

Andy Losty

From: Dodd, Matthew <Matthew.Dodd@uuplc.co.uk>
Sent: 16 December 2020 14:35
To: Andy Losty
Cc: Wastewater Developer Services; Marta Wolska
Subject: RE: Repeat 1 PDE North Manchester Hospital - 4200030989

Good Afternoon Andy

Thank you for providing the final bits of information requested. The information provided is now acceptable for the 1, 30 & 100 year discharge rates with 50% reduction, as demonstrated.

We are currently undertaking some work internally to provide clearer details on the level of information we require to try and get a consistent, streamlined approach to sites of this nature. We will share this in due course.

I trust this closes the matter for this stage but if you have any further queries please forward them to me.

Kind regards



Matthew Dodd
Developer Engineer
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Customer Services
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From: Andy Losty [mailto:Andy.Losty@curtins.com]
Sent: 15 December 2020 15:18
To: Dodd, Matthew <Matthew.Dodd@uuplc.co.uk>
Cc: Wastewater Developer Services <WastewaterDeveloperServices@uuplc.co.uk>; Marta Wolska <marta.wolska@curtins.com>
Subject: RE: Repeat 1 PDE North Manchester Hospital - 4200030989
Importance: High

Matthew

Further to our conversation, please find attached:

- Updated layout plan, which includes existing pipework details. (please note that the information has been added to the pipework table, as adding to the plan would make it unreadable).
- Document containing the existing network details & network results.

This should cover all of the outstanding information required by yourselves. We would be grateful if you please confirm that the proposed drainage can be designed to the 1, 30 & 100 year discharge rates, with 50% reduction.

As per previous e-mails, we have been trying to confirm the discharge rates since October, and require the confirmation of discharge rates as soon as possible, in order that we can progress the design. As discussed, we have been extremely frustrated with how long it has taken to get to this point.

It would be good going forward to get clarity on the level of information we need to supply going forward, so we can streamline the process.

We look forward to hearing from you.

Regards

Andy Losty Project Engineer

Curtins

T. 0161 236 2394 | andy.losty@curtins.com

From: Dodd, Matthew <Matthew.Dodd@uuplc.co.uk>

Sent: 15 December 2020 11:36

To: Andy Losty <Andy.Losty@curtins.com>

Cc: Wastewater Developer Services <WastewaterDeveloperServices@uuplc.co.uk>; Marta Wolska <marta.wolska@curtins.com>

Subject: RE: Repeat 1 PDE North Manchester Hospital - 4200030989

Good Morning Andy

Thank you for the information provided. Unfortunately, you appear to have omitted some of the pipe sizes and gradients on the catchment plan. I require this for each pipe length so that I can compare to the sizes set out in the Micro Drainage calcs.

In addition to this, I will need the full Micro Drainage calcs, including network design tables and network results tables to again compare it to the catchment area plan and pipe sizes. This is to ensure the Micro Drainage results are an accurate reflection of the network being assessed. It would appear that only the summary of results have been provided.

If you can get this information back to me as quickly as possible, I can assess as a priority to ensure that you do not have to wait another 10 days, as per our usual process.

Kind regards



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From: Andy Losty [<mailto:Andy.Losty@curtins.com>]

Sent: 07 December 2020 16:46

To: Dodd, Matthew <Matthew.Dodd@uuplc.co.uk>

Cc: Wastewater Developer Services <WastewaterDeveloperServices@uuplc.co.uk>; Marta Wolska <marta.wolska@curtins.com>

Subject: RE: Repeat 1 PDE North Manchester Hospital - 4200030989

Matthew

Further to your e-mail below, please see Wetransfer link below:

<https://we.tl/t-ggddg8Uswa>

This link includes the following info:

- Drawing 075865-CUR-00-XX-DR-C-92003 Existing pipe Catchments
- Drawing NMG-CUR-XX-XX-DR-C-02002 existing Drainage (Sitewide masterplan)
- Existing Modelling results from Microdrainage
- GPR Utility Survey Plans
- Extracted pages from CCTV survey report (the CCTV covered the wider site, so I have extracted the relevant pages).

