

**LKPHL 11 - SITE CONDITION REPORT FOR
Blaxton Aggregates Limited
Bank End Quarry
Bank End Road
Blaxton
Doncaster
South Yorkshire
DN9 3AN**

1.0 SITE DETAILS	
Name of the applicant	Blaxton Aggregates Limited
Activity address	Bank End Quarry, Bank End Road, Blaxton, Doncaster, South Yorkshire DN9 3AN
National grid reference	SE 68332 00036

Document reference and dates for Site Condition Report at permit application and surrender	V2 25.05.2021
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Document references for site plans (including location and boundaries)	Proposed Permitted Area within application documents
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Note:

In Part A of the application form you must give us details of the site's location and provide us with a site plan. We need a detailed site plan (or plans) showing:

- *Site location, the area covered by the site condition report, and the location and nature of the activities and/or waste facilities on the site.*
- *Locations of receptors, sources of emissions/releases, and monitoring points.*
- *Site drainage.*
- *Site surfacing.*

If this information is not shown on the site plan required by Part A of the application form then you should submit the additional plan or plans with this site condition report.

2.0 Condition of the land at permit issue

<p>Environmental setting including:</p> <ul style="list-style-type: none"> • geology • hydrogeology • surface waters 	<p>The site is located at Bank End Quarry, Bank End Road, Blaxton, Doncaster, South Yorkshire DN9 3AN</p>
<p>Pollution history including:</p> <ul style="list-style-type: none"> • pollution incidents that may have affected land • historical land-uses and associated contaminants • any visual/olfactory evidence of existing contamination • evidence of damage to pollution prevention measures 	<p>Pollution incidents that may have affected land – No known from previous history historical land-uses and associated contaminants – the site was farmland prior to being quarried for limestone and then became a permitted soils and Prior to the current permit being issued in 2018 it had been used for glass recycling.</p> <p>No visual evidence of pollution.</p>
<p>Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available)</p>	
<p>Baseline soil and groundwater reference data</p>	<p>See borehole information</p>
<p>Supporting information</p>	<ul style="list-style-type: none"> • Source information identifying environmental setting and pollution incidents • Historical Ordnance Survey plans • Site reconnaissance • Historical investigation / assessment / remediation / verification reports

- Baseline soil and groundwater reference data

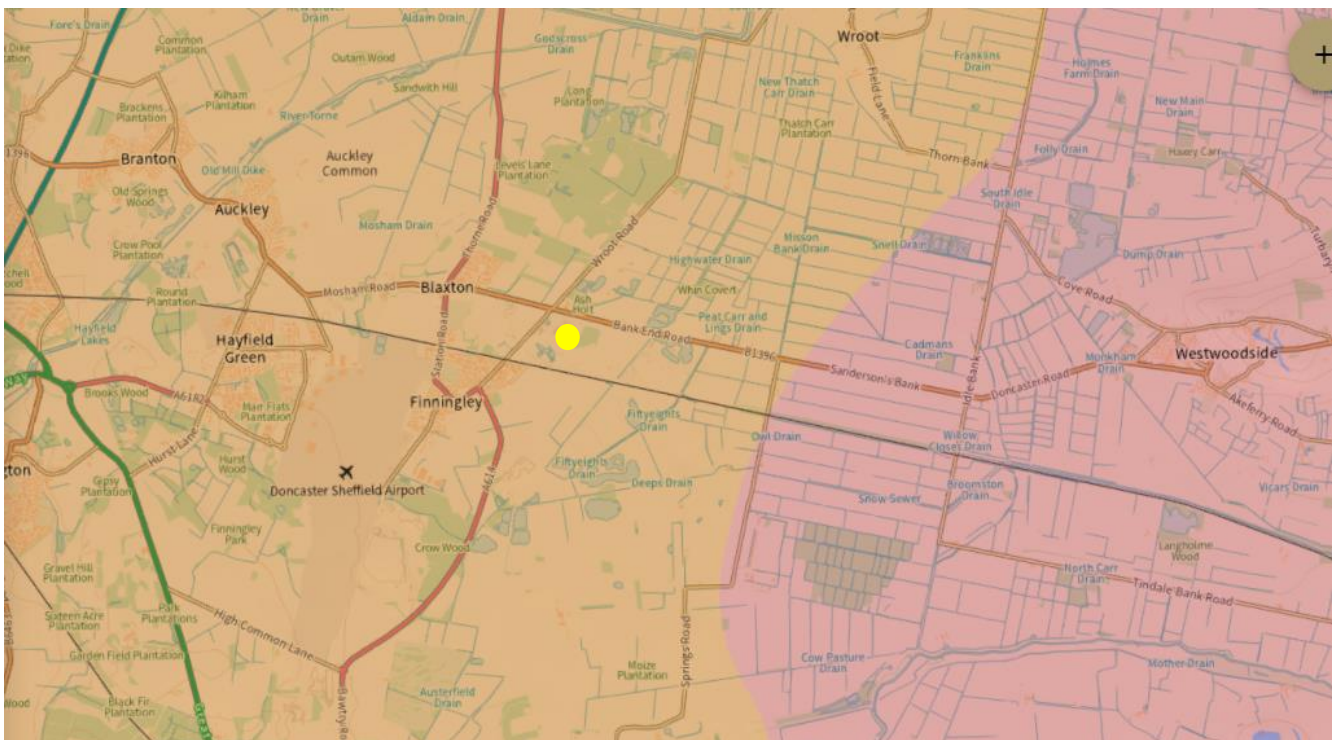
Environmental setting including:

- geology
- hydrogeology
- surface waters

Geology

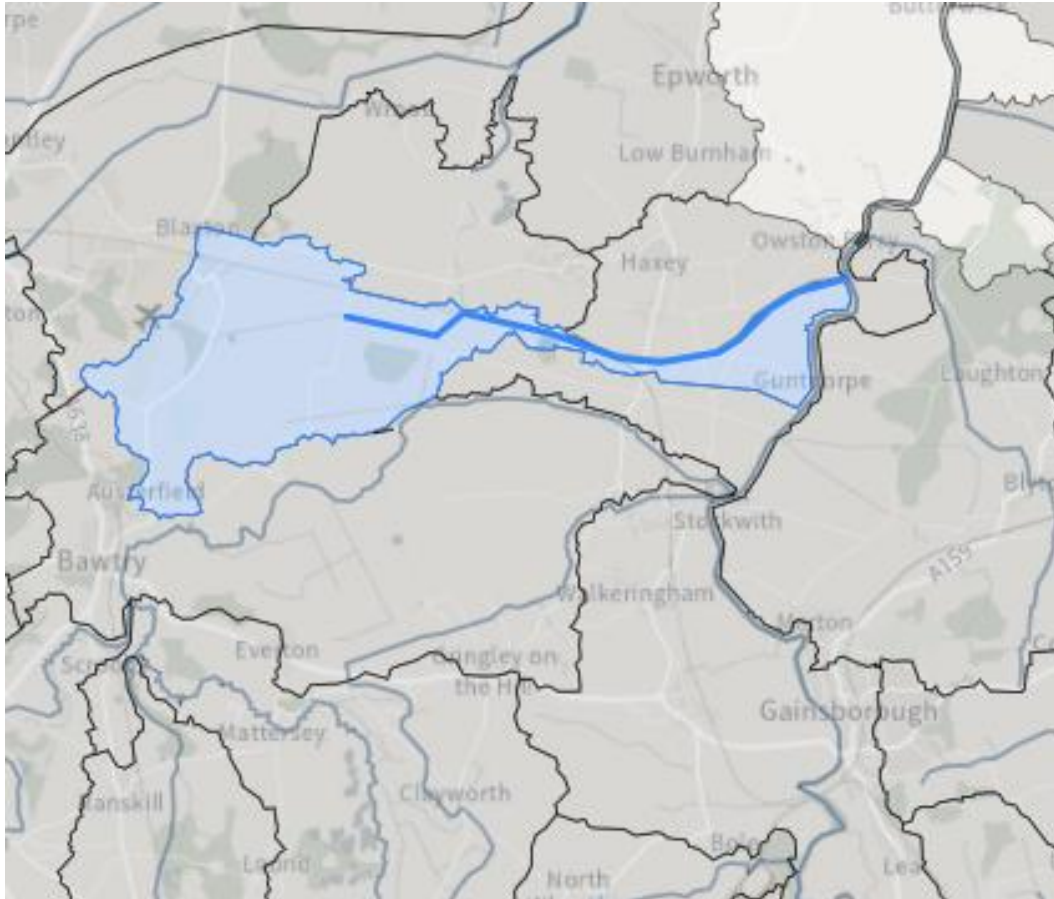
The British Geological Survey website shows the site is located upon Chester Formation - Sandstone, pebbly (gravelly). Sedimentary bedrock formed between 250 and 247.1 million years ago during the Triassic period.

