



APPENDICES



APPENDIX 1
Nature Conservation Sites

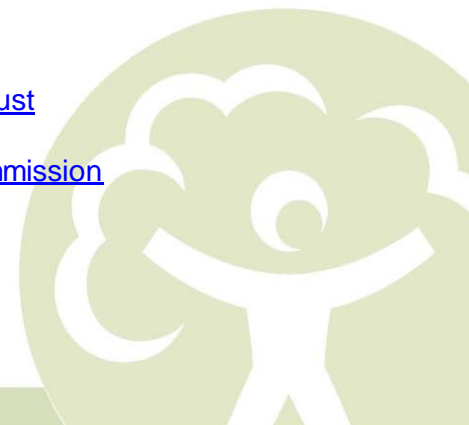
Nature and Heritage Conservation

Screening Report: Bespoke Installation

Reference	EPR/DP3935ER/V007
NGR	SK 63434 39817
Buffer (m)	80
Date report produced	5 February 2021
Number of maps enclosed	5

The nature conservation sites identified in the table below must be considered in your application.

Nature and heritage conservation sites	Screening distance (km)	Further information
Local Nature Reserve (LNR) Netherfield Lagoons (LNR)	2	Natural England
Local Wildlife Sites (LWS) Gamston Pits (A52 Pit) Shady Lane Pits, Holme Pierrepont Holme House Grassland Holme Pierrepont I Holme Pierrepont Skylarks Holme Pierrepont II Netherfield Dismantled Railway Sidings Netherfield Pits The Avenue Pool Colwick Country Park Trent Bluff Scrub, Radcliffe Dewberry Hill	2	Appropriate Local Record Centre (LRC)
Ancient Woodland Malkin Hill Wood	2	Woodland Trust Forestry Commission



Protected Species	Screening distance (m)	Further Information
European Eel migratory route Atlantic Salmon migratory route River Lamprey migratory route	up to 500m	Natural England Environment Agency. Dial 03708 506 506 for your local Fisheries and Biodiversity team

Protected Habitats	Screening distance (m)	Further Information
Fens Coastal and Floodplain Grazing Marsh	up to 500m	Natural England

Where protected species are present, a licence may be required from Natural England or the Welsh Government to handle the species or undertake the proposed works.

The relevant Local Records Centre must be contacted for information on the features within local wildlife sites. A small administration charge may also be incurred for this service.


Please note we have screened this application for protected and priority sites, habitats and species for which we have information. It is however your responsibility to comply with all environmental and planning legislation, this information does not imply that no other checks or permissions will be required.

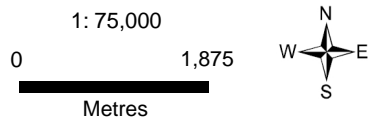
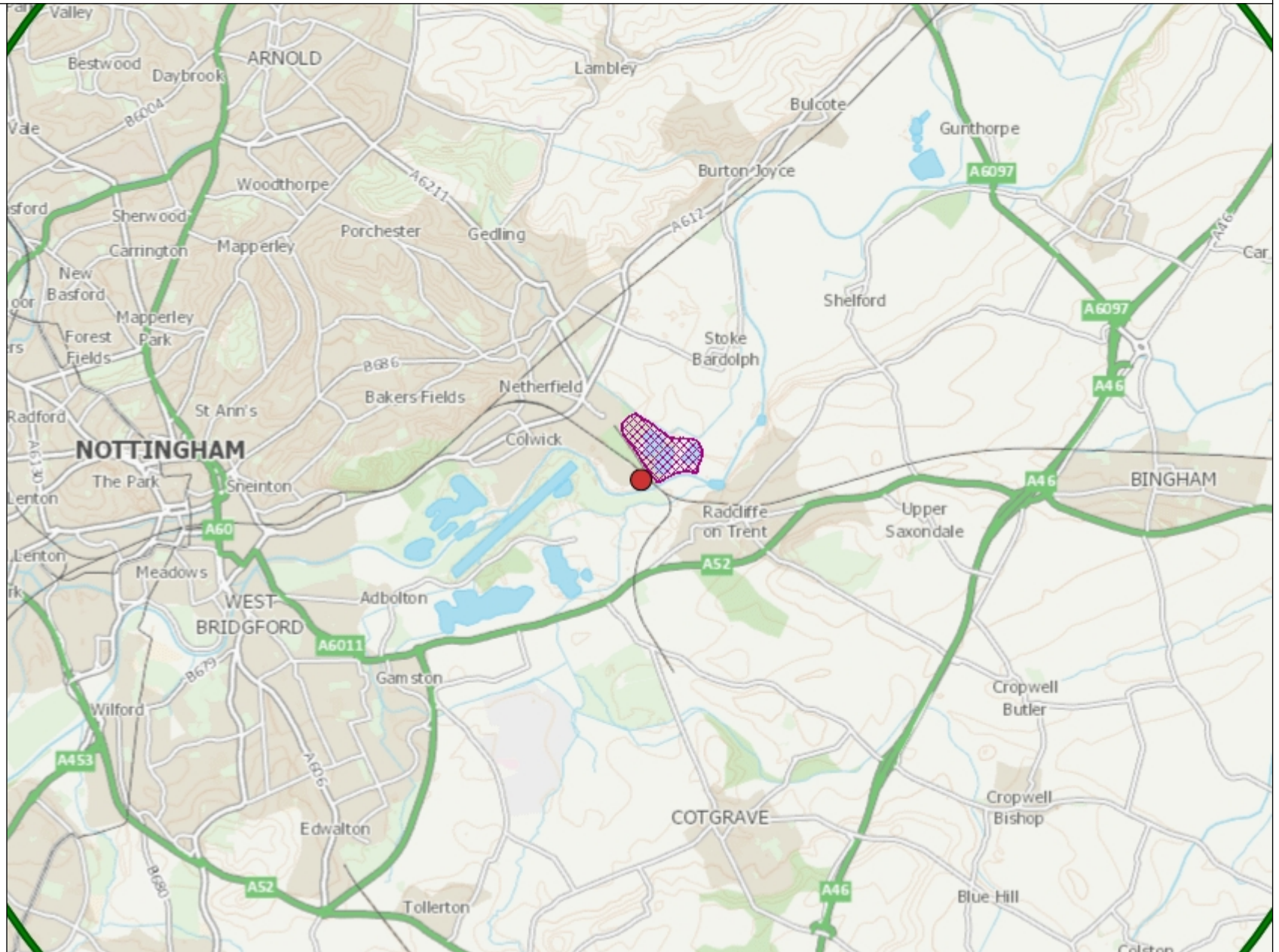
Please note the nature and heritage screening we have conducted as part of this report is subject to change as it is based on data we hold at the time it is generated. We cannot guarantee there will be no changes to our screening data between the date of this report and the submission of the permit application, which could result in the return of an application or requesting further information.

Local Nature Reserve



Legend

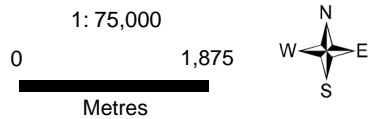
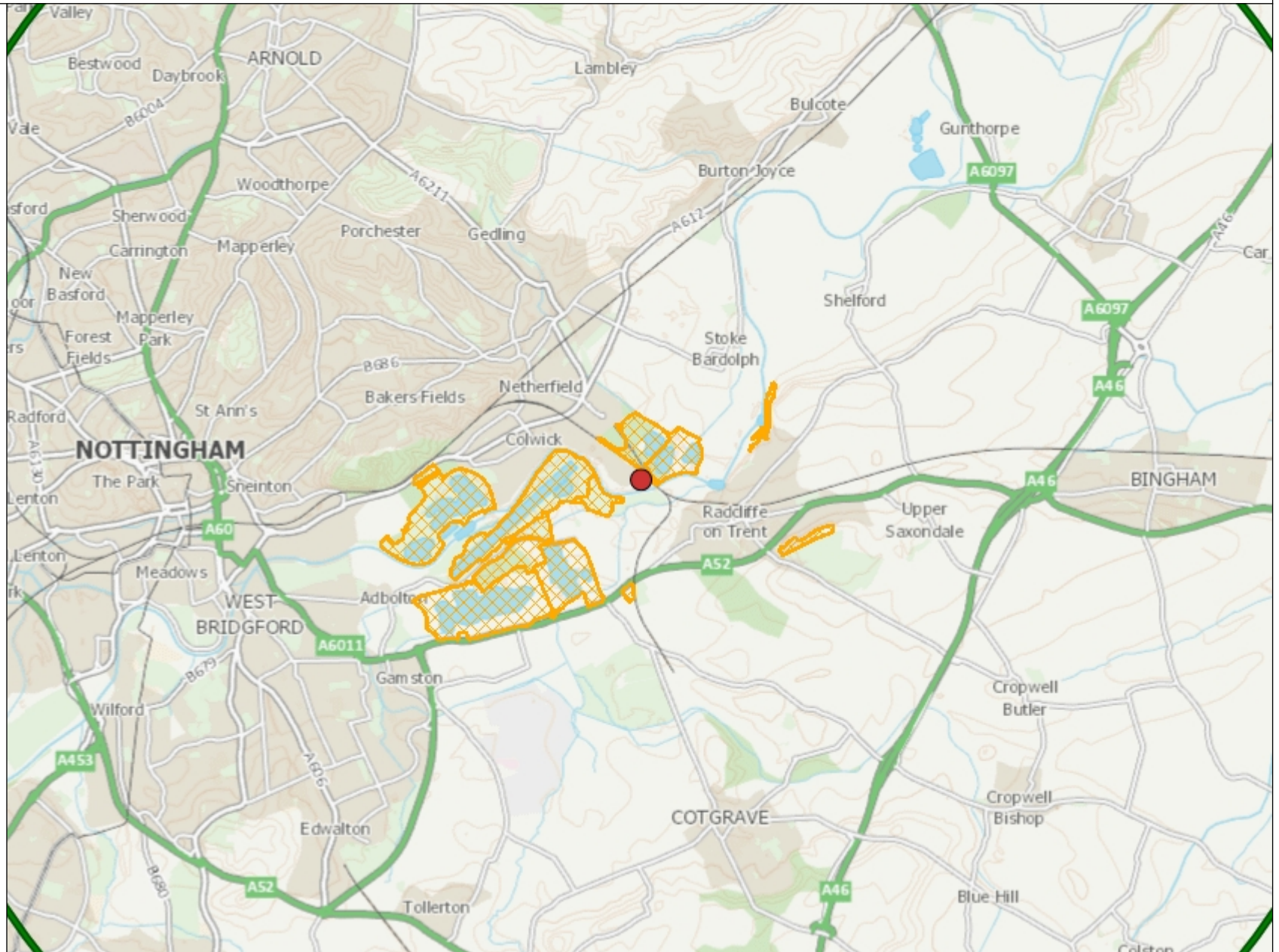
 LNR (England)