Having reviewed the wider sitewide drainage, the 4 pipe networks all finally connect to UU sewer to the south end of the site. (MH Ref 8007). Unfortunately, the survey did not confirm the size of the sewer, but the drainage entering the UU manhole is a 500 diameter pipe. (MH 083-082).

I would be grateful if you confirm that;

- All documents have been downloaded successfully.
- That the proposed discharge rates from the site can be set based on 50% reduction of the existing 1, 30 & 100-Year Return Events.

We are looking to complete the proposed design week commencing 14th December, so I would be grateful if you provide a response by Cop 11th December.

Regards

Andy Losty Project Engineer

[Curtins](#)

T. 0161 236 2394 | andy.losty@curtins.com

From: Dodd, Matthew

Sent: 09 November 2020 18:45

To: Andy Losty

Cc: Wastewater Developer Services

Subject: RE: Repeat 1 PDE North Manchester Hospital - 4200030989

Good Evening Andy

I am afraid that an assessment on surface water runoff using the modified rational method for a site of this scale is inappropriate. Therefore in line with CIRIA SuDS guidance we need to understand the head to flow relationship at the point of outfall into the public sewer.

To enable me to fully assess the site you will need to provide the following information:

- As built drawing confirming the cover and invert levels at each manhole and the size and gradient of each pipe length.
- CCTV survey and Photographic evidence to confirm accuracy of the as built survey and to confirm performance of the system
- Contributing area plan confirming how and where impermeable areas drain into the existing system. Each manhole and pipe length will need to be numbered to ensure that they correspond with the modelling data
- Micro drainage model confirming performance of system for the 1 in 1 year event – free discharge, 1 in 30 year event – 1m surcharge & 1 in 100 year event with 1.5m surcharge. The MADD factor should be set to 0 and the roughness coefficient needs to represent the performance of the system.

Please note that the public sewer records indicate that the receiving public combined sewer is 375mm dia. Can you confirm that this is the case or otherwise?

Kind regards



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From: Andy Losty [<mailto:Andy.Losty@curtins.com>]

Sent: 28 October 2020 13:42

To: Wastewater Developer Services <WastewaterDeveloperServices@uuplc.co.uk>

Cc: Marta Wolska <marta.wolska@curtins.com>

Subject: RE: Repeat 1 PDE North Manchester Hospital - 4200030989

Importance: High

Matthew

Please find attached updated existing drainage modelling results for the 2, 30 & 100-Year Storm events

The existing maximum flows from these are summarised in the table below:

Existing Drainage Area	2-Year Event (l/s)	30-Year Event (1m Surcharge) (l/s)	100-Year Event (1m Surcharge) (l/s)
Area A	38.4	71.5	92.3
Area B	78.1	117.4	132.4
Area C	60.5	71.5	80.3
Area D	84.5	171.5	190.8

Site Total	262	432	496
Total Allowable Discharge (50% Reduction)	131	216	248

Can you please clarify why the flow restriction is set to a 50% reduction from the 1:2-year storm events? The LLFA requirements are to reduce flows by 50%, up to the 100-year event, based on the existing network model. The outcome of this would mean that the allowable flow is decreased by a significant level, which therefore leads to an increased attenuation requirement.

The existing flows for the 2-year event have been calculated without a surcharge; it is our understanding that the surcharge is only applied to the 30 & 100-year storm events. Can you please clarify this requirement? The proposed drainage model includes a 1m surcharge for the 30 & 100-year storm events.

Regards

Andy Losty Project Engineer

[Curtins](#)

T. 0161 236 2394 | andy.losty@curtins.com

From: Wastewater Developer Services <WastewaterDeveloperServices@uuplc.co.uk>

Sent: 09 October 2020 15:35

To: Andy Losty <Andy.Losty@curtins.com>

Cc: Wastewater Developer Services <WastewaterDeveloperServices@uuplc.co.uk>

Subject: RE: Repeat 1 PDE North Manchester Hospital - 4200030989

Good Afternoon Andy

Thank you for providing the additional information. Can you please provide the existing 1 in 2 year rate? UU will look to agree a fixed rate, based on 50% of the existing 1 in 2 year event.

