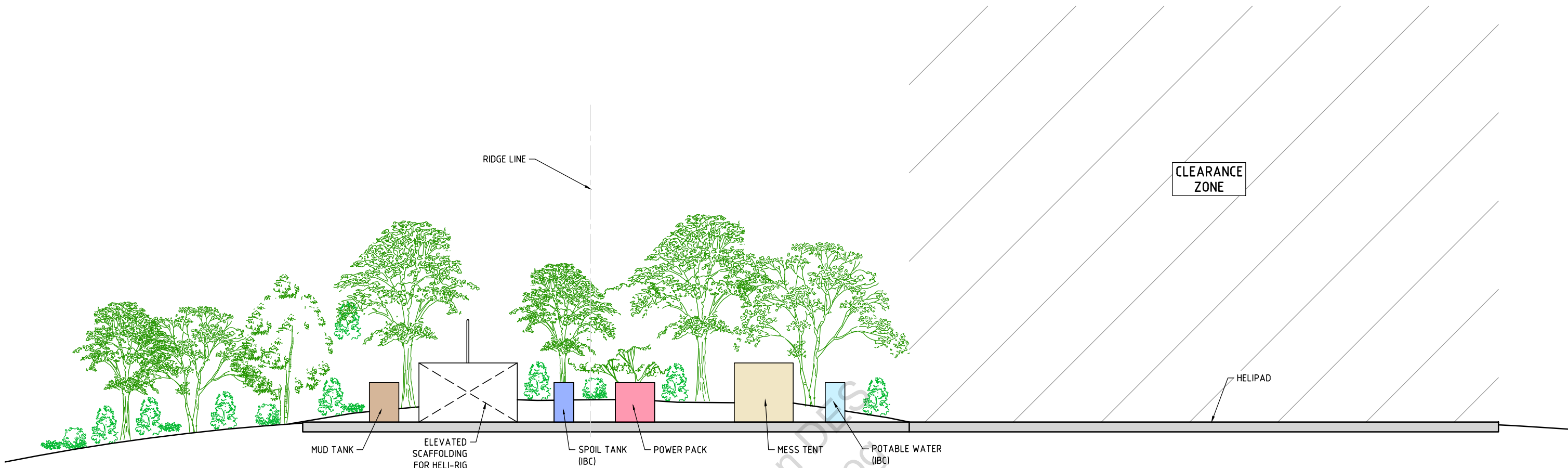
File A

INFORMATION DOCUMENT

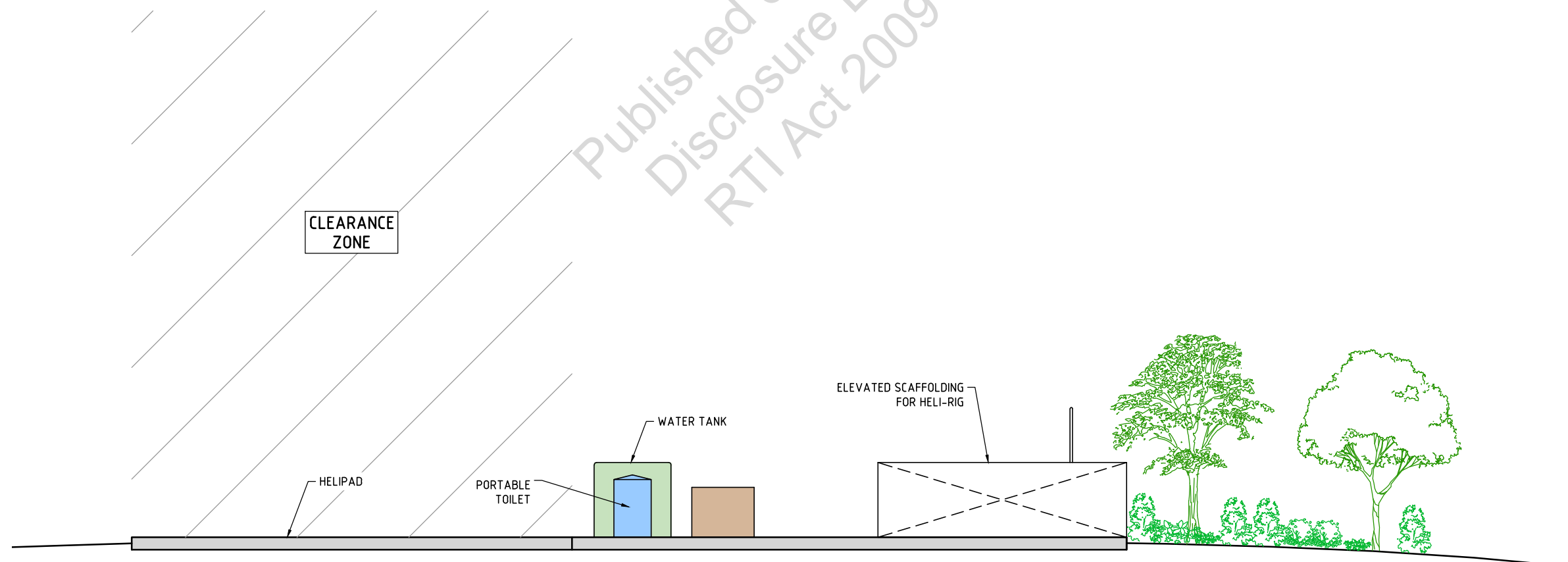
30032677-SKT-001



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 PH 07 5578 0200



ELEVATION A



ELEVATION B

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SCALE: NTS

**BORUMBA DAM
HELI-RIG AREA ELEVATIONS**

INFORMATION DOCUMENT

30032677-SKT-002



Date : 24/02/2022 2:36:46 PM
From : "Damien Head"
To : "Anthony Ross"
Subject : RE: Borumba
Attachment : image001.png;image002.png;image004.png;
Ill add it to my list. I have a few things to discuss with Fiona.

Appreciate the background. Along with your participation yesterday at the SF meeting.