Local Wildlife Site


Legend

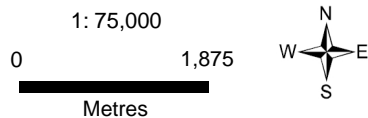
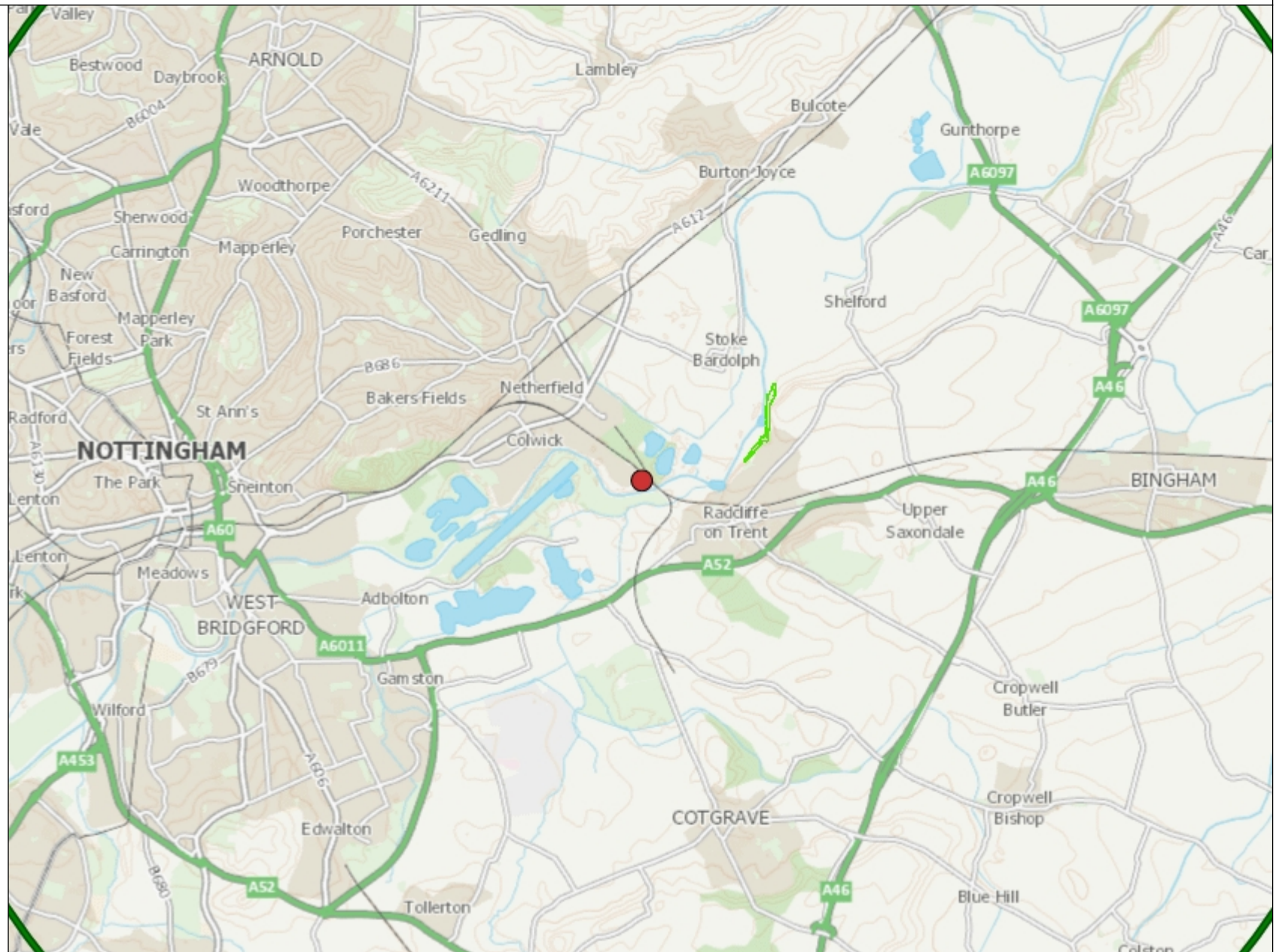
 Local Wildlife Sites



Ancient Woodland

Legend




 Ancient Woodland (England)

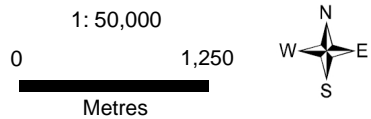
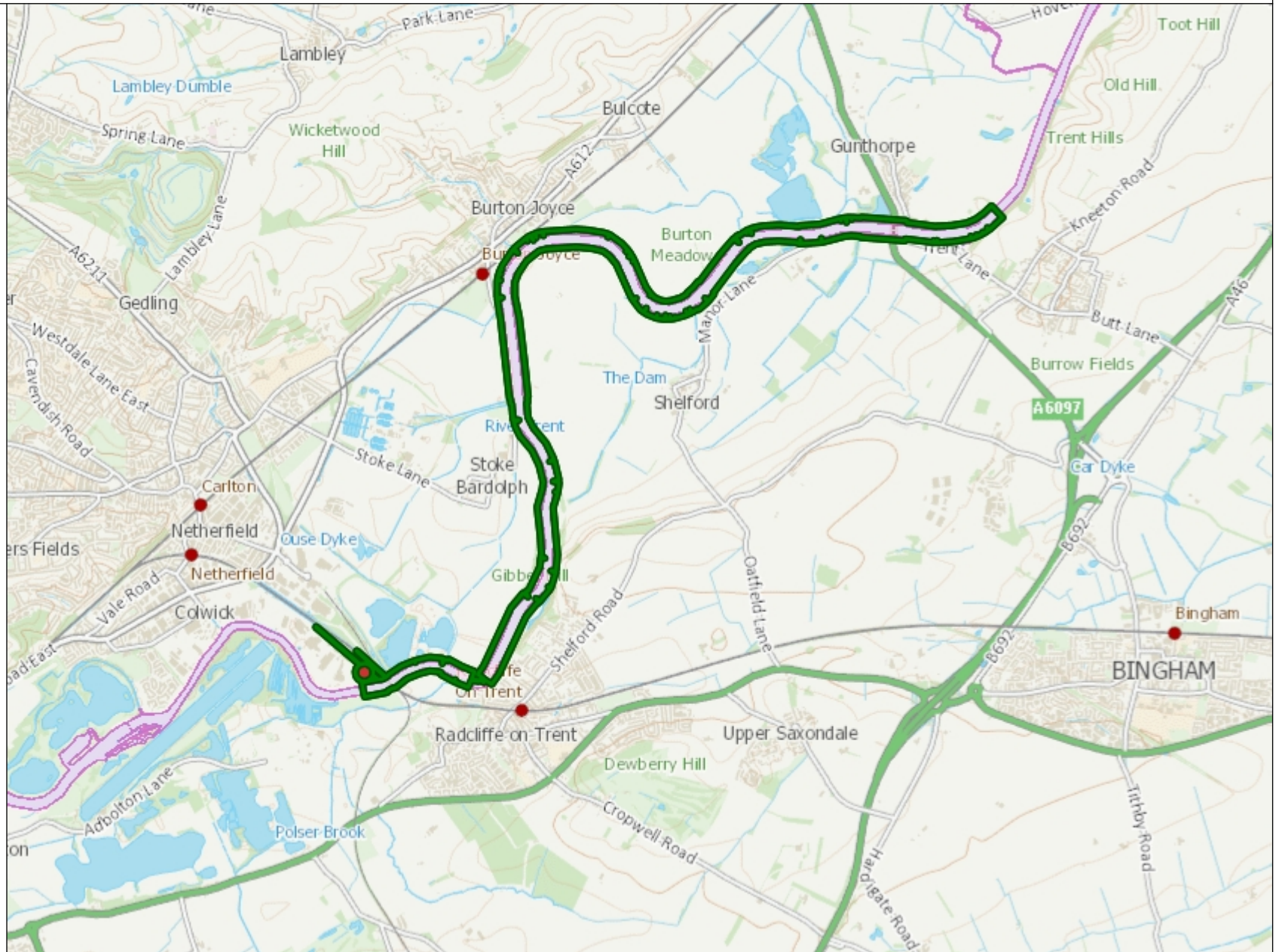


Protected Species

Legend

Protected species screened for Env Permits - complete set


-  Protected species, non fish
-  Protected fish
-  Protected fish migratory route

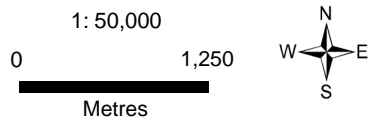
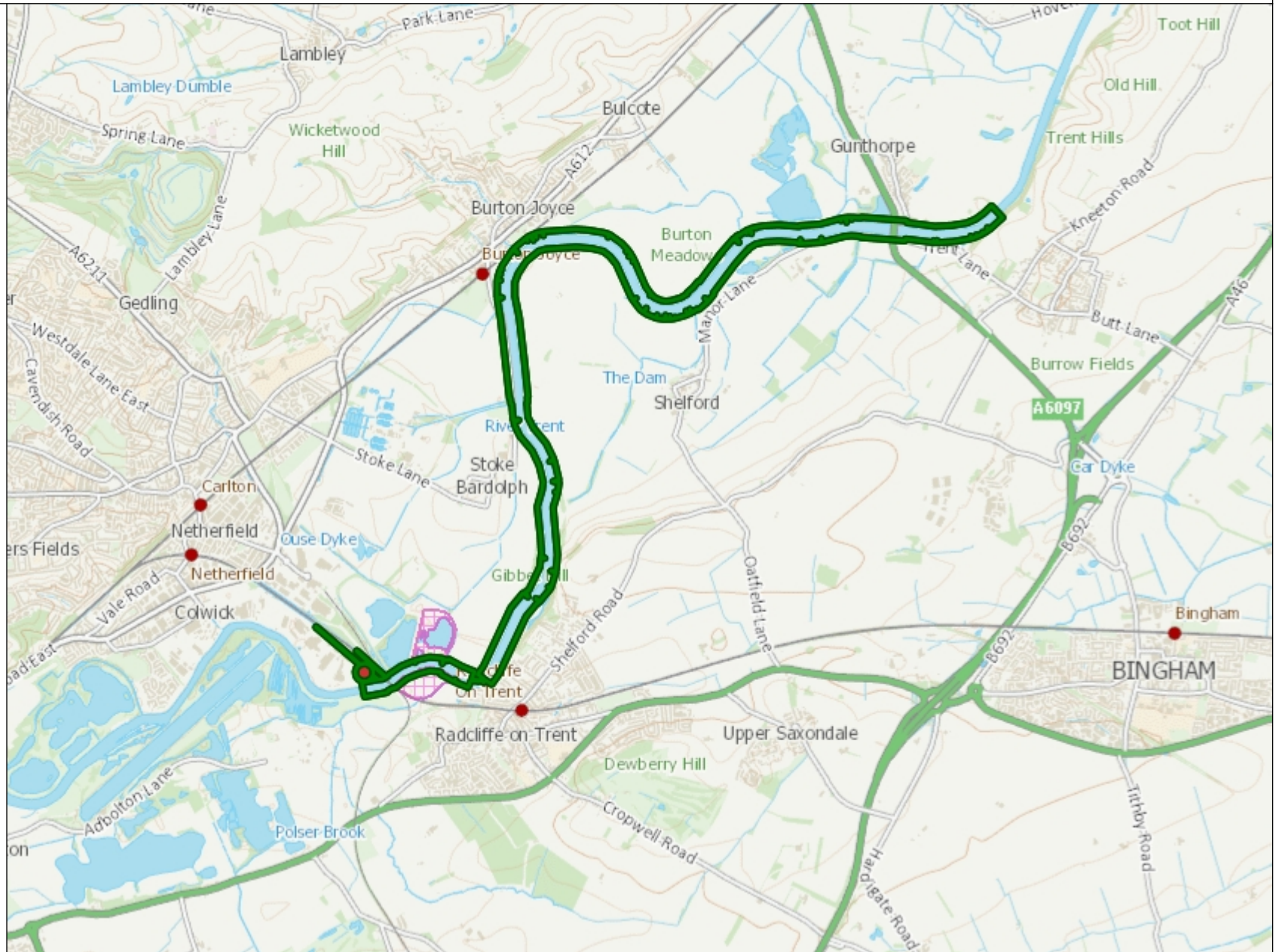


