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## Application for Permit Variation

Permit N° 53997 (New Tip)

# Document NTPV 04 (C4)

Dust Management Plan

# Dust Management Plan – April 2019



**Springside Mills,  
Belmont Road,  
Bolton,  
Manchester.  
BL7 9QU**

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## **1.0 Introduction**

This Dust Management Plan outlines the methods to be employed by Urban Springside Ltd. to systematically assess, reduce and prevent potential nuisance dust generation during site operations. The Dust Management Plan is a working document with the aim of ensuring that:

- The impact dust is considered as part of the site inspection regime.
- Dust generation is primarily controlled at source by considered operational practices which include physical and management control measures.
- All appropriate measures are taken to prevent, or, where not reasonably practicable, reduce, dust generation.

This Dust Management Plan details the potential impact of dust and the control measures to be employed to mitigate the risk. This is supported through monitoring procedures and the review of documented complaints.

The methodologies detailed in this Dust Management Plan has been prepared in accordance with Environment Agency online Guidance 'Control and monitor emissions for your environmental permit'.

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## **2.0 Site background information**

Urban Springside Ltd. has acquired the Springside Mills property at Belmont, Lancashire. Accessed off Belmont Road (A675) the site is located north of Bolton (see Appendix A); the Mills are a closed, and now derelict site, which has been approved for redevelopment to a residential end land use.

Historically, the site was used to manufacture paper and tissues, ceasing operations in 2006. The operational area of the site occupies approximately 16 acres consisting of predominantly single storey industrial buildings varying in age and construction. 2 no landfills associated with the former works are also present. This operational area is part of a larger holding of circa 129 acres which is predominantly undisturbed fields and woodland located in and around the Three Nooked Shaw Brook valley (see Appendix B).

In order to develop the site miscellaneous demolition and remediation operations are to be carried out. These works include the excavation and treatment of the 'New Tip' contents as well as the restoration / capping of the 'Old Tip'.

### **3.0 Sources, receptors and impacts**

#### **3.1 Sources**

Dust may be generated during the following activities:

- Demolition operations located within the developable area of site.
- Bulk earthworks (excavation/deposition) associated with the remediation and re-profiling of the developable area of the site.
- Treatment of the circa 3,000m<sup>3</sup> of waste paper sludge located within the 'New Tip'.
- Import of materials to achieve the proposed building platform within the developable area of the site.
- On-site vehicle/plant movements.

#### **3.2 Receptors**

Once released dust will be transmitted via air transport (dispersion). The prevailing winds associated with the site are influenced by the local topography which generally dictate a north / north-easterly heading. The nearest receptors are (see also Appendix C):

- Public footpath adjacent to the 'New Tip' adjacent to the eastern developable boundary.
- Three Nooked Shaw Brook running through site from the west.
- Eagley Brook running through site NNW-SSE, immediately beyond the Public footpath.
- Lower Fold Farm located between 200m-300m to the north-west.
- Springside Cottages located 300m-400m to the south.
- Hampson's Gate House located 500m to the south west.

### 3.3 Impacts

3.31 Demolition operations – dust will be caused during the controlled demolition of buildings located within the developable area of the site. Due to the elevated nature of the existing landform, dust generated during the demolition operations will travel further than if the landform was flat. However, it is still anticipated that the dust will be transitory at worst being diluted prior to any dispersal beyond the site boundary.

3.32 Bulk earthworks – dust will be caused during the excavation/deposition of materials necessary to carry out the remediation of the site and achieve the proposed developable landform. Earthworks carried out immediately adjacent to the north eastern developable boundary has the potential to impact on the public footpath and Eagley Brook but will remain within the overall site boundary. It is anticipated that any dust generation away from this boundary will be transitory at worst being diluted prior to any dispersal beyond the site boundary.

3.33 Treatment of waste paper sludge – treatment of the waste paper sludge, located in the ‘New Tip’, will cause cement dust to become airborne during the mixing process. It is anticipated that the dust generated during this operation will be transitory at worst being diluted prior to any dispersal beyond the site boundary.