Damien

From: Anthony Ross <Anthony.Ross@des.qld.gov.au>
Sent: Thursday, 24 February 2022 9:11 AM
To: Damien Head
Subject: RE: Borumba

Thanks. Worth a note that:

- confirmed responsibility with Alison as per attached
- [REDACTED] 73(2)Irrelevant
- Attended another meet with proponent where Alison advised there remains no clear path to support the drilling works—I think Alison has briefed ED Permissions Magt and been discussing with Todd K
- SEQR are still yet to receive a full package of info on proposal eg no schematic illustrations of what the drilling sites would look like as was promised (Dept Energy asked us if Powerlink had supplied us and we said no)....

[REDACTED] 73(2)Irrelevant

May be worth a check in with Fiona to ensure she is briefed...

A

From: Damien Head <Damien.Head@des.qld.gov.au>
Sent: Thursday, 24 February 2022 8:59 AM
To: Anthony Ross
Subject:

Question on Notice

57 MR A PERRETT ASKED MINISTER FOR ENERGY, RENEWABLES AND HYDROGEN AND MINISTER FOR PUBLIC WORKS AND PROCUREMENT (HON M DE BRENNI)—

With reference to the proposed pumped Hydro Scheme at Borumba Dam—
Will the Minister advise (a) if the government still expects that the business case, design and cost analysis including detailed environmental, geotechnical, hydrological, engineering and financial studies will be completed by mid-2023 and (b) if the timeline has been changed, and if so, what is the new timeline?



Damien Head
Executive Director
Southern Parks and Forests
Queensland Parks and Wildlife Service
Department of Environment and Science

M) Personal in
E: Damien.head@des.qld.gov.au

Date : 23/11/2021 11:57:04 AM

From : "Chloe Gosling"

To : "Jon ALEXANDER"

Cc : "Paul Harris (Gympie)" , "Jo Zadkovich"

Subject : Access findings

Attachment : P30032677_Borumba_Field01_NationalParksSiteVisit.kml;image001.png;image002.png;

Hi Jon

Thank you for providing QPWS with the georeferenced map of the proposed Geotech sites within QPWS managed lands.

We were unable to get to every site. I have attached a KML showing the track we followed for your info. Please see below findings/recommendations.

- 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 what would be required to establish access.
- LP01 (NP) – no known existing track. Given location to water, SMEC could consider transporting equipment via boat/barge. Maybe discuss with Seqwater.
- 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 as it is very steep. Depending on equipment needed it might not be viable. QPWS did not walk all the way down to the point from PC01.

Let me know how SMEC gets on with its own investigations. We are very keen to be kept informed.

Thanks



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

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RTI Act 2009

Date : 1/02/2022 2:25:40 PM

From : "Chloe Gosling"

To : "Jo Zadkovich"

Subject : FW: Borumba update

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

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) Personal in
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) Personal in T +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.

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](mailto:Jon.Alexander@smec.com) T +61 7 5578 0250 E Jon.Alexander@smec.com

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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 Personal info
Level 6, 12 First Avenue
MAROOCHYDORE QLD 4558

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Sent: Tuesday, 1 February 2022 1:53 PM

To: Chloe Gosling

Cc: Jo Zadkovich

Subject: RE: Borumba update

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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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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

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Date : 12/01/2022 11:16:37 AM

From : "Chloe Gosling"

To : "Paul Harris (Gympie)"

Cc : "Anthony Ross"

Subject : FW: Site Visit

Attachment : image001.png;image003.png;image005.png;image007.png;image009.png;image002.png;image006.png;

Hi Paul

Please note Borumba Hydro Geotech team are proposing to head to Conondale next week to have a look at the proposed test sites.

I have mentioned that unlikely any issues apart from potential washouts from recent rain, but I have asked for an updated map of locations as they have changed apparently, just to make sure we don't have any issues with their new proposed sites. Will send it through when it comes.

Thanks



Chloe Gosling
A/Assistant Principal Ranger
Planning, Assessments and Biodiversity | 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: Wednesday, 12 January 2022 10:35 AM

To: Chloe Gosling

Subject: Site Visit

Hi Chloe,

Some of our team (Geotech's and an ecologist) are proposing to head out to the sites in Conondale NP next week.... Tuesday 18th at this stage. The main object of this excursion is to confirm the location/suitability of the nominated sites from a Geotech perspective but obviously we will be guiding that process from an environmental/ecological view as well (ie selecting sites where impacts will be lowest). Is there any problems/requirements from QPWS in regard to accessing the park and those area on that date? The team will be driving as close as they can get to the park boundary and then walking in.

Also, the project design has changed and there is now only 3 sites in Conondale NP (was 4 previously). Preliminary location of a couple has changed a little as well. I will send you an updated map showing where these are as soon as it gets updated in the GIS.

If you, or any other NP staff are interested in coming along for the trip your are more than welcome. Please let me know if you are interested and we can organise a time and place to meet up.

Cheers,

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 : 2/12/2021 2:08:55 PM

From : "Chloe Gosling"

To : "'Jon ALEXANDER'"

Cc : "Jo Zadkovich"

Subject : RE: Borumba Dam PHES Geotechnical investigation sites

Attachment :

DES_EMP_Template_2021.docx;image001.png;image014.jpg;image015.png;image021.png;image022.png;image023.png;image024.png;image025.png;image002.png;image003.png;image004.png;image005.png;image006.png;image009.png;image010.png;image016.png;image017.png;image020.png;

Hi Jon

Yes I believe a non-invasive survey would be sufficient. There would be no need for fauna trapping. We would be looking to ensure there are no rare and threatens in the proposed works areas. If there are RNTs identified, then we would need to develop a suitable plan to mitigate impacts etc.

If the sites are confirmed viable, then SMEC would need to provide and Environmental Management Plan for the works which amongst other things would list the RNTs and how they will be managed. I have attached a very basic EMP template to highlight the type of information we would require.

Hope this helps, let me know if you have any further questions.