It is assumed that the drainage models have been run without a surcharge applied to the receiving sewer. Where accurate modelling data is not readily available, a 1m surcharge should be applied to the receiving sewer for model purposes.

Kind regards



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From: Andy Losty [<mailto:Andy.Losty@curtins.com>]
Sent: 29 September 2020 09:02
To: Wastewater Developer Services <WastewaterDeveloperServices@uuplc.co.uk>
Cc: Marta Wolska <marta.wolska@curtins.com>
Subject: RE: Repeat 1 PDE North Manchester Hospital - 4200030989
Importance: High

Good Morning

Please find attached the existing catchment plan, network details & modelling results as requested.

This scheme is due to go to planning imminently, so we would be grateful if you could provide a response on this matter by close of play today.

Regards

Andy Losty Project Engineer

[Curtins](#)

T. 0161 236 2394 | andy.losty@curtins.com

From: Wastewater Developer Services
Sent: 28 September 2020 18:21
To: Andy Losty
Cc: Wastewater Developer Services
Subject: RE: Repeat 1 PDE North Manchester Hospital - 4200030989

Good Evening Andy,

Can you please provide details of the model used to calculate existing run-off? It looks excessive, particularly given that the receiving sewer is noted on the drainage layout plan is 375mm.

Kind regards



Matthew Dodd
Developer Engineer
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From: Wastewater Developer Services
Sent: 16 September 2020 10:28
To: Dodd, Matthew <Matthew.Dodd@uuplc.co.uk>
Subject: Repeat 1 PDE North Manchester Hospital - 4200030989
<https://uusp/asset/DSDD/Development%20Documents/Forms/AllItems.aspx?RootFolder=%2Fasset%2FDSDD%2FDevelopment%20Documents%2FManchester%2FPre%20Enquiry%2F2020%2F4200030989%20North%20Manchester%20Hospital%20crumpsall%20M8%205RB&FolderCTID=0x01200076B6A51D6F7F51478D46DE066F31A39C&View=%7B012D10BC%2D8A6E%2D465F%2D9704%2D60731F4571F6%7D>

Thanks sue

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Please note that as from the 1 April 2020 the fee for the administration of a Building Over Agreement will be £153.00 (this fee is none vatable) <http://www.unitedutilities.com/build-over-sewer.aspx>).

Please send postal applications to the following address:

Wastewater Developer Services and Planning, 2nd floor Grasmere House, Lingley Mere Business Park, Lingley Green Ave, Great Sankey, Warrington WA5 3LP

Any applications sent to Gatewarth Industrial Estate will result in delays in your application.

From: Andy Losty [<mailto:Andy.Losty@curtins.com>]

Sent: 16 September 2020 09:49

To: Wastewater Developer Services <WastewaterDeveloperServices@uuplc.co.uk>

Cc: Marta Wolska <marta.wolska@curtins.com>

Subject: RE: Pre Development Enquiry, North Manchester Hospital - 4200030989

Good Morning

Further to the e-mail chain below, we have assessed the pre-development flow rates by modelling the existing drainage networks within the site.

The existing site drains via 4 catchments – please refer to attached Existing Catchments Drawings (draft).

The existing drainage networks have been modelled, and the flows from these models are shown in the table below:

CATCHMENT	IMPERMEABLE AREA (Ha)	DISCHARGE FLOW RATES (l/s)		
		1-YR EVENT	30-YR EVENT	100-YR EVENT
CATCHMENT A	0.27	30	80	103
CATCHMENT B	0.55	61	136	148
CATCHMENT C	0.81	53	79	88
CATCHMENT D	0.7	68	180	215
TOTAL IMPERMEABLE AREA	2.33	211	476	554
		INCLUDES 50% REDUCTION IN ACCORDANCE WITH MCC REQUIREMENTS		
PROPOSED	1.71	106	238	277

Based on these models, the maximum flow rate from the site would be 277 l/s (as opposed to the 144.4 l/s previously agreed - derived from the Modified Rational Method)

We would be grateful if you could confirm whether the revised flow rates are acceptable.

