

Bratley, Faye

From: Tait, Andrew <andrew.tait@stantec.com>
Sent: 08 October 2020 10:49
To: Sanchez Farres, Pau; Ekebuisi, Nnamdi
Cc: Woodhouse, Christopher
Subject: RE: Swarkestone Quarry extension - Transfer Licence pre-application
Attachments: PWS.png; Appendix G photos.pdf

Thanks Pau

See responses below. I trust this is everything you need to complete and send the Recommendation Letter but let us know if you need anything else.

2.5.6 Private Water supplies

See attached map showing the private supplies. The table below summarises why we conclude no impacts from dewatering.

Easting	Northing	Source	Purpose	Distance from site (m)	Direction	Comment
431300	326700	Spring	Domestic	1910	SW	Impact very unlikely: 1 - Due to distance with radius of influence expected 2 - All located on Helsby Sandstone Formation v and mudstone bands and strong hydraulic connection 3 - All located on opposite side of fault; 4 - No continuous superfacials deposits between
434800	326500	Spring	Domestic	1112	SE	
435400	326400	Borehole	Domestic	1626	SE	
432700	328500	Well	Domestic	860	NW	
434900	328700	Borehole	Domestic & Livestock	1324	NW	On Gunthorpe Member outside of GWMU and n Therefore no impact predicted.
435700	329200	Boreholes x 2	Campsite	2275	NE	
430500	329300	Borehole	Domestic	3085	NE	

4.4.2 Proposed mitigation measures

I believe the water level was about a foot below the top of the concrete structure. I am not sure if Chris was able to measure directly or only observe from a distance. He can clarify on Friday if necessary. There are some photos in Appendix G attached. It seems reasonable to retain the level between 0,2 and 0.4 m below in order to sufficiently augment the brook while at the same time not increasing flood risk.

Regards
Andrew

From: Sanchez Farres, Pau <Pau.SanchezFarres@environment-agency.gov.uk>
Sent: 07 October 2020 16:43
To: Tait, Andrew <andrew.tait@stantec.com>; Ekebuisi, Nnamdi <nnamdi.ekebuisi@environment-agency.gov.uk>
Cc: Woodhouse, Christopher <christopher.woodhouse@stantec.com>
Subject: RE: Swarkestone Quarry extension - Transfer Licence pre-application

Hi Andrew,

Please see below a couple of questions to address following the Discharge Permit Variation Application supporting document we reviewed:

- 2.5.6 Private Water supplies: it is mentioned the presence of six private groundwater supply boreholes within 3km of the site provided by South Derbyshire District Council. Would you clarify whether these sources are at risk of the dewatering operation? Could you send a map with the locations of these?
- 4.4.2 Proposed mitigation measures, it is mentioned "The first of these conditions will ensure that levels in the Milton Brook are maintained at least at pre-existing baseline levels (based on site visit observations)." Would you clarify what is the baseline level observed during the site visit in relation to the trigger levels stated in the report (0.4 and 0.2 below the overspill level measured by GB1). I could not find the actual baseline level on the report, apologies if I somehow missed it.

In regards to Chris' latest email (attached) enquiring on next steps:

We are happy for now that the STW statement suffices temporarily the derogation agreement. However, during the formal application an official signed derogation letter must be presented to our Permitting Team. I believe this is already in action from Tarmac's side.

Please do address the questions above. If we agree with your answers of the above we'll follow up on the Recommendation Letter. The letter should not take too long to draft and send.

Please do obtain the variation of the discharge permit to allow discharge of good quality groundwater into the Milton Brook to mitigate any dewatering impacts. Water Quality Permitting Team will deal with the application.

Please do get in touch if you need some clarification on the above, happy to talk through it, phone number below

Pau

Pau Sanchez Farres

Groundwater, Hydrology and Contaminated Land Team

Technical Officer

Environment Agency, East Midlands Area

☎ 0207 7141459

✉ Pau.SanchezFarres@environment-agency.gov.uk

✉ EMD.GHCL@environment-agency.gov.uk

✉ Environment Agency, Trentside Offices, Scarrington Road, West Bridgford, Nottingham, NG2 5BR

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From: Tait, Andrew [<mailto:andrew.tait@stantec.com>]

Sent: 07 October 2020 15:58

To: Ekebuisi, Nnamdi <nnamdi.ekebuisi@environment-agency.gov.uk>; Sanchez Farres, Pau

[<Pau.SanchezFarres@environment-agency.gov.uk>](mailto:Pau.SanchezFarres@environment-agency.gov.uk)

Cc: Woodhouse, Christopher [<christopher.woodhouse@stantec.com>](mailto:christopher.woodhouse@stantec.com)

Subject: RE: Swarkestone Quarry extension - Transfer Licence pre-application

Hi Nnamdi/Pau

Thanks for your time on the phone Nnamdi.