3.34 Importation of materials – the bulk import of materials to enable the proposed developable platform to be achieved has the potential to generate dust on and off-site dependent upon road conditions. Any dust generation will only be during the movement of road vehicles. It is anticipated that the dust generated on site during this operation will be transitory at worst being diluted prior to any dispersal beyond the site boundary.

3.35 On-site vehicle/plant movements – all works on site are to be carried out by heavy plant. Due to the size of the site and scope of works there is potential for dust to be generated. It is

anticipated that the dust generated on site during operations will be transitory at worst being diluted prior to any dispersal beyond the site boundary.



## **4.0 Dust control measures**

Management and physical control measures have been prepared to control any potential dust generation.

### **4.1 Site Management responsibilities**

The Urban Springside Ltd. Project Manager will have the responsibility for ensuring that dust generated on site is prevented/minimised. Regular 'Progress Meetings' will be carried out to discuss current and proposed site operations. These discussions will include the impact of works with regards to the environment including any potential dust generation.

### **4.2 Operational control measures**

Dust generation on site is anticipated, however, works will be planned and carried out in a manner to minimise any potential nuisance:

- Consideration is to be given to weather conditions which may cause dust to pass beyond the site boundary. If working methods and/or mitigation methods cannot control dust generation due to the weather works with the potential to cause dust are to cease until the weather is suitable/the generation of dust can be controlled.
- Works are to be planned and carried to prevent/minimise dust passing beyond the site boundary e.g. demolition works to be carried out towards the prevailing wind to maximise the protection provided by the building being demolished.
- Soft strip to buildings is to be carried out as much as is practicable to reduce the volume of materials with the potential to become airborne.
- On-site dust suppression to be carried out using a tractor/bowser as necessary (using the on-site water supply).

- Treatment works to the waste paper sludge is to be carried out within the confines of the 'New Tip' minimising any exposure to the wind.
- Treatment works to be carried out at a relatively low level on-site to minimise the extent of any transitory dust.
- Road vehicles delivering fill materials to site are to be sheeted at all times (unless empty).
- Road vehicles are to remain on hard standings at all times; being maintained/cleaned by the on-site road sweeper as necessary to prevent dust/trafficking.
- A speed limit of 10mph is to be implemented across the whole of site.
- Site plant haul routes are to be segregated from road going vehicles to ensure that the access routes to/from site remain clean.
- The stockpiling of materials on site is to be minimised. Any stockpiles are to be located at relatively sheltered locations, the height of which are to remain below the levels of the on-site buildings.

## **5.0 Monitoring**

Prior to any works commencing the Urban Springside Ltd. Project Manager is to check and document the weather conditions on the '*Daily Site Diary*'. This enables potential dust issues to be predicted, with proactive remedial actions implemented prior to any issues arising. The assessing of the weather conditions should be an ongoing process with the information recorded at regular intervals.

The Urban Springside Ltd. Project Manager (or designated person – 'DP') will carry out dust monitoring a minimum of daily, along the site boundary, with all information recorded on the ***Daily Dust Inspection Form*** (See Appendix D). If planned works are being carried out which may generate dust these inspections are to be increased as necessary.

Dust monitoring is to be carried out in the following manner:

- An initial assessment (taken from the higher levels of site) of any dust is to be carried to visually determine the likely locations of dust migrating beyond the site boundary (this is possible due to the site being located in a valley).
- After the initial assessment has been carried out any suspect locations are to be visited to determine if dust is migrating beyond the site boundary.
- If dust is identified migrating beyond the site boundary, the source of the dust is to be identified and any corrective/remedial actions carried out to minimise any potential receptor impact.
- To supplement the daily dust assessments, dust monitoring points (sticky pads) are to be established around the site boundary to record the presence of nuisance dust and provide a formal quantification on a fortnightly basis.

All staff responsible for assessing dust will receive appropriate training from the Urban Springside Ltd. Project Manager. Each person carrying out dust inspections will initially be accompanied by the Urban Springside Ltd. Project Manager to ensure that the dust is being perceived similarly.

