Excavating Engels: the archaeological investigations of workers' housing in Manchester and Salford, 2001 to 2017

Nevell, MD

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Excavating Engels: The Archaeological Investigations of Workers’ Housing in Manchester and Salford, 2001 to 2017

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Introduction

Manchester’s central role in industrialisation, that is the shift from a rural agrarian society to an urban-based manufacturing one, drew both praise and scorn in 19th century Britain. The descriptions of Manchester by Friedrich Engels, a member of a Prussian textile mercantile family working in the city in the 1840s, of the housing and living conditions within the city have become infamous. Writing in 1842-43 (though his observations were later published in 1845 in his book ‘The Condition of the Working Class in England’) Engels concluded that the “350,000 working people of Manchester and its environs live, almost all of them, in wretched, damp, filthy cottages, that the streets which surround them are usually in the most miserable and filthy condition, laid out without the slightest reference to ventilation, with reference solely to the profit secured by the contractor” (Engels 1845). His comments can be foreshadowed 50 years earlier by John Aikin writing in 1795; “It [Manchester] unfortunately vies with, or exceeds, the metropolis, in the closeness with which the poor are crowded in offensive, dark, damp, and incommodious habitations, a too fertile source of disease!” (Aikin 1795, 192).

Writing over 150 years later in 1963 the social historian Asa Briggs could describe Manchester as the ‘shock city’ of the Victorian period. This was due to the city’s central role in developing urban-based steam manufacturing, densely packed urban housing and free market economic theory.

From having no textile mills in 1780 Manchester became the largest mill town in the world, with 33 textile spinning mills in 1800, 86 working steam mills in 1831 and 108 working mills in 1850. Other industries such as engineering, iron and glass making also flourished in the mid-19th century with hundreds of factory sites recorded in 1850 (Nevell 2008). This phenomenal industrial rise was matched by its spectacular population growth in the first half of the 19th century; Manchester nearly doubled its size between 1801 and 1821 from 75,281 to 126,066 people, and then more than doubled its population by 1851, when there were 303,382 people within the new borough (Hartwell 2001, 17). This new population required huge amounts of housing and between 1773 and 1821 the number of dwellings in the city rose from 3,446 to 17,257 and by 1851 had reached nearly 50,000 (Kidd 2006, 38; Kidd & Wyke 2016, 29-30).

For most of the 20th century archaeology had little to contribute to the debate on Manchester’s role in industrialisation and urbanism. However, beginning in the 1980s archaeological studies of vernacular domestic buildings and the surviving textile factories began to provide a line of archaeological investigation that developed new perspectives on the ‘Shock City’ (Nevell 2008). At the end of the 1990s a conscious decision was made by the city’s planning archaeologists to actively record, during the redevelopment of central Manchester after the IRA bomb damage of 1996, this dwindling resource and to further expand our knowledge by targeting for excavation key city centre urban areas (Redhead 2011, 53-54). Since 2001 archaeological work ahead of redevelopment within the city of Manchester, and central Salford, has been targeting the excavation of workers’ housing from the 18th and 19th centuries. Over 30 sites have been looked at and the remains of several hundred houses excavated, or more
rarely, recorded as standing structures. Some of the worst areas of 19th century slum housing in Britain have been studied, including Angel Meadow in Ancoats, and the New Islington area of Salford.

Archaeology and Industrial Housing in Manchester

The archaeological study of housing in Britain goes back to the 1970s with Jennifer Tann’s study of fireproof workers’ housing in a factory colony in Staffordshire (Palmer & Orange 2016; Tann 1972). Such early research focused upon the surviving standing buildings and includes a significant series of articles on housing quality in the Lancashire factory colonies by Geoff Timmins (Timmins 1979; 2000; 2013), as well as vernacular building studies of industrial workers’ housing in West Yorkshire (Caffyn 1986; Dewhurst 1989), and handloom weavers’ dwellings in the Cotswolds, and workers’ housing in Essex (Palmer & Neaverson 2003; Crosby, Garwood & Corder-Birch 2008).

The excavation of urban, Industrial Period, workers’ housing was pioneered in several places in the late 20th century: in New York in the USA and Sydney in Australia for instance (Yamin 2001; Karskens 2001). In Britain the archaeological investigation of workers’ housing only became a significant method of investigation after 1990 when UK planning guidance required developers to fund archaeological work ahead of redevelopment. Even then it took the long economic boom of 1992 to 2008 to turn the excavation of workers’ housing from an exceptional occurrence to one that is now a standard part of archaeological urban planning conditions. From a few excavations in the late 1990s in parts of London such as the Spitalfields suburbs (Harward, Holder & Jeffries 2015), the 2000s saw major areas of industrial workers’ housing targeted archaeologically in industrial cities including Glasgow, Manchester, Sheffield and York (Connolly 2011, Nevell 2008 & 2011; Rimmer 2011; Symonds 2005).

The archaeological study of workers’ housing in the city of Manchester can be traced to the work of the Manchester Early Dwellings Research Group in the 1980s. This group grew out of a Workers’ Educational Association class on workers’ housing led by Jacqueline Roberts (Guasden 1988). Spurred by the realisation that significant parts of Manchester’s pre-1850 housing stock survived in the city, but was threatened even then by extensive redevelopment, a small group set out to record all the remaining pre-1850 workers’ housing in central Manchester and to preserve key examples. Between 1982 and 1993 the group recorded 38 blocks of housing ranging from workshop dwellings and terraced housing to back-to-backs and cellar dwellings. Much of this record, which focused on the Northern Quarter of the city, was through photographic recording although several structures were the subject of detailed archaeological building recording and historical research (Roberts 1983; 1985, 1993; Taylor & Holder 2008). The project was successful in raising awareness about the city’s early housing stock, and this research led directly to fresh protection for many pre-1850 dwellings either through listing or inclusion in Conservation Areas (Parkinson-Bailey 2000, 33-40). Further recording work of early dwellings was undertaken by English Heritage in the 1990s and by the Manchester Region Industrial Archaeology Society in the 2000s and subsequently through the archaeological planning process (Redhead 2011, 53-54).