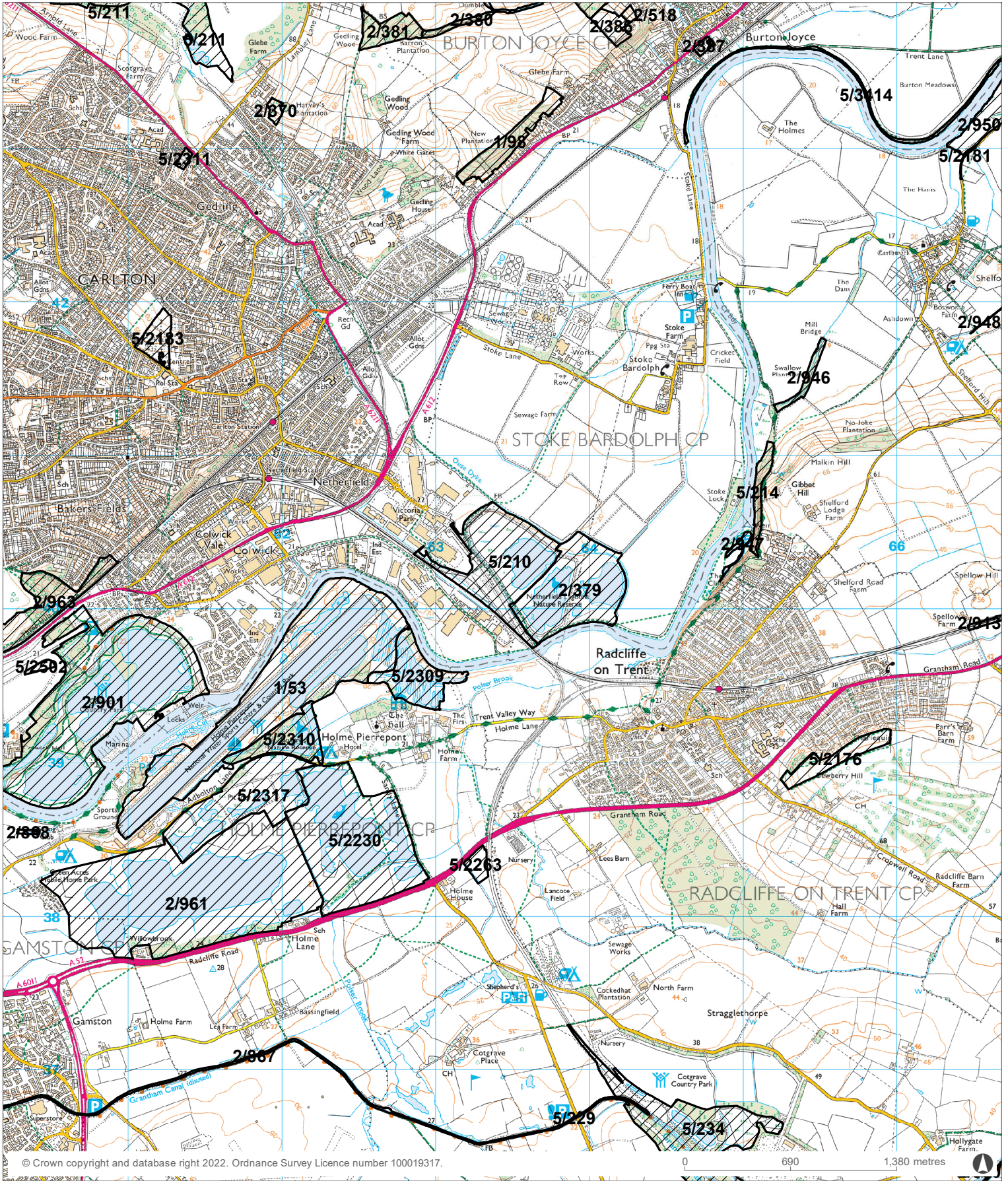
Protected Habitats



Legend

-  Protected Habitats screened for En Permits





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Produced by Peter Acton NBGRC Team 27/05/2022

Key

 Local Wildlife Site



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Nottingham
NG8 2AD

Tel: 0115 876 2188
Email: nbgrcg@
nottinghamcity.gov.uk
www.nottinghamcity.gov.uk
/nbgrc

27th May 2022

Your ref: Email of 27th May 2022
Our ref: G: nbrcenqu/H&C1.doc

Dear Helen,

Ref: 2km radius of the BioDynamic anaerobic digestion facility in Colwick, NG4 2JT. SK 63434 39817. Non-statutory site and protected and notable species data request

Thank you for consulting Nottinghamshire Biological and Geological Records Centre (NBGRC). Having carried out a search of our records I can provide you with the attached information.

We do not administer international and statutory sites. Please check on the MAGIC website for any of these sites. The boundaries of Local Geology Sites in Nottinghamshire can be viewed on the Nottingham Insight website. There are thirteen Local Wildlife Sites (were called Sites of Importance for Nature Conservation - SINC's) in or adjacent to your search area. Detailed boundaries are viewable on the Nottingham Insight website. The Nottinghamshire Natural History Site Alert Schedule describes these sites as follows:-

No.	Name	Area	District	Grid Ref.	Description	Interest
1/53	Holme Pierrepoint	82.365 ha	Rushcliffe District	SK 620394	Notable habitats associated with the rowing course	Botanical, Bird
2/379	Netherfield Pits	31.72 ha	Gedling District	SK 639401	A series of mature lakes in an area of old gravel workings	Botanical, Bird, Butterfly - Brown Argus, Common Blue, Small Copper 2015, Moth, Odonata
2/901	Colwick Country Park	89.422 ha	City of Nottingham , Gedling District	SK 607393	A good mixed habitat assemblage primarily of value for its plant communities	Botanical, Moth, Water Beetle and/or

						Water Bug, Odonata
2/947	The Avenue Pool	1 ha	Rushcliffe District	SK 649403	A large pool and associated marshy habitats with notable aquatic communities	Botanical, Amphibian and/or Reptile - Common Toad 2016 and 2017, Water Beetle and/or Water Bug, Odonata
2/961	Gamston Pits	106.54 7 ha	Rushcliffe District	SK 613381	An extensive area of gravel workings with associated habitats of open water, marsh, scrub and woodland	Botanical, Bird
5/210	Netherfield Dismantled Railway Sidings	32.831 ha	Gedling District	SK 634403	A large mosaic of semi-natural and successional habitats on a former industrial site	Botanical, Bird, Butterfly - Dingy Skipper 2011, Brown Argus, Common Blue, Small Copper 2015
5/214	Trent Bluff Scrub, Radcliffe	3.757 ha	Rushcliffe District	SK 651407	A mosaic of scrub and notable grassland on a Mercia Mudstone river bluff	Botanical
5/2176	Dewberry Hill	7.412 ha	Rushcliffe District	SK 656390	A large area of neutral grassland	Botanical
5/2230	Shady Lane Pits, Holme Pierrepont	54.607 ha	Rushcliffe District	SK 624385	Former gravel pits	Botanical, Bird, Butterfly - Green Hairstreak 2015, Brown Argus, Common Blue, Small Copper 2015 Bird, Water Beetle and/or Water Bug
5/2263	Holme House Grassland	2.294 ha	Rushcliffe District	SK 632383	A notable neutral grassland	Botanical
5/2309	Holme Pierrepont	13.742 ha	Rushcliffe District	SK 628395	Former gravel workings	Botanical, Bird
5/2310	Skylarks	10.891	Rushcliffe	SK 620391	Reedbed and woodland	Botanical,

		ha	District		on a former gravel pit	Bird, Butterfly - Brown Argus, Common Blue, Small Copper 2015, Odonata, Water Beetle and/or Water Bug
5/2317	Holme Pierrepont	29.21 ha	Rushcliffe District	SK 617387	Former gravel pits	Botanical, Bird

Enclosed is a map showing the site boundaries and, if available, plant species data for these sites.

Protected and notable species records are provided as a separate Excel table that gives distance and direction from your site.

Our data set includes Nottinghamshire Bat Group and Nottinghamshire Badger Group records. The bat and herpetofauna data is an amalgamation of several data sets. Some records may be duplicates but because of ambiguities, we have not removed records. Where records appear the same those with an asterisk in column A (Group - as Bat* and Herpetofauna*) are from Nottinghamshire Bat Group and Nottinghamshire Amphibian and Reptile Co-Recorder respectively.

More information on notable mammals may be held by the County Mammal Recorder who is Michael Walker based at Nottinghamshire Wildlife Trust, The Old Ragged School, Brook Street, Nottingham NG1 1EA.

The information provided is copyright of the Botanical Society of Britain and Ireland, Doncaster East Internal drainage Board, Isle of Axholme and North Nottinghamshire Water Level Management Board, Lindsey Marsh Drainage Board, Nottinghamshire Badger Group, Nottinghamshire Bat Group, Nottinghamshire Birdwatchers, Nottingham City Council and Trent Valley Internal Drainage Board.

This information can be issued in its entirety to your client and the LPA. If either makes it available publicly, the Recorders have requested that the exact location of badger setts and house or farm names and numbers where there are bat roosts be withheld.

There will be a charge of £158.00 plus vat for this data search invoice to follow.

Please contact me on 0115 8762188 if you have any questions about this data.

Yours sincerely



Peter Acton
Nottinghamshire Biological and Geological Record Centre



APPENDIX 2
Water Quality Data for Discharge

Table 2: Design Parameters

Parameter	Units	Influent	Effluent	EQS	UKDWS	UKTAG	Notes
Feed Flow	MTPD	215	194	-			
Chemical Oxygen Demand (COD)	mg/L	6,000	<140	-			
Biochemical Oxygen Demand (BOD ₅)	mg/L	1,620	<10	-			
Total Suspended Solids (TSS)	mg/L	2,500	< 1	-		25 ²	Good
Total Kjeldahl Nitrogen (TKN)	mg/L	2,571	< 10	-			
Ammonia Nitrogen (NH ₃ -N)	mg/L	2,127	< 5	-	0.39		Typical for discharges
Total Phosphorus (TP)	mg/L	210	<110	-		0.027 - 0.05 ¹	
Waste Activated Sludge (WAS) Quantity <small>Note 1</small>	MTPD		22	-			
Waste Activated Sludge TS	mg/L		11,250	-			

1 UKTAG: 2013: Updated recommendations for Phosphorus Standards for Rivers, River Basin Management (2015-2021), Table 1: High quality river, lowland, high alkalinity

UKTAG: 2008: UK Environmental Standards and Conditions (Phase 2) Final (SR1 - 2007) March 2008. Freshwater guideline standard.

2

NRM certificate, Lab ID 24972 - 100040

Date sampled = 30/9/2020

	Assumed density			ug/l	EQS (ug/l)	Dilution required	
Cadmium	mg/kg	1:1	mg/l	<0.01	<10	0.25	1 40
Chromium	mg/kg		mg/l	0.54	540	4.7	115
Copper	mg/kg		mg/l	2.09	2090	1	2090
Lead	mg/kg		mg/l	<0.5	<500	1.2	417
Mercury	mg/kg		mg/l	<0.05	<50	0.07	714
Nickel	mg/kg		mg/l	0.62	620	4	155
Zinc	mg/kg		mg/l	7.36	7360	10.9	675

