

#### KEY Primary energy centre Medium / small site -• public or social ownership Large site - private ۲ ownership Medium / small site - $\odot$ private ownership Large site - public or social ownership Phase 1 Phase 2 Possible Phase 2

Site Identifier	Short Name
Energy Centre	Primary Energy Centre, Hoobrook Enterprise
11	Hoo Farm Ind Est 1
кк	Hoo Farm Ind Est 2
LL	Hoo Farm Ind Est 3
MM	Hoo Farm Ind Est 4
FF	Hoobrook Enterprise Centre 1
GG	Hoobrook Enterprise Centre 2
нн	Hoobrook Enterprise Centre 3
NN	Worcester Rd Retail Est



Originated by Checked by Approved by				
	Ver	Amendments		
	A			

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### mouchel building great relationship

Wychavon District Council

#### Project

#### Worcestershire Heat Mapping

# Drawing Title PROPOSED SOUTHERN DISTRICT HEAT NETWORK KIDDERMINSTER

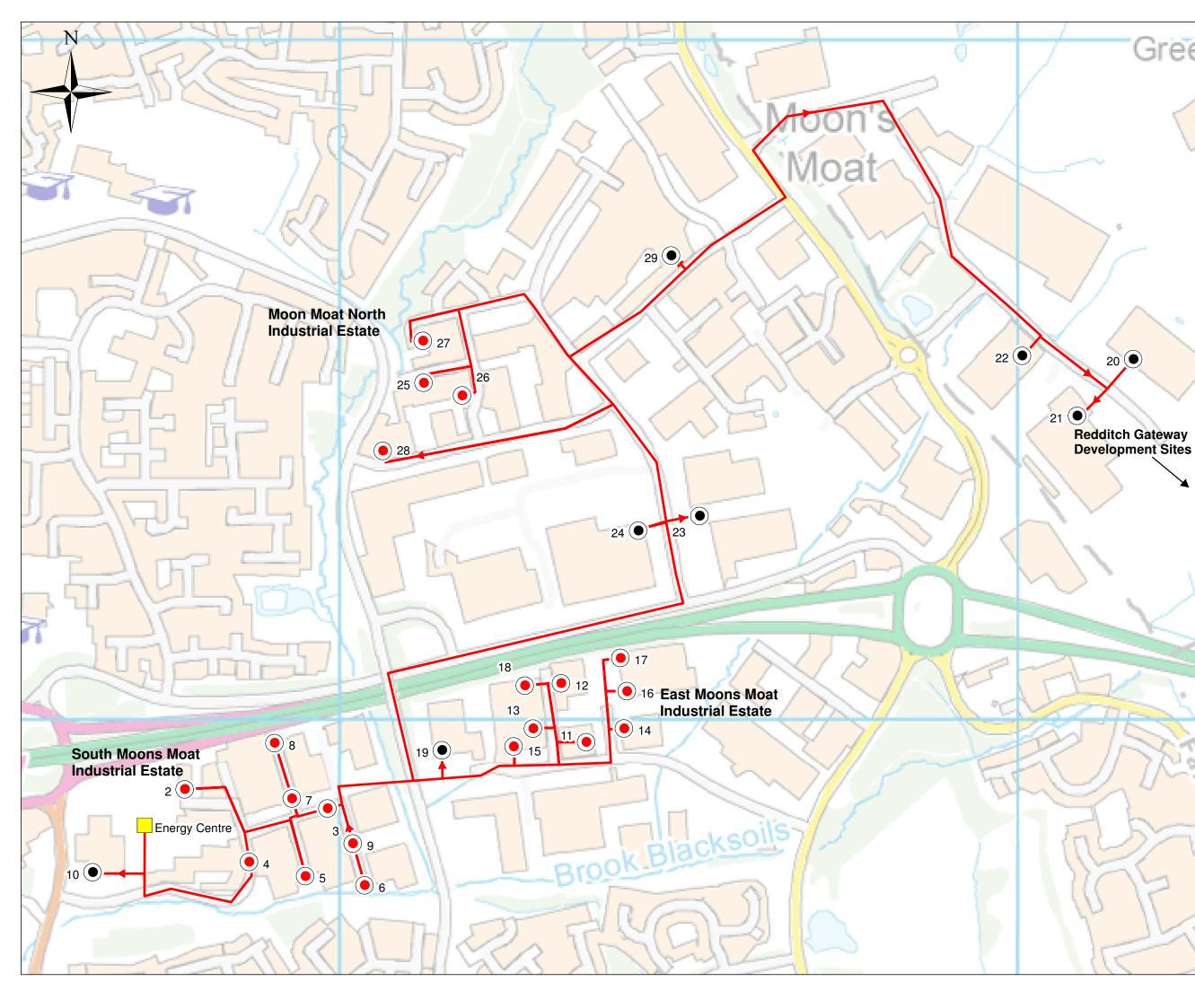
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Information	



# KEY

Gree

	Primary energy centre
	Medium / small site -
•	public or social ownership
	Large site - private
•	ownership
$\bigcirc$	Medium / small site -
$\sim$	private ownership
•	Large site - public or social
•	ownership
-	Phase 1
-	Phase 2

Possible Phase 2

Site	
	Short Name
1	Primary Energy Centre
2	South Moons Moat 1
3	South Moons Moat 2
4	South Moons Moat 3
5	South Moons Moat 4
6	South Moons Moat 5
7	South Moons Moat 6
8	South Moons Moat 7
9	South Moons Moat 8
10	Marubeni-Komatsu
11	East Moons Moat 1
12	East Moons Moat 2
13	East Moons Moat 3
14	East Moons Moat 4
15	East Moons Moat 5
16	East Moons Moat 6
17	East Moons Moat 7
18	East Moons Moat 8
19	Blue Earth
20	SP Group
21	Lear Corp
22	Magna Intier
23	UK-NSI
24	FW Thorpe
25	Moon Moat North 1
26	Moon Moat North 2
27	Moon Moat North 3
28	Moon Moat North 4
29	Master Magnets
1	

	23	UK-NSI				PX 1
	24	FW Thorpe				Z Z
	25	Moon Moat No	orth 1			Į
	26	Moon Moat No	orth 2			z
	27	Moon Moat No	orth 3			H۳.
	28	Moon Moat No	orth 4			臣
L	29	Master Magne	ts			Б
Z						
в	Locations updated		IW 09/09/2016	TE 05/01/2017	TE 05/01/2017	REDDITCH NORTHERN MAIN.mxd
A	First Issue		J Chapman 09/09/2016	M Kerslake 09/09/2016	M German 09/09/2016	B RED
Ver	r Amendments Origina and			Checked by and date	Approved by and date	6 Ver I
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Client