However, the fact that more than two thirds of the sites recorded by MEDREG have subsequently been demolished highlights how vulnerable such small-scale dwellings are to redevelopment and the ravages of time. More importantly, the steady loss of such early
dwellings brought about the realisation that archaeological excavation offered a way forward in further exploring these sites.

Parallel to this are four important historical studies on workers’ housing in 19th century Manchester. The earliest is Rushton’s study of housing conditions in Ancoats (Rushton 1977). This looked at the historical evidence for over-crowding and sanitation in the new industrial suburb. It also looked at household incomes. Wilson charted the introduction of sanitation in Manchester between 1868 and 1910 (Wilson 1990). This study is important in explaining how domestic sanitation spread across the city but also looks at how local politics initially favoured new build regulation over improving sanitation to earlier properties. Hayton undertook a comparative study of 19th century cellar dwellings in Manchester and Salford (Hayton 1995). She looked at the way in which evidence collected by the public health inspectors in both cities over-emphasised the prevalence and poor conditions of cellar dwellings compared to other types of workers’ housing. Finally, Brumhead’s analysis of the clearance of workers’ housing for two new railway termini in the 1870s and 1890s: the construction of Central Station (opened in 1879) and the Great Northern Railway Warehouse (opened in 1896). The early 19th century housing affected, between Deansgate and St Peter’s Square, were amongst some of the worst in Manchester and the demolition was encouraged by the city as part of its slum-clearance strategy (Brumhead 2004). Whilst the owners of over 1600 over-crowded back-to-back, court and terrace houses in this area were compensated for their loss, the tenants had to find new premises unaided.

Archaeological Excavation 2001 to 2017

Though the first archaeological excavation of workers’ housing in Manchester was undertaken by Prof Barri Jones of Manchester University on Deansgate in 1972 this pioneering research was not followed by further digs until the early 21st century (Jones & Grealley 1974). Between 2001 and 2017 (Nevell 2017; Redhead 2011) more than 30 workers’ housing sites have been excavated within the historic 19th century mercantile and manufacturing city centre, and a further six on the Salford bank of the River Irwell, opposite Manchester Cathedral. Many of the areas studied archaeologically were the subject of detailed commentary by social reformers such as Friedrich Engels and Elizabeth Gaskell, or surveys by the local health inspection authorities. This has allowed comparison of the written with the archaeological record, which it turns out often proved to be at odds with each other (Nevell 2011 & 2014).

A number of research questions have been pursued by archaeologists excavating such sites in Britain. Amongst the most common are issues of: build quality; identity, movement and migration; overcrowding; and sanitation and disease. Furthermore, most of these topics overlap with the concerns of 19th century social commentators on Manchester from local health inspectors and local health boards to social campaigners such as Edwin Chadwick, Charles Dickens, Dr J P Kay and de Tocqueville in the 1830s and 1840s (Kidd & Wyke 2016; Roberts 1985, 48-50). Whilst archaeologists must always be wary of following other disciplines’ agendas (Johnson 1999), archaeological investigation of industrial period housing in Manchester is engaging with other forms of historical evidence in order to highlight the unique qualities that an archaeological approach brings to the study of these issues.

Build Quality

Manchester was one the places which social commentators highlighted as having the worst quality of housing. Dr J Ferriar writing in 1805 described the average worker’s dwelling in
Manchester as consisting of ‘two rooms, the first of which is used as a kitchen, and though frequently noxious by its dampness and closeness, is generally preferable to the back room. The latter has only one small window, which though on a level with the outer ground, is near the roof of the cellar’ (Miller, Wild & Gregory 2010, 25). Engels in 1844 noted that in Ancoats ‘in such a hole [referring to a one-roomed house] I found two beds, which with a staircase and chimney-place, exactly filled the room. Everywhere, before the doors, heaps of debris, refuse and offal’ (Engels 1845). As late as 1904, when The Citizens’ Association of Manchester commissioned a detailed map of housing quality in the city, there were still dozens of occupied back-to-back houses, and hundreds of properties without running water or dedicated toilets (by then condemned as slum dwellings) in Ancoats, Hulme and central Salford. The worst quality housing formed a ring nearly completely encircling the commercial core of Manchester (Marr 1904).

The control of building quality through local bye laws only came about with the creation of local health boards and later local councils in the mid-19th century. These new bodies used private Acts and local bye-laws to address housing problems in individual towns. Thus, in Manchester the Police Commissioners (established in 1792) and then the new Borough Council (established in 1838) were responsible for taking action to improve the draining and paving of streets. After 1792 the Commissioners introduced a series of bye-laws controlling street widening and improvement as well as building regulations that specified the requirement for and condition of party walls, joists, load bearing timbers and chimneys. A Nuisance Committee was setup in 1800 to deal with the dangers posed by projecting cellar steps and unfenced cellar holes, whilst in 1801 a party-wall surveyor was appointed. By 1811 the Commissioners were repairing soughs and drains from police funds and in 1830 a minimum street width of 24 feet (7.32m) was decreed (Roberts 1993, 21). The Police Commissioners came to act as the de facto council for the rapidly expanding industrial town, recognising that bad sanitation and poor building quality were threats to health and public order. The Manchester Police Act of 1844, sponsored by the new borough of Manchester, apart from establishing judicial courts in the industrial town had clauses allowing the new local authority to insist on the provision of privies for new houses and to ban the building of new back-to-back properties (Kidd & Wyke 2016, 315; Rushton 1977). Before the 1844 Manchester Police Act, local land owners might stipulate some restrictions in terms of house plot-size and road width but, as was common in urban centres outside London, control of the type and quality of building material, room size and the provision of utilities was rare. In 1853 a new local bye-law allowed the Borough to prevent the building and habitation of cellars, thus rendering illegal a complete class of dwelling. In the following decade the privately sponsored Manchester Waterworks and Improvement Act of 1867 was aimed at removing back-to-back houses from the city. Thus, it required landlords to renovate, recondition or change the use of existing back-to-backs. This was a very significant moment since, until 1867, all of these regulations applied to new-build properties, not the earlier housing stock, with the exception of the banning of cellar dwellings (Roberts 1983, 23; Wilson 1990).