1 for River Trent hardness of 300 mg/l

Cadmium total	Chromium total	Copper total	Lead total	Mercury total	Nickel total	Zinc total	
FWB	FWB	FWB	FWB	FWB	FWB	FWB	Fresh weight basis
mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	Assume density of 1:1 to get mg/l
0.01	1.2	3.2	<0.5	<0.01	1.2	12.5	
0.01	41.4	5.7	<0.5	<0.05	27.0	21.6	
0.01	16.6	4.7	<0.5	<0.05	10.1	18.4	
0.01	12.0	3.9	<0.5	<0.05	7.9	16.4	
0.01	11.2	8.1	<0.5	<0.05	8.3	18.6	
0.02	27.8	6.2	<0.5	<0.05	17.3	19.1	
0.02	14.2	4.9	<0.5	<0.05	8.5	19.3	
0.02	9.5	4.9	<0.5	<0.05	4.6	19.8	
0.02	9.2	4.8	<0.5	<0.05	4.2	20.1	
0.01	7.2	4.2	<0.5	<0.05	3.8	17.8	
0.02	32.9	5.4	<0.5	<0.05	16.6	27.0	
0.02	26.5	4.8	<0.5	<0.05	13.7	28.5	
0.02	22.6	6.2	<0.5	<0.05	13.0	34.5	
0.02	23.1	6.9	<0.5	<0.05	15.5	29.6	
0.02	19.0	6.8	<0.5	<0.05	12.1	29.3	
0.02	14.7	6.4	<0.5	<0.05	9.8	29.3	
0.02	11.1	5.6	<0.5	<0.05	6.8	28.7	
0.02	9.9	6.1	<0.5	<0.05	5.1	30.0	
0.02	16.0	8.2	<0.5	<0.05	8.9	36.8	
0.11	0.5	1.9	0.5	<0.05	2.2	20.0	
0.02	7.4	6.6	<0.5	<0.05	4.3	26.1	
0.02	2.2	4.5	<0.5	<0.05	1.4	28.6	
0.02	1.1	5.2	<0.5	<0.05	0.7	31.5	
0.02	2.0	5.2	<0.5	<0.05	1.3	30.4	
0.02	6.4	5.7	<0.5	<0.05	4.0	31.1	
0.02	6.7	5.5	<0.5	<0.05	4.3	29.7	
0.02	6.7	6.0	<0.5	<0.05	4.0	34.3	
0.02	7.8	5.6	<0.5	<0.05	4.7	42.5	
0.02	9.5	6.5	<0.5	<0.05	5.8	60.8	
0.02	8.3	10.1	<0.5	<0.05	5.0	42.2	
0.02	9.1	11.1	<0.5	<0.05	5.7	35.1	
0.02	8.8	17.2	<0.5	<0.05	5.7	39.5	
0.02	7.8	17.7	<0.5	<0.05	5.1	40.6	
0.02	2.6	9.0	<0.5	<0.05	1.9	37.2	
0.02	1.5	7.7	<0.5	<0.05	1.2	46.6	
0.02	0.6	4.7	<0.5	<0.05	0.7	34.3	
0.02	4.3	4.7	<0.5	<0.05	2.5	28.6	
0.20	9.6	6.6	<0.5	<0.05	5.2	27.6	
0.01	11.5	6.9	<0.5	<0.05	5.9	26.5	
0.01	6.3	26.7	<0.5	<0.05	3.1	22.2	
0.04	4.3	11.0	<0.5	<0.05	1.8	22.0	
0.04	4.0	7.7	<0.5	<0.05	1.5	25.5	
0.20	41.40	26.70	0.52	0.00	27.00	60.80	Maximum (all)
0.01	0.53	1.85	0.52	0.00	0.70	12.50	Minimum (all)
0.02	8.96	6.02	0.52	#NUM!	4.99	28.65	Median (all)
0.03	10.83	7.16	0.52	#DIV/0!	6.34	29.05	Mean (all)
42	42	42	1	0	41	42	Number of samples



APPENDIX 3

Water Quality Data – River Trent



Department
for Environment
Food & Rural Affairs

Data Services Platform (<https://environment.data.gov.uk/>)



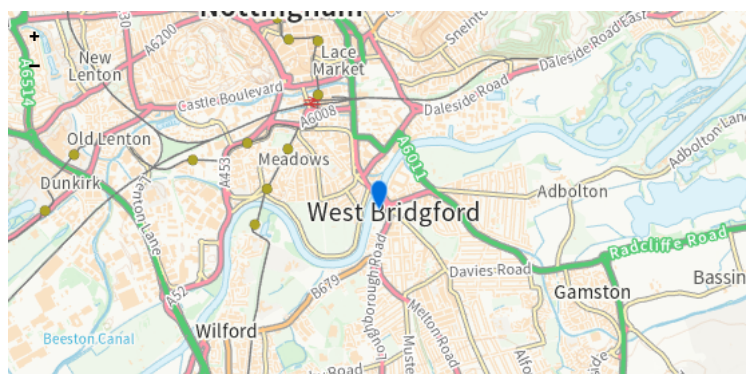
Water Quality Archive

Menu ▾

SAMPLING POINT

River Trent At Nottingham Trent Bridge

Description	NON-TIDAL RIVER TRENT AT NOTTINGHAM TRENT BRIDGE
Sampling point ID	MD-36741880
Type	Freshwater – Rivers
Status	open
Location	easting northing: 458145 338237 lat lon: 52.938377, -1.136278
Area	Derbyshire Nottinghamshire And Leicestershire
Sub-Area	Leicester And South Nottinghamshire
Summary	425 samples taken between 2000 and 2022 Note: a maximum of 10,000 sample measurements are included in this view. Older measurements have been omitted. Please see the API (/water-quality/id/sampling-point/MD-36741880.html#samples) to access the complete data set.



Determinands

Determinands identify a property which can be measured on a sample or the sampling environment, together with the units in which the result of that measurement will be expressed.

177 determinands have been measured at this site

Sampling results

Displaying the twenty most recent samples. You can see the most recent ten thousand sample measurements (?_all=true) (note that in some cases this may take a considerable time, and use significant data bandwidth).

Samples from 2 Jul 2021 to 4 Apr 2022

Notation	Determinand	Units	2 Jul 2021 13:37 (/water-quality/data/sample/MD-36741880-20210702-4775953.html)	2 Aug 2021 14:31 (/water-quality/data/sample/MD-36741880-20210802-4778164.html)	2 Sep 2021 15:36 (/water-quality/data/sample/MD-36741880-20210902-4780341.html)
0052 (/water-quality/def/determinands/0052.html)	Lead, Dissolved	µg/l	0.35 (/water-quality/data/measurement/MD-4775953-0052.html)	0.41 (/water-quality/data/measurement/MD-4778164-0052.html)	0.28 (/water-quality/data/measurement/MD-4780341-0052.html)

Notation	Determinand	Units	2 Jul 2021 13:37 (/water-quality/data/sample/MD-36741880-20210702-4775953.html)	2 Aug 2021 14:31 (/water-quality/data/sample/MD-36741880-20210802-4778164.html)	2 Sep 2021 15:36 (/water-quality/data/sample/MD-36741880-20210902-4780341.html)
0061 (/water-quality/def/determinands/0061.html)	pH		7.95 (/water-quality/data/measurement/MD-4775953-0061.html)	7.93 (/water-quality/data/measurement/MD-4778164-0061.html)	8 (/water-quality/data/measurement/MD-4780341-0061.html)
0076 (/water-quality/def/determinands/0076.html)	Temperature of Water	°C	17.9 (/water-quality/data/measurement/MD-4775953-0076.html)	18.2 (/water-quality/data/measurement/MD-4778164-0076.html)	16.7 (/water-quality/data/measurement/MD-4780341-0076.html)
0077 (/water-quality/def/determinands/0077.html)	Conductivity at 25 C	µs/cm	836 (/water-quality/data/measurement/MD-4775953-0077.html)	770 (/water-quality/data/measurement/MD-4778164-0077.html)	983 (/water-quality/data/measurement/MD-4780341-0077.html)
0103 (/water-quality/def/determinands/0103.html)	Mercury, Dissolved	µg/l	< 0.01 (/water-quality/data/measurement/MD-4775953-0103.html)	< 0.01 (/water-quality/data/measurement/MD-4778164-0103.html)	< 0.01 (/water-quality/data/measurement/MD-4780341-0103.html)
0106 (/water-quality/def/determinands/0106.html)	Cadmium, Dissolved	µg/l	0.082 (/water-quality/data/measurement/MD-4775953-0106.html)	0.064 (/water-quality/data/measurement/MD-4778164-0106.html)	0.078 (/water-quality/data/measurement/MD-4780341-0106.html)
0111 (/water-quality/def/determinands/0111.html)	Ammoniacal Nitrogen as N	mg/l	< 0.03 (/water-quality/data/measurement/MD-4775953-0111.html)	0.055 (/water-quality/data/measurement/MD-4778164-0111.html)	0.04 (/water-quality/data/measurement/MD-4780341-0111.html)
0116 (/water-quality/def/determinands/0116.html)	Nitrogen, Total Oxidised as N	mg/l	< 0.2 (/water-quality/data/measurement/MD-4775953-0116.html)	7 (/water-quality/data/measurement/MD-4778164-0116.html)	10 (/water-quality/data/measurement/MD-4780341-0116.html)
0117 (/water-quality/def/determinands/0117.html)	Nitrate as N	mg/l	< 0.196 (/water-quality/data/measurement/MD-4775953-0117.html)	6.95 (/water-quality/data/measurement/MD-4778164-0117.html)	9.98 (/water-quality/data/measurement/MD-4780341-0117.html)
0118 (/water-quality/def/determinands/0118.html)	Nitrite as N	mg/l	< 0.004 (/water-quality/data/measurement/MD-4775953-0118.html)	0.047 (/water-quality/data/measurement/MD-4778164-0118.html)	0.019 (/water-quality/data/measurement/MD-4780341-0118.html)
0119 (/water-quality/def/determinands/0119.html)	Ammonia un-ionised as N	mg/l	< 0.00087 (/water-quality/data/measurement/MD-4775953-0119.html)	0.00156 (/water-quality/data/measurement/MD-4778164-0119.html)	0.00119 (/water-quality/data/measurement/MD-4780341-0119.html)
0172 (/water-quality/def/determinands/0172.html)	Chloride	mg/l	< 1 (/water-quality/data/measurement/MD-4775953-0172.html)	72 (/water-quality/data/measurement/MD-4778164-0172.html)	100 (/water-quality/data/measurement/MD-4780341-0172.html)
0180 (/water-quality/def/determinands/0180.html)	Orthophosphate, reactive as P	mg/l	< 0.01 (/water-quality/data/measurement/MD-4775953-0180.html)	0.27 (/water-quality/data/measurement/MD-4778164-0180.html)	0.29 (/water-quality/data/measurement/MD-4780341-0180.html)
0182 (/water-quality/def/determinands/0182.html)	Silica, reactive as SiO ₂	mg/l	< 0.2 (/water-quality/data/measurement/MD-4775953-0182.html)	7.8 (/water-quality/data/measurement/MD-4778164-0182.html)	7.6 (/water-quality/data/measurement/MD-4780341-0182.html)
0192 (/water-quality/def/determinands/0192.html)	Phosphate :- {TIP}	mg/l			0.3 (/water-quality/data/measurement/MD-4780341-0192.html)
0205 (/water-quality/def/determinands/0205.html)	Sodium, Dissolved	mg/l	53 (/water-quality/data/measurement/MD-4775953-0205.html)	49 (/water-quality/data/measurement/MD-4778164-0205.html)	70 (/water-quality/data/measurement/MD-4780341-0205.html)
0209 (/water-quality/def/determinands/0209.html)	Potassium, Dissolved	mg/l	9.8 (/water-quality/data/measurement/MD-4775953-0209.html)	10 (/water-quality/data/measurement/MD-4778164-0209.html)	13 (/water-quality/data/measurement/MD-4780341-0209.html)
0301 (/water-quality/def/determinands/0301.html)	Carbon, Organic, Dissolved as C :- {DOC}	mg/l	5.5 (/water-quality/data/measurement/MD-4775953-0301.html)	5.7 (/water-quality/data/measurement/MD-4778164-0301.html)	5.9 (/water-quality/data/measurement/MD-4780341-0301.html)
0348 (/water-quality/def/determinands/0348.html)	Phosphorus, Total as P	mg/l	0.37 (/water-quality/data/measurement/MD-4775953-0348.html)	0.31 (/water-quality/data/measurement/MD-4778164-0348.html)	0.32 (/water-quality/data/measurement/MD-4780341-0348.html)