Thanks



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: Thursday, 2 December 2021 11:17 AM

To: Chloe Gosling

Cc: Jo Zadkovich

Subject: RE: Borumba Dam PHES Geotechnical investigation sites

Thanks Chloe,

Our initial investigation to confirm the viability of the location currently nominated can be done without the need to take or interfere. I guess the need for those more detailed investigations, which may require the need to take plant samples etc would depend on the level of detail expected in support of the authority application. Do you have feel for this? Is the expectation that the application be supported by a detailed fauna survey (ie trapping) or would a less detailed survey suffice? Obviously some non-invasive, observational work can be done without taking or interfering (diurnal bird survey, call playback, songmeter bat recording etc etc) if that was linked with a detailed habitat assessment would that be sufficient to support the authority application?

Sorry for all the questions. Appreciate the help.

Cheers,

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: Thursday, 2 December 2021 10:48 AM

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

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

Subject: RE: Borumba Dam PHES Geotechnical investigation sites

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Hi Jon

I have been advised that SMEC will have to apply online for the research permit - <https://www.qld.gov.au/environment/parks/permits/science-education>.

In regard to Cultural Heritage, SMEC is responsible for complying with the *Aboriginal Cultural Heritage Act 2003* and *Torres Strait Islander Cultural Heritage Act 2003*. Cultural Heritage is not covered under our permits. The Cultural Heritage Duty of Care Guidelines have been developed to assist with assessing what measures should be taken to meet cultural heritage duty of care. You can find more information at [Cultural heritage duty of care | Aboriginal and Torres Strait Islander peoples | Queensland Government \(www.qld.gov.au\)](http://www.qld.gov.au).

Just a reminder though Jon, if there is no requirement to actually take or interfere there is no permit requirement. If SMEC is engaging an ecologist then it may be that they will not need to take/interfere to conduct the survey.

Thanks



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, 29 November 2021 12:09 PM
To: Chloe Gosling
Cc: Jo Zadkovich
Subject: RE: Borumba Dam PHES Geotechnical investigation sites

Hi Chloe,

Thanks for sending the Resource permit kit through.

So just to confirm. The Resource Permit application kit you sent is all we need to be able to undertake ecological survey (which may involve collecting plants samples for example) at the proposed National Park Geotechnical sites? Outside National Park estate we operate under a State wide Scientific License. So I assume the resource permit is the equivalent for National Parks? Also I assume there a separate application process for the State forest site?

Also I assume the Authority application is a different set of forms? Would it be possible to obtain a copy of those as well? I will need to pull together information from a few parties to put the authority application together so it would be great to make sure I am getting all that is needed and the appropriate level of details.

Cheers,

Jon Alexander
Principal Ecologist
M Personal in +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: Monday, 22 November 2021 12:10 PM
To: Jon ALEXANDER <Jon.Alexander@smec.com>
Cc: Jo Zadkovich <Jo.Zadkovich@des.qld.gov.au>
Subject: RE: Borumba Dam PHES Geotechnical investigation sites

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Ok great thanks Jon.

Please find attached application kit as requested.

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, 29 November 2021 12:07 PM

To: Chloe Gosling
Cc: Jo Zadkovich
Subject: RE: Borumba Dam PHES Geotechnical investigation sites

Thanks Chloe,

That is what we anticipated but thought it worthwhile confirming. On that note, as the flora/fauna surveys will be necessary, could you shoot me through the necessary application forms for the research permit. I tried to access these through the DES web site with very little luck. The permit will take a while to process so I may as well get that moving.

To clarify, the visual only inspection will happen to assist with confirming proposed locations, and once those are locked in we would undertake the additional investigations to support the application for the authority.

Cheers,

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: Monday, 22 November 2021 11:53 AM
To: Jon ALEXANDER <Jon.Alexander@smec.com>
Cc: Jo Zadkovich <Jo.Zadkovich@des.qld.gov.au>
Subject: RE: Borumba Dam PHES Geotechnical investigation sites

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Yes that's correct Jon, visual only survey without a permit is supported. If you need to take, keep or interfere, SMEC will need to apply for a permit then.

A detailed fauna/flora assessment would be necessary. We need to make sure there are no RNTs impacted by the proposed works at the specific locations.



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

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MAROOCHYDORE QLD 4558

From: Jon ALEXANDER <Jon.Alexander@smec.com>
Sent: Monday, 22 November 2021 11:49 AM
To: Chloe Gosling
Cc: Jo Zadkovich
Subject: RE: Borumba Dam PHES Geotechnical investigation sites

Thanks Chloe,

To confirm the highlighted below..SMEC can undertake the visual only survey without the need to obtain a permit but should it be necessary to take, keep or interfere with natural resources (eg. if a detailed fauna survey involving trapping was required), then the research permit would be necessary prior to that occurring.

Related but not to the visual inspection to confirm site locations, what level of ecological investigation would NPWS be looking for to support the application for the authority? Would detailed fauna survey data be expected ??

Cheers,

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: Monday, 22 November 2021 8:51 AM
To: Jon ALEXANDER <Jon.Alexander@smec.com>
Cc: Jo Zadkovich <Jo.Zadkovich@des.qld.gov.au>
Subject: RE: Borumba Dam PHES Geotechnical investigation sites

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Hi Jon

QPWS&P is comfortable for SMEC to undertake visual only surveys in the National Park via foot access only. There is to be no taking, keeping or interfering with the natural resources in the National Park. **A research permit would be required to facilitate that.**

QPWS&P would appreciate a report of what is found at the sites be provided to QPWS&P within 10 business days of the survey completion. This information can be emailed directly to me.

DES does not warrant that the National Park is free from defect or that it is safe, fit, suitable or adequate for the surveys. To the full extent permitted by law, all warranties as to fitness, suitability and adequacy implied by law or are expressly negative.

SMEC and its consultants use the National Park is entirely at their own risk and must first check the area of the National Park to be used for the surveys to ensure that it is suitable before undertaking the activities.

Thanks



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: Friday, 19 November 2021 11:34 AM
To: Chloe Gosling
Subject: RE: Borumba Dam PHES Geotechnical investigation sites

Hi Chloe,

Yes, the investigation will be to check out the reality of the proposed Geotech sites on the ground. Observational only, no taking or interfering with the natural and cultural values and access will be by foot.

Thanks.

Cheers,

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: Chloe Gosling <Chloe.Gosling@des.qld.gov.au>
Sent: Friday, 19 November 2021 11:01 AM
To: Jon ALEXANDER <Jon.Alexander@smec.com>
Subject: RE: Borumba Dam PHES Geotechnical investigation sites

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No worries Jon.