Archaeology has been very adept at recovering the structural evidence for the build quality of the new urban industrial homes of 19th century Britain. Across Manchester and Salford this is reflected in the depth and quality of housing foundations and in the quality of the materials used. Build quality varied greatly, but often excavated evidence reveals the substantial nature of much of the housing of the late 18th and 19th centuries in the two cities. The excavation of late 18th century workshop dwellings and terraced housing in Ancoats, Angel Meadow and Castlefield testifies to this. Workshop dwellings typically had substantial half-basements (used as workshops) often with separate heating, lighting and stone-flagged floors as at Southern
Street in Castlefield (Nevell 2008, 144) and Angel Street in Angel Meadow (Miller & Wild 2015, 12-14). Late 18th century terraced houses with substantial brick foundations have also been excavated in Ancoats along Loom Street and in Salford along Chapel Street (Nevell 2008, 146-150). Later 19th century board housing in Ancoats also had substantial brick foundations (though no cellars) with running water, paved surfaces and individual back yards and outside toilet blocks (Nevell 2014).

Yet many urban excavations in Manchester and Salford have also revealed poorly-built housing, especially amongst the court, back-to-back and blind-back housing of the first half of the 19th century. One set of four blind-back houses in Salford, at the junction of Gravel Lane and Greengate, built around 1820, had brick foundations resting on the clay subsoil, not laid in a foundation trench, with internally the only evidence for a floor surface being a series of clay levels (Nevell 2008, 149-150). Though of two storeys there was no sign of a staircase suggesting that a wooden ladder might have been used. There was of course no sign of running water and no external privies close by. Other blind-backs could be better appointed. The eight examples excavated at Bury’s Court off Adelphi Street in Salford, also built in the early 1820s, had paved floors and staircases, for instance, although they had to share four ash or earth closets and none of the properties originally had running water (Gregory & Miller 2015, 45). Though few single-room dwellings have been excavated in Manchester the dwellings in the cellars of the lodging house on Factory Street in Angel Meadow illustrate how cramped these structures could be at 3m by 3.5m in area (Miller & Wild 2015, 41).

At Piccadilly Place off London Road in central Manchester some of the earliest back-to-backs in the city were excavated in 2009. Built around 1800 and extended in the period 1837-50 the earliest dwellings in Syer’s court had purpose-built cellar dwellings, with rooms of roughly 12ft by 15ft (4.27m x 4.57m). The internal partitions were one full brick-length deep and each had a flagged floor, fireplace, and separate stone stairways from the street above. The additional properties, built 30 years later, had internal partitions just one brick-width deep, and only communal stairway access to the street. None had running water or drains (Miller, Wild 7 Gregory 2010, 26-28).

In Ancoats various sets of back-to-backs were excavated along Loom Street in 2007. One set on the northern side of Jepson’s Court, built in the years 1807 to 1813, had paved and heated cellars but were dug into clay. The only drainage was a soakway in the court. This meant that they were prone to flooding when it rained (Nevell 2008, 156-7; Nevell 2014, 61-66). These properties appear never to have been upgraded with running water. The back-to-backs excavated on George Leigh Street, also in Ancoats, built by 1815 were a slight improvement in that they had no cellars, but they also still had no running water (Miller & Wild 2015, 43).

Finally, one aspect of the archaeological evidence that still remains under-researched in Manchester is the manufacture and quality of the bricks that were used in workers’ housing. Contemporary accounts and photographs, and now archaeological evidence, shows these to be the favoured building material for housing from the late 18th century onwards. The stamping of makers’ marks into bricks is a later 19th century trend, along with new forms of mass production and distribution from regional brick making centres (Palmer, Nevell & Sissons 2012). This gave an increasing regularity and conformity to brick types. However, all of the sites discussed in this paper were established before these advances and during the late 18th and early 19th centuries most of Manchester’s bricks were made locally, on the fringes of the expanding industrial town. Documentary sources suggest that the bricks were manufactured in clamp kilns using local clay. This is supported by the excavated evidence, which has produced
handmade bricks with evidence for irregular firing (either under-fired or burnt) typical of clamp kiln sites from sites across the city, such as Angel Meadows and Loom Street in Ancoats, as well as Chapel Street in Salford. Sometimes, straw was used to temper the bricks during firing, leaving a more porous product that was probably less weather proof. So far only one brick clamp kiln has been excavated in Manchester, off Oxford Road in 2016. This site was covered with housing in the mid-19th century (pers. comm. Norman Redhead, chief planning archaeologist for Greater Manchester). Another feature of early domestic brick construction was the move from white lime mortar to, in the mid-19th century, lime mortar mixed with ashes and cinder. As yet it is unclear how this affected build quality in houses, but it is a distinctive feature of house building in the city from at least the 1840s onwards.