Notation	Determinand	Units	2 Jul 2021 13:37 (/water- quality/data/sample/MD- 36741880-20210702- 4775953.html)	2 Aug 2021 14:31 (/water- quality/data/sample/MD- 36741880-20210802- 4778164.html)	2 Sep 2021 15:36 (/water- quality/data/sample/MD- 36741880-20210902- 4780341.html)
0576 (/water- quality/def/determinands/0576.html)	Hexachlorobenzene	µg/l			< 0.0001 (/water- quality/data/measurement/MD- 4780341-0576.html)
3328 (/water- quality/def/determinands/3328.html)	Tetrachloroethylene :- {Perchloroethylene}	µg/l			< 0.1 (/water- quality/data/measurement/MD- 4780341-3328.html)
3334 (/water- quality/def/determinands/3334.html)	Trichloroethylene :- {Trichloroethene}	µg/l			< 0.1 (/water- quality/data/measurement/MD- 4780341-3334.html)
3373 (/water- quality/def/determinands/3373.html)	Chloroform :- {Trichloromethane}	µg/l			0.14 (/water- quality/data/measurement/MD- 4780341-3373.html)
3408 (/water- quality/def/determinands/3408.html)	Zinc, Dissolved	µg/l	14 (/water- quality/data/measurement/MD- 4775953-3408.html)	14 (/water- quality/data/measurement/MD- 4778164-3408.html)	13 (/water- quality/data/measurement/MD- 4780341-3408.html)
3409 (/water- quality/def/determinands/3409.html)	Chromium, Dissolved	µg/l	< 0.5 (/water- quality/data/measurement/MD- 4775953-3409.html)	0.51 (/water- quality/data/measurement/MD- 4778164-3409.html)	0.52 (/water- quality/data/measurement/MD- 4780341-3409.html)
3410 (/water- quality/def/determinands/3410.html)	Nickel, Dissolved	µg/l	4.8 (/water- quality/data/measurement/MD- 4775953-3410.html)	4.8 (/water- quality/data/measurement/MD- 4778164-3410.html)	5.3 (/water- quality/data/measurement/MD- 4780341-3410.html)
4994 (/water- quality/def/determinands/4994.html)	GCMS Screen : Target Based multi- residue screening : Semi Quantitative	text	1 (/water- quality/data/measurement/MD- 4775953-4994.html)		
6045 (/water- quality/def/determinands/6045.html)	Arsenic, Dissolved	µg/l	1.7 (/water- quality/data/measurement/MD- 4775953-6045.html)	1.7 (/water- quality/data/measurement/MD- 4778164-6045.html)	1.6 (/water- quality/data/measurement/MD- 4780341-6045.html)
6396 (/water- quality/def/determinands/6396.html)	Turbidity	ntu	1.3 (/water- quality/data/measurement/MD- 4775953-6396.html)	3.8 (/water- quality/data/measurement/MD- 4778164-6396.html)	2.6 (/water- quality/data/measurement/MD- 4780341-6396.html)
6450 (/water- quality/def/determinands/6450.html)	Copper, Dissolved	µg/l	5.1 (/water- quality/data/measurement/MD- 4775953-6450.html)	6 (/water- quality/data/measurement/MD- 4778164-6450.html)	5.2 (/water- quality/data/measurement/MD- 4780341-6450.html)
6458 (/water- quality/def/determinands/6458.html)	Manganese, Dissolved	µg/l	19 (/water- quality/data/measurement/MD- 4775953-6458.html)	17 (/water- quality/data/measurement/MD- 4778164-6458.html)	21 (/water- quality/data/measurement/MD- 4780341-6458.html)
6460 (/water- quality/def/determinands/6460.html)	Iron, Dissolved	µg/l	< 30 (/water- quality/data/measurement/MD- 4775953-6460.html)	< 30 (/water- quality/data/measurement/MD- 4778164-6460.html)	< 30 (/water- quality/data/measurement/MD- 4780341-6460.html)
7859 (/water- quality/def/determinands/7859.html)	Sulphate, Dissolved as SO4	mg/l	120 (/water- quality/data/measurement/MD- 4775953-7859.html)	100 (/water- quality/data/measurement/MD- 4778164-7859.html)	140 (/water- quality/data/measurement/MD- 4780341-7859.html)
7887 (/water- quality/def/determinands/7887.html)	Chlorophyll : Acetone Extract	µg/l	4.2 (/water- quality/data/measurement/MD- 4775953-7887.html)	8.4 (/water- quality/data/measurement/MD- 4778164-7887.html)	3 (/water- quality/data/measurement/MD- 4780341-7887.html)
9447 (/water- quality/def/determinands/9447.html)	Boron, Dissolved	µg/l	150 (/water- quality/data/measurement/MD- 4775953-9447.html)	170 (/water- quality/data/measurement/MD- 4778164-9447.html)	240 (/water- quality/data/measurement/MD- 4780341-9447.html)
9901 (/water- quality/def/determinands/9901.html)	Oxygen, Dissolved, % Saturation	%	86.8 (/water- quality/data/measurement/MD- 4775953-9901.html)	95 (/water- quality/data/measurement/MD- 4778164-9901.html)	95.5 (/water- quality/data/measurement/MD- 4780341-9901.html)
9924 (/water- quality/def/determinands/9924.html)	Oxygen, Dissolved as O2	mg/l	8.21 (/water- quality/data/measurement/MD- 4775953-9924.html)	8.93 (/water- quality/data/measurement/MD- 4778164-9924.html)	9.25 (/water- quality/data/measurement/MD- 4780341-9924.html)

Samples from 18 Nov 2019 to 2 Jun 2021

Notation	Determinand	Units	18 Nov 2019 09:42 (/water- quality/data/sample/MD- 36741880-20191118- 4742879.html)	6 Dec 2019 14:09 (/water- quality/data/sample/MD- 36741880-20191206- 4745129.html)	7 Jan 2020 15:25 (/water- quality/data/sample/MD- 36741880-20200107- 4747331.html)
0052 (/water- quality/def/determinands/0052.html)	Lead, Dissolved	µg/l	0.54 (/water- quality/data/measurement/MD- 4742879-0052.html)	0.41 (/water- quality/data/measurement/MD- 4745129-0052.html)	0.39 (/wat quality/data/measurement/M 4747331-0052.htr
0061 (/water- quality/def/determinands/0061.html)	pH		7.85 (/water- quality/data/measurement/MD- 4742879-0061.html)	8.15 (/water- quality/data/measurement/MD- 4745129-0061.html)	8.03 (/wat quality/data/measurement/M 4747331-0061.htr
0076 (/water- quality/def/determinands/0076.html)	Temperature of Water	°C	8 (/water- quality/data/measurement/MD- 4742879-0076.html)	7.6 (/water- quality/data/measurement/MD- 4745129-0076.html)	8 (/wat quality/data/measurement/M 4747331-0076.htr
0077 (/water- quality/def/determinands/0077.html)	Conductivity at 25 C	µs/cm	521 (/water- quality/data/measurement/MD- 4742879-0077.html)	766 (/water- quality/data/measurement/MD- 4745129-0077.html)	807 (/wat quality/data/measurement/M 4747331-0077.htr
0085 (/water- quality/def/determinands/0085.html)	BOD : 5 Day ATU	mg/l	1.26 (/water- quality/data/measurement/MD- 4742879-0085.html)	1.5 (/water- quality/data/measurement/MD- 4745129-0085.html)	1.3 (/wat quality/data/measurement/M 4747331-0085.htr
0103 (/water- quality/def/determinands/0103.html)	Mercury, Dissolved	µg/l	< 0.01 (/water- quality/data/measurement/MD- 4742879-0103.html)	< 0.01 (/water- quality/data/measurement/MD- 4745129-0103.html)	< 0.01 (/wat quality/data/measurement/M 4747331-0103.htr
0106 (/water- quality/def/determinands/0106.html)	Cadmium, Dissolved	µg/l	0.066 (/water- quality/data/measurement/MD- 4742879-0106.html)	0.08 (/water- quality/data/measurement/MD- 4745129-0106.html)	0.086 (/wat quality/data/measurement/M 4747331-0106.htr
0111 (/water- quality/def/determinands/0111.html)	Ammoniacal Nitrogen as N	mg/l	0.102 (/water- quality/data/measurement/MD- 4742879-0111.html)	0.14 (/water- quality/data/measurement/MD- 4745129-0111.html)	0.1 (/wat quality/data/measurement/M 4747331-0111.htr
0116 (/water- quality/def/determinands/0116.html)	Nitrogen, Total Oxidised as N	mg/l	4.37 (/water- quality/data/measurement/MD- 4742879-0116.html)	6.5 (/water- quality/data/measurement/MD- 4745129-0116.html)	7.5 (/wat quality/data/measurement/M 4747331-0116.htr
0117 (/water- quality/def/determinands/0117.html)	Nitrate as N	mg/l	4.32 (/water- quality/data/measurement/MD- 4742879-0117.html)	6.43 (/water- quality/data/measurement/MD- 4745129-0117.html)	7.45 (/wat quality/data/measurement/M 4747331-0117.htr
0118 (/water- quality/def/determinands/0118.html)	Nitrite as N	mg/l	0.0534 (/water- quality/data/measurement/MD- 4742879-0118.html)	0.074 (/water- quality/data/measurement/MD- 4745129-0118.html)	0.055 (/wat quality/data/measurement/M 4747331-0118.htr
0119 (/water- quality/def/determinands/0119.html)	Ammonia un-ionised as N	mg/l	0.00114 (/water- quality/data/measurement/MD- 4742879-0119.html)	0.00214 (/water- quality/data/measurement/MD- 4745129-0119.html)	0.00158 (/wat quality/data/measurement/M 4747331-0119.htr
0135 (/water- quality/def/determinands/0135.html)	Solids, Suspended at 105 C	mg/l	21.2 (/water- quality/data/measurement/MD- 4742879-0135.html)	49 (/water- quality/data/measurement/MD- 4745129-0135.html)	8.2 (/wat quality/data/measurement/M 4747331-0135.htr
0158 (/water- quality/def/determinands/0158.html)	Hardness, Total as CaCO3	mg/l		303 (/water- quality/data/measurement/MD- 4745129-0158.html)	
0162 (/water- quality/def/determinands/0162.html)	Alkalinity to pH 4.5 as CaCO3	mg/l	148 (/water- quality/data/measurement/MD- 4742879-0162.html)	200 (/water- quality/data/measurement/MD- 4745129-0162.html)	200 (/wat quality/data/measurement/M 4747331-0162.htr
0172 (/water- quality/def/determinands/0172.html)	Chloride	mg/l	29 (/water- quality/data/measurement/MD- 4742879-0172.html)	56 (/water- quality/data/measurement/MD- 4745129-0172.html)	55 (/wat quality/data/measurement/M 4747331-0172.htr
0175 (/water- quality/def/determinands/0175.html)	Cyanide as CN	mg/l		< 0.005 (/water- quality/data/measurement/MD- 4745129-0175.html)	
0180 (/water- quality/def/determinands/0180.html)	Orthophosphate, reactive as P	mg/l	0.159 (/water- quality/data/measurement/MD- 4742879-0180.html)	0.16 (/water- quality/data/measurement/MD- 4745129-0180.html)	0.18 (/wat quality/data/measurement/M 4747331-0180.htr

Notation	Determinand	Units	18 Nov 2019 09:42 (/water- quality/data/sample/MD- 36741880-20191118- 4742879.html)	6 Dec 2019 14:09 (/water- quality/data/sample/MD- 36741880-20191206- 4745129.html)	7 Jan 2020 15:25 (/water- quality/data/sample/MD- 36741880-20200107- 4747331.html)
0182 (/water- quality/def/determinands/0182.html)	Silica, reactive as SiO2	mg/l	9.27 (/water- quality/data/measurement/MD- 4742879-0182.html)	10 (/water- quality/data/measurement/MD- 4745129-0182.html)	11 (/wat quality/data/measurement/M 4747331-0182.htr
0192 (/water- quality/def/determinands/0192.html)	Phosphate :- {TIP}	mg/l		0.19 (/water- quality/data/measurement/MD- 4745129-0192.html)	
0205 (/water- quality/def/determinands/0205.html)	Sodium, Dissolved	mg/l	22 (/water- quality/data/measurement/MD- 4742879-0205.html)	39 (/water- quality/data/measurement/MD- 4745129-0205.html)	38 (/wat quality/data/measurement/M 4747331-0205.htr
0209 (/water- quality/def/determinands/0209.html)	Potassium, Dissolved	mg/l	5.7 (/water- quality/data/measurement/MD- 4742879-0209.html)	7.2 (/water- quality/data/measurement/MD- 4745129-0209.html)	7.3 (/wat quality/data/measurement/M 4747331-0209.htr
0235 (/water- quality/def/determinands/0235.html)	Magnesium, Dissolved	mg/l		19 (/water- quality/data/measurement/MD- 4745129-0235.html)	
0237 (/water- quality/def/determinands/0237.html)	Magnesium	mg/l		19 (/water- quality/data/measurement/MD- 4745129-0237.html)	
0239 (/water- quality/def/determinands/0239.html)	Calcium, Dissolved	mg/l		90 (/water- quality/data/measurement/MD- 4745129-0239.html)	
0241 (/water- quality/def/determinands/0241.html)	Calcium	mg/l		92 (/water- quality/data/measurement/MD- 4745129-0241.html)	
0301 (/water- quality/def/determinands/0301.html)	Carbon, Organic, Dissolved as C :- {DOC}	mg/l	7.11 (/water- quality/data/measurement/MD- 4742879-0301.html)	5.7 (/water- quality/data/measurement/MD- 4745129-0301.html)	5.3 (/wat quality/data/measurement/M 4747331-0301.htr
0348 (/water- quality/def/determinands/0348.html)	Phosphorus, Total as P	mg/l	0.203 (/water- quality/data/measurement/MD- 4742879-0348.html)	0.2 (/water- quality/data/measurement/MD- 4745129-0348.html)	0.22 (/wat quality/data/measurement/M 4747331-0348.htr
0507 (/water- quality/def/determinands/0507.html)	Dichlorvos	µg/l	< 0.004 (/water- quality/data/measurement/MD- 4742879-0507.html)	< 0.04 (/water- quality/data/measurement/MD- 4745129-0507.html)	< 0.004 (/wat quality/data/measurement/M 4747331-0507.htr
0539 (/water- quality/def/determinands/0539.html)	DDT -op	µg/l		< 0.003 (/water- quality/data/measurement/MD- 4745129-0539.html)	
0551 (/water- quality/def/determinands/0551.html)	DDE -pp	µg/l		< 0.001 (/water- quality/data/measurement/MD- 4745129-0551.html)	
0555 (/water- quality/def/determinands/0555.html)	DDT -pp	µg/l		< 0.002 (/water- quality/data/measurement/MD- 4745129-0555.html)	
0559 (/water- quality/def/determinands/0559.html)	TDE -pp	µg/l		< 0.002 (/water- quality/data/measurement/MD- 4745129-0559.html)	
0575 (/water- quality/def/determinands/0575.html)	DDT : Sum of components	µg/l		< 0.008 (/water- quality/data/measurement/MD- 4745129-0575.html)	
0576 (/water- quality/def/determinands/0576.html)	Hexachlorobenzene	µg/l		< 0.0001 (/water- quality/data/measurement/MD- 4745129-0576.html)	
0714 (/water- quality/def/determinands/0714.html)	Benzo(g,h,i)Perylene	µg/l		0.0057 (/water- quality/data/measurement/MD- 4745129-0714.html)	