Can you confirm there will be no taking or interfering with the natural and cultural values and that access will be by foot (given no vehicle access). This will determine the permitting requirements.

The geo map was very helpful thanks. I will send through some more information about what we found, I just need to get some data off one of the field rangers device.

Thanks

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: Friday, 19 November 2021 10:37 AM
To: Chloe Gosling
Subject: RE: Borumba Dam PHES Geotechnical investigation sites

Hi Chloe,

Thanks for your time before the phones cut out.

If you could send me the appropriate application form for the Park access for the preliminary look around we discussed that would be great.

I also meant to ask did the Geopdf we sent of the sites work ok?

Cheers,

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: Monday, 15 November 2021 1:09 PM
To: Jon ALEXANDER <Jon.Alexander@smec.com>
Subject: RE: Borumba Dam PHES Geotechnical investigation sites

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Thanks Jon a geo-referenced PDF map would be ideal so we can load it to Avenza. If your GIS folk can include the below layers from Globe it would be appreciated:

- Protected areas and forests
- Protected tracks and trails

Yes, we plan to go out into the field on Thursday. Access will be difficult, but we will certainly try our best to get to the sites.

Thanks



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, 15 November 2021 12:29 PM
To: Chloe Gosling
Subject: RE: Borumba Dam PHES Geotechnical investigation sites

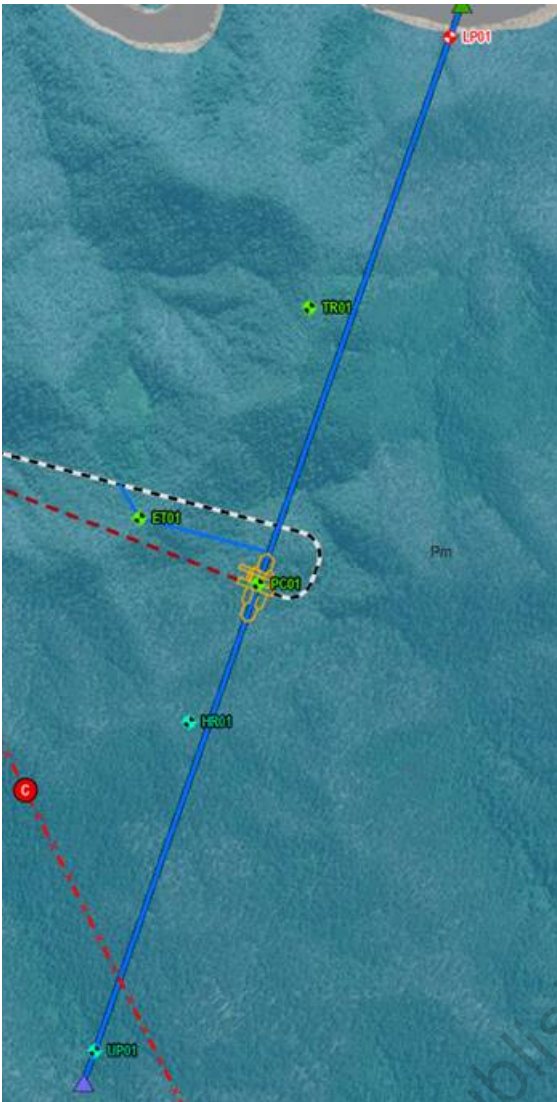
Hi Cloe,

Were you going to the sites in the field on Thursday? I have spoken to our Geotechs and the geology of the tunnel sites is quite uniform (see screenshot below). Sites TR01, PC01 and ET01 are all within the NP, these have been located to try and capture the geology underlying or immediately adjacent to key project features. So ideally, we would want to keep these as close as possible to the locations shown but as discussed if they need to be moved to avoid clearing/significant habitat or features then we can do this. If for some reason an area was a complete no go for some reason that is important for us to know at this stage.

The other 2 sites of relevance are NB05 (National park) and NB06 (State Forest). Information from these is required to inform the possible construction of a new dam wall, so they need to be fairly close to the locations indicated in the screen shot.

I can get mapping for you to take in the field. Let me know what sort of file type is best (Shape, KML etc etc) our GIS folk can supply it in

whatever you need.



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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: Chloe Gosling <Chloe.Gosling@des.qld.gov.au>
Sent: Monday, 15 November 2021 11:22 AM
To: Jon ALEXANDER <Jon.Alexander@smec.com>
Subject: RE: Borumba Dam PHES Geotechnical investigation Sites

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Hi Jon

Any luck with the mapping. I am planning to check out the locations on Thursday and the geo mapping would be very handy. We can certainly access Globe, but we don't have geologists within QPWS, so if you/your staff can provide us with the areas that you think contain the relevant criteria that would be appreciated.

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: Thursday, 11 November 2021 11:07 AM
To: Chloe Gosling
Subject: RE: Borumba Dam PHES Geotechnical investigation Sites

Hi Chloe,

The geologic information for the area is not very detailed (hence the need for the investigations). We are currently relying on the existing State Government geologic mapping, which I imagine you probably have access to. Currently the National Park geotechnical investigation sites all appear to be within on geologic unit but that mapping may or may not be correct.

Our project GIS is currently playing up, but once that is back up and running I can send you the details.

Thanks for you help with this.

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: Chloe Gosling <Chloe.Gosling@des.qld.gov.au>
Sent: Thursday, 11 November 2021 9:42 AM
To: Jon ALEXANDER <Jon.Alexander@smec.com>
Subject: RE: Borumba Dam PHES Geotechnical investigation Sites

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Thanks Jon

Is there mapping that you can provide that would show the general area that captures the relevant geologic structures and features? That way, when we go have a look on site we have an area that we can recommend as the most appropriate?

Thanks



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, 8 November 2021 3:22 PM
To: Chloe Gosling
Cc: Jo Zadkovich
Subject: RE: Borumba Dam PHES Geotechnical investigation Sites

Hi Cloe,

Yes flexibility of that order is usually ok, especially if there is a large area of uniform underlying geology. I would of course need to confirm changes with the Geotechnical engineers.