#### Wychavon District Council

Project

#### Worcestershire Heat Mapping

# Drawing Title PROPOSED NORTHERN DISTRICT HEAT NETWORK, REDDITCH

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Information

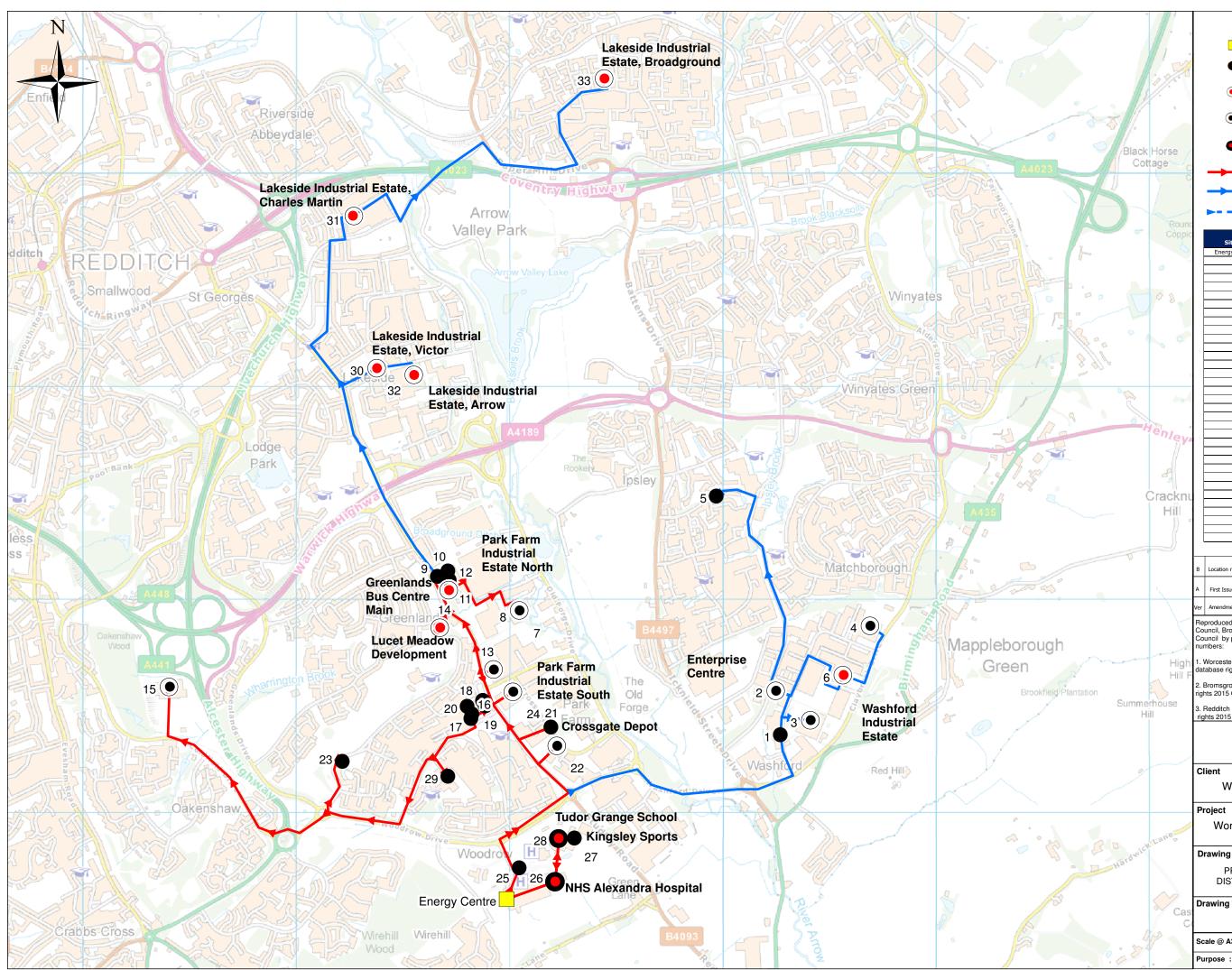
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Purpose :

)	Mouchel	Limited



#### KEY Primary energy centre Medium / small site public or social ownership Large site - private • ownership Medium / small site -• private ownership Large site - public or social ownership Phase 1 Phase 2

Possible Phase 2

Site ID	Short Name
Energy Centre	Primary Energy Centre
1	Enterprise Centre
2	Rockline Industies
3	Gardner Denver
4	Valeo Service U
5	Arrow Vale Academy
6	Washford Ind Est
7	Park Farm Ind Est South
8	Vsmpo Tirus
9	Greenlands Bus Centre Main
	Greenlands Bus Centre Main Greenlands Bus Centre 4
10	
11	Greenlands Bus Centre 5
12	Park Farm Ind Est North
13	Langdons
14	Lucet Meadow Development
15	Tesco
16	Woodrow Centre 74 - 76
17	Woodrow Centre 44 - 46
18	Woodrow Library
19	Woodrow Office
20	Woodrow Centre
21	Crossgate Depot
22	Profin Protective Finishing
23	Woodrow Youth
24	Alcoa Fastenings
25	New development
26	NHS Alexandra Hospital
27	Kingsley Sports
28	School Tudor Grange
29	School Woodrow First
30	Lakeside Ind Est, Victor
31	Lakeside Ind Est, Charles Martin
32	Lakeside Ind Est, Arrow

в	Location name updated	IW 05/01/2017	TE 05/01/2017	TE 05/01/2017	
A	First Issue	J Chapman 09/09/2016	M Kerslake 09/09/2016	M German 09/09/2016	
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Wychavon District Council