Notation	Determinand	Units	18 Nov 2019 09:42 (/water-quality/data/sample/MD-36741880-20191118-4742879.html)	6 Dec 2019 14:09 (/water-quality/data/sample/MD-36741880-20191206-4745129.html)	7 Jan 2020 15:25 (/water-quality/data/sample/MD-36741880-20200107-4747331.html)
0731 (/water-quality/def/determinands/0731.html)	Benzo(b)Fluoranthene	µg/l		0.0045 (/water-quality/data/measurement/MD-4745129-0731.html)	
0733 (/water-quality/def/determinands/0733.html)	Benzo(k)Fluoranthene	µg/l		0.0023 (/water-quality/data/measurement/MD-4745129-0733.html)	
0736 (/water-quality/def/determinands/0736.html)	Fluoranthene	µg/l		0.0055 (/water-quality/data/measurement/MD-4745129-0736.html)	
0746 (/water-quality/def/determinands/0746.html)	Indeno(1,2,3-cd)pyrene	µg/l		0.0058 (/water-quality/data/measurement/MD-4745129-0746.html)	
1049 (/water-quality/def/determinands/1049.html)	Carbon tetrachloride :- {Tetrachloromethane}	µg/l		< 0.1 (/water-quality/data/measurement/MD-4745129-1049.html)	
3268 (/water-quality/def/determinands/3268.html)	1,1,1-Trichloroethane	µg/l		< 0.1 (/water-quality/data/measurement/MD-4745129-3268.html)	
3272 (/water-quality/def/determinands/3272.html)	1,2-Dichloroethane	µg/l		< 0.1 (/water-quality/data/measurement/MD-4745129-3272.html)	
3299 (/water-quality/def/determinands/3299.html)	Dichloromethane :- {Methylene Dichloride}	µg/l		< 3 (/water-quality/data/measurement/MD-4745129-3299.html)	
3328 (/water-quality/def/determinands/3328.html)	Tetrachloroethylene :- {Perchloroethylene}	µg/l		< 0.1 (/water-quality/data/measurement/MD-4745129-3328.html)	
3334 (/water-quality/def/determinands/3334.html)	Trichloroethylene :- {Trichloroethene}	µg/l		< 0.1 (/water-quality/data/measurement/MD-4745129-3334.html)	
3373 (/water-quality/def/determinands/3373.html)	Chloroform :- {Trichloromethane}	µg/l		0.19 (/water-quality/data/measurement/MD-4745129-3373.html)	
3377 (/water-quality/def/determinands/3377.html)	Lead : BLM Bioavailable	µg/l		0.07 (/water-quality/data/measurement/MD-4745129-3377.html)	
3408 (/water-quality/def/determinands/3408.html)	Zinc, Dissolved	µg/l	11 (/water-quality/data/measurement/MD-4742879-3408.html)	16 (/water-quality/data/measurement/MD-4745129-3408.html)	16 (/water-quality/data/measurement/MD-4747331-3408.html)
3409 (/water-quality/def/determinands/3409.html)	Chromium, Dissolved	µg/l	< 0.5 (/water-quality/data/measurement/MD-4742879-3409.html)	< 0.5 (/water-quality/data/measurement/MD-4745129-3409.html)	< 0.5 (/water-quality/data/measurement/MD-4747331-3409.html)
3410 (/water-quality/def/determinands/3410.html)	Nickel, Dissolved	µg/l	3.4 (/water-quality/data/measurement/MD-4742879-3410.html)	3.8 (/water-quality/data/measurement/MD-4745129-3410.html)	5.2 (/water-quality/data/measurement/MD-4747331-3410.html)
3781 (/water-quality/def/determinands/3781.html)	Benzene	µg/l		< 0.1 (/water-quality/data/measurement/MD-4745129-3781.html)	
3878 (/water-quality/def/determinands/3878.html)	Nickel : BLM Bioavailable	µg/l		1.6 (/water-quality/data/measurement/MD-4745129-3878.html)	
4621 (/water-quality/def/determinands/4621.html)	2,4,4-TriBromoDiphenylEther	µg/l		< 6.0e-05 (/water-quality/data/measurement/MD-4745129-4621.html)	

Notation	Determinand	Units	18 Nov 2019 09:42 (/water- quality/data/sample/MD- 36741880-20191118- 4742879.html)	6 Dec 2019 14:09 (/water- quality/data/sample/MD- 36741880-20191206- 4745129.html)	7 Jan 2020 15:25 (/water- quality/data/sample/MD- 36741880-20200107- 4747331.html)
4820 (/water- quality/def/determinands/4820.html)	Manganese : BLM Bioavailable	µg/l		46 (/water- quality/data/measurement/MD- 4745129-4820.html)	
4821 (/water- quality/def/determinands/4821.html)	Copper : BLM Bioavailable	µg/l		0.19 (/water- quality/data/measurement/MD- 4745129-4821.html)	
4822 (/water- quality/def/determinands/4822.html)	Zinc : BLM Bioavailable	µg/l		5.5 (/water- quality/data/measurement/MD- 4745129-4822.html)	
4994 (/water- quality/def/determinands/4994.html)	GCMS Screen : Target Based multi-residue screening : Semi Quantitative	text	1 (/water- quality/data/measurement/MD- 4742879-4994.html)	1 (/water- quality/data/measurement/MD- 4745129-4994.html)	1 (/wat quality/data/measurement/M 4747331-4994.htr
5732 (/water- quality/def/determinands/5732.html)	Triphenyl Tin as Cation	µg/l	< 0.0002 (/water- quality/data/measurement/MD- 4742879-5732.html)	< 0.0002 (/water- quality/data/measurement/MD- 4745129-5732.html)	< 0.0002 (/wat quality/data/measurement/M 4747331-5732.htr
5863 (/water- quality/def/determinands/5863.html)	Pentachlorobenzene	µg/l		< 0.001 (/water- quality/data/measurement/MD- 4745129-5863.html)	
6045 (/water- quality/def/determinands/6045.html)	Arsenic, Dissolved	µg/l	1.1 (/water- quality/data/measurement/MD- 4742879-6045.html)	1.1 (/water- quality/data/measurement/MD- 4745129-6045.html)	1.2 (/wat quality/data/measurement/M 4747331-6045.htr
6396 (/water- quality/def/determinands/6396.html)	Turbidity	ntu	29.5 (/water- quality/data/measurement/MD- 4742879-6396.html)	10 (/water- quality/data/measurement/MD- 4745129-6396.html)	7.3 (/wat quality/data/measurement/M 4747331-6396.htr
6399 (/water- quality/def/determinands/6399.html)	Benzo(a)Pyrene	µg/l		0.0045 (/water- quality/data/measurement/MD- 4745129-6399.html)	
6450 (/water- quality/def/determinands/6450.html)	Copper, Dissolved	µg/l	4.3 (/water- quality/data/measurement/MD- 4742879-6450.html)	2.9 (/water- quality/data/measurement/MD- 4745129-6450.html)	2.8 (/wat quality/data/measurement/M 4747331-6450.htr
6455 (/water- quality/def/determinands/6455.html)	Zinc	µg/l		23 (/water- quality/data/measurement/MD- 4745129-6455.html)	
6458 (/water- quality/def/determinands/6458.html)	Manganese, Dissolved	µg/l	17 (/water- quality/data/measurement/MD- 4742879-6458.html)	62 (/water- quality/data/measurement/MD- 4745129-6458.html)	130 (/wat quality/data/measurement/M 4747331-6458.htr
6460 (/water- quality/def/determinands/6460.html)	Iron, Dissolved	µg/l	60 (/water- quality/data/measurement/MD- 4742879-6460.html)	52 (/water- quality/data/measurement/MD- 4745129-6460.html)	54 (/wat quality/data/measurement/M 4747331-6460.htr
6619 (/water- quality/def/determinands/6619.html)	Chromium Hexavalent, Dissolved :- {Cr VI}	µg/l		0.1 (/water- quality/data/measurement/MD- 4745129-6619.html)	
7859 (/water- quality/def/determinands/7859.html)	Sulphate, Dissolved as SO4	mg/l	58 (/water- quality/data/measurement/MD- 4742879-7859.html)	100 (/water- quality/data/measurement/MD- 4745129-7859.html)	120 (/wat quality/data/measurement/M 4747331-7859.htr
7887 (/water- quality/def/determinands/7887.html)	Chlorophyll : Acetone Extract	µg/l	2.1 (/water- quality/data/measurement/MD- 4742879-7887.html)	0.94 (/water- quality/data/measurement/MD- 4745129-7887.html)	1.4 (/wat quality/data/measurement/M 4747331-7887.htr
8944 (/water- quality/def/determinands/8944.html)	Tributyl Tin as Cation	µg/l		< 0.0002 (/water- quality/data/measurement/MD- 4745129-8944.html)	
9011 (/water- quality/def/determinands/9011.html)	2,2,4,4,5,5- Hexabromodiphenyl ether :- {PBDE 153}	µg/l		< 6.0e-05 (/water- quality/data/measurement/MD- 4745129-9011.html)	