The critical factor with the Geotech work is that it needs to capture the relevant geologic structures and features ie ones that could lead to problems with the installation or future use of the tunnel, like faults between changes in geology.

If you have any other queries please 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: Chloe Gosling <Chloe.Gosling@des.qld.gov.au>
Sent: Monday, 8 November 2021 3:04 PM
To: Jon ALEXANDER <Jon.Alexander@smec.com>
Cc: Jo Zadkovich <Jo.Zadkovich@des.qld.gov.au>
Subject: FW: Borumba Dam PHES Geotechnical investigation Sites

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Hi Jon

Any chance you can confirm flexibility of locations for the Geotech sites?

I recall in the meeting you mentioned 50-100m from the proposed pipeline. Can you please confirm if this is correct, and advise if there is specific features/criteria that is critical for the sites?

Thanks



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: 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 +61 7 5578 0250 E Jon.Alexander@smec.com

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

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ENVIRONMENTAL MANGEMENT PLAN (EMP)

The EMP should provide an overview of the site to be used, including the location, access arrangements and details of the infrastructure present and/or proposed. It should outline the potential impacts from the on-going use of the site to specified features of environmental importance and describe the management measures proposed to mitigate against the potential impacts.

A) Purpose

Provide a brief overview of the purpose of the EMP.

B) Site description

Describe:

- The site location and map.
- Man-made features:
 - access arrangements;
 - infrastructure present;
 - infrastructure proposed;
- Natural features:
 - regional ecosystem community types, their *Vegetation Management Act 1999* (VMA) class and biodiversity status;
 - flora detailing their *Nature Conservation Act 1992* (NCA) classification;
 - fauna detailing their NCA classification.

C) Relevant legislation

Identify the relevant State environmental legislation that is required to be complied with. Identify any additional designations relevant to the area, for example if the proposed site is within a World Heritage area.

Potential impacts

Identify all potential impacts resulting from the on-going use of the site, and for each describe:

- objective of site management;
- prevention, minimisation and mitigation strategies or action programs for controlling environmental impacts at the sites;
- how monitoring of the potential impacts and effectiveness of the mitigation measures will be carried out.

Erosion and sedimentation control

primarily concerning the access track

Access arrangements

How access will be managed to the site e.g. through locked gate system and protocols for access.

Vegetation

- any effects on vegetation adjacent to the access track and site
- vegetation encroaching onto the site
- control techniques for vegetation impacting on structures

Fauna

- any effects on protected species
- ensuring declared pest species are not introduced

Weed management

- ensuring the site remains free of declared pest plants
- control of general weed species that may be on site e.g. molasses grass, blue top, snake weed
- detail weed eradication program
- ensuring vehicles travelling to the site do not introduce declared pest plants or other weed species
- detail wash down methods, where appropriate

Waste management

- provide detail on current toilet systems
- detail waste management, where appropriate
- treatment of waste and sewerage

Waste and hazardous substances

- use and storage of hazardous substances that may be present on the site at any time, for example diesel and herbicide
- domestic waste

Fire management

- control strategy for reducing flammable grasses surrounding the site

Helipad vegetation maintenance (if helipad present)

- control techniques to ensure Civil Aviation and Safety Authority (CASA) or other guidelines are met in terms of maintaining a safe helicopter landing site

Contact details

Identify relevant contact staff in cases of emergencies for site management issues.

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Date : 25/01/2022 6:09:29 PM

From : "Chloe Gosling"

To : "Anthony Ross" , "Jo Zadkovich" , "Alison Haycock"

Subject : RE: Borumba PHES Geotech and interactions with the Native Title Act

Attachment : L371103.pdf;image001.png;image009.png;image010.png;image002.png;image006.png;image007.png;

Hi all

Given Kabi Kabi's claim hasn't been determined, technically a full assessment under Module BA (PEPA) could be done. I'm not sure if this appropriate or not and would need to be discussed with DoR as the claim negotiators etc. Julius did mention on the phone that Kabi Kabi had been relatively comfortable from a Cultural Heritage perspective but has now raised serious concern regarding impact on Native Title.

- If it is deemed appropriate, I did find the attached plan that covers the area. Hard to identify as was before the dam was there and was registered in 1890. It suggests there could have been a lease (Grazing Farm Selection to Alexander McPherson and maybe others) over the area. We would need to get a copy of the original lease to determine what act it was issued under and to determine if it is considered a Scheduled Interest under the NTA. This takes time through records/State Archives and no guarantees it would extinguish NT. QPWS&P could request this, or State Development.
- If it is deemed not appropriate, the area is post-Wik as it was a former forest reserve (Conondale Forest Reserve 2) therefore only Module K onwards applies. Given the works are investigation works required/associated with the construction of a facility that generates electricity (requirement 1 facilities that are not captured by Module K), I don't believe Module K can be used to allow the works to proceed as a valid future act. Therefore an ILUA would be required, unless the Red Flag Committee (if it still exists) makes the call to proceed without an ILUA.

As mentioned below, in my opinion unless the NCA is amended, the geotech works and potential future pumped-hydro facility do not meet the management principles of a national park. We usually only provide early temporary authorities for inconsistent uses that are being revoked from NCA tenure (i.e. roads). But understand if a Govt priority we would support and do future NCA amendments.

Given the actually underground power station (turbines) is not proposed to be on NP and only the water pipeline will be, Module K might apply given it will be for a water pipeline (valid use for Module K). Big stretch of the bow in my opinion given whole intent is for power generation. Similarly I assume s35 for a service facility will be explored instead of NCA amendment, but NCA definition for water pipeline/pumping station as a service facility relates to water supply not electricity supply. Might fit the bill for supply network under *Electricity Act 1994* which is a valid service facility, but I did a very quick search and couldn't find any reference to pumped hydro in the Act. Obviously refers to renewables, but Alison is probably best placed to provide advice on that.