The superficial deposits are of River Terrace Deposits - Sand and gravel. Sedimentary superficial deposit formed between 2.588 million years ago and the present during the Quaternary period.



Surface Waters

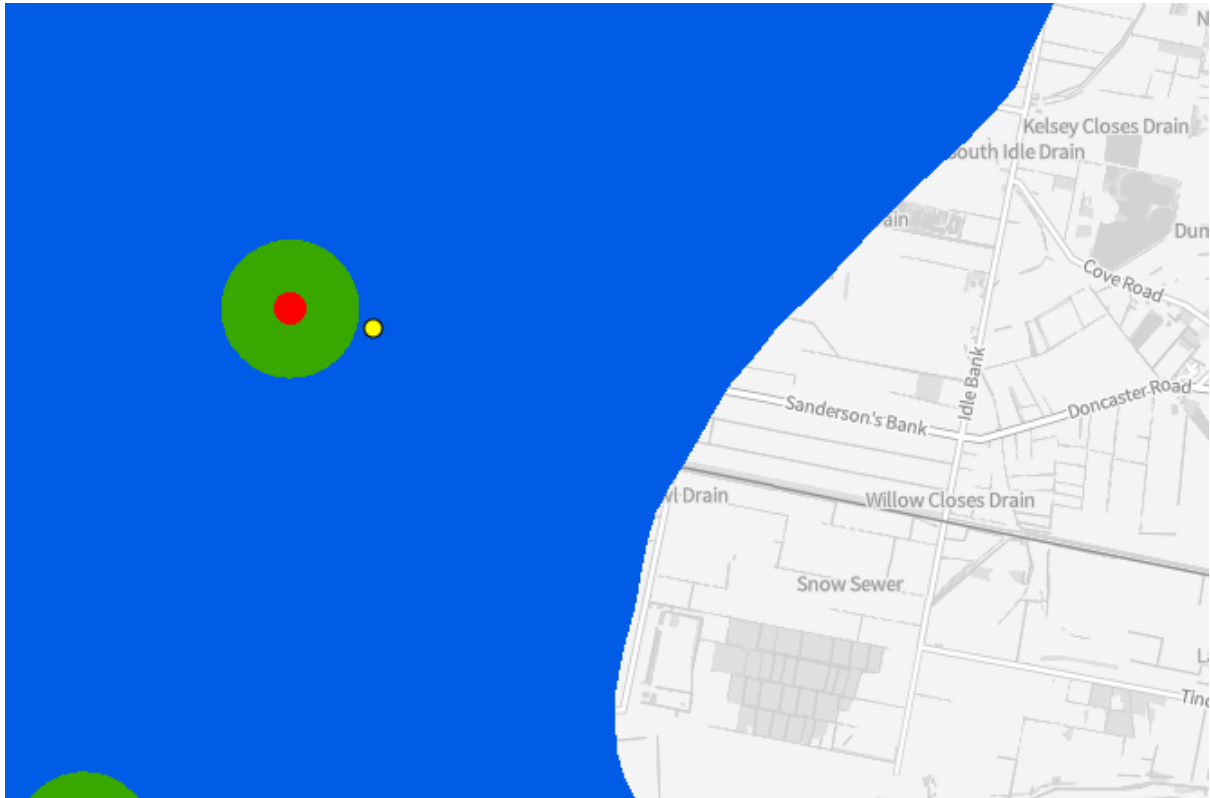
River catchment taken from Environment Agency catchment Data Explorer Site –
(trib of Trent) Water Body



The site not connected to a local water course via surface water drains due to the lack of impermeable surfaces employed on the site.