Notation	Determinand	Units	18 Nov 2019 09:42 (/water-quality/data/sample/MD-36741880-20191118-4742879.html)	6 Dec 2019 14:09 (/water-quality/data/sample/MD-36741880-20191206-4745129.html)	7 Jan 2020 15:25 (/water-quality/data/sample/MD-36741880-20200107-4747331.html)
9013 (/water-quality/def/determinands/9013.html)	2,2,4,4,5,6-Hexabromodiphenyl ether :- {PBDE 154}	µg/l		< 6.0e-05 (/water-quality/data/measurement/MD-4745129-9013.html)	
9015 (/water-quality/def/determinands/9015.html)	2,2,4,4,5-Pentabromodiphenyl ether :- {PBDE 99}	µg/l		< 6.0e-05 (/water-quality/data/measurement/MD-4745129-9015.html)	
9017 (/water-quality/def/determinands/9017.html)	2,2,4,4,6-Pentabromodiphenyl ether :- {PBDE 100}	µg/l		< 6.0e-05 (/water-quality/data/measurement/MD-4745129-9017.html)	
9019 (/water-quality/def/determinands/9019.html)	2,2,4,4-Tetrabromodiphenyl ether :- {PBDE 47}	µg/l		< 6.0e-05 (/water-quality/data/measurement/MD-4745129-9019.html)	
9190 (/water-quality/def/determinands/9190.html)	4-Nonylphenol Branched	µg/l		< 0.04 (/water-quality/data/measurement/MD-4745129-9190.html)	
9447 (/water-quality/def/determinands/9447.html)	Boron, Dissolved	µg/l	< 100 (/water-quality/data/measurement/MD-4742879-9447.html)	120 (/water-quality/data/measurement/MD-4745129-9447.html)	130 (/water-quality/data/measurement/MD-4747331-9447.html)
9901 (/water-quality/def/determinands/9901.html)	Oxygen, Dissolved, % Saturation	%	89.1 (/water-quality/data/measurement/MD-4742879-9901.html)	98 (/water-quality/data/measurement/MD-4745129-9901.html)	92.4 (/water-quality/data/measurement/MD-4747331-9901.html)
9924 (/water-quality/def/determinands/9924.html)	Oxygen, Dissolved as O2	mg/l	10.5 (/water-quality/data/measurement/MD-4742879-9924.html)	11.7 (/water-quality/data/measurement/MD-4745129-9924.html)	10.9 (/water-quality/data/measurement/MD-4747331-9924.html)

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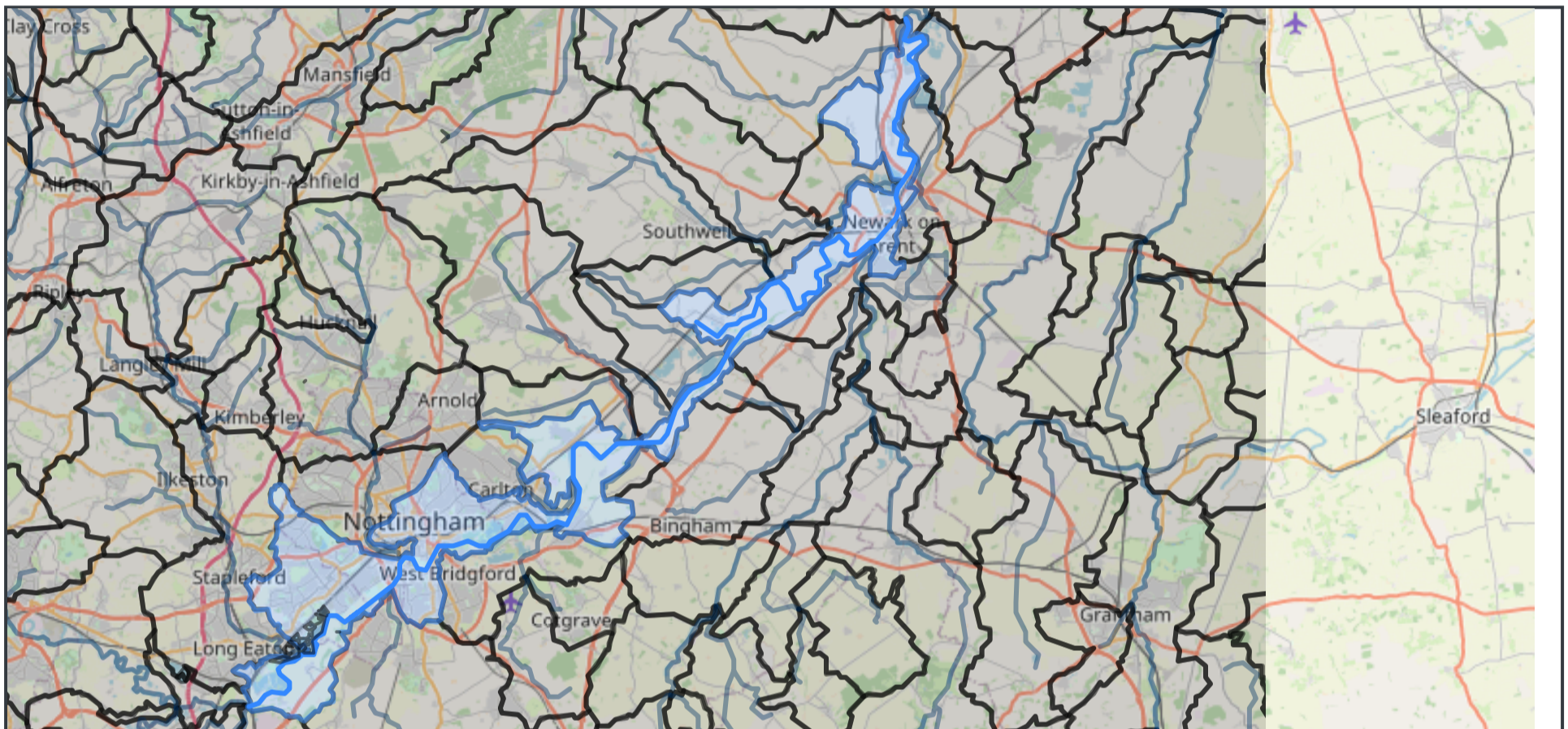


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Trent from Soar to The Beck Water Body

Moderate ecological status

Viewing latest data (Updated on 01 February 2022). [Switch to draft river basin management plan data](#)



Get Trent from Soar to The Beck data

- [Download water body \(Shapefile\)](#)
- [Download water body \(GeoJSON\)](#)
- [Download classifications \(CSV\)](#)
- [Download investigations \(CSV\)](#)
- [Download challenges \(CSV\)](#)
- [Download objectives \(CSV\)](#)
- [Download protected areas \(CSV\)](#)

Related links

- [Draft plan maps on ArcGIS online](#)
- [Draft flood risk management plans](#)

Attributes

Water Body ID GB104028053110	Water Body Type River	Hydromorphological designation heavily modified	NGR SK8001754651

Surveillance Water Body Yes	Length 71.256 km	Catchment area 139.732 km ²	Catchment area 13973.18 ha
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Classifications

Time period: Cycle 2 ▾

Classification Item	2013	2014	2015	2016	2019
Ecological	Moderate	Moderate	Moderate	Moderate	Moderate
Biological quality elements	Good	Moderate	Moderate	Moderate	Moderate
Invertebrates	Good	Good	Good	High	Moderate
Macrophytes and Phytobenthos Combined	Good	Moderate	Moderate	Moderate	Moderate
Physico-chemical quality elements	Moderate	Moderate	Moderate	Moderate	Moderate
Acid Neutralising Capacity		High	High	High	High
Ammonia (Phys-Chem)	Good	High	High	High	High
Biochemical Oxygen Demand (BOD)	High	High	Good	Good	
Dissolved oxygen	High	High	Good	Good	High
Phosphate	Poor	Poor	Poor	Poor	Poor
Temperature	High	High	Moderate	Good	Good
pH	High	High	High	High	High
Hydromorphological Supporting Elements	Supports good	Supports good	Supports good	Supports good	Supports good
Hydrological Regime	Supports good	Supports good	Supports good	Supports good	Supports good
Supporting elements (Surface Water)	Moderate	Moderate	Moderate	Moderate	Moderate
Mitigation Measures Assessment	Moderate or less	Moderate or less	Moderate or less	Moderate or less	Moderate or less
Specific pollutants	High	High	High	High	High
Arsenic	High	High	High	High	High
Chlorothalonil					High
Chromium (VI)					High
Copper	High	High	High	High	High
Diazinon					High
Dimethoate					High
Iron			High	High	High
Manganese	High	High	High	High	High
Mecoprop				High	High
Pendimethalin					High
Phenol				High	High
Toluene				High	High
Triclosan	High	High			
Zinc	High	High	High	High	High
Chemical	Good	Good	Good	Good	Fail
Priority hazardous substances	Good	Good	Good	Good	Fail

Classification Item	2013	2014	2015	2016	2019
Anthracene		Good	Good	Good	Good
Benzo (b) and (k) fluoranthene	Good	Good	Good	Good	
Benzo (ghi) perelyene and indeno (123-cd) pyrene	Good	Good	Good	Good	
Benzo(a)pyrene			Good	Good	Good
Benzo(b)fluoranthene					Good
Benzo(g-h-i)perylene					Good
Benzo(k)fluoranthene					Good
Cadmium and Its Compounds	Good	Good	Good	Good	Good
Di(2-ethylhexyl)phthalate (Priority hazardous)	Good	Good	Good	Good	Good
Dioxins and dioxin-like compounds					Good
Heptachlor and cis-Heptachlor epoxide					Good
Hexabromocyclododecane (HBCDD)					Good
Hexachlorobenzene			Good	Good	Good
Hexachlorobutadiene			Good	Good	Good
Hexachlorocyclohexane	Good	Good	Good	Good	Good
Mercury and Its Compounds			Good	Good	Fail
Nonylphenol	Good	Good	Good	Good	Good
Pentachlorobenzene					Good
Perfluorooctane sulphonate (PFOS)					Fail
Polybrominated diphenyl ethers (PBDE)			Good	Good	Fail
Quinoxifen					Good
Tributyltin Compounds	Good	Good			Good
Priority substances	Good	Good	Good	Good	Good
1,2-dichloroethane	Good	Good	Good	Good	Good
Aclonifen					Good
Alachlor					Good
Benzene		Good	Good	Good	Good
Bifenox					Good
Chlorpyrifos		Good	Good	Good	Good
Cybutryne					Good
Cypermethrin (Priority hazardous)					Good
Dichloromethane		Good	Good	Good	Good
Dichlorvos (Priority)					Good
Fluoranthene	Good	Good	Good	Good	Good
Lead and Its Compounds	Good	Good	Good	Good	Good
Nickel and Its Compounds	Good	Good	Good	Good	Good
Octylphenol					Good
Pentachlorophenol	Good	Good	Good	Good	Good
Terbutryn					Good
Trichlorobenzenes	Good	Good	Good	Good	Good

Classification Item	2013	2014	2015	2016	2019
Trichloromethane	Good	Good	Good	Good	Good
Other Pollutants	Good	Good	Good	Good	Good
Aldrin, Dieldrin, Endrin & Isodrin	Good	Good	Good	Good	Good
Carbon Tetrachloride	Good	Good	Good	Good	Good
DDT Total	Good	Good	Good	Good	Good
Tetrachloroethylene	Good	Good	Good	Good	Good
Trichloroethylene	Good	Good	Good	Good	Good
para - para DDT	Good	Good	Good	Good	Good

Investigations into classification status

No data to show

Reasons for not achieving good (RNAG) and reasons for deterioration (RFD)

All reasons (RFDs and RNAGs) attributed to the classification elements in this water body.

Reason Type	SWMI	Activity	Category	Classification Element	More information
RNAG	Unknown (pending investigation)	Unknown (pending investigation)	Sector under investigation	Perfluorooctane sulphonate (PFOS)	Details
RNAG	Diffuse source	Transport Drainage	Urban and transport	Phosphate	Details
RNAG	Point source	Sewage discharge (continuous)	Water Industry	Phosphate	Details
RNAG	Point source	Sewage discharge (continuous)	Water Industry	Macrophytes and Phytobenthos Combined	Details
RNAG	Measures delivered to address Reason, awaiting classification	Not applicable	No sector responsible	Polybrominated diphenyl ethers (PBDE)	Details
RNAG	Measures delivered to address Reason, awaiting classification	Not applicable	No sector responsible	Mercury and Its Compounds	Details
RNAG	Physical modification	Other (not in list, must add details in comments)	Urban and transport	Mitigation Measures Assessment	Details
RNAG	Physical modification	Other (not in list, must add details in comments)	Local and Central Government	Mitigation Measures Assessment	Details
RNAG	Physical modification	Other (not in list, must add details in comments)	Navigation	Mitigation Measures Assessment	Details

Reasons for not achieving good status by business sector

The issues preventing waters reaching good status and the sectors identified as contributing to them. The numbers in the table are individual counts of the reasons for not achieving good status with a confidence status of 'confirmed' and 'probable', where the latest classification is less than good status. There may be more than one reason in a single water body. Note, table does not include reasons for deterioration.

