North London Waste Plan

Proposed Submission (January 2019)

with track change Proposed Modifications

March 2021

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1. Introduction and Background

2.3 ~~The~~ North London ~~Boroughs~~ covers a large swathe of London from the inner city into the Green Belt of outer London. The geographical extent takes in both the inner London Boroughs of Camden, Hackney and Islington, and the outer London Boroughs of Barnet, Enfield, Haringey and Waltham Forest (see Figure ~~4~~1). The land within the North London Boroughs spans an area of 293 square kilometres. ~~The geographical characteristics of North London are a key element in both the Spatial Framework (see section 4) and the sites/areas assessment criteria (see section 8).~~

What is the North London Waste Plan?

1.1. The seven North London Boroughs of Barnet, Camden, Enfield, Hackney, Haringey, Islington and Waltham Forest are working together to produce the North London Waste Plan (the 'NLWP'). The NLWP also covers part of the area of the London Legacy Development Corporation (LLDC), a Mayoral Development Corporation, which is the planning authority for a small part of Hackney and Waltham Forest[1]. Figure 1 shows the North London Waste Plan area.

1.2. The NLWP has two main purposes:

- to ensure there will be adequate provision of suitable land to accommodate waste management facilities of the right type, in the right place and at the right time up to 2035 to manage waste generated in North London; and
- to provide policies against which planning applications for waste development will be assessed, alongside other relevant planning policies/guidance.

1.3. The key elements of the NLWP are:

The Aim and Strategic Objectives: These are overarching principles which have steered the development of the NLWP.

[1] The relationship of the NLWP to the LLDC is discussed further in para 1.15 below

The Spatial ~~Framework~~Principles: The spatial principles flow from the Strategic Objectives and provide the strategic direction for the detailed policies of the NLWP and inform site/area selection. ~~This sets out~~ They reflect the physical and planning components that influence the Plan and guide the identification of~~es~~ opportunities and constraints for waste planning in North London.

The Provision for North London's Waste to 2035: This sets out the preferred option for how the waste management needs for North London will be met for each waste stream over the Plan period.

The Policies: These are strategic policies through which the aims and objectives, waste management strategy and Spatial ~~Framework~~ Principles will be delivered. The policies provide the waste planning framework against which applications for waste development will be assessed across the Plan area.

1.4. The NLWP plans for all principal waste streams including:

- **Local Authority Collected Waste** (LACW): Waste collected by a Local Authority, including household and trade waste;
- **Commercial and Industrial** (C&I): Waste produced by businesses and industry;
- **Construction, Demolition & Excavation** (CD&E): Waste generated as a result of delivering infrastructure projects, building, renovation and the maintenance of structures;
- **Hazardous**: A sub category of all waste streams where the material produced is hazardous and requires specialist treatment;
- **Agricultural waste**: Waste produced by farming and forestry activity;
- **Waste Water / Sewage Sludge**: Waste produced from washing, cleaning and hygienic activities to create waste water and sewage effluents; and
- **Low level radioactive waste** (LLW): Waste associated with the undertaking of x-rays and laboratory testing using low level radioactive substances.