Also just to note.... The land to the south of the national park, and where the underground hydro-station is currently proposed is a *Land Act 1994* Reserve for Electricity Works purposes (Qld Electricity Transmission Corporate is Trustee). Therefore NT applies to that parcel also. Looks like the land title for the parcel as a reserve was created in 1992 so Module J might apply given likely consistent with the purpose of the reserve. But should be raised with SMEC/State Development as it will need to be assessed.

Hope this helps.

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

Sent: Tuesday, 25 January 2022 4:44 PM

To: Chloe Gosling; Jo Zadkovich

Subject: RE: Borumba PHES Geotech and interactions with the Native Title Act

Im not available 11am Friday – though could do that arvo....or Mon/Tues I will respond as such

Your advice re NT assessment will help muchly thanks Chloe – but your advice that not consistent with NCA so cant do under key modules makes sense

A



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

Date : 28/02/2022 5:03:17 PM

From : "Anthony Ross"

To : "Jon ALEXANDER"

Cc : "Leon BEYLEVELD" , "GWYNNE Chris (Powerlink)" , "EVANS Chris (Powerlink)" , "Chloe Gosling" , "Jo Zadkovich" , "Anna WEST" , "Alison Haycock"

Subject : RE: Borumba PHES Project

Attachment :

image002.png;image003.png;image005.jpg;image006.jpg;image007.png;image008.png;image009.png;image010.png;image011.png;

Thanks Jon

73(2)Irrelevant

I understand it needs to be clarified if the pipeline is still interpreted to be part of electricity generation facility, in contrast to say a water supply facility for municipal purposes (the activity that this part of NCA is generally use for).

While Ive got you, can you advise how access is being gained for drilling at LP01—appreciated is outside park but is access also via helicopter/vessel, or is access through national park required?

Thanks



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

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

Sent: Monday, 28 February 2022 4:43 PM

To: Anthony Ross

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

Subject: Borumba PHES Project

Hi Anthony,

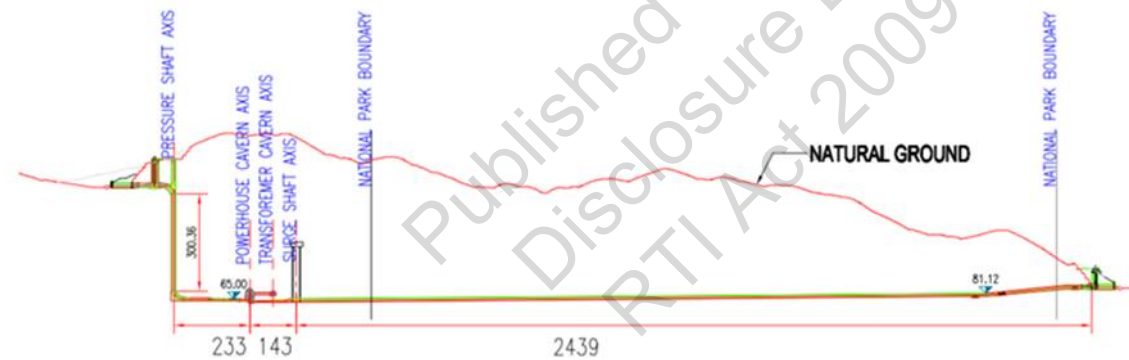
I hope you are high and dry in the current weather. Thanks for your time on Friday.

Further to our discussion, I recall that you mentioned that generation of electricity was an activity which appeared to not fit the definition of activities within the NC Act which would typically be able to be approved by QPWS. When I briefed yourself and other DES staff on the project last year the electrical generation component of the activity was planned to be occurring under the National Park. It later crossed my mind that you may not have been updated on the design changes which have occurred since that original briefing. The powerhouse (the electrical generation component of the project) is now located outside the National Park under Lot 1LX2754. The project activities which would be occurring on National Park estate would be the Geotech boreholes initially and ultimately the underground transfer of water between the upper and lower reservoir. I have attached a couple of screen shots to illustrate.

Below is the layout of the water transfer arrangement in relation to the powerhouse (circled in red). Dark green shaded areas are Conondale NP.



And a cross section showing how that sits in relation to the NP boundaries



Happy to discuss this further or to answer any queries if this is unclear.

Also would be keen to discuss setting up a meeting with Alison and any other relevant parties to discuss where we are at re: potential approval pathways.

Best regards,

Jon Alexander
Principal Ecologist
M [6](tel:+61755780250) 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 : 1/02/2022 1:53:21 PM

From : "Jon ALEXANDER"

To : "Chloe Gosling"

Cc : "Jo Zadkovich"

Subject : RE: Borumba update

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

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 T +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 EVNTs 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 6) 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 +61 7 5578 0250 E Jon.Alexander@smec.com

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

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RTI Act 2009

Date : 25/01/2022 10:21:04 AM

From : "Jon ALEXANDER"

To : "Chloe Gosling"

Cc : "Jo Zadkovich"

Subject : RE: Borumba update

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

Hi Chloe,

As soon as that data is loaded up to our project GIS, I will send you a map of the ENVT locations.

Yes, SMEC/Powerlink have been liaising with Kabi Kabi and they have provided CH clearance on a number of geotech sites around the existing dam wall. The Geotech drilling at those location will commence in the next week or so.

Thanks for confirming the permit requirements, that was our understanding but just thought I would confirm.

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: 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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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

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Best regards,

Jon Alexander

Principal Ecologist

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

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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 in

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.

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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: 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

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Best regards,

Jon Alexander
Principal Ecologist
M [6\) Personal info](tel:+61755780250) T +61 7 5578 0250 E Jon.Alexander@smec.com
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Date : 11/11/2021 11:56:12 AM

From : "David Woolsey"

To : "Jon ALEXANDER"

Cc : "Leon BEYLEVELD" , "Rebecca POWLETT" , "Chloe Gosling" , "Jo Zadkovich" , "Pat Hanslow"

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

Attachment :

image001.png;image003.png;image012.png;image015.png;image016.png;image017.png;image018.png;image019.png;image002.png;image004.png;

Gday Jon,

I just had a quick chat with our cartographer about the Conondale National Park and Imbil State Forest boundaries surrounding Borumba Dam, that we just discussed on the phone.

