
From: Andrew Kirk <Andrew.Kirk@thesiriusgroup.com>

Sent: 25 June 2020 14:28

To: DALE, Helen <helen.dale@environment-agency.gov.uk>; Jon Seagrave <Jon.Seagrave@fccenvironment.co.uk>

Cc: Colin Fenwick <Colin.Fenwick@fccenvironment.co.uk>; Robert Ogden <Robert.Ogden@fccenvironment.co.uk>; Jack Davies <Jack.Davies@thesiriusgroup.com>

Subject: RE: Leadenham Valley Sidewall 2020 - Pre Op measure 2

Helen

To cover off the final Pre operational condition please see attached letter.

Any queries just let me know.

Regards



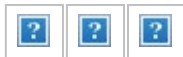
Andrew Kirk | Design Manager | Environmental

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From: DALE, Helen <helen.dale@environment-agency.gov.uk>

Sent: 15 June 2020 10:21

To: Andrew Kirk <Andrew.Kirk@thesiriusgroup.com>; Jon Seagrave <Jon.Seagrave@fccenvironment.co.uk>

Cc: Colin Fenwick <Colin.Fenwick@fccenvironment.co.uk>

Subject: Leadenham Valley Sidewall 2020 - Pre Op measure 2

Andrew

Thank you for supplying the letter covering off the leachate squeeze assessment as required in the Leadenham permit pre operational measure 02.

There is one final point in the PO2 that has not been addressed:

- [Trigger levels to be set for the monitoring of the lining system; and an action plan for exceedance of trigger levels.](#)

Please could you provide this information. Once this has been submitted the Environment Agency will then have all the information required to assess if the PO2 has been achieved.

Regards

Helen Dale BSc (Hons) MIEMA CEnv

Regulatory Officer - EPR Installations North
Environment Agency, Ceres House, Searby Road, Lincoln, LN2 4DW
helen.dale@environment-agency.gov.uk
External: 02030254962

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From: Andrew Kirk [<mailto:Andrew.Kirk@thesiriusgroup.com>]

Sent: 09 June 2020 09:20

To: DALE, Helen <helen.dale@environment-agency.gov.uk>; Branson, Jim <jim.branson@environment-agency.gov.uk>

Cc: Jon Seagrave <Jon.Seagrave@fccenvironment.co.uk>; Robert Ogden <Robert.Ogden@fccenvironment.co.uk>; Jack Davies <Jack.Davies@thesiriusgroup.com>; Joe Camfield <Joe.Camfield@thesiriusgroup.com>

Subject: RE: Leadenham Valley Sidewall 2020

Helen

Please find attached a letter covering the pre operational measures.

Any queries just let me know.

Regards



Andrew Kirk | Design Manager | Environmental

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From: DALE, Helen <helen.dale@environment-agency.gov.uk>

Sent: 26 May 2020 09:48

To: Andrew Kirk <Andrew.Kirk@thesiriusgroup.com>

Cc: Jon Seagrave <Jon.Seagrave@fccenvironment.co.uk>

Subject: RE: Leadenham Valley Sidewall 2020

Further to the approval of the CQA plan for the valley side wall engineering – within the permit there is a pre operational condition 2, that covers construction of new cells (cell 2, 7, 8 adjacent to the Southern Development Area. Please could you clarify if this works is part of this development? If so, the requirements of the pre op condition will have to be complied with.

Regards

Helen Dale BSc (Hons) MIEMA CEnv

Regulatory Officer - EPR Installations North

Environment Agency, Ceres House, Searby Road, Lincoln, LN2 4DW

helen.dale@environment-agency.gov.uk

External: 02030254962

Working days: Monday to Friday

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From: Andrew Kirk [<mailto:Andrew.Kirk@thesiriusgroup.com>]

Sent: 05 May 2020 14:11

To: Branson, Jim <jim.branson@environment-agency.gov.uk>

Cc: DALE, Helen <helen.dale@environment-agency.gov.uk>

Subject: RE: Leadenham Valley Sidewall 2020

Jim

Thanks for the quick response as always. I will make sure FCC will keep you informed of progress and start dates.

Regards



Andrew Kirk | Design Manager | Environmental

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From: Branson, Jim <jim.branson@environment-agency.gov.uk>

Sent: 05 May 2020 14:03

To: Andrew Kirk <Andrew.Kirk@thesiriusgroup.com>

Cc: DALE, Helen <helen.dale@environment-agency.gov.uk>

Subject: RE: Leadenham Valley Sidewall 2020

Andrew,

Please find attached a letter accepting the design and CQA procedures for the Valley Sidewall at Leadenham Landfill Site.

Regards

Jim Branson

Technical Specialist - Groundwater & Contaminated Land

Lincolnshire and Northamptonshire Area

Environment Agency

✉ Ceres House, Searby Road, Lincoln, LN2 4DW.