All on site personnel are responsible for reporting any dust issues to the Urban Springside Ltd. Project Manager immediately. This will be instructed during the site-specific site induction. Any dust issues reported to the Urban Springside Ltd. Project Manager are to be investigated immediately with the information recorded on the ***Dust Investigation Form*** (See Appendix E).

## **6.0 Dust complaints procedure**

Any complaints are to be reported to the Urban Springside Ltd. office immediately.

Any dust complaints are to be entered onto a ***Dust Complaints Form*** (See Appendix F) by the Urban Springside Ltd. Project Manager; being entered into the relevant section of the CPH&SP.

The Urban Springside Ltd. Project Manager is to ensure that:

- The complaint is investigated to identify the cause of the dust.
- Any abnormal on-site activity is to be assessed and if necessary preventative action taken to prevent a reoccurrence of the same problem. Any actions are to be documented.
- The investigation is to be forwarded to the relevant Director for review/comment.
- The Complainant is to be contacted and updated on the investigation and the actions taken.
- The complaint is to be discussed at the following 'Progress Meeting' identifying the cause and the measures implemented to prevent any reoccurrence.
- Any changes to site procedures to prevent reoccurrence are to be documented and conveyed to site personnel in a TBT.
- If the investigation indicates that the complaint has not been justified this will also be recorded on the Dust Complaints Form.

## **7.0 Dust mitigation procedure**

The generation of dust passing beyond the site boundary may be identified by either:

- On-site reporting of dust by site personnel.
- Detection of dust at the site boundary as part of the monitoring procedure.
- By receipt of a dust complaint from a third party.

Any dust generation is to be mitigated as follows:

- The Urban Springside Ltd. Project Manager will carry out an assessment of the works causing the dust to ensure that it is being carried out as detailed in the relevant 'Method Statement'.
- If works are found to be being carried out incorrectly all associated personnel are to be re-briefed on the associated 'Method Statement' to ensure correct procedures are followed.
- If the works are identified as being carried out as detailed in the relevant 'Method Statement', and dust is still being generated, works are to be modified to reduce the dust.
- If works cannot be modified sufficiently to reduce elevated dust levels to an acceptable level, works are to cease until additional dust suppression measures can be implemented.
- Any outcome of the mitigation is to be documented and discussed at the following 'Progress Meeting'.
- Operational procedures will be reviewed by the relevant Director to confirm compliance.

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## **8.0 Emergency plan**

An emergency incident may result in the loss of control of dust being generated on site and could have an unacceptable short-term impact on the local community.

**8.1 Abnormal meteorological conditions** – extremely high winds following very dry conditions could give rise to excessive dust which passes beyond the site boundary.

Mitigation measures for works impacted by abnormal meteorological conditions are the same as those detailed in Section 7.

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## **9.0 Compliance and review**

The Dust Management Plan is to be managed in accordance with the Urban Regen Ltd. Environmental Management System accreditation to ISO 14001.

It will be the responsibility of the Urban Springside Ltd. Project Manager to ensure that the Environmental Management System is adhered to.

It will be the responsibility of the relevant Director to carry out monitoring, auditing and evaluation of site performance to ensure compliance with the ISO 14001 standard.