Hydrology

Map showing source protection zones, with the site being located within zone 3 total catchment.



Records from the British Geological Society's (BGS) provided the following borehole information taken from the Dunston area.

SE 6829 0008 **88** **SE6010** **118**

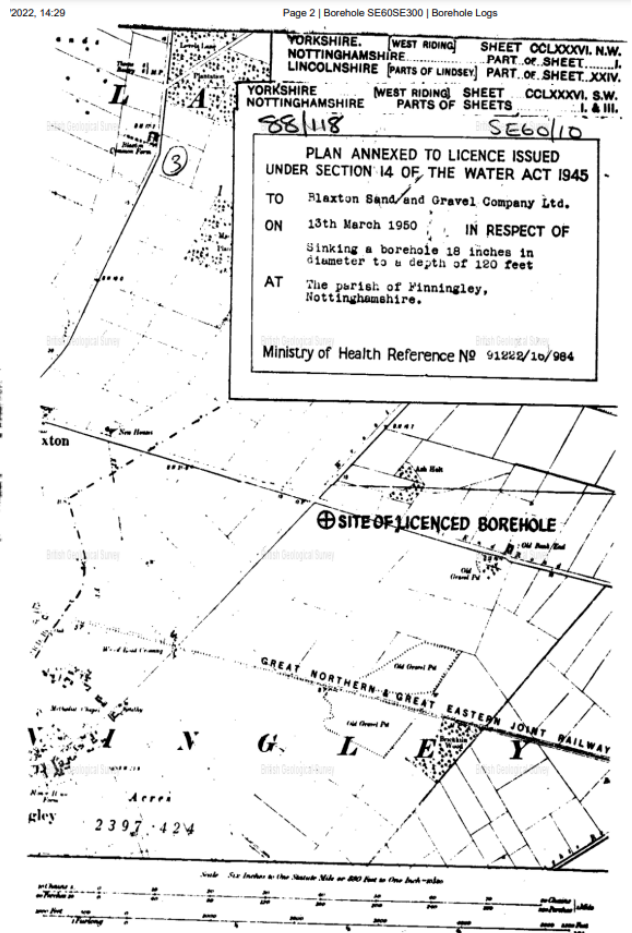
THE BLAXTON SAND & GRAVEL CO. LTD.
SECTION OF 18" DIAMETER BOREHOLE
NEAR
WROOD CROSS ROADS, BLAXTON,
DONGLESTER.

Description of Strata.	Thickness.		Depth.	
	Pt.	Ins.	Pt.	Ins.
Soil	6.			
Clay & Gravel	6.	0.	6.	6.
Sand	3.	0.	9.	6.
Gravel	7.	0.	12.	6.
Sand	18.	6.	26.	0.
Sandstone	47.	0.	73.	0.
Sandstone & Marl	4.	0.	77.	0.
Sandstone	55.	0.	132.	0.

BOREHOLE LINING:-
18" inside di. lining tubes to 36 feet.
Rest water level 6'-6" below surface.
Pumping level @ 5,000 g.p.h. 26'-9" " "
Pumping level @ 10,000 g.p.h. 55'-0" " "

Sited on Water SE JW. 7.2.52. C.S.
Yale 286 Suppl.
Notts 1 SE/W.

Rec: 4.1.1952



Principal aquifer - Source Magic Map



The site is located within a principal aquifer.