Significant water management issue	Physical modifications	Pollution from waste water	Pollution from towns, cities and transport	Changes to the natural flow and level of water	Invasive non-native species	Pollution from rural areas	Pollution from abandoned mines
Agriculture and rural land management	0	0	0	0	0	0	0
Industry	0	0	0	0	0	0	0
Mining and quarrying	0	0	0	0	0	0	0
Navigation	1	0	0	0	0	0	0
Urban and transport	1	0	1	0	0	0	0
Water Industry	0	2	0	0	0	0	0
Local & central government	1	0	0	0	0	0	0
Domestic general public	0	0	0	0	0	0	0
Recreation	0	0	0	0	0	0	0
Waste treatment and disposal	0	0	0	0	0	0	0
Other	0	0	0	0	0	0	0
No sector responsible	0	0	0	0	0	0	0
Sector under investigation	0	0	0	0	0	0	0
Total	3	2	1	0	0	0	0

Objectives

Classification Item	Status	Year	Reasons
Ecological	Moderate	2015	Disproportionately expensive: Disproportionate burdens; Disproportionately expensive: Unfavourable balance of costs and benefits
Biological quality elements	Good	2027	Disproportionately expensive: Disproportionate burdens
Invertebrates	Good	2015	
Macrophytes and Phytobenthos Combined	Good	2027	Disproportionately expensive: Disproportionate burdens
Physico-chemical quality elements	Moderate	2015	Disproportionately expensive: Disproportionate burdens; Disproportionately expensive: Unfavourable balance of costs and benefits
Acid Neutralising Capacity	Good	2015	
Ammonia (Phys-Chem)	Good	2015	
Dissolved oxygen	Good	2015	
Phosphate	Moderate	2027	Disproportionately expensive: Disproportionate burdens; Disproportionately expensive: Unfavourable balance of costs and benefits
Temperature	Good	2015	
pH	Good	2015	

Classification Item	Status	Year	Reasons
Hydromorphological Supporting Elements	Supports good	2015	
Hydrological Regime	Supports good	2015	
Supporting elements (Surface Water)	Good	2027	Disproportionately expensive: Disproportionate burdens
Mitigation Measures Assessment	Good	2027	Disproportionately expensive: Disproportionate burdens
Specific pollutants	High	2015	
Arsenic	High	2015	
Copper	High	2015	
Iron	High	2015	
Manganese	High	2015	
Zinc	High	2015	
Chemical	Good	2015	
Priority hazardous substances	Good	2015	
Anthracene	Good	2015	
Benzo (b) and (k) fluoranthene	Good	2015	
Benzo (ghi) perelyene and indeno (123-cd) pyrene	Good	2015	
Benzo(a)pyrene	Good	2015	
Cadmium and Its Compounds	Good	2015	
Di(2-ethylhexyl)phthalate (Priority hazardous)	Good	2015	
Hexachlorobenzene	Good	2015	
Hexachlorobutadiene	Good	2015	
Hexachlorocyclohexane	Good	2015	
Mercury and Its Compounds	Good	2015	
Nonylphenol	Good	2015	
Polybrominated diphenyl ethers (PBDE)	Good	2015	
Priority substances	Good	2015	
1,2-dichloroethane	Good	2015	
Benzene	Good	2015	
Chlorpyrifos	Good	2015	
Dichloromethane	Good	2015	
Fluoranthene	Good	2015	
Lead and Its Compounds	Good	2015	
Nickel and Its Compounds	Good	2015	
Pentachlorophenol	Good	2015	
Trichlorobenzenes	Good	2015	
Trichloromethane	Good	2015	
Other Pollutants	Good	2015	
Aldrin, Dieldrin, Endrin & Isodrin	Good	2015	
Carbon Tetrachloride	Good	2015	
DDT Total	Good	2015	

Classification Item	Status	Year	Reasons
Tetrachloroethylene	Good	2015	
Trichloroethylene	Good	2015	
para - para DDT	Good	2015	

Protected areas

PA Name	Id	Directive	Type	More information
River Trent from River Soar to Carlton-on-Trent NVZ S320	S320	Nitrates Directive		
River Trent	UKENRI130	Urban Waste Water Treatment Directive		
Causeway Dyke Catchment (trib of Trent) NVZ S327	S327	Nitrates Directive		
River Erewash and Erewash Canal	UKENRI37	Urban Waste Water Treatment Directive		
River Soar	UKENRI103	Urban Waste Water Treatment Directive		
River Devon and Car Dyke	UKENRI145	Urban Waste Water Treatment Directive		
Colwick Country Park (West Lake)	UK09750	Bathing Water Directive		

Monitoring sites

[TRENT CONFLUENCE, E BRIDGFORD](#) 417795

[U/S DEVON MTR SITE](#) 423554

[TRENT/COLWICK MARINA NET/](#) 479850

[TRENT/STOKE BARDOLPH NET/](#) 479851

[TRENT/KNEETON NET/](#) 532260

[GUNTHORPE](#) 420788

[HOLME DYKE AT FISKERTON](#) 262534

[RIVER TRENT AT WINTHORPE \(NEW\)](#) 520880

[TRENT/MILL LANE \(NEWARK DYKE\)/](#) 530633

[SHELFORD BROOK AT CONF R.TRENT](#) 262648

[RIVER TRENT AT NOTTINGHAM TRENT BRIDGE](#) 520964

[WINTHORPE BRIDGE](#) 416869

[BEESTON](#) 422625

[U/S EREWASH MTR SITE](#) 423547

[RIVER TRENT D/S RATCLIFFE POWER STATION](#) 520986

[CONFLUENCE \(SK7200047900\)](#) 421907

[NON-TIDAL RIVER TRENT AT GUNTHORPE](#) 520926

[U/S STOKE BARDOLPH D/S POLSER BECK MTR SITE](#) 423550

[ATTENBOROUGH](#) 416100

[LADYBAY BRIDGE RIGHT BANK](#) 420269

Upstream water bodies

[Ouse Dyke Catchment \(trib of Trent\)](#)

[Polser Brook from Cotgrave Brook to Trent](#)

[Leen from Day Brook to Trent](#)

[Soar from Long Whatton Brook to Trent](#)

[Slough Dyke Catchment \(trib of Trent\)](#)

[Trent from Derwent to Soar](#)

[Devon from Cotham to Trent](#)

[Greet Catchment \(trib of Trent\)](#)

[Erewash from Gilt Brook to Trent](#)

[Dover Beck Catchment \(trib of Trent\)](#)

[Trent Bifurcation Pingley Dyke to Winthorpe](#)

[Causeway Dyke Catchment \(trib of Trent\)](#)

[Cocker Beck Catchment \(trib of Trent\)](#)

[Shelford Brook Catchment \(trib of Trent\)](#)

[Fairham Brook Catchment \(trib of Trent\)](#)

Downstream water bodies

[Trent from Carlton-on-Trent to Laughton Drain](#)

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APPENDIX 4
M BAT Tool



APPENDIX 5

H1 Tool

H1 Results

Discharge of 7 l/s

Number	Substance	Bkgnd Conc. µg/l	Annual Avg EOS			MAC*EOS						
			PC	PEC	(PEC-BC)/EOS	PEC-BC >10% AA EOS	% PEC of EOS	PEC >100% AA EOS	PC	PEC	% PEC of MAC	PEC >100% MAC
		e.g. 200					Test 3	Test 4a				Test 4b
3	Chromium III (95%ile) (dissolved) (River Trent at Colwick)	0.52	2.71	323	57.6%	Fail	68.7	Pass	10.4	10.9	34.0	Pass
4	Copper (River Trent at Colwick)	0.19	0.0675	0.258	6.7%	Pass	25.8	Pass	6.67	0	-	Pass
5	Lead and it's compounds (River Trent at Colwick)	0.07	0.125	0.195	10.4%	Fail	16.3	Pass	0.130	0.200	1.43	Pass
6	Mercury and its compounds (River Trent at Colwick)	0.01	0.0125	0		Pass	-	Pass	0.0125	0.0225	32.2	Pass
7	Nickel and its compounds (River Trent at Colwick)	1.6	0.436	2.04	10.9%	Fail	50.9	Pass	6.75	8.35	24.6	Pass
9	Phosphate moderate (River Trent at Colwick)	300	27.5	327	15.9%	Fail	189	Fail	27.5	0	-	Pass
8	Zinc (River Trent at Colwick)	5.5	1.98	7.48	18.1%	Fail	68.6	Pass	15.2	0	-	Pass

Discharge of 15 l/s

Number	Substance	Bkgnd Conc. µg/l	Annual Avg EOS			MAC*EOS						
			PC	PEC	(PEC-BC)/EOS	PEC-BC >10% AA EOS	% PEC of EOS	PEC >100% AA EOS	PC	PEC	% PEC of MAC	PEC >100% MAC
		e.g. 200					Test 3	Test 4a				Test 4b
2	Cadmium and its compounds (≥ 200 mg/l CaCO3) (River Trent at Colwick)	0.125	0.0134	0.139	5.4%	Pass	55.4	Pass	0.108	0.233	15.5	Pass
3	Chromium III (95%ile) (dissolved) (River Trent at Colwick)	0.52	5.80	6.32	123.3%	Fail	134	Fail	22.2	22.7	70.9	Pass
4	Copper (River Trent at Colwick)	0.19	0.145	0.335	14.4%	Fail	33.5	Pass	14.3	0	-	Pass
5	Lead and it's compounds (River Trent at Colwick)	0.07	0.268	0.338	22.3%	Fail	28.2	Pass	0.279	0.349	2.49	Pass
6	Mercury and its compounds (River Trent at Colwick)	0.01	0.0268	0		Pass	-	Pass	0.0268	0.0368	52.6	Pass
7	Nickel and its compounds (River Trent at Colwick)	1.6	0.933	2.54	23.3%	Fail	63.4	Pass	14.5	16.0	47.2	Pass
9	Phosphate moderate (River Trent at Colwick)	300	58.9	359	34.0%	Fail	207	Fail	58.9	0	-	Pass
10	Phosphate poor (River Trent at Colwick)	300	58.9	359	5.9%	Pass	35.8	Pass	58.9	0	-	Pass
8	Zinc (River Trent at Colwick)	5.5	4.23	9.73	38.8%	Fail	89.3	Pass	32.6	0	-	Pass

Discharge of 10.5 l/s

Number	Substance	Bkgnd Conc. µg/l	Annual Avg EOS			MAC*EOS						
			PC	PEC	(PEC-BC)/EOS	PEC-BC >10% AA EOS	% PEC of EOS	PEC >100% AA EOS	PC	PEC	% PEC of MAC	PEC >100% MAC
		e.g. 200					Test 3	Test 4a				Test 4b
2	Cadmium and its compounds (≥ 200 mg/l CaCO3) (River Trent at Colwick)	0.125	0.00937	0.135	3.7%	Pass	53.8	Pass	0.0750	0.200	13.4	Pass
3	Chromium III (95%ile) (dissolved) (River Trent at Colwick)	0.52	4.06	4.58	86.4%	Fail	97.5	Pass	15.6	16.0	50.1	Pass
4	Copper (River Trent at Colwick)	0.19	0.102	0.292	10.1%	Fail	29.2	Pass	10.0	0	-	Pass
5	Lead and it's compounds (River Trent at Colwick)	0.07	0.188	0.258	15.6%	Fail	21.5	Pass	0.195	0.265	1.90	Pass
6	Mercury and its compounds (River Trent at Colwick)	0.01	0.0188	0		Pass	-	Pass	0.0188	0.0288	41.0	Pass
7	Nickel and its compounds (River Trent at Colwick)	1.6	0.653	2.26	16.3%	Fail	56.4	Pass	10.2	11.8	34.5	Pass
9	Phosphate moderate (River Trent at Colwick)	300	41.3	341	23.8%	Fail	197	Fail	41.3	0	-	Pass
10	Phosphate poor (River Trent at Colwick)	300	41.3	341	4.1%	Pass	34.0	Pass	41.3	0	-	Pass
8	Zinc (River Trent at Colwick)	5.5	2.96	8.46	27.1%	Fail	77.7	Pass	22.8	0	-	Pass