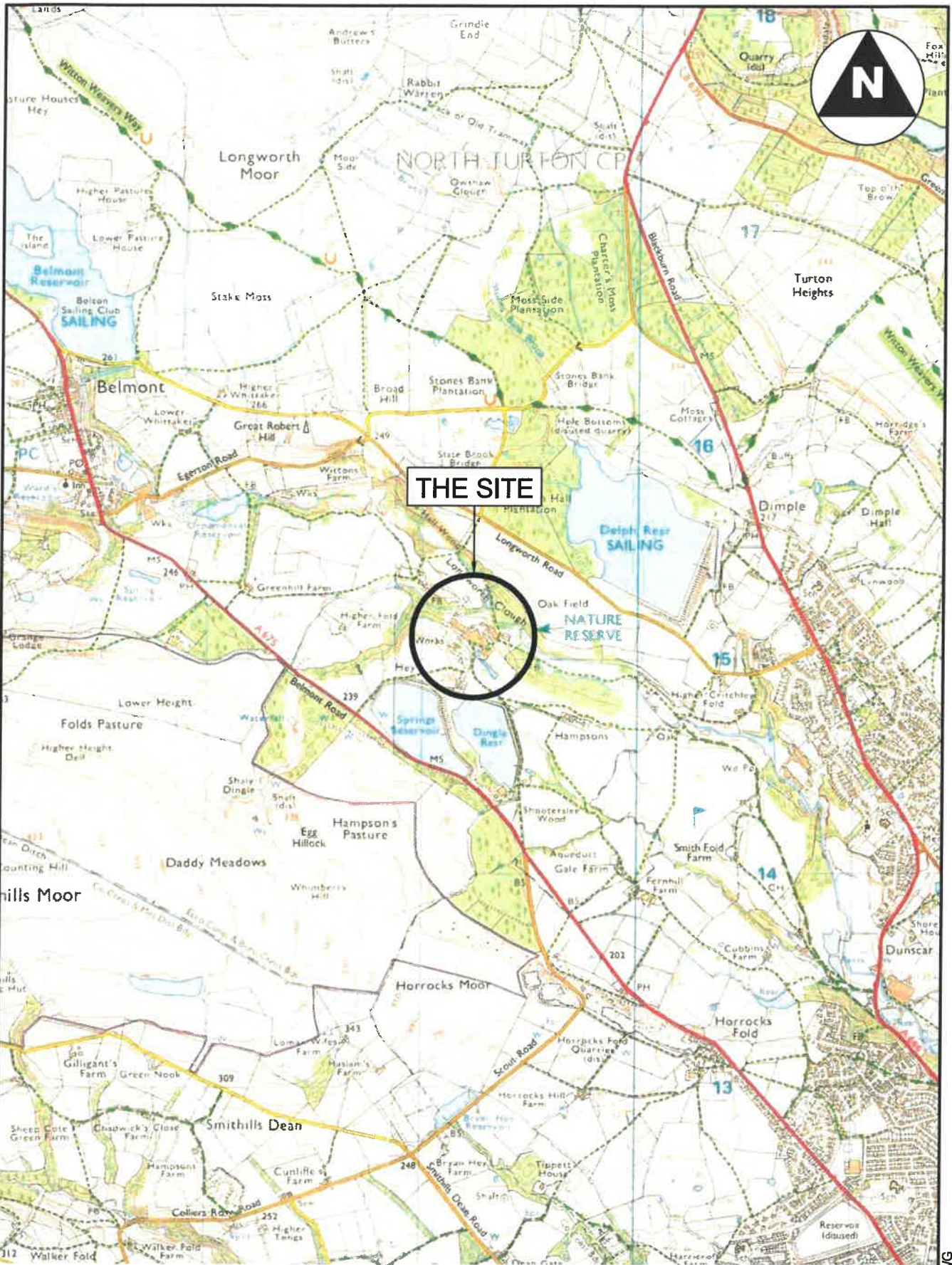
Dust control methods will be reviewed through internal audits as part of the Environmental Management System.

External audits will be carried out to that ensure that the ISO 14001 standard is retained.



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## Appendix A Site location plan



Reproduced from the 2000 1:25 000 Explorer 287 map with the permission of The Controller of Her Majesty's Stationary Office, © Crown Copyright. EDGE Consultants UK Ltd., Atlas House, Simonsway, Manchester, M22 5PP. AL51156A.