**Overcrowding**

Archaeologically, the evidence for overcrowding in the new industrial towns and cities of the late 18th and 19th centuries can be seen in several ways through the archaeology of the worker’s house. The first of these is the subdivision of existing properties by the addition of internal partition walls and external access ways (new doorways, corridors and alleys). The second way overcrowding can be tracked archaeologically is through backyard infilling leading to court areas accessed by narrow passageways from the mainstreets. Finally, the construction of purpose-built back-to-back and cellar dwellings represented an attempt at high density housing by local private builders. Subdivision, backyard infilling and back-to-back and cellar dwellings are recorded in most 19th century industrial urban sites, with excavated examples ranging from Birmingham and London, to Salford and York (Brumhead 2004; Connelly 2011; Dwyer 2011; Gregory & Miller 2015; Hayton 1995).

Archaeological evidence for subdivision comes from a number of areas of central Manchester. In 2005 the Channel 4 archaeology television programme Time Team excavated a single vernacular workshop on the southern side of Angel Street. This was built in the 1770s as part of a row of four-storey properties, with cellar and attic workshops. Part of the front room and the whole of a rear room were excavated, giving a floor area of roughly 5.4m by 4.3m. A halfpenny was found encased in mortar from the cellar backfill with the date 1775 inscribed, suggested that these properties were built around this date. The front room had a flagstone floor, which might have been later, but the rear room had an original handmade brick floor and both spaces were originally heated. Bancks’ directory of 1800 records a Michael Smith, shoemaker, at No. 39 Angel Street, which is the likely address of the excavated property (Nevell 2008, 143-144). A single-thick brick wall was later inserted across the cellar to form a front and back room space, whilst a stairwell from the pavement into the cellar was inserted. This is visible on the 1850 sixty inch Ordnance Survey map of the area. The 1851 census shows that on average three families were living in each of the former workshop dwellings along Angel Street. Other 18th century properties excavated in the Ancoats district of Manchester also show evidence for such subdivision in the early 19th century (Nevell 2008, 144-50).

A surviving range of three workshop dwellings on Nos 1-5 Milk Street (later Kelvin Street) were built by Richard and Mary Manchester in 1772-73 and let by that family until sold by them in 1790s (Nevell 2003). Directory evidence indicates that the family were textile traders (Nevell 2008, 142). The layout of the three Milk Street properties shows they were built as a single working unit by the Manchester family. Internally, the ground and first floors of each property acted as the domestic areas, each floor being heated and perhaps divided by a wooden screen and providing a total living area of 50m². Below was a cellar accessed only from the individual property, but each third-floor attic room was connected to each other providing
three, linked, workspaces with a taking-in door at the rear of the northern-most attic room. On
the ground floor a covered passageway between the southern and middle properties led to the
rear enclosed courtyard and the area below the taking-in door. Archaeological evidence
indicates that in the mid-19th century the doorways between the loft workshops were blocked
and new external stairwells added to provide separate road access to the cellars. This allowed
at least one family per floor of the building, so that in the 1841 Census as many as 20 people
were living in a single property which once accommodated just one family. Thus, a mid-18th-
century property for one family was turned into a tenement for four or more families, with no
extra provision of privies in the rear yard area and no running water (Nevell 2011).

Far more common than subdivision was the backyard or courtyard infilling of urban properties.
This is a frequent urban indicator of overcrowding and was noted by 19th century commentators
in many industrial cities including Chester, Glasgow, Manchester and London (Matthews
1999; Harward, Holder & Jeffries 2015; Nevell 2008). This process often created court areas
accessed by narrow alleys. One extreme example comes from the Angel Meadow-Shudehill
area of Manchester. This was a zone of mid- to late 18th century housing that saw backyard and
court housing development in the first half of the 19th century. The area was vividly described
by Engels in 1844: ‘Here one is in an almost undisguised working-men’s quarter, for even the
shops and beer houses hardly take the trouble to exhibit a trifling degree of cleanliness. But all
this is nothing in comparison with the courts and lanes which lie behind, to which access can
be gained only through covered passages’ (Engels 1845). The large-scale 60 Inch Ordnance
Survey map of the Angel Meadow area of Manchester records in apparent detail the alleyways
and courts that were created by this urban infill process. However, excavation has demonstrated
that the actual urban pattern was far more intricate than recorded by the Ordnance Survey
surveyors (Miller & Wild 2015). Unrecorded alleyways and backyard cottages were excavated
in 2009 between Blakeley Street and Factory Street in an area that was known as St Michael’s
Square. A similar pattern of previously unrecorded backyard dwellings was seen when an area
between Blakeley Street and Back Blakeley Street was excavated (Miller & Wild 2015, 17-
19).

The New Cross area of Chapel Street, in Salford, provides a further case study of infill housing
leading to overcrowding. Engels commented that ‘The working men’s dwellings between
Oldfield Road and Cross Lane, where a mass of courts and alleys are to be found in the worst
possible state, vie with the dwellings of the Old Town in filth and overcrowding’ (Engels 1845,
100). In 2012 nine houses were excavated fronting Chapel Street and George Street, seven of
which were built around 1807 and two of which were added as infill by 1831. Houses 1 to 5
represented Nos 333 to 341 Chapel Street, which trade directories confirmed as commercial
premises with dwellings above. The infilling included the addition of earth closets in the small
yard to the rear of No. 15 Park Street, and the two infill dwellings to the rear of No 335 Chapel
Street and George Street. Both infill houses were accessed via a short alley from George Street,
south of No. 333 Chapel Street. There was also alleyway access to House 2 from the northern
side of Park Street.