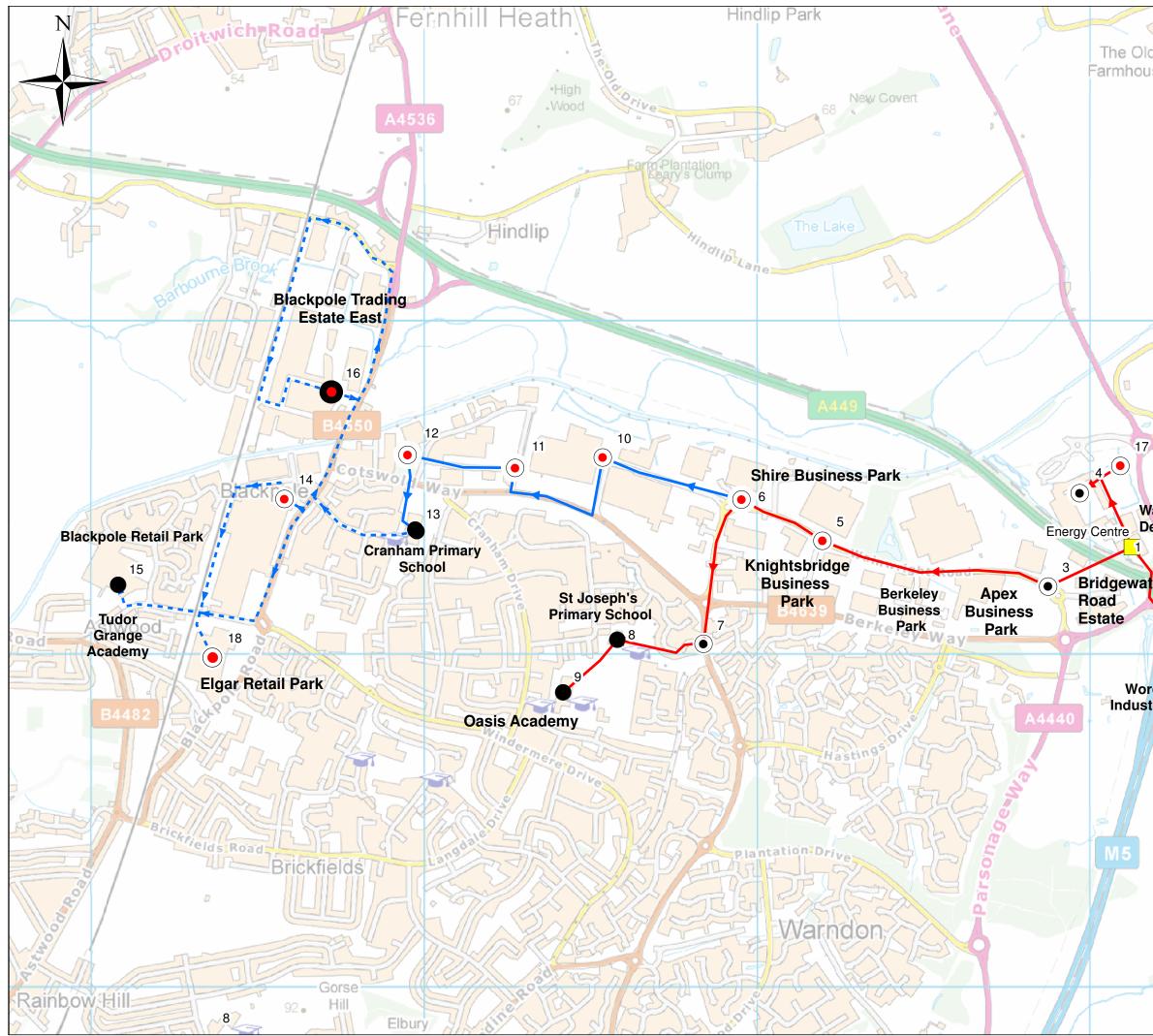
## Worcestershire Heat Mapping

#### **Drawing Title**

PROPOSED NHS AND INDUSTRIAL DISTRICT HEAT NETWORK, REDDITCH

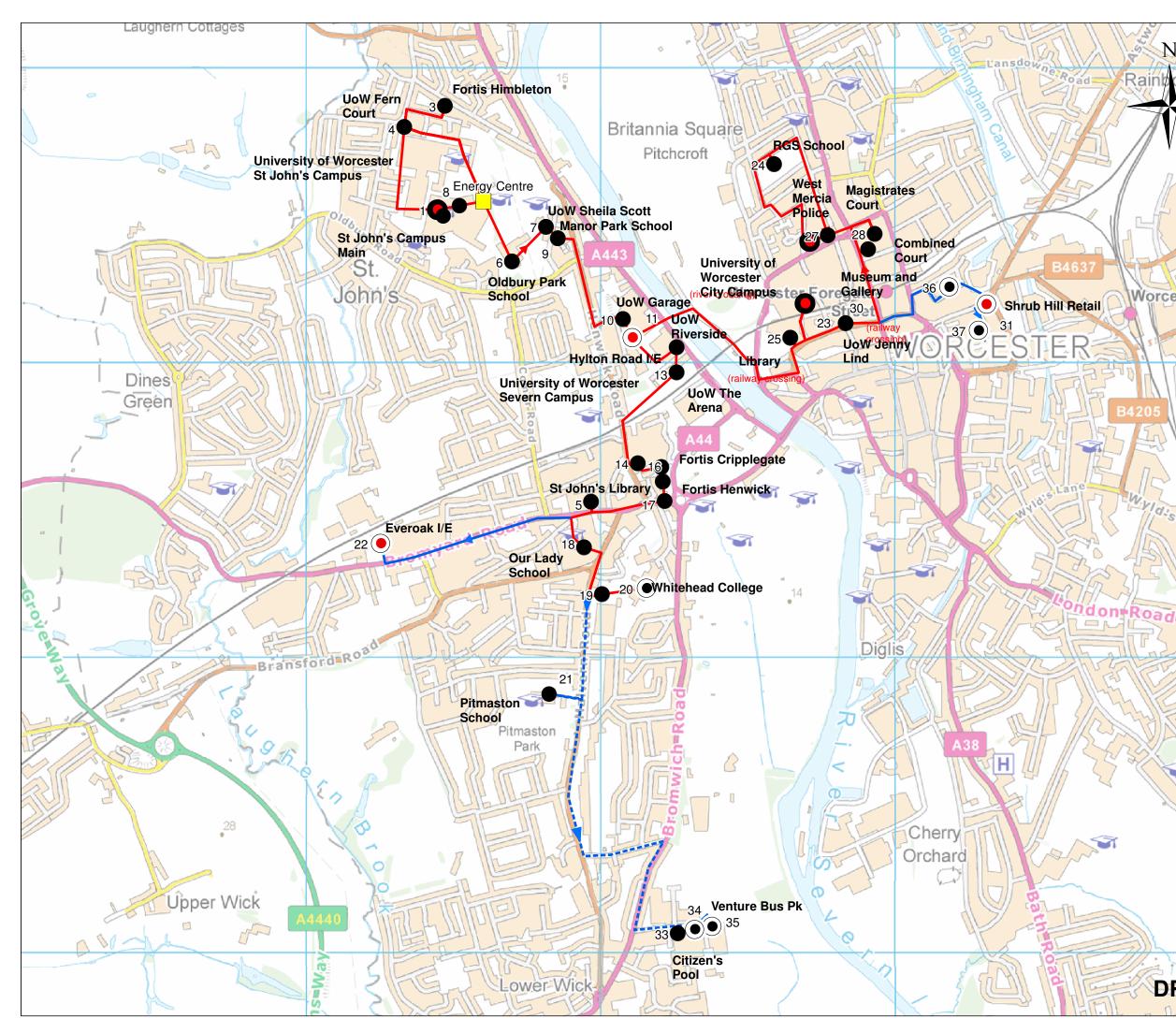
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Sm i	KEY	
Smiter	Primary energy centre	
a	Medium / small site -	
se	public or social ownership	
	Large site - private	
	ownership	
	Medium / small site -   private ownership	
	Large site - public or social	
	ownership	
	Phase 1	
	Phase 2	
	Possible Phase 2	
Offer		
Far	Node Name Energy Centre Primary Energy Centre	
	1 Warndon Depot	
	2 Worcester 6 3 Bridgewater Road	
01		
	5 Berkeley, Apex & Wainwright Business Parks 6 Brindley Road	
	7 Homestead Ave 8 School Gorse Hill	
	9 School Oasis Academ	
	10 Ebrington Drive 11 Badgeworth Drive	
	12 Buckhold Drive	
	13 School Cranham Prim 14 Blackpole Retail Park	
	15 School Tudor Grange	
	16 Blackpole Trading Park 17 David Lloyd	
	18 Elgar Retail Park	
er 6	DRAFT	
	A J Chapman M Kerslake M German	
2Coneyb	Originated by Checked by Approved by	
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	building great relationships	
~	Client	
	Wychavon District Council	
$\rightarrow$	Project Worcestershire Heat Mapping	
11		
	Client Wychavon District Council Project Worcestershire Heat Mapping Drawing Title PROPOSED NORTH WORCESTER DISTRICT HEAT NETWORK, WORCESTER Drawing No. 5.8 Scale @ A3 : 1:11,000 Purpose : Information	
8	Drawing No.	
	5.8	
	Scale @ A3 : 1:11,000	
	Purpose : Information	