SCALE 1 : 25 000 - AT A4



TITLE

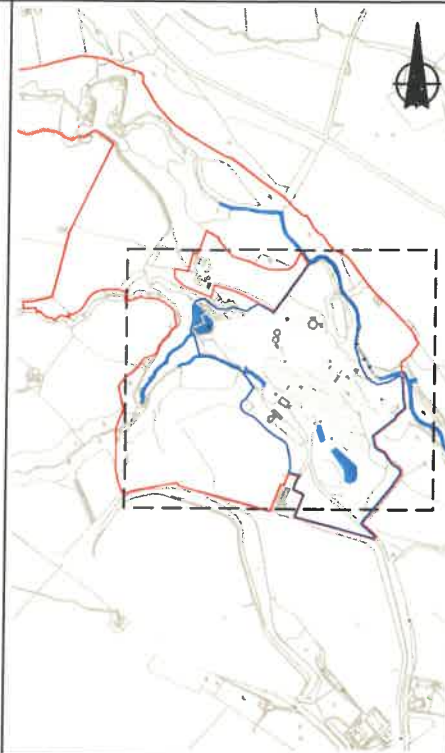
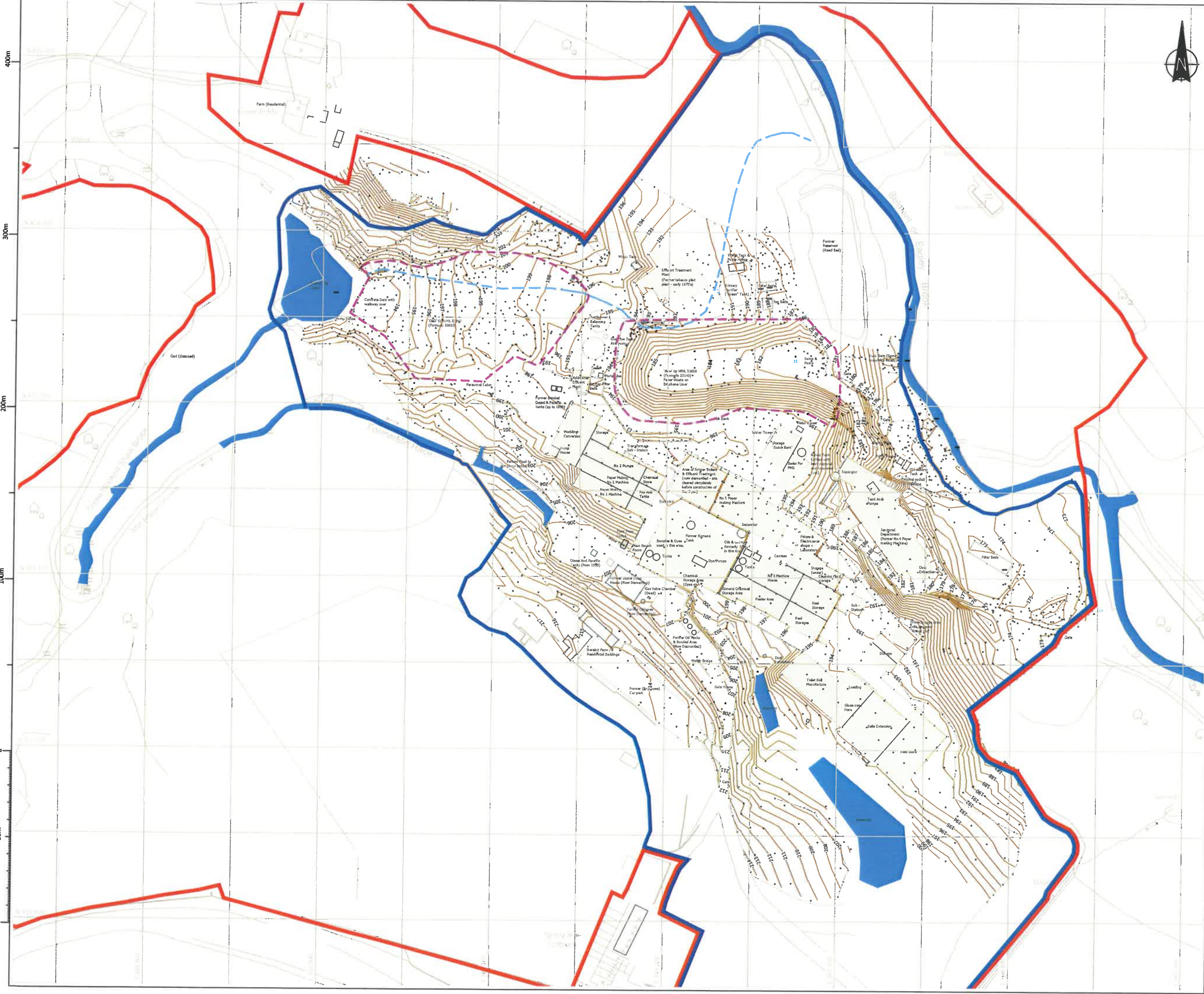
SITE LOCATION PLAN