Also attached for reference

- Proposed catchment plan (Draft)
- Proposed Drainage Layout (Draft)
- Original E-mail chain

Regards

Andy Losty Project Engineer

Curtins

T. 0161 236 2394 | andy.losty@curtins.com

From: Wastewater Developer Services <WastewaterDeveloperServices@uuplc.co.uk>

Sent: 07 April 2020 10:39

To: Oliver Timmins <Oliver.Timmins@curtins.com>; Wastewater Developer Services <WastewaterDeveloperServices@uuplc.co.uk>

Cc: Marta Wolska <marta.wolska@curtins.com>

Subject: RE: Pre Development Enquiry, North Manchester Hospital - 4200030989

Dear Customer

We have carried out an assessment of your application which is based on the information provided; this pre development advice will be valid for 12 months

Foul will be allowed to drain to the public combined sewer network at an unrestricted rate. The connection(s) to the public sewer can be at a point(s) convenient to yourself

Surface water can drain to the private combined sewer network within your site at the rates proposed below.

UU have no records of hydraulic flooding in the area

If you require any further guidance please follow <http://www.unitedutilities.com/builders-developers.aspx>

If you need a make further enquiry relating to this matter please send your enquiry to

WastewaterDeveloperServices@uuplc.co.uk Please quote your DEXXXX/42XXXXXXX/GEXXXX reference number

Please Note:- enquiries sent to any other United Utilities e-mail address will be deleted.

From: Oliver Timmins [<mailto:Oliver.Timmins@curtins.com>]

Sent: 30 March 2020 16:23

To: Wastewater Developer Services <WastewaterDeveloperServices@uuplc.co.uk>

Cc: Marta Wolska <marta.wolska@curtins.com>

Subject: Pre Development Enquiry, North Manchester Hospital

To who it may concern,

We have a new development site located at North Manchester General Hospital, Crescent Drive, Crumpsall M8 5RB, GR: 384924 402148 (see attached site location plan).

The proposed development is to rebuild part of the existing hospital.

Please find attached the following documents:

- Pre-Development Enquiry Form
- Location Plan
- UU Sewer records
- Existing Drainage Plan
- Modified Rational Method Calculations

Existing Drainage

As you can see on the Existing Drainage Plan there is existing drainage within the site boundary. There is a private existing 600mm combined sewer passing through the South Western area of the site. It is shown on the attached Existing Drainage Plan that this sewer currently drains the existing site.

The public sewer records show that there are existing public sewers along Eyam Road. The records highlight that a 150mm combined sewer runs down Eyam Road towards Crescent Drive turning into a 225mm pipe before running down Crescent Drive as 375mm pipe and then a 525mm pipe.

Foul Water.

We are proposing to drain the foul by a gravity system to the existing private combined sewer located within the South Western area of the site. Foul flow rates have currently not been determined.

Please could you advise whether this connection is acceptable?

Surface Water

We are proposing to drain the surface water of the site to the existing 600mm private combined water sewer located within the site – this has been concluded following the drainage hierarchy.

The existing run-off rates have been calculated using the modified rational method (as the site is brownfield) and are shown below.

The existing catchment area of the site (excluding landscaped areas) is 21600m². The existing flows are the following:

1 Year = 93.6 l/s

30 Year = 218.5 l/s

100 Year = 288.8 l/s

In line with Manchester City Council guidance, developments should look to restrict development flows by 50% of existing. Therefore, on this basis, the proposed flows should be limited to the following:

1 Year = 46.8 l/s

30 Year = 109.2 l/s

100 Year = 144.4 l/s

Based on this we are proposing to restrict the discharge of the site to a maximum of 144.4l/s.

Please could you advise whether this is acceptable?

Further Information

Please could you also advise as to whether there are any records of UU infrastructure flooding in this location?

If you need any more information, do not hesitate to contact me.

Kind Regards,

Oliver Timmins
Graduate Engineer
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oliver.timmins@curtins.com



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