Path: W:\1070145 Worcestershire heat mapping\09 Documents\GIS\ArcGIS\_maps\FIGURE XX Priority Sites WORCESTER NORTH NETWORK\_JC





# KEY

Primary energy centre Medium / small site public or social ownership Large site - private ownership Medium / small site private ownership Large site - public or social ownership

#### Possible Phase 2

nergyCentre       Primary Energy Centre         29       Museum & Gallery         31       Shrub Hill Retail         30       UoW Jenny Lind         23       UoW City Campus         24       Library         25       Library         18       School Our Lady         19       St. John's Sport Centre         5       St. John's Sport Centre         16       Fortis Stevern         14       Fortis Severn         12       UoW Riverside         13       UoW Riverside         14       Fortis Ressel         15       UoW Riverside         16       School Oldbury PK         17       Gues School Oldbury PK         18       UoW Ferena         11       Hylton Road I/E         12       UoW Feren Court         13       UoW Ferens         14       Out Forts         15       School Oldbury PK         9       School Manor Park         4       UoW Ferens         14       UoW St Johns Campus Main         3       Fortis Himbleton         36<	Site Identifier
31   Shrub Hill Retail     30   UoW Jenny Lind     23   UOW City Campus     25   Library     18   School Our Lady     19   St. John's Sport Centre     5   St. John's Sport Centre     16   Fortis Cripplegate     16   Fortis Scipplegate     17   Fortis Scipplegate     18   Vertis Russel     20   Everoak I/E     11   Hylton Road I/E     10   UoW Garage     6   School Oldbury Pk     9   School Nanor Park     4   UoW Fern Court     1   UoW Sheila Scott     1   UoW Sheila Scott     1   UoW Stelia Scott     26   West Mercia Police     27   Magistrates Court     28   Combined College     27   Magistrates Court     28   Combined College     27   Magistrates Court     28   Combined College     29   Venture Bus Pk     34   Amdac	nergy Centre
30   UoW Jenny Lind     23   UoW City Campus     25   Library     18   School Our Lady     19   St. John's Sport Centre     5   St. John's Sport Centre     16   Fortis Krishenwick     17   Fortis Russel     22   Everoak I/E     12   UoW Riverside     13   UoW Riverside     14   Fortis Road I/E     15   UoW Road I/E     10   UoW Garage     6   School Oldbury Pk     9   School Manor Park     4   UoW Forters     1   UoW Stohns Campus Main     3   Fortis Himbleton     36   Heenans Ct     26   West Mercia Police     27   Magistrates Court     28   Combined Court     37   ASDA     20   Whitehead College     35   Venture Bus Pk	29
23   UoW City Campus     25   Library     18   School Our Lady     19   St. John's Sport Centre     5   St. John's Sport Centre     16   Fortis Cripplegate     16   Fortis Severn     17   Fortis Severn     18   UoW Riverside     13   UoW The Arena     11   Hytton Road I/E     10   UoW Grage     6   School Oldbury Pk     9   School Manor Park     4   UoW Shella Scott     1   UoW Starges     7   UoW Shella Scott     10   UoW Starges     26   Meenans Ct     27   Magistrates Court     28   Combined Court     27   ASDA     28   Combined Court     37   ASDA     20   Whitehead College     35   Venture Bus Pk	31
25       Library         28       School Our Lady         19       School Our Lady         19       School Our Lady         19       School Our Lady         19       School Our Lady         15       Fortis Cripplegate         16       Fortis Cripplegate         17       Fortis Severn         18       Fortis Russel         20       Everaak I/E         12       UoW Riverside         13       UoW The Arena         11       Hyton Road I/E         10       UoW Garage         6       School Oldbury Pk         9       School Oldbury Pk         9       School Manor Park         4       UoW Sen Court         8       UoW Porters         1       UoW St Johns Campus Main         3       Forts Himbleton         36       Heenans Ct         26       West Mercia Police         27       Magistrates Court         28       Combined Court         37       ASDA         20       Whitehead College         35       Venture Bus Pk<	30
18   School Our Lady     19   St. John's Sport Centre     5   St. John's Sport Centre     15   Fortis Cripplegate     16   Fortis Kropplegate     17   Fortis Stevern     14   Fortis Stevern     12   Low Riverside     13   UoW The Arena     11   Hytton Road I/E     10   UoW Garage     6   School Oldbury Pk     9   School Oldbury Pk     9   School Nanor Park     4   UoW Fern Court     8   UoW Fern Court     10   UoW Schalla Scott     11   UoW Stohns Campus Main     3   Fortis Himbleton     36   Heenans Ct     27   Magistrates Court     28   Combined Court     37   ASDA     20   Whitehead College     35   Venture Bus Pk     34   Amdac	23
19   St. John's Sport Centre     5   St. John's Sport Centre     15   Fortis Cripplegate     16   Fortis Cripplegate     17   Fortis Severn     14   Fortis Severn     14   Fortis Russel     22   Everoak I/E     12   UoW Riverside     13   UoW Rerea     11   Hylton Road I/E     10   UOW Garage     6   School Oldbury Pk     9   School Manor Park     4   UoW Forters     7   UoW St Johns Campus Main     3   Fortis Himbleton     36   Heenans Ct     26   West Mercia Police     27   Magistrates Court     28   Combined Court     37   ASDA     20   Whitehead College     35   Venture Bus Pk     34   Amdac	25
5   St. Johns Library     15   Fortis Cripplegate     16   Fortis Kenwick     17   Fortis Severn     14   Fortis Russel     22   Everoak J/E     13   UoW Riverside     13   UoW The Arena     11   Hylton Road J/E     10   UoW Garage     6   School Oldbury Pk     9   School Manor Park     4   UoW Fern Court     8   UoW Shelia Scott     1   UoW St Johns Campus Main     3   Fortis Himbleton     36   Heenans Ct     27   Magistrates Court     28   Combined Court     37   ASDA     20   Whitehead College     35   Venture Bus Pk	18
15   Fortis Cripplegate     16   Fortis Henwick     17   Fortis Resern     14   Fortis Russel     22   Everoak I/E     12   UoW Riverside     13   UoW The Arena     11   Hylton Road I/E     10   UoW Garage     6   School Oldbury Pk     9   School Oldbury Pk     10   UoW Sene Court     8   UoW Porters     7   UoW Shelia Scott     1   UoW Stohns Campus Main     36   Heenans Ct     24   RGS School     26   West Mercia Police     27   Magistrates Court     28   Combined Court     37   ASDA     20   Whitehead College     35   Venture Bus Pk     34   Amdac	19