My advice that the boundary on the plans is the point of truth (and the DCDB is built from the plan) still stands. Additionally though, I thought it was worth sharing that the internal water boundaries on our plans (NPW746 and FTY1911) were based entirely off the plan for the dam (LX2359) which was completed by a licensed surveyor (and therefore outranks our plans as per Dep. Of Resources standards). I don't believe LX2359 was surveyed on ground though, just compiled from desktop by the surveyor.

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: David Woolsey

Sent: Friday, 5 November 2021 1:13 PM

To: 'Jon ALEXANDER'

Cc: Leon BEYLEVELD; Rebecca POWLETT; Anthony Ross; Alison Haycock; Chloe Gosling; Jo Zadkovich; Glen Dodds; Ashley Williams (DES)

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

Hi Jon and Rebecca,

As discussed on Monday, the QPWS&P Tenure Services team would manage any tenure actions that arise as a result of the project, including revocation of any areas. It's necessary to revoke areas when a proposed activity and/or its impacts are not compatible with the management principles for the relevant QPWS estate (e.g. national park, State forest). Consideration of proposed activities and their impacts against management principles is primarily over to Anthony/Jo/Chloe to advise in the first instance.

I've attached the letter we use to manage revocations that outlines the entire process and costs etc. to aid your scoping/preliminary activities. Please note the attached letter is for national park revocation and that revocation of State forest follows a very similar path, except that the compensation would be reduced to 5:1 ratio. Please don't worry too much about the due dates in the letter, these can be altered to more appropriate timeframes later on.

The QPWS revocations policy is also attached that provides guidance on how the department assesses revocation proposals.

If you want further information, just give me a call, I will try to explain.

Regards,

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

Sent: Wednesday, 3 November 2021 9:35 AM

To: Jo Zadkovich

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

Thanks Jo, 21-361

File A

Page 62 of 68

Appreciate your team's time.

The breakdown below is very helpful. I will send through the details of the borehole locations later today.

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

Sent: Wednesday, 3 November 2021 9:03 AM

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

Cc: Leon BEYLEVELD <Leon.Beyleveld@smec.com>; Rebecca POWLETT <Rebecca.Powlett@smec.com>; Anthony Ross <Anthony.Ross@des.qld.gov.au>; Alison Haycock <Alison.Haycock@des.qld.gov.au>; David Woolsey <David.Woolsey@des.qld.gov.au>; Chloe Gosling <Chloe.Gosling@des.qld.gov.au>

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

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Hi Jon,

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

It sounds like you are aiming to have the necessary approvals to undertake geotechnical investigations by March 2022. Below are some dot points to summarise the discussion around QPWS&P requirements.

Initial feasibility:

- 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 [6](#) 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

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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

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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

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Date : 13/01/2022 12:22:07 PM

From : "Jon ALEXANDER"

To : "Chloe Gosling"

Subject : RE: Site Visit

Attachment :

P30032677_Borumba_Field01_NationalParksSite Visit.pdf;image003.png;image004.png;image005.png;image007.png;image009.png;image013.png;image015.png;image017.png;
Hi Chloe,

As discussed the design of the PHES scheme has been updated and this design has now been approved to be used as the Reference design for future stages of the project. Below is a plan showing the new arrangement of the PHES scheme in the vicinity of the upper storage reservoir. For comparison I have attached the map we prepared for you for your site visit. Most of the tunnels and the underground power plant have now been moved outside the park boundary leaving a single tunnel linking the upper and lower storages passing under the park. Subsequently, one of the proposed sites (ET01) is no longer required and has been removed. The site you visited is now designated TR01 (was formerly PC01) and TR02 now replaces the original TR01. HR01 which was near the park boundary has been removed entirely. Other NP and State Forest geotech investigation sites near the proposed new dam wall are unchanged.




If you wish to discuss or require any clarification, don't hesitate to get in touch.

Best regards,

Jon Alexander

Principal Ecologist

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

Sent: Wednesday, 12 January 2022 11:01 AM

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

Subject: RE: Site Visit

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Hi Jon

Apart from recent rain and potential washout (our team haven't been out there since), it shouldn't be a problem, but we are keen to see a copy of the new locations in the first instance in case we have any issues with those locations.

Thanks



Chloe Gosling
A/Assistant Principal Ranger
Planning, Assessments and Biodiversity | South East Queensland
Queensland Parks and Wildlife Service & Partnerships
Department of Environment and Science

Personal 
Level 6, 12 First Avenue
MAROOCHYDRE QLD 4558

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

Sent: Wednesday, 12 January 2022 10:35 AM

21-361

File A

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To: Chloe Gosling
Subject: Site Visit

Hi Chloe,

Some of our team (Geotechnics and an ecologist) are proposing to head out to the sites in Conondale NP next week, Tuesday 18th at this stage. The main object of this excursion is to confirm the location/suitability of the nominated sites from a Geotech perspective but obviously we will be guiding that process from an environmental/ecological view as well (ie selecting sites where impacts will be lowest). Is there any problems/requirements from QPWS in regard to accessing the park and those area on that date? The team will be driving as close as they can get to the park boundary and then walking in.

Also, the project design has changed and there is now only 3 sites in Conondale NP (was 4 previously). Preliminary location of a couple has changed a little as well. I will send you an updated map showing where these are as soon as it gets updated in the GIS.

If you, or any other NP staff are interested in coming along for the trip your are more than welcome. Please let me know if you are interested and we can organise a time and place to meet up.