Pollution history including:

Pollution incidents that may have affected land
Historical land-uses and associated contaminants

Local Permitted Activities

The following information is taken from the Environment Agency Public Register for waste operations:

Name	Address	Site type	Permit Number	Distance (km)
R Spencer	Rose Bungalow, Mosham Road, Blaxton, Doncaster, South Yorkshire, DN9 3BA	A5 : Landfill taking Non-Biodegradable Wastes	VP3897FJ	0.8
Gary Abeysekera	Unit 2 Ash Holt Ind Park, Bank End Road, Blaxton, Doncaster, South Yorkshire, DN9 3NT	SR2011 No3: Vehicle Depollution Facility <5000 tps	XP3094VA	1.0
BLAXTON AGGREGATES LIMITED	Bank End Quarry, Bank End Road, Blaxton, Doncaster, South Yorkshire, DN9 3AN	S0906 No 6: Inert & Excavation WTS with treatment	FB3901CM	1.0
EXSUPERO LIMITED	Unit 11 Ash Holt Industrial Estate, Bank End Road, Finningley, Doncaster, South Yorkshire, DN9 3NT	SR2011 No3: Vehicle Depollution Facility <5000 tps	CB3604FM	1.1
FREELAND HORTICULTURE LIMITED	Wroot Road Quarry, Wroot Road, Finningley, Doncaster, South Yorkshire, DN9 3DU	A22 : Composting Facility	EB3208HK	1.6
D G Brownbridge	Old Bank Farm Landfill, Bank End Road, Finningley, Doncaster, South Yorkshire, DN9 3NT	A5 : Landfill taking Non-Biodegradable Wastes	RP3397FK	1.6

The above highlights that there are a number existing permitted waste facilities within 1km of the site (distance shown is based upon the postcode).

Any visual/olfactory evidence of existing contamination

The permitted area is currently set on hard standing with no visual pollution consistent with being used for aggregate recycling.

Evidence of damage to pollution prevention measures

The permitted area will be a mixture of impermeable surface leading to a sealed drainage and hardstanding. The proposed new wash plant and road sweeper de-watering bay will be located on an impermeable concrete pad with a geo-membrane underneath. This will all drain to a sealed sump and the captured water will be used back in the washing process.

The existing operation that is carried out under SR2009 No 6: inert and excavation waste transfer station with treatment below 250kte - inert and excavation waste transfer station with treatment will be carried out on hard standing in line with the existing permitted rules.

Provisions will be made for clearing spills including the constant availability of road sweepers on site.

Evidence of historic contamination, for example, historical site investigation, assessment, remediation and verification reports (where available)

The following is known about sites history.