16   Fortis Henwick     17   Fortis Severn     14   Fortis Russel     22   Everoak/E     13   UoW Riverside     13   UoW The Arena     11   Hylton Road I/E     10   UOW Garage     6   School Oldbury Pk     9   School Nanor Park     4   UOW Fern Court     1   UoW Stolas Cott     1   UoW Stolas Cott     1   UoW Stolas Cott     1   UoW Stolas Cott     26   West Mercia Police     27   Magistrates Court     28   Combined Court     37   ASDA     20   Whitehead College     35   Venture Bus Pk     34   Amdac	5
17   Fortis Severn     14   Fortis Russel     22   Everoak I/E     12   UoW Riverside     13   UoW Riverside     10   UoW Riverside     11   Hylton Road I/E     10   UoW Garage     6   School Oldbury Pk     9   School Manor Park     4   UoW Forters     7   UoW Steldins Comput Main     3   Fortis Himbleton     36   Heenans Ct     24   RGS School     25   West Mercia Police     27   Magistrates Court     28   Combined Court     37   ASDA     20   Whitehead College     35   Venture Bus Pk	15
14   Fortis Russel     22   Everoak //E     12   UoW Riverside     13   UoW The Arena     11   Hylton Road I/E     10   UoW Garage     6   School Oldbury Pk     9   School Oldbury Pk     1   UoW Fern Court     8   UoW Shelia Scott     1   UoW Stelia Scott     1   UoW Stelia Scott     24   RGS School     26   West Mercia Police     27   Magistrates Court     28   Combined Court     37   ASDA     20   Whitehead College     35   Venture Bus Pk     34   Amdac	16
22   Everoak I/E     12   UoW Riverside     13   UoW The Arena     11   Hytton Road J/E     10   UoW Garage     6   School Oldbury Pk     9   School Oldbury Pk     10   UoW Forn Court     8   UoW Porters     7   UoW Shelia Scott     1   UoW Storn Court     36   Heenans Ct     24   RGS School     26   West Mercia Police     27   Magistrates Court     28   Combined Court     37   ASDA     20   Whitehead College     35   Venture Bus Pk     34   Amdac	17
12   UoW Riverside     13   UoW The Arena     11   Hylton Road I/E     10   UoW Garage     6   School Oldbury Pk     9   School Oldbury Pk     4   UoW Forn Court     8   UoW Forn Court     10   UoW Shelia Scott     1   UoW Stolns Campus Main     3   Fortis Himbleton     36   Heenans Ct     24   RGS School     25   West Mercia Police     27   Magistrates Court     37   ASDA     20   Whitehead College     35   Venture Bus Pk     34   Armdac	14
13   UoW The Arena     11   Hylton Road I/E     10   UoW Garage     6   School Oldbury Pk     9   School Manor Park     4   UoW Fort Court     8   UoW Porters     7   UoW Sheila Scott     1   UoW St Johns Campus Main     3   Fortis Himbleton     36   Heenans Ct     24   RGS School     26   West Mercia Police     27   Magistrates Court     37   ASDA     20   Whitehead College     35   Venture Bus Pk     34   Amdac	22
11   Hylton Road I/E     10   UOW Garage     6   School Oldbury Pk     9   School Nanor Park     4   UOW Forn Court     8   UOW Porters     7   UOW Shella Scott     1   UOW Shella Scott     24   RGS School     26   West Mercia Police     27   Magistrates Court     28   Combined Court     37   ASDA     20   Whitehead College     35   Venture Bus Pk     34   Amdac	12
10   UoW Garage     6   School Oldbury Pk     9   School Manor Park     4   UoW Fenr Court     8   UoW Porters     7   UoW Shelia Scott     1   UoW St Johns Campus Main     36   Heenans Ct     24   RGS School     26   West Mercia Police     27   Magistrates Court     28   Combined Court     37   ASDA     20   Whitehead College     35   Venture Bus Pk     34   Amdac	13
6 School Oldbury Pk   9 School Manor Park   4 UoW Fern Court   8 UoW Porters   7 UoW Shelia Scott   1 UoW St Johns Campus Main   3 Fortis Himbleton   36 Heenans Ct   24 RGS School   26 West Mercia Police   27 Magistrates Court   28 Combined Court   37 ASDA   20 Whitehead College   35 Venture Bus Pk   34 Amdac	11
9   School Manor Park     4   UoW Fern Court     8   UoW Porters     7   UoW Shelia Scott     1   UoW St Johns Campus Main     3   Fortis Himbleton     36   Heenans Ct     24   RGS School     26   West Mercia Police     27   Magistrates Court     28   Combined Court     37   ASDA     20   Whitehead College     35   Venture Bus Pk     34   Amdac	10
4   UoW Fern Court     8   UoW Shelia Scott     7   UoW Shelia Scott     1   UoW St Johns Campus Main     3   Fortis Himbleton     36   Heenans Ct     24   RGS School     26   West Mercia Police     27   Magistrates Court     28   Combined Court     37   ASDA     20   Whitehead College     35   Venture Bus Pk     34   Amdac	6
8   UoW Porters     7   UoW Shelia Scott     1   UoW St Johns Campus Main     3   Fortis Himbleton     36   Heenans Ct     24   RGS School     26   West Mercia Police     27   Magistrates Court     28   Combined Court     37   ASDA     20   Whitehead College     35   Venture Bus Pk     34   Amdac	9
7   UoW Sheila Scott     1   UoW St Johns Campus Main     3   Fortis Himbleton     36   Heenans Ct     24   RGSSchool     26   West Mercia Police     27   Magistrates Court     28   Combined Court     37   ASDA     20   Whitehead College     35   Venture Bus Pk     34   Amdac	4
7   UoW Sheila Scott     1   UoW St Johns Campus Main     3   Fortis Himbleton     36   Heenans Ct     24   RGSSchool     26   West Mercia Police     27   Magistrates Court     28   Combined Court     37   ASDA     20   Whitehead College     35   Venture Bus Pk     34   Amdac	8
3   Fortis Himbleton     36   Heenans Ct     24   RGS School     26   West Mercia Police     27   Magistrates Court     28   Combined Court     37   ASDA     20   Whitehead College     35   Venture Bus Pk     34   Amdac	7
36   Heenans Ct     24   RGS School     26   West Mercia Police     27   Magistrates Court     28   Combined Court     37   ASDA     20   Whitehead College     35   Venture Bus Pk     34   Amdac	1
24   RGS School     26   West Mercia Police     27   Magistrates Court     28   Combined Court     37   ASDA     20   Whitehead College     35   Venture Bus Pk     34   Amdac	3
26   West Mercia Police     27   Magistrates Court     28   Combined Court     37   ASDA     20   Whitehead College     35   Venture Bus Pk     34   Amdac	36
27   Magistrates Court     28   Combined Court     37   ASDA     20   Whitehead College     35   Venture Bus Pk     34   Amdac	24
27   Magistrates Court     28   Combined Court     37   ASDA     20   Whitehead College     35   Venture Bus Pk     34   Amdac	26
28 Combined Court 37 ASDA 20 Whitehead College 35 Venture Bus Pk 34 Amdac	
37   ASDA     20   Whitehead College     35   Venture Bus Pk     34   Amdac	
20   Whitehead College     35   Venture Bus Pk     34   Amdac	
35 Venture Bus Pk   34 Amdac	
34 Amdac	
21 Pitmaston School	