FIG. 1A

535.2-060914-D1.3-SITE.DWG

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## Appendix B Topographic landform plan



**Location Plan**      **Scale NTS**

- Notes:**
- Ownership boundary —
  - Developable boundary —
  - Major contour —
  - Spot level •
  - Buildings (within developable boundary) □
  - Water bodies ■
  - Culverted watercourse - - -
  - Approximate tip boundaries (see note 6) - - -

- Notes**
1. This plan is to be read in conjunction with all relevant drawings and specifications associated with the Former Kruger Mills works.
  2. All topographic survey data detailed on this plan was extracted from drawing 'RP001/100 dated Nov 2008' provided by RIP Surveying Consultants.
  3. The contours detailed on this drawing are the interpretation of Urban Regen Ltd. using the topographic survey information detailed on drawing 'RP001/100'.
  4. The contours detailed below building footprints represent the slab levels of the associated building.
  5. Trees / vegetation have been omitted for clarity.
  6. The tip boundaries as detailed are approximates only. No definitive drawings have been found detailing the actual boundaries.

**Survey Information:**

Coord System:	Coord Type:	Primary Survey Control:	Secondary Survey Control:
Local	Grid	Site	OSBM

Rev	Date	Amendment	Drawn	Checked

**urban regen** Urban Regen Ltd.  
23 Springvale,  
Edgworth,  
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Email: info@urbanregen.co.uk  
Web: www.urbanregen.co.uk

Client:  
**Urban Springside Ltd**

Project:  
**Former Kruger Tissues**

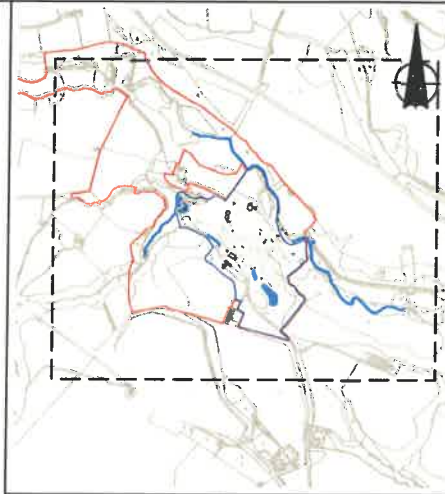
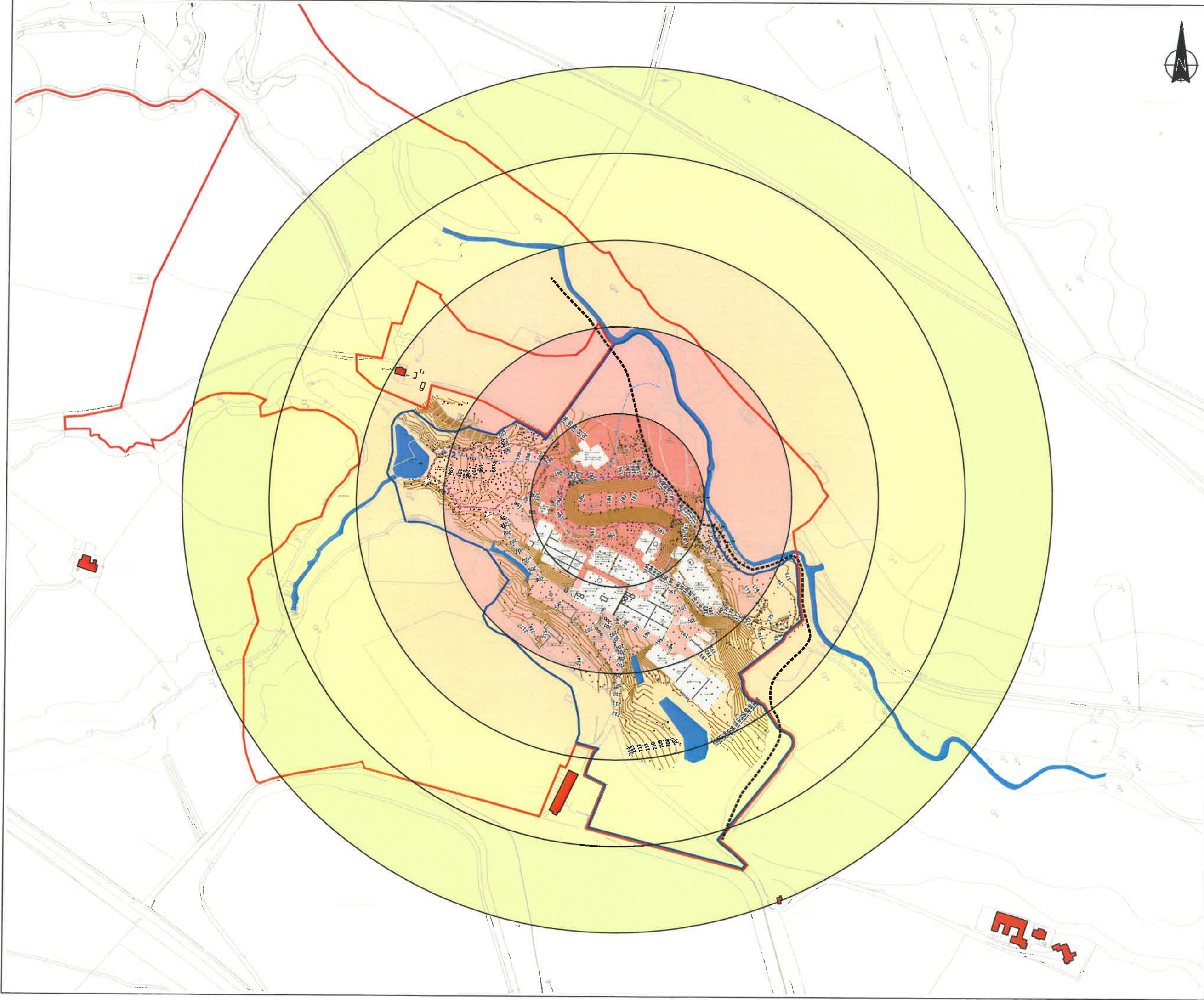
Title:  
**Topographic landform**