We look forward to receiving the letter from Pau inviting formal application. Pau please let us know if you need anything else. Nnamdi suggested you are awaiting a response from Chris to an email you sent Chris some time ago but we are unclear as to what this so. Therefore, please send again if needed.

Just to confirm the discharge activity permit variation application was submitted on 14 Sept (see confirmation in the attached email).

Regards
Andrew

From: Woodhouse, Christopher

Sent: 30 September 2020 16:24

To: 'Sanchez Farres, Pau' [<Pau.SanchezFarres@environment-agency.gov.uk>](mailto:Pau.SanchezFarres@environment-agency.gov.uk)

Cc: Tait, Andrew [<andrew.tait@stantec.com>](mailto:andrew.tait@stantec.com); Ekebuisi, Nnamdi [<nnamdi.ekebuisi@environment-agency.gov.uk>](mailto:nnamdi.ekebuisi@environment-agency.gov.uk)

Subject: RE: Swarkestone Quarry extension - Transfer Licence pre-application

Importance: High

Hi Pau,

We have now completed the following:

- Submitted a discharge permit variation application (see attached report) to allow discharge to the Milton Brook - Observations from a site visit indicate that the eastern part of the Milton Brook is not connected to the River Trent.
- Liaised with STWL regarding obtaining a derogation consent – STWL has verbally agreed to sign a derogation consent and we have sent a consent across for them to sign

We now feel that we are ready to formally apply for a transfer licence. Please can you advise on the next steps?

Tarmac would like to commence dewatering this year and therefore we would greatly appreciate a timely response.

Thanks,

Chris

Chris Woodhouse CGeol, MSc
Senior Hydrogeologist

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From: Sanchez Farres, Pau <Pau.SanchezFarres@environment-agency.gov.uk>
Sent: 25 August, 2020 2:33 PM
To: Woodhouse, Christopher <christopher.woodhouse@stantec.com>
Cc: Tait, Andrew <andrew.tait@stantec.com>; Ekebuisi, Nnamdi <nnamdi.ekebuisi@environment-agency.gov.uk>
Subject: RE: Swarkestone Quarry extension - Transfer Licence pre-application

Hi Chris,

By topics, see comments and questions for clarity:

STW licence – good to know, looking forward to hear from yourselves.

Milton Brook – Have you been able to obtain the brook's seasonal level baselines (by monitoring and/or historic levels?) and whether it is connected and level-controlled by the River Trent in the south-east side of the quarry site boundary? If the brook's level is controlled by the River Trent, then I would assume it is not needed to augment as the Trent should act as level buffer and therefore no need to vary the discharge permit. Let me know if you need further discussion on this.

Timings – Apologies Chris! I honestly thought I already sent you an email containing the timings on applications ages ago.

See on **bold** the approximate timings.

As soon as we review your conclusions on the remaining concerns above and agree that the Section 32/3 Investigations for the dewatering/transfer licence pre-application does not pose an unacceptable risk to the environment (**variable time depending on applicant + EA revision which depends also on its complexity**), then we will send our recommendation to apply to our Permitting Service Center who will contact yourselves to get the formal application started (**usually 5 days**). Once the formal application starts and fees are paid and the application is considered **valid (21 days)**, there is **usually 3-4 months determination period**, by which the end the licence is issued to the licence holder. Nnamdi please jump in if these timings are not correct, not usually my area of work.

Let me know if you have any questions

Pau

From: Woodhouse, Christopher [<mailto:christopher.woodhouse@stantec.com>]
Sent: 25 August 2020 14:00
To: Sanchez Farres, Pau <Pau.SanchezFarres@environment-agency.gov.uk>
Cc: Tait, Andrew <andrew.tait@stantec.com>
Subject: RE: Swarkestone Quarry extension - Transfer Licence pre-application

Hi Pau,

We are liaising with Severn Trent regarding their licence. We will also be submitting an application to vary the existing discharge permit to allow discharge to the Milton Brook (expect this to be submitted next week) .

Please can you provide an update on timescales with the transfer licence application?

Thanks,

Chris

Chris Woodhouse CGeol, MSc
Senior Hydrogeologist

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From: Sanchez Farres, Pau <Pau.SanchezFarres@environment-agency.gov.uk>
Sent: 25 August, 2020 1:40 PM
To: Woodhouse, Christopher <christopher.woodhouse@stantec.com>
Subject: Swarkestone Quarry extension - Transfer Licence pre-application

Hi Chris,

Hope you are keeping well,

Would you be able to give us an update on where you are at the moment with the actions agreed on the call (15/07)? We are conscious about the timing and the fact your client mentioned they would need the licence by late autumn, early winter.

Many thanks

Pau

Pau Sanchez Farres
Groundwater, Hydrology and Contaminated Land Team
Technical Officer

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