☎ 02030254983

☎ 54983 (internal)

☎ 07385 349378

📧 jim.branson@environment-agency.gov.uk

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- 5) Overall did you get the right Result from us?

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From: Andrew Kirk [<mailto:Andrew.Kirk@thesiriusgroup.com>]

Sent: 24 April 2020 12:04

To: Branson, Jim <jim.branson@environment-agency.gov.uk>

Cc: Jon Seagrave <Jon.Seagrave@fccenvironment.co.uk>; Robert Ogden <Robert.Ogden@fccenvironment.co.uk>; Andrew Coxon <Andrew.Coxon@thesiriusgroup.com>; DALE, Helen <helen.dale@environment-agency.gov.uk>

Subject: RE: Leadenham Valley Sidewall 2020

Jim

Now with added appendices.

Thanks



Andrew Kirk | Design Manager | Environmental

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From: Andrew Kirk

Sent: 24 April 2020 05:40

To: Branson, Jim <jim.branson@environment-agency.gov.uk>

Cc: Jon Seagrave <Jon.Seagrave@fccenvironment.co.uk>; Robert Ogden <Robert.Ogden@fccenvironment.co.uk>; Andrew Coxon <Andrew.Coxon@thesiriusgroup.com>; DALE, Helen <helen.dale@environment-agency.gov.uk>

Subject: RE: Leadenham Valley Sidewall 2020

Jim

Amended Specification and CQA Plan with the 1m thick sidewall liner, essentially I've just dropped the formation 1m back to get the thickness required.

Regards



Andrew Kirk | Design Manager | Environmental

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T 0113 264 9960

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From: Branson, Jim <jim.branson@environment-agency.gov.uk>

Sent: 21 April 2020 16:27

To: Andrew Kirk <Andrew.Kirk@thesiriusgroup.com>

Cc: Jon Seagrave <Jon.Seagrave@fccenvironment.co.uk>; Robert Ogden <Robert.Ogden@fccenvironment.co.uk>; Andrew Coxon <Andrew.Coxon@thesiriusgroup.com>; DALE, Helen <helen.dale@environment-agency.gov.uk>

Subject: RE: Leadenham Valley Sidewall 2020

Andrew,

I have performed an initial review of the proposals for the sidewall at Leadenham and have concern on the thickness or the lining system as there will potentially be no geological barrier. I appreciate that you have submitted equivalency calculations based on the excellent lias clay found on site but the design will still be not Landfill Directive compliant. A landfill needs to have a geological barrier and an artificial sealing liner (ASL) and your proposed 600mm clay liner only satisfies one of these elements. In this area of the sidewall there will be the potential for the formation to be formed on old waste or natural strata (possibly limestone) and a fully compliant lining system will be required. This could be done by increasing the thickness of the engineered clay from 600mm to 1000mm. This would then provide two 500mm thick layers acting as the geological barrier and ASL, respectively. This would be LFD compliant as the minimum thicknesses of an ASL and geological barrier both need to be 500mm each with an equivalence of 1×10^{-9} m/s permeability.

This was discussed previously when Cells 1 & 2 were constructed and we agreed a 600mm thick liner on the northern side but this was because this area was underlain by more suitable material that could act as the geological barrier.

Should you need to discuss further please do not hesitate to contact me.

Regards

Jim Branson

Technical Specialist - Groundwater & Contaminated Land

Lincolnshire and Northamptonshire Area

Environment Agency

✉ Ceres House, Searby Road, Lincoln, LN2 4DW.

☎ 02030254983

☎ 54983 (internal)

☎ 07385 349378

✉ jim.branson@environment-agency.gov.uk

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3) Was our service Professional?

- 4) Did we have a friendly and polite Attitude?
- 5) Overall did you get the right Result from us?

Any other comments?



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From: Andrew Kirk [<mailto:Andrew.Kirk@thesiriusgroup.com>]
Sent: 20 April 2020 15:45
To: Branson, Jim <jim.branson@environment-agency.gov.uk>
Cc: Jon Seagrave <Jon.Seagrave@fccenvironment.co.uk>; Robert Ogden <Robert.Ogden@fccenvironment.co.uk>; Andrew Coxon <Andrew.Coxon@thesiriusgroup.com>
Subject: Leadenham Valley Sidewall 2020

Jim

As is required in the Leadenham Landfill PPC Permit we write to inform you of FCC's intent to construct further municipal waste void on the site as previously discussed. The SRA assessment will follow to justify the design of the sidewall and the liner strain to show it's in accordance with guidance therefore negating the behind liner settlement analysis. Settlement points are being installed at the top of the slope to provided data for interrogation.

On behalf of FCC, Sirius request that the Environment Agency reviews the proposals for construction, and confirms in writing that the proposals are acceptable.

Should you have any queries or concerns with the above, or any questions relating to the attached, please feel free to contact the undersigned

Please could you also confirm if you require a hard copy of the report for your records.

Regards



Andrew Kirk | Design Manager | Environmental

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