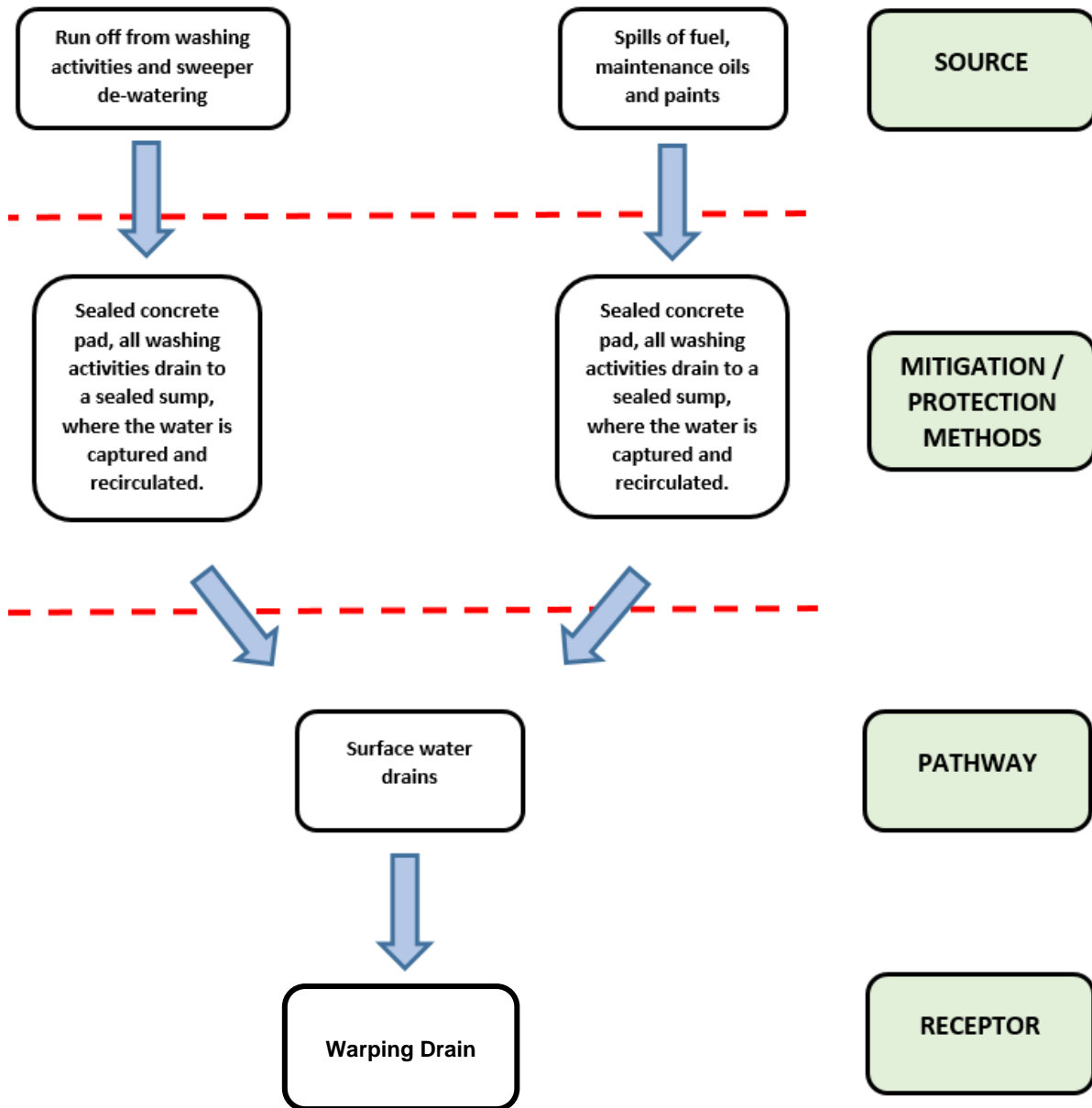
Currently the existing permitted area is set in Blaxton Quarry which is former sand and gravel quarry, which now closed.

Historic maps show that the area was farmland prior to the quarry.