The construction of purpose-built back-to-back and cellar dwellings represented an attempt to
provide high density housing at a time of high housing demand caused by inward migration.
In Manchester and Salford such housing was a common feature of the expanding urban
landscape between 1810 and 1840, the era of the fastest population expansion in both cities,
although examples are known from outside this date range.
One of the best excavated examples of purpose-built court housing was excavated in 2012 between Park Street and Barrow Street, south of the Chapel Street site discussed above. Ten structures were identified and all were built as a single phase between 1821 and 1824. These were part of a block of sixteen back-to-back dwellings which fronted Barrow Street and which also had cellar dwellings accessed from Barrow Street. Houses 6 to 10 represented No. 1 to No. 5 Fletchers Court. Houses 11 to 14 represented No. 6 to No. 12 Park Street. Houses 6 to 10 were the northern half of the back-to-backs and were only accessible from Fletchers Court, an area less than 3m wide and roughly 30m long. Two passages from Park Street to the north (roughly 3m wide) and Barrow Street to south (just 1m wide) provided access to this court. The average floor size of the back-to-backs was roughly 4m by 3.5m. Back-to-back properties were a common feature of many other urban excavations across central Manchester and although their construction was banned in both Manchester and Salford by 1850 many houses, including the examples at Fletchers Court, were still occupied as late as 1905.

One model of the way in which overcrowded, slum, housing developed during this period is represented by the upstanding remains of Nos 69–77 Lever Street in the Northern Quarter of Manchester. These began as a speculative development of five-, four-storey, workshop-dwellings built progressively over a decade by a plasterer, William Bradley (Taylor and Holder 2008, 24). The first phase spanned the period 1780–88 when a row of five houses was built. These had attic-floor workshops but the basements, ground and first floors appear to have been divided for tenement housing in all but one case. Each house had its own rear yard with an outside privy. The second phase saw two-storeyed extensions, lit separately, built into the rear yard areas by around 1790 and a third phase by 1794 saw one-up-one-down cottages added to the rear of these in turn, facing Bradley Street. By 1831 a five bay, three-storey, warehouse was built across two backyards. Access to the phase two and phase three housing was only from the Bradley Street side of the properties (Taylor and Holder 2008, 25). These dwellings encapsulate many of the features of later slum housing; small domestic unit size, poor lighting, restricted access through narrow alleyways and a lack of sanitation (Nevell 2011).

Sanitation and disease

Excavation of workers’ housing can reveal extensive evidence for the state of sanitation in these properties, and by implication the quality of living conditions and the likelihood of disease. This material complements the evidence for disease from the increasing database of urban post-medieval and industrial-period cemeteries now being excavated through developer-funding. Such work in turn builds upon projects like the excavation of c. 1000 burials from the period 1729 to 1852 at Christ Church, Spitalfields suburbs, London, in the late 1980s (Reeve and Adams 1993).

Excavations of industrial workers’ housing in Chester, Glasgow, London, Manchester and Sheffield have indicated that the most significant features in understanding the role of urban sanitation in the 19th and early 20th century are the presence (or absence) and form of drains, water pipes, and toilets.

Before the first Public Health Act of 1848 the regulation of domestic urban structures focused upon building materials and form rather than sanitation. In London wells and soakways were common during the 18th and early 19th centuries whilst ‘proper dry rubbish’ (containing potentially useful pottery assemblages similar to the clearance assemblages seen in North America and Australia) was often used to level up ground as the city expanded in the 19th century (Jeffries et al 2009, 332-335). The poorest quality housing in Manchester, Sheffield
and York (back-to-backs, blind-backs and court housing) had no running water, localised soak-away drains and shared external earth-closet toilets. This is a frequent theme on excavated workers’ housing sites in the centre of Manchester from Ancoats and Angel Meadow, to Castlefield and Hardman Street (Nevell 2008, 146-159; Miller & Gregory 2010; Miller & Wild 2015; Rimmer 2011; Rushton 1977; Wilson 1990). The latter site had, around 1800, cellar dwellings adjacent to a felt hat works that was using soakway drains which in turn was adjacent to a soda works with its own well (Nevell 2008, 70-71). This lack of hygiene controls extended to county and market towns such as Altrincham, Cambridge, Dorchester and Oxford with a similar poor outcome in terms of disease levels and health (Cessford 2009; Nevell 1997; Trinder 2013, 487-488).

The same archaeological work also reveals extensive evidence for domestic sanitation improvement from the mid-19th century onwards. This could take three forms. Firstly, the upgrading of a property’s utilities with running water being brought into to one room (the kitchen or scullery), and the addition in the backyard of a dedicated outside earth closet or flushing toilet. Excavations on Loom Street in Ancoats, in Hulme, and Chapel Street in Salford all show this kind of adaptation during the second half of the 19th century (Connolly 2011; Gregory & Miller 2015; Matthews 1999; Miller and Wild 2015).

Secondly, as building regulations through local health boards became more common often back-to-back housing would be converted either into a single terrace of houses through the demolition of partition walls or put to non-domestic use. This process can be seen at George Leigh Street in Ancoats. Here the central row of houses was demolished in the 1890s and replaced with a wide alley, beneath which was a drain, whilst the remaining two rows of back-to-backs were converted into through houses with individual yards and rear privies (Miller & Wild 2015, 43). In other parts of Ancoats and Angel Meadow such housing was converted into workshops or warehousing (Nevell 2008, 159-165).

Thirdly, there was the demolition of slum housing, sometimes to be replaced with bye-law terraced housing or with purpose-built council housing as with the 1890s Victoria Tenements and terraces on Sanitary (now Anita) Street in Ancoats (Nevell 2014). Complete clearance was also a common approach. This happened in Manchester with the building of new railway terminuses at Central Station, Exchange Station and the Great Northern Warehouse. More common was the clearance of working class housing ahead of the construction of urban railway lines from the mid-1830s through the industrialised towns. This has been recorded along the path of the Eastern Counties Railway in Shoreditch, London, (Dwyer 2011, 15-19) and along the Oxford Road line lining the Castlefield and Piccadilly stations in Manchester and beneath Exchange Station in Salford.