Scale:	First Issue:	Drawn:	Checked:
1:2000 @ A3	14th Sept 2018	D.J.Woodrow	D.J.Woodrow

Drawing No: **USL-18-001**      Revision:

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## Appendix C Environmental receptor plan



Location Plan Scale NTS

Notes:

- Ownership boundary —
- Developable boundary —
- Major contour —
- Spot level location \*
- Existing buildings (within developable boundary) ■
- Immediate water bodies ■
- Culverted watercourse - - -
- Approximate tip boundaries (see note 6) - - -
- Approximate alignment of public footpath - - - -
- Immediate residential receptors ■
- Distance of receptors from works (see note 7)
  - 0 - 100m ■
  - 100m - 200m ■
  - 200m - 300m ■
  - 300m - 400m ■
  - 400m - 500m ■

Notes

1. This plan is to be read in conjunction with all relevant drawings and specifications associated with the Former Kruger Mills works.
2. All topographic survey data detailed on this plan was extracted from drawing 'RP001/100 dated Nov 2008' provided by RJP Surveying Consultants.
3. The contours detailed on this drawing are the interpretation of Urban Regen Ltd, using the topographic survey information detailed on drawing 'RP001/100'.
4. The contours detailed below building footprints represent the slab levels of the associated building.
5. Trees / vegetation have been omitted for clarity.
6. The tip boundaries as detailed are approximates only. No definitive drawings have been found detailing the actual boundaries.
7. The distances associated with the receptors are centred on the 'New Tip' where the majority of the earthworks are to be carried out.