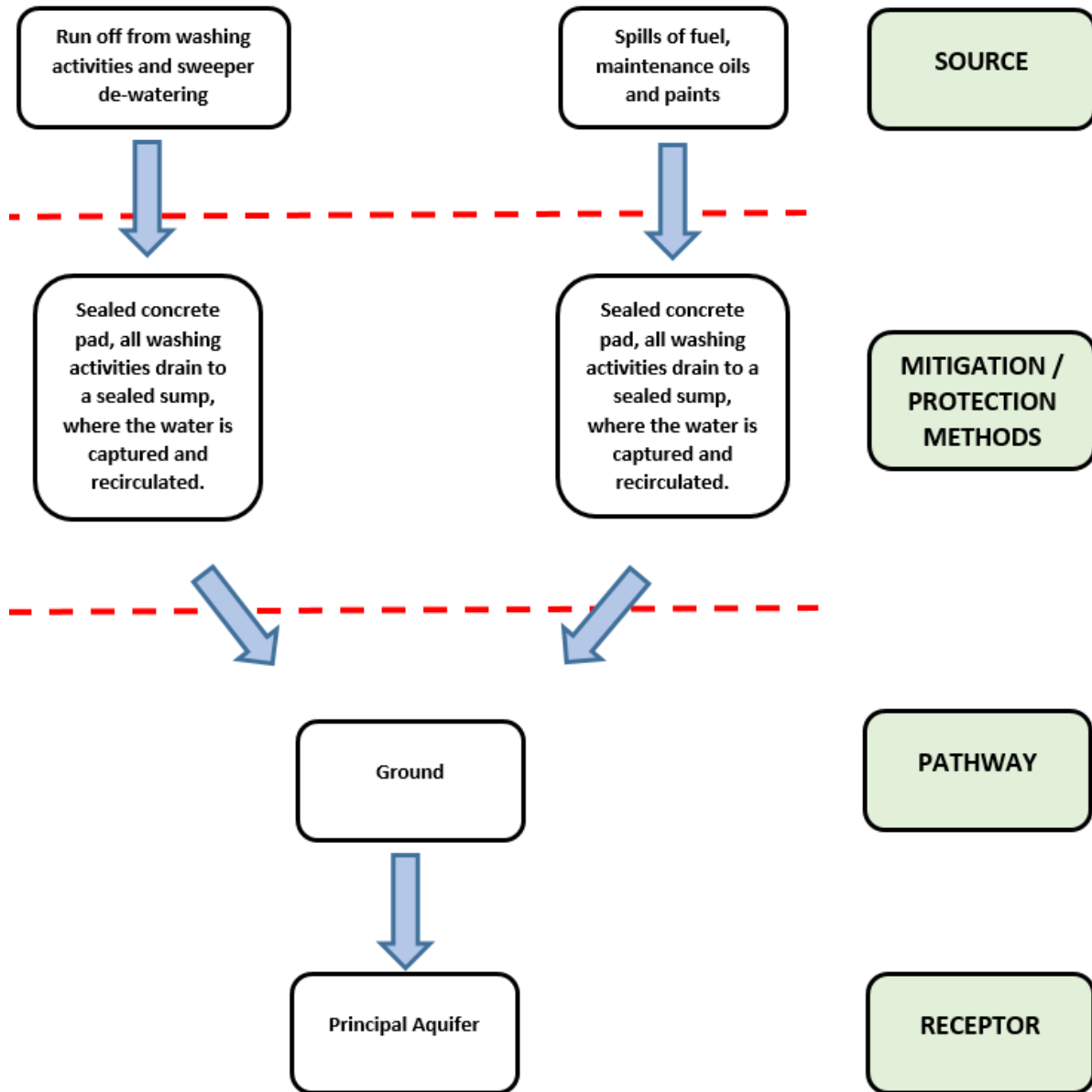
Aerial photograph of the existing recycling and quarrying operation.



Basic Conceptual Site Model (CSM) showing the source-pathway-receptor linkage and how they are to be broken - Surface Water – Warping Drain.



Basic Conceptual Site Model (CSM) showing the source-pathway-receptor linkage and how they are to be broken - Ground Water – Primary Aquifer





Description of nearby surface water features/watercourses and the potential risks

The site is located within the Warping Drain catchment, which forms part of the River Trent catchment. The Warping Drain is fed in the locality by surface water drains and dykes such as. In the event of and containment or spill at the site without any pollution prevention measures that are explained within the Environmental Risk Assessment and highlighted in the Basic Conceptual Site Model (CSM) there would certainly be an impact on surface water from, however preventative measures have been taken.

Drainage – The current operation is carried out in line with the environmental permit on hardstanding. The new washing operation will be carried out on an impermeable concrete pad as part of a sealed drainage system, draining to a sealed sump. This also protects form spills of plant fuel, grease or any other liquids entering surface water drains,

Site location in proximity to the Warping Drain



Symbol	Item
	Site
	Warping Drain

3.0 Permitted activities	
Permitted activities	Screening of soils, recycling and washing of aggregates and de-watering of road sweepings
Non-permitted activities undertaken	Related activities to serve the waste management activity including – <ul style="list-style-type: none"> - Office - Maintenance of plant and equipment
Document references for: <ul style="list-style-type: none"> • plan showing activity layout; and • environmental risk assessment. 	Site plan

Permitted activities

The permitted activity is the screening of soils, recycling and washing of aggregates and de-watering of road sweepings.

Non-permitted activities undertaken

The site has a small cabin.

The cabin is used predominantly as an office.