One striking feature of the archaeological case studies of industrial urban housing from around Britain is that older housing, those properties built before the introduction of local bye-laws, took a long time to be upgraded, or in many cases were not improved at all before eventual demolition (Matthews 1999; Walker & Beaudry 2011). A study of housing in the northern half of Ancoats provides a case-study for the way in which archaeology can show how the introduction of bye-laws and regulations could take decades to affect existing housing (Nevell 2014).

In 1889 Dr John Thresh presented a paper to the Manchester and Salford Sanitary Association, in which he examined the reasons for the continued high mortality in No. 1 District in Ancoats. This was a 36 acre area between Great Ancoats Street, Oldham Road, Union Street and German
Street. Thresh reported that the majority of houses in this district (over 800) had been built before 1830, some even before 1780; about 60 had been built between 1830 and 1850, but none after that last date. Most were two-storey, but there were also several three-storey houses, with a workshop in the garret. Back-to-backs accounted for about a third of the dwellings in the district. Many houses had cellars described as being used as workshops or for storage (Roberts 1993, 19; Rushton 1977). In 1904 T R Marr in Housing Conditions in Manchester and Salford reported the results of his own inspection of nearly 600 dwellings in 12.7 acres of No. 1 District. Almost half the dwellings were four-roomed (ie two-up two-down), whilst a third were still two-roomed, although these were gradually disappearing under pressure from Manchester's Sanitary Committee. (Roberts 1993, 20). There were even three sets of back-to-backs still occupied in 1904 (Nevell 2014, 55).

Households, Clearance Groups and Mobility

A more intimate approach to the investigation of the everyday lives of the inhabitants of the new industrial cities is through their rubbish, chiefly but not exclusively in the form of ceramic evidence. One particular methodology, that of studying households through clearance groups, only started to be used significantly in British Post-Medieval and Industrial Archaeology after the turn of the millennium. These studies aim to reconstruct individual household histories by combining tightly defined groups of objects, often from rubbish dumps, pits or back-filled latrines and wells, with the documented occupants of the associated property. Developed in Australia and North America their use is still rare in the UK and some of the best published British examples are, ironically, from small rural communities (Brennan 2015; Cassella 2009; Cessford 2009; Harward, Holder & Jeffries 2015). There are, nevertheless, several published urban studies from sites in London at Limehouse, Shoreditch, the Spitalfields suburbs and Sydenham (Dwyer 2011; Harward, Holder & Jeffries 2015; Jeffries et al 2009). Clearance groups have also been analysed and published from Hoyle Street in Sheffield (Powel 2014) and the Grand Arcade in central Cambridge (Cessford 2009).

In Manchester two case studies from Ancoats highlight the advantages and problems in dealing with such urban clearance groups from workers’ housing; firstly, the excavation of back-to-court housing off Jersey Street; and secondly the excavation of 46 houses along Loom Street.

At Jersey Street eight dwellings from a set of ten back-to-court built forming Hall’s Court were excavated in 2011 (Cattell & Nevell 2011). These dwellings were built in a single phase between 1794 and 1800, making them amongst the earliest known such building types in Manchester. The buildings were finally demolished in 1970, further enhancing their importance within Ancoats, as this court housing spans almost the full history of the industrial suburb (Nevell 2014, 54-56). The houses are shown in detail on Banck’s map of Manchester from 1830. A passageway ran from the eastern side of Jersey Street giving access to the southern row of five back-to-backs. The other side of the passageway was occupied by a school. Hall’s Court comprised a block of ten, two-storey, back-to-back properties forming Nos 1 to 7 Hall’s Court to the south, Nos. 4 and 6 Jersey Street to the west, and Nos. 2 to 8 Pickford Street to the north. Friedrich Engels in his commentary on Ancoats noted that the construction of the workers’ houses in the area around Jersey Street was ‘...on closer examination...evident that the walls of these cottages are as thin as it is possible to make them. The outer walls, those of the cellar, which bear the weight of the ground-floor and roof, are one whole brick thick at most...’ (Engels 1845). The properties forming Hall’s Court were not cellared, nor were outer walls of the house foundations just a single brick thick. These properties were, then, somewhat superior to those elsewhere on Jersey Street.
After minor alterations in the mid-19th century, during the 1880s (identified in the excavations as Phase 3) the buildings at Hall’s Court were substantially redeveloped. Goad’s Insurance Map of Manchester from 1888 shows that Nos 4 and 6 Jersey Street were extended by knocking through into Nos. 1 and 3 Hall’s Court and into No. 2 Pickford Street to create two larger commercial premises which functioned as a hairdressers and general provisions store. Number 5 Hall’s Court appeared to have been demolished and replaced by a single storey out building and yard. No. 7 Hall’s Court also appears to have been demolished and in its place was a single-storey, rear, extension to No. 8 Pickford Street. No. 4 Pickford Street was demolished and replaced by a single-storey structure with a front yard possibly serving as an out building for the expanded No. 6 Jersey Street, whilst Nos. 6 and 8 Pickford Street were knocked through to create one larger dwelling.