Survey Information:

Co-ord System:		Co-ord Type:		Primary Survey Control:		Secondary Survey Control:	
Local		Grid		Site		OSBM	
Rev	Date	Amendment				Drawn	Checked

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 Email: info@urbanregen.co.uk  
 Web: www.urbanregen.co.uk

Client:  
**Urban Springside Ltd**

Project:  
**Former Kruger Tissues**

Title:  
**Environmental receptor plan**

Scale:	1:4000 @ A3	First Issue:	5th April 2019	Drawn:	D.J.Woodrow	Checked:	D.J.Woodrow	
Drawing No:							Revision:	

USL-18-006

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## Appendix D Daily Dust Inspection Form

Daily Dust Inspection Form					Date
<b>Time of inspection</b>					
<b>Location</b> <small>e.g. street name etc.</small>					
<b>Weather conditions</b> <small>(dry/rain/fog/snow etc.)</small>					
<b>Temperature</b> <small>(warm/cold etc. or degrees if known)</small>					
<b>Wind strength</b> <small>(none/light/steady/strong/gusty etc.)</small>					
<b>Wind direction</b> <small>(N/NE/E/SE/S/SW/W/NW)</small>					
<b>Dust intensity</b> <small>(see table below)</small>					
<b>Dust duration</b> <small>(during the test)</small>					
<b>Type of dust</b> <small>(What is the dust likely to be?)</small>					
<b>Nearest receptor sensitivity</b> <small>(see table below)</small>					
<b>Source</b> <small>(Where is the dust coming from)</small>					
<b>Comments/observations</b>					
<b>Sketch of inspection locations</b>					
<p><b>Intensity</b> 0 – No dust 1 – Very low 2 – Low 3 – Medium 4 – High 5 – Very high 6 – Extremely high</p>					
<p><b>Receptor sensitivity</b> Low (e.g. Footpath, road etc.) Medium (e.g. industrial or commercial workplaces etc.) High (e.g. housing, pub/hotel etc.)</p>					



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## Appendix E

## Dust Investigation Form

<b>Dust Investigation Form</b>	
<b>Date</b>	
<b>Time</b>	
<b>Location</b>	
<b>Reported by</b>	
<b>Weather conditions</b> <small>(dry/rain/fog/snow etc.)</small>	
<b>Temperature</b> <small>(warm/cold etc. or degrees if known)</small>	
<b>Wind strength</b> <small>(none/light/steady/strong/gusty etc.)</small>	
<b>Wind direction</b> <small>(N/NE/E/SE/S/SW/W/NW)</small>	
<b>Dust intensity</b> <small>(see table below)</small>	
<b>How long did the dust last?</b>	
<b>What do you think the source/cause was?</b>	
<b>What actions were taken?</b>	
<b>Comments/observations</b>	
<b>Intensity</b> 0 – No dust 1 – Very low 2 – Low 3 – Medium 4 – High 5 – Very high 6 – Extremely high	

# Appendix F

# Dust Complaints Form

<b>Dust Complaint Form</b>		
<b>Date of complaint</b>		
<b>Time of complaint</b>		
<b>Name of complainant</b>		
<b>Address of complainant</b>		
<b>Tel no. of complainant</b>		
<b>Date of dust</b>		
<b>Time of dust</b>		
<b>Location of dust</b> <small>(if not at the above address)</small>		
<b>Weather conditions</b> <small>(dry/rain/fog/snow etc.)</small>		
<b>Temperature</b> <small>(warm/cold etc. or degrees if known)</small>		
<b>Wind strength</b> <small>(none/light/steady/strong/gusty etc.)</small>		
<b>Wind direction</b> <small>(N/NE/E/SE/S/SW/W/NW)</small>		
<b>Complainant's description of the odour</b>		
<ul style="list-style-type: none"> <li>• Description of the incident</li> <li>• Intensity (see table below)</li> <li>• Duration</li> <li>• Constant or intermittent?</li> <li>• Any other comments</li> </ul>		
<b>Are there any other complaints relating to the site/location either previously or relating to the same exposure?</b>		
<b>Any other relevant information</b>		
<b>What operations were being carried out at the time?</b>		
<b>Actions taken</b>		
<b>Form completed by</b>	<b>Signature</b>	<b>Date</b>
<b>Intensity</b> 0 – No dust 1 – Very low 2 – Low 3 – Medium 4 – High 5 – Very high 6 – Extremely high		