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Wychavon District Council

Project

#### Worcestershire Heat Mapping

**Drawing Title** 

PROPOSED UNIVERSITY AND CITY CENTRE DISTRICT HEAT NETWORK WORCESTER

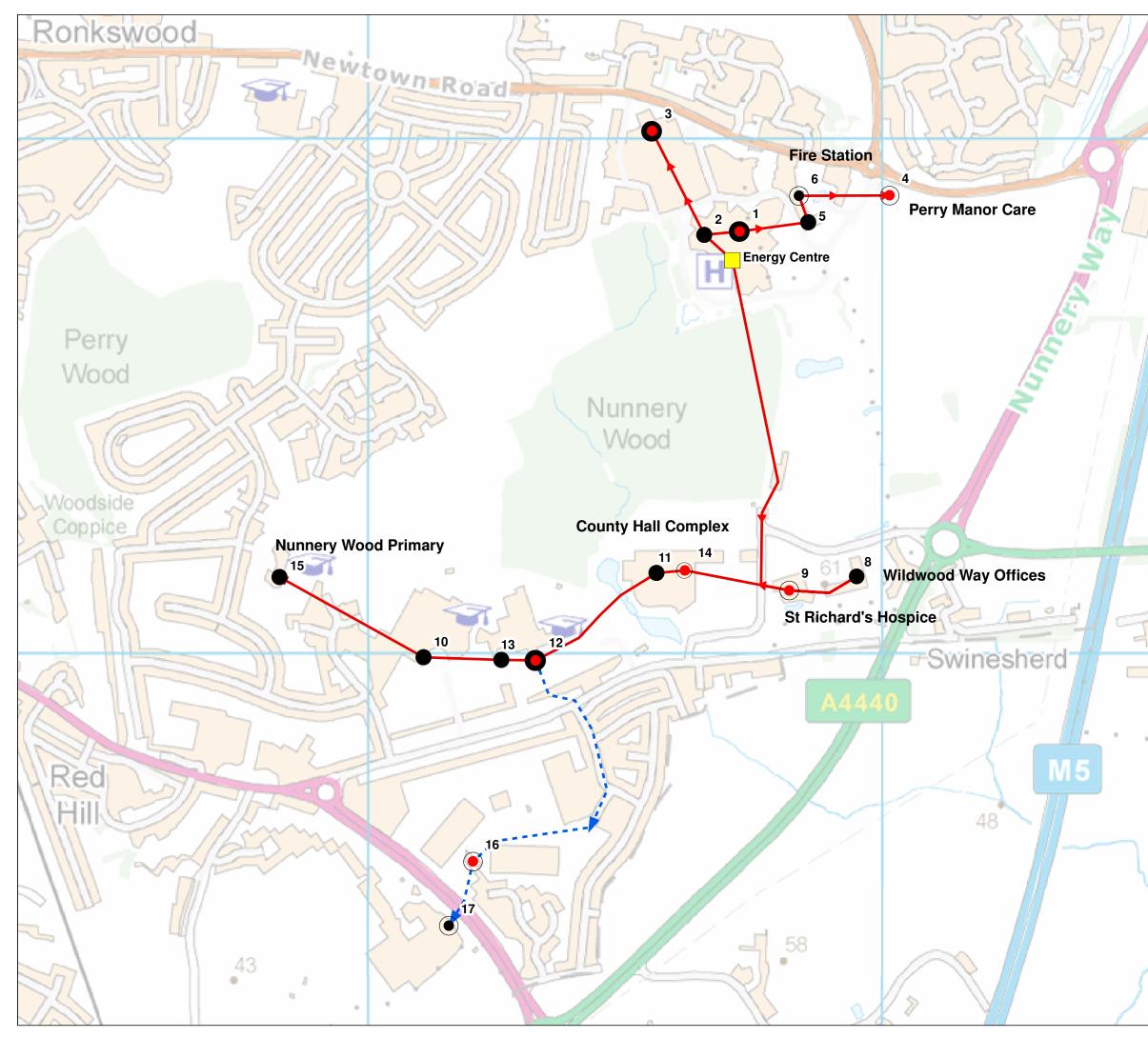
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# KEY

	Primary energy centre
	Medium / small site -
•	public or social ownership
	Large site - private
0	ownership
$\bigcirc$	Medium / small site -
<u> </u>	private ownership
•	Large site - public or social
•	ownership
	Phase 1
-	
	Phase 2

Possible Phase 2

Site	Short Nama
Identifier	Short Name
<b>Energy Centre</b>	Primary Energy Centre
1	Royal NHS MAIN
2	Royal NHS CHEC
3	Worcs Mental Health Trust
4	Perry Manor Care
5	Fire Station
6	Kings Court Bus Pk
8	Wildwood Way Offices
9	St Richards Hospice
10	School Nunnery High
11	County Hall Secondary
12	6th Form Main
13	6th Form Secondary
14	County Hall Complex
15	School Nunnery Primary
16	Whittington Rd Redevelopment
17	RNIB New College



A		J Chapman 09/09/2016		
Ver	Amendments	Originated by and date	Checked by and date	Approved by and date

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# building great relationships