Documentary and cartographic sources from the 19th century confirmed Nos. 4 and 6 Jersey Street functioned as commercial premises but had living accommodation on the upper floors. In contrast Nos. 1 to 7 Hall’s Court and Nos. 2 to 10 Pickford Street were all private dwellings and census returns and trade directories from the period 1797 to 1881 have established that these properties were occupied by local mill workers (cotton pcers and weavers, almost all in Hall’s Court in the period 1851-81) and artisans and trades people (barbers, boatman, chair maker, chair maker, coffee mill maker, dress maker, glaziers, fishmonger, greengrocer, hairdresser, joiner’s assistant, lawyer, plaster’s labourer, plumbers, provisions dealer, shoemaker, sugar boiler, warehouse worker, and a washer woman). One of the reasons for so many trades was the regular turnover of tenants in Hall’s Court and along Pickford Street. Nos 4 and 6 Jersey Street saw longer term tenants, such as James Hardman, hairdresser (1879 to 1920), at No 4. The Census Returns from 1891 and 1901 indicated that Hall’s Court had ceased to be used as dwellings and were uninhabited. 20th century Census Returns, rate books and trade directories from the period 1901 to 1961 indicate that Nos 4 and 6 Jersey Street, whilst in use as commercial dwellings, continued to have dwellings in the upper storeys (Phase 4).

The excavations produced a closely stratified group of pottery found in drainage and levelling layers associated with three of the main phases of the buildings. Most of the artefacts were derived from primary and secondary contexts, dating to the 19th century and early 20th century. A small proportion (some black-glazed finewares and some of the cream wares) were dateable to the late 18th /early 19th century when the houses were built. The single largest category of objects was pottery, 81 sherds, mainly from three contexts: two dumping levels and a make-up levelling layer all associated with Phases 2 and 3 of the complex (broadly mid- to late 19th century). This ceramic material formed 17 black-gazed earthen ware vessels, nine cream ware vessels, five brown stoneware vessels, one dark-glazed fineware vessel and one unglazed earthen ware vessel. These were mostly bowls and jars, although there were at least one cream ware plate and one cream ware jug. Of particular note was a pair of pince nez, excavated from a Phase 2 deposit (early to mid-19th century) in No 6 Pickford Street, occupied by the Chapman and Eagle families in the mid-19th century. No. 4 Jersey Street, occupied by the Hardman family from the 1870s into the early 20th century, produced a clearance group (from the Phase 2 levelling context 27) that might be associated with the Hardman’s. This included utilitarian earthenwares used in the kitchen or dairy, stoneware vessels used in the pantry or cellar for cold storage, and fine porcelains and whitewares used at the table. The ceramic assemblage from Jersey Street provides an invaluable insight into the 19th century domestic repertoire from working class dwellings at the heart of the industrial core of 19th century Manchester. Its importance lies in the social history it records, through the material possessions of the residents.
The second case study comes from the excavation of a disparate group of workers’ housing along Loom Street, to the north-east of Hall’s Court. Seven area excavations in a block of land either side of Loom Street, bounded by George Leigh, Bengal, Sherratt and Blossom Streets (Areas A to G) exposed the complete or partial floor plans of 46 dwellings (Gregory 2007). This represents one of the largest archaeological investigations of late 18th-, 19th- and early 20th-century workers’ housing within the city. This work also demonstrated the problems of dealing with fragmentary artefact evidence from an area with both a highly mobile population and extensive later rebuilding.

The excavations at Loom Street produced 1024 finds, representing 768 individual items. Of these the ceramic assemblage amounted to 779 individual stratified fragments of pottery, representing a minimum estimated number of 527 pottery vessels, weighing 23.664 kg. The ceramic material falls into two broad-groups according to period; post-medieval (pre-1800) pottery and industrially produced ceramics of the 19th and early 20th centuries. The ceramic assemblage can be sub-divided further into fine tablewares and utilitarian coarsewares. Only a small percentage of the assemblage could be directly associated with the structural remains of late 18th and 19th century worker’s housing. Most of the artefacts were derived from secondary and tertiary contexts associated with later demolition and infilling episodes and dated to the later 19th and early 20th centuries. How then to interpret such a fragmentary assemblage?

An overtly ‘ethnographic’ approach to studying 19th-century households and urban communities, that is one with a focus on neighbourhoods by attempting to combine excavated evidence with building studies and the broad swathe of contemporary documentary data in order to provide a better understanding of the context (Mayne & Lawrence 1999; Mayne & Murray 2001), would appear to be one way forward. Jeffries and Owens have suggested that such an approach would be helpful in tackling a particular problem in British industrial urban archaeological studies; the identification of migrant and shifting communities in poor urban districts through their material remains (Owens & Jeffries 2016). Traditionally, the recovery of such identities through their objects has been difficult in this context. This is usually ascribed to the fragmentary nature of much of the material remains excavated, the paucity of available clearance groups, and some of the urban cleansing strategies adopted by the new industrial city authorities the consequences of which are thought to have removed most of the available material culture in many cities (Nevell 2008; Owens & Jeffries 2016; Symonds 2005). A poor area such as Ancoats had just such a highly mobile population with a history of later house clearances.

Jeffries and Owens suggested (Jeffries et al 2009; Owens & Jeffries 2016) that by putting the concept of the mobility of people and things at the heart of a study, and drawing on secure contexts such as privy or pit groups, it should be possible to combine historical data and groups of assemblages to suggest new insights into the material lives of highly mobile communities. They identified three types of mobility relevant to an area such as Ancoats: international, local and micro.

There were no distinctive items that might reflect the international nature of the migration into Ancoats (Irish, Italian, eastern European) during the 19th century. This in itself is suggestive of the way in which the mobile populations within Ancoats perhaps did not carry with them artefacts linking themselves with their past. The Loom Street assemblage, both fineware and coarseware types of ceramic, show a remarkable restricted range of forms and decorative treatment, with most ceramic products being manufactured in Manchester and Staffordshire, though a few stoneware bottles were manufactured in Bristol and Glasgow. There was a great
degree of repetition of styles within the ceramic groups recovered. This could be the result of
demolition spreads of material containing fragments from the same vessel (as was seen in Area
C House C2 and Area D House D1) or because the domestic ceramic repertoires of the 19th-
century inhabitants were utilising standard contemporary items which were easily accessible
and affordable. The overall emphasis in the assemblage on fine wares as opposed to
course wares suggested that previously utilitarian products, such as brown stoneware and dark-
glazed course wares were being replaced by cheaper whitewares, such as polychrome-banded
factory-produced slipwares, used in the pantry, dairy or kitchen for cold storage.