Cheers,

Jon Alexander

Principal Ecologist

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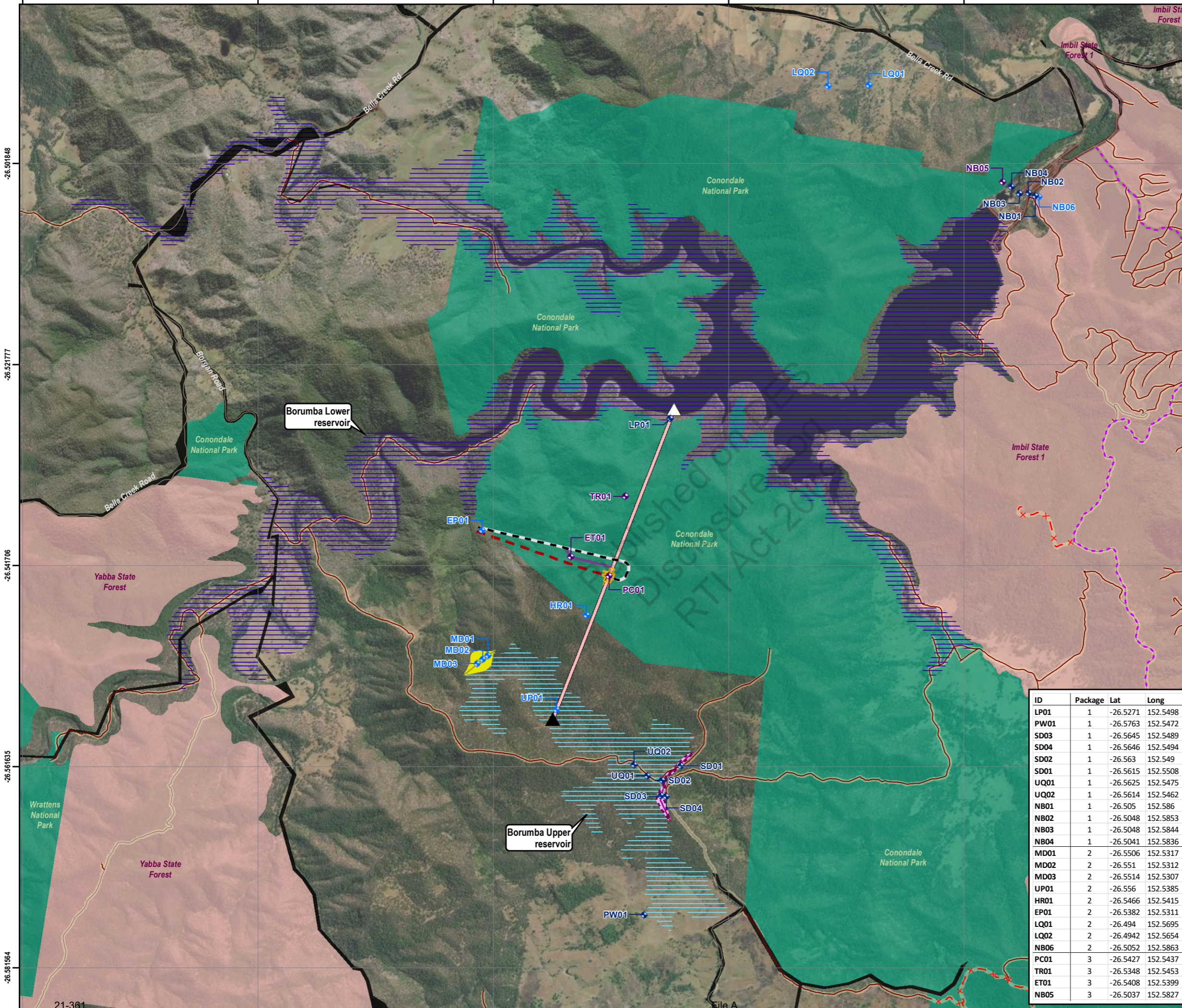
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Member of the Surbana Jurong Group

GDA2020
0 400 800 m
1 cm = 400 m (when printed @ A3)

LEGEND

Proposed Geotechnical Investigation Locations
 Package 1 Package 2 Package 3

QLD Parks and Wildlife Service Access
 Horse trail

by Status and Traffic
 Closed, closed road
 Open, 2wd
 Open, 4wd

by Material / Surface
 Natural
 Paved
 Sealed fit for purpose

Protected Areas (by Estate Type)
 National Park
 State Forest

Site Layout
 Lower Intake Upper Intake
 Axes, upper saddle wall
 Dam Body, upper saddle wall
 Platform, upper saddle wall
 Axes, upper wall
 Dam Body, upper wall
 Emergency Tunnel
 Main Access Tunnel
 Penstock
 Surge Shaft
 Power Station
 Roads

Reservoirs (indicative, to be amended once LIDAR information is collected)
 Borumba Lower Reservoir
 Borumba Upper Reservoir

OVERVIEW
 Gympie Regional,
 Somerset Regional,
 Sunshine Coast Regional

OVERVIEW Queensland

Map Extent

ID	Package	Lat	Long
LP01	1	-26.5271	152.5498
PW01	1	-26.5763	152.5472
SD03	1	-26.5645	152.5489
SD04	1	-26.5646	152.5494
SD02	1	-26.563	152.549
SD01	1	-26.5615	152.5508
UQ01	1	-26.5625	152.5475
UQ02	1	-26.5614	152.5462
NB01	1	-26.505	152.586
NB02	1	-26.5048	152.5853
NB03	1	-26.5048	152.5844
NB04	1	-26.5041	152.5836
MD01	2	-26.5506	152.5317
MD02	2	-26.551	152.5312
MD03	2	-26.5514	152.5307
UP01	2	-26.556	152.5385
HR01	2	-26.5466	152.5415
EP01	2	-26.5382	152.5311
LQ01	2	-26.494	152.5695
LQ02	2	-26.4942	152.5654
NB06	2	-26.5052	152.5863
PC01	3	-26.5427	152.5437
TR01	3	-26.5348	152.5453
ET01	3	-26.5408	152.5399
NB05	3	-26.5037	152.5827

Data Sources:
 1. Queensland Parks and Wildlife Service access © State of Queensland (Department of Environment and Science) 2020
 2. Protected areas of Queensland © State of Queensland (Department of Environment and Science) 2020
 3. Site Layout Items from previous projects © SMEC, 2020
 4. Watercourses and Cadastre © State of Queensland (Department of Natural Resources, Mines and Energy) 2021

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Borumba Pumped Hydro Energy Storage Project Support
 Engineering & Environment | Field Visit on 18/11/2021

PROTECTED AREAS, FORESTS, TRACKS, TRAILS
OVERVIEW

PROJECT #: 30032677
 CREATED BY: BM
 LAST MODIFIED: BM14706, 16/11/2021
 REVISION: A

FIELD NP01

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