Client Wychavon District Council

Project

Worcestershire Heat Mapping

Drawing Title PROPOSED SOUTHERN DISTRICT HEAT NETWORK, WORCESTER

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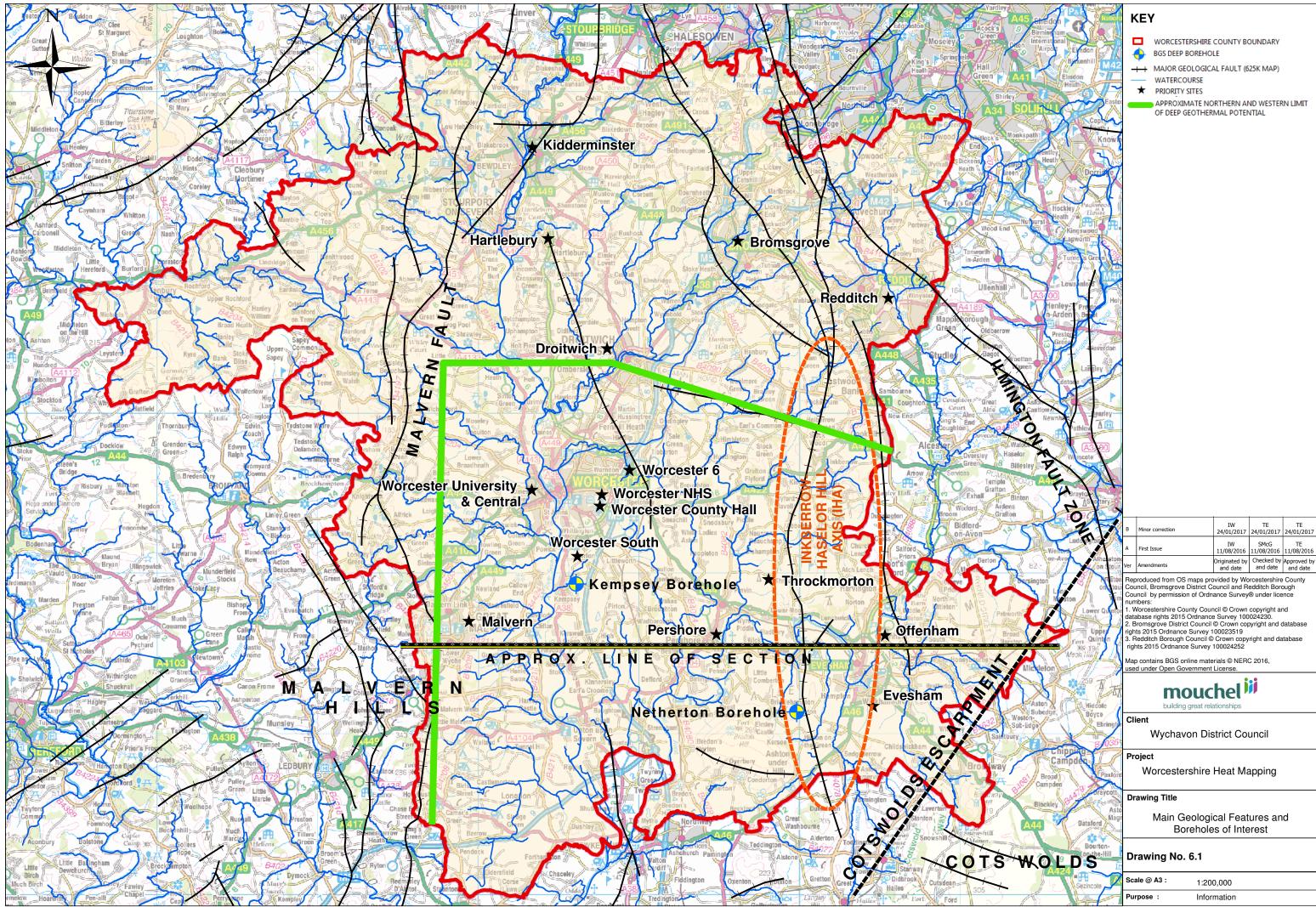
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Drawing No.

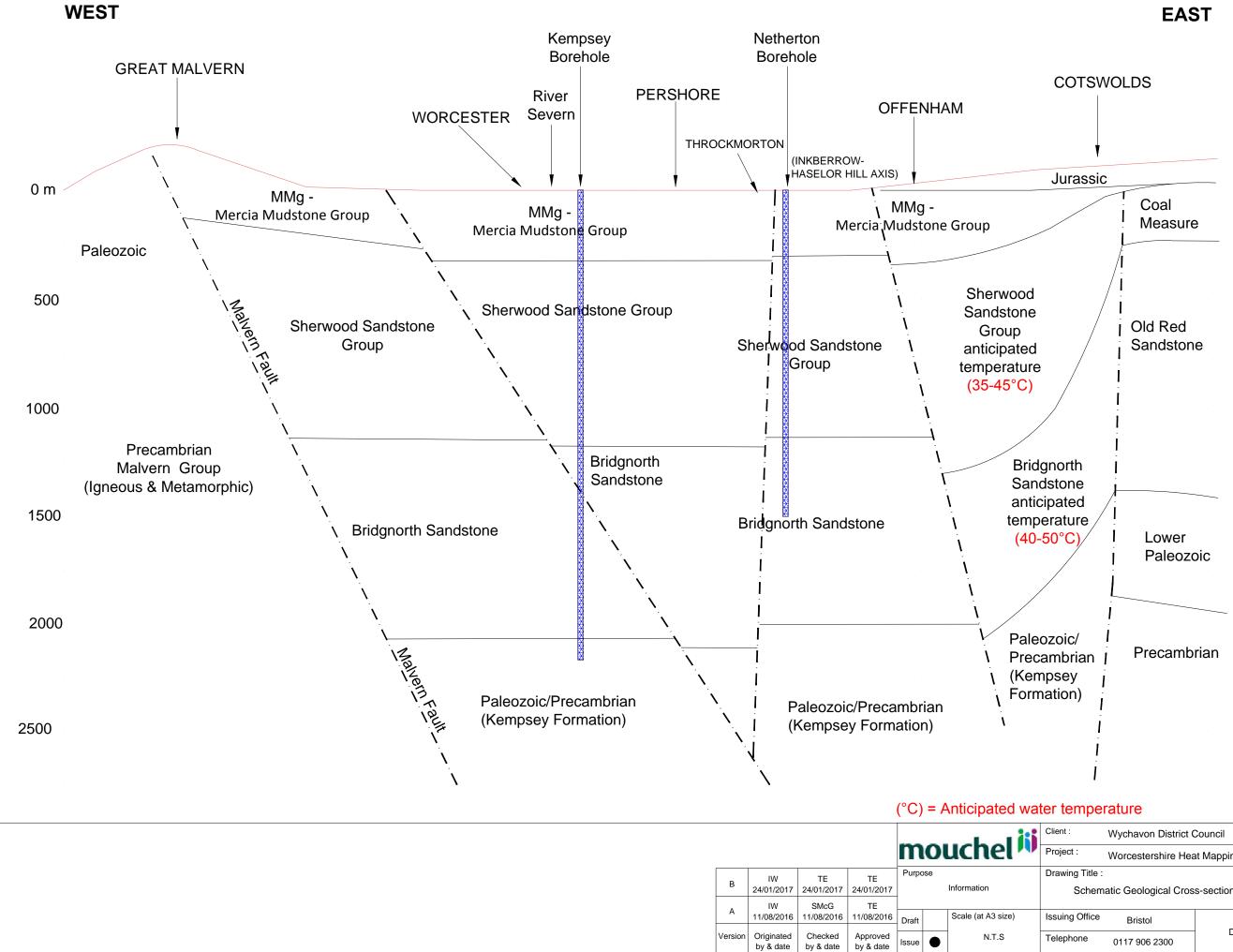
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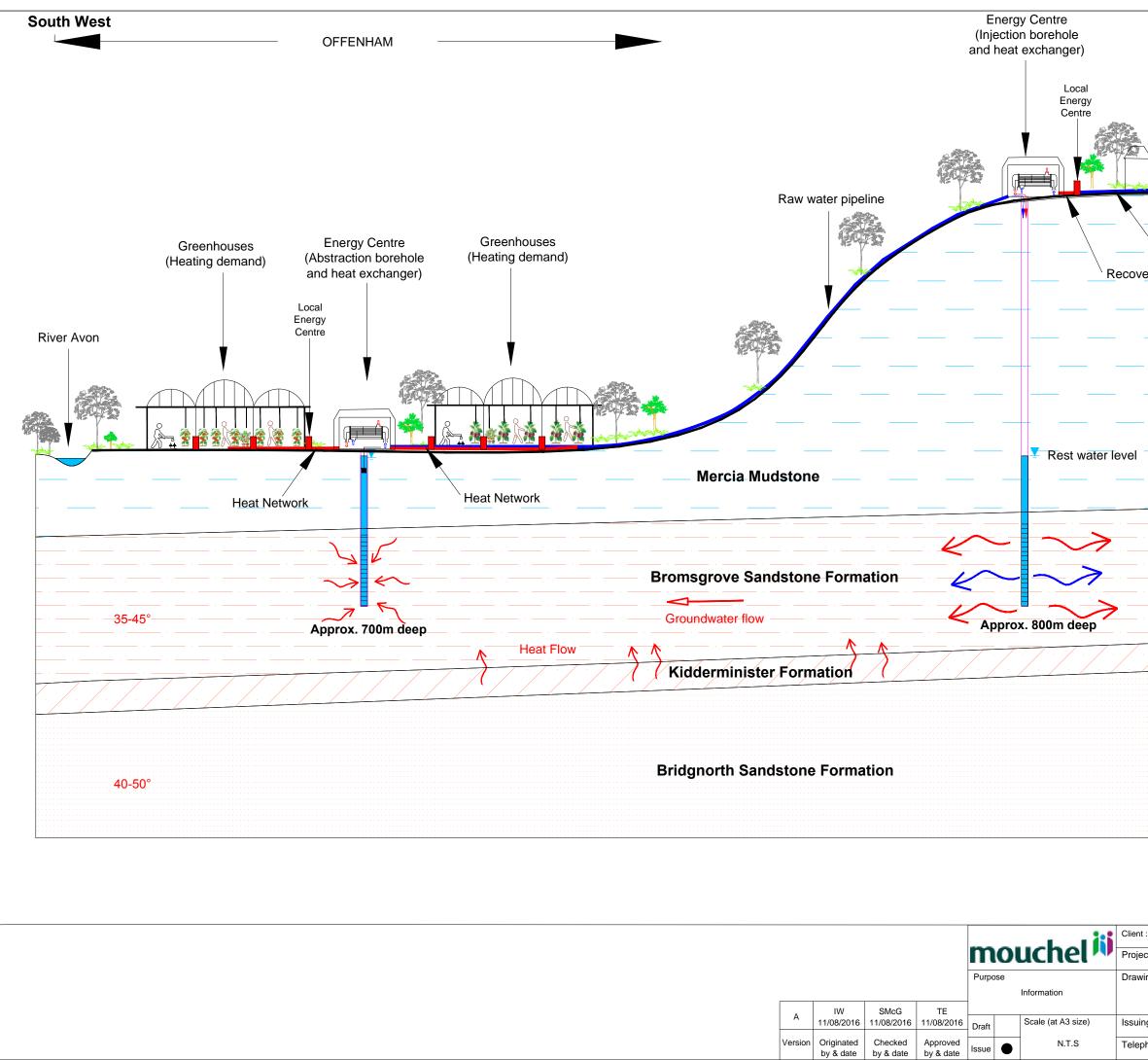