In terms of local migration the existence of jumbled fragments of mis-matched pottery were
noted in just a few of the houses along Loom Street. This may reflect the local movement of
transient individuals and families where some items are abandoned whilst others are taken to
the new home. Notable small groupings came from Dwellings in Areas D and G which
produced two fragments of Black Basalt Ware. Jepson’s Court (Area C) produced 39
fragments, including 29 sherds that represented fragments of earthenware, stoneware and
whiteware bottles, jars, jugs, and saucers. Area D 1, House 1, also produced fragmentary
ceramic remains from a drain: representing a cup and saucer.

Finally, the Ancoats material provides evidence for the daily routines of household life,
particularly around cleaning and food preparation. This included objects such as a flat iron,
medicine jars and a whetstone. Another strand of object was associated with leisure activities,
particularly drinking (beer bottles from Houses E3 and E5) and playing (gaming balls and
marbles). These objects would have been moved around individual properties hundreds of
times before ending their lives in one of the demolition layers.

Conclusion

The study of surviving industrial workers’ housing is well developed in Britain, though rooted
in architectural approaches or dominated by studies of particular industrial housing types, such
as the workshop dwelling. Furthermore, the survival of exceptional landscapes of workers’
housing, as at the factory colonies of Cromford, New Lanark and Saltaire, can give a misleading
impression as to the character and quality of Industrial Period urban workers’ housing. Detailed
studies through archaeological building recording and excavation have only developed since
the introduction in 1990 of widespread archaeological planning conditions. This has coincided
with largescale urban redevelopment that has forced British archaeologists to confront the
evidence for the domestic side of the new industrial towns and cities of the 18th and 19th
centuries. Manchester is a type-case for this kind of approach.

The lack of survival of key types of industrial housing in Manchester the cellar dwelling and
the back-to-back house, has meant that until recently any study of the city’s 19th century house
has begun with the contemporary accounts of this ‘hell upon earth’ chief amongst them
Friedrich Engels. Occasionally it has been possible to add as colour a few surviving examples,
although by their very nature the existence of such industrial workers’ housing in the early 21st
century is exceptional and the examples either atypical or heavily altered, often both. Certain
types of industrial housing in Manchester have gone or are now very rare survivals, such as
back-to-backs and cellar dwellings. This is due to concerted campaigns of clearance and
conversion since the mid-19th century. Thus, excavation is already the major means by which
this industrial urban housing type is recovered and understood within the broader context of
British industrialisation. Within Manchester archaeological excavation now provides another
source of evidence to add to the scant survival and the Georgian and Victorian commentaries.
Comparing the archaeological recorded with the written, especially the work of the contemporary social campaigners, highlights the selective nature of the evidence Engels and others used in their arguments. This is especially noticeable in any discussion of build quality. The archaeological evidence in key areas such as Ancoats, Angel Meadow and Chapel Street demonstrates that not all early 19th century industrial urban housing was poorly built. Yet it also demonstrates the norm of wells, the lack of running water and ubiquity poor drainage in this period. Archaeological evidence also provides many case studies of the way in which good quality housing could be divided and converted into tenements as population pressure increased in the second quarter of the 19th century. Engels in particular talks about overcrowding extensively and the archaeology has so far been unanimous in recording evidence for subdivision and backyard infilling on housing plots before 1850 across Manchester. Local health board officials often worried about the threat of disease outbreaks in the 1830s, 1840s and 1850s and the archaeological data records how slowly sanitation improvements were, amongst the existing housing stock in the second half of the 19th century. Yet the archaeological record also preserves evidence for the house clearance and improvement campaigns in new builds after 1850. Even the shifting, mobile nature of Manchester’s migrant population can be captured, at least in part from the archaeological record through clearance assemblages.

Where does this leave the dialogue between the documentary record and the archaeological record? The first point is to recognise that the archaeological data has its own importance and should be seen as a unique data set with its own properties and values that goes alongside the historical record but is not subordinate to it. The second is that we need to recognise that even the most fragmentary urban housing archaeology can reveal useful data on issues from building quality and identity to poverty, overcrowding and poor sanitation, through a study of clearance artefact groups and those structural elements which regularly saw the most rebuilding activity: entrances, passageways and the fireplace. Finally, archaeologies of industrial urban workers’ housing in Manchester need to steer a course between the twin 19th century extremes of demonising the working poor whilst praising the benefaction of the factory owner, and the 20th century tradition of valorising working class culture. The archaeological information from urban workers’ housing is a unique data set that deserves a balanced approach to its study, and whose implications are as relevant to the 21st century experience of urbanisation as they are to recovering the experience of living in the first industrial city.
Bibliography


Wooler F, 2015, ‘The excavation of 19th century back-to-back housing and courts and the Kenyon Cutlery Works at the site of the Stephenson’s Blake Type Foundry, Upper Allen Street, Kenyon Alley and Edward Street, Sheffield’, *Post-Medieval Archaeology* 49, 313-334.

Fig 1: Workers’ housing excavations in Manchester and Salford, 2001 to 2016.

Fig 2: Workers’ housing excavations at Angel meadow, 2009. Image courtesy of Oxford Archaeology North.
Fig 3: The development of Bradley Street housing, Ancoats, 1780 to 1794. Image courtesy of Historic England.
Fig 4: Plan of the excavated back-to-back housing at Fletchers Court, Chapel Street, Salford, 2012.

Fig 5: Dark-glazed earthenware storage vessel from Jersey Street housing excavations, Ancoats, 2011.