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**WORCESTER BASIN** WEST TO EAST SCHEMATIC CROSS SECTION



:	Wychavon District Council		
ct :	Worcestershire Heat Mapping and Energy Master Planning		
ing Title :			
Schematic Geological Cross-section Through Southern Worcestershire			
ng Office	Bristol		Version
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ng ride.		nal Scheme Concept- Schematic	
g Office	Bristol		Version
hone	0117 906 2300	Drawing No. 8.1	A

ValeFresco - Offenham (2,400,000 kWh/yr for greenhouse heating) (Greenhouses for tomato growing) (Heating provided by gas boiler)

Westland Nurseries, Ferry Lane (Unheated greenhouses only)

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Path: W:\1070145 Worcestershire heat mapping\09 Documents\GIS\ArcGIS\_maps\Final Reporting\Drawing 8.2 Offenham Heat Network Concept.mxd

Abstraction borehole Target Formation: Either Sherwood Sandstone (400-1,100 m bgl) or Bridgenorth Sandstone (1,300-2,100m bgl). Anticipated borehole depth: 700m (Sherwood) or 2km (Bridgenorth) Antipated water temperature: 40 °C (Sherwood), or 40-50 °C (Bridgenorth) Water quality: Brackish (Sherwood), possibly saline (Bridgenorth) Anticipated water level: artesian pressure or near surface

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Bannister Distribution and Logistics • 🏼 2,873,828 kWh/yr 🎽 (DECC Heat Map estimate) Relates to former mushroom tunnels which are no longer active. Do have some cooling demand still.

-

Farm adjacent to River Avon •

(DECC Heat Map estimate)

Injection borehole

Target Formation: Sherwood Sandstone Anticipated depth: 800m 15-20m available extra head compared to abstraction location due to higher ground surface elevation)

#### Kanes Foods Ltd

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(Various coolling systems + evaporative/ammonia glycol systems) 🛿 (Heating provided by steam gas boiles 🖡 4,630,000 kWh projected by DECC heatmap) (Electricity from national grid used for refrigeration. Numerous energy (Water treatment works also present on site.) Water is cooled following treatment)

> Evesham Vale Growers (Heat provided by CHP + 2,000,000 kWh / yr approx.) (Cooling - heating demand expected to be reduced significantly in coming years) 💼 (Tomato greenhouse and packaging facilities)

Westland Nurseries, Station Road (8,300,000 kWh/yr for heating greenhouses) (Heat currently provided by gas boilers.) Plan to replace with CHP by 2017) (Heat demand from September to May only)

Holt R L - Offenham (9,360,000 kWh/yr gas consumption) (CHP set to deliver 1.13 MW power and 1.2 MW of heat) (<10% of heat currently comes from gas boiler) (High CO2 demand in summer months)

Zenith Nurseries Ltd No current heating demand

iye, Earthstar Geo

#### KEY



A		IW 11/08/2016	SMcG 11/08/2016	TE 11/08/2016
Ver	Amendments	Originated by and date	Checked by and date	Approved by and date
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Client

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#### Wychavon District Council

Project

Worcestershire Heat Mapping

Drawing Title

OFFENHAM HEAT NETWORK CONCEPT

#### Drawing No. 8.2

Scale @ A3 :	1:14,000
Purpose :	Information

s, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP,

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