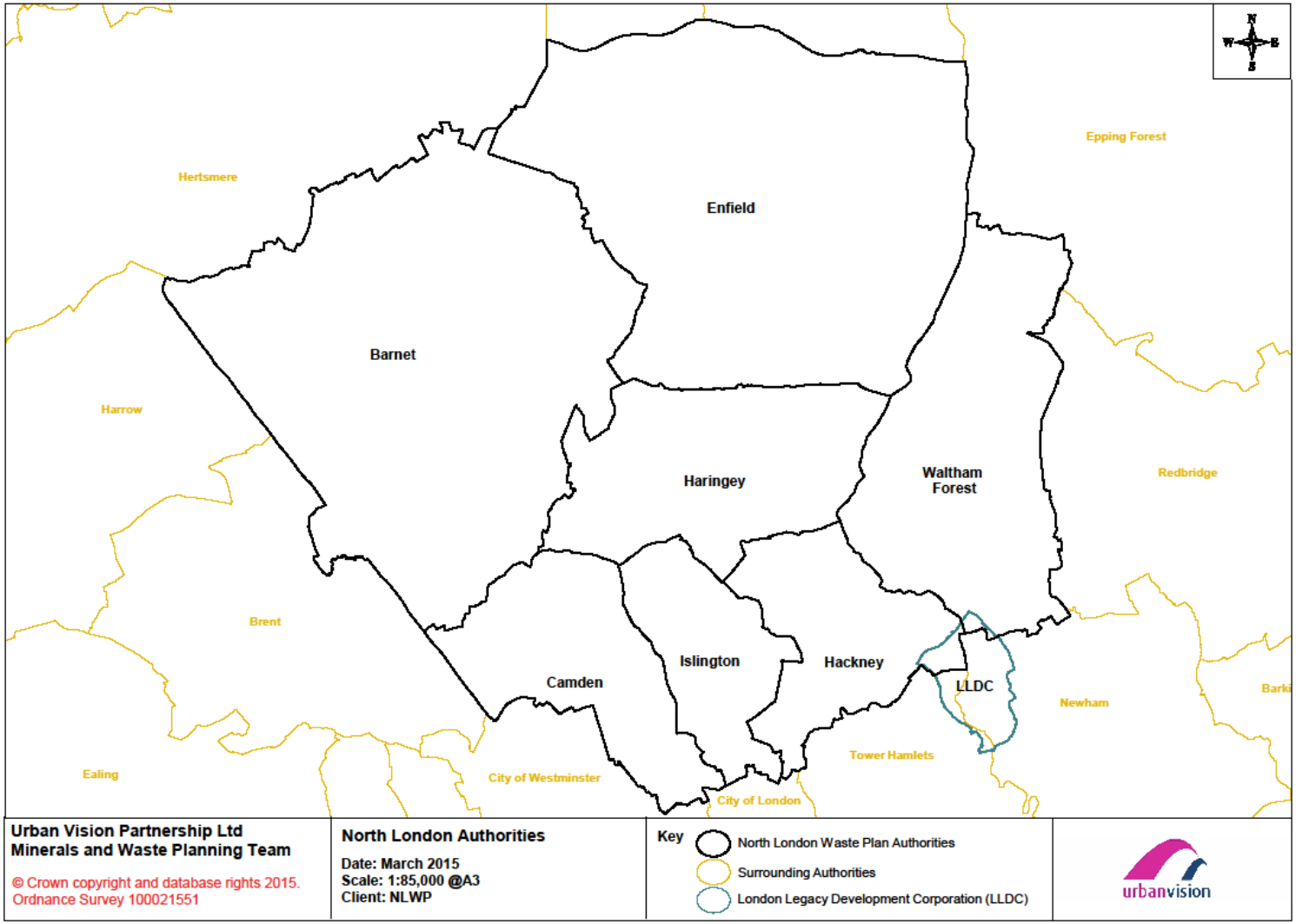
How does the North London Waste Plan fit with other plans and strategies?

1.5. The seven North London Boroughs, as Waste Planning Authorities (WPA) are required to prepare a Waste Local Plan. This requirement comes from Article 28 of the European Union (EU) Waste Framework Directive, the National Waste Management Plan for England and the National Planning Policy for Waste (NPPW).

1.6. The NLWP is prepared in line with the requirements of the Planning and Compulsory Purchase Act 2004, the Waste (England and Wales) Regulations 2011 and the Town and Country Planning (Local Planning) (England) Regulations 2012, The National Planning Policy Framework (NPPF) and supporting Planning Practice Guidance (PPG) direct how Local Plans should be prepared and the National Planning Policy for

Waste (NPPW) provides detailed requirements specific to waste plan preparation and content.

Figure 1: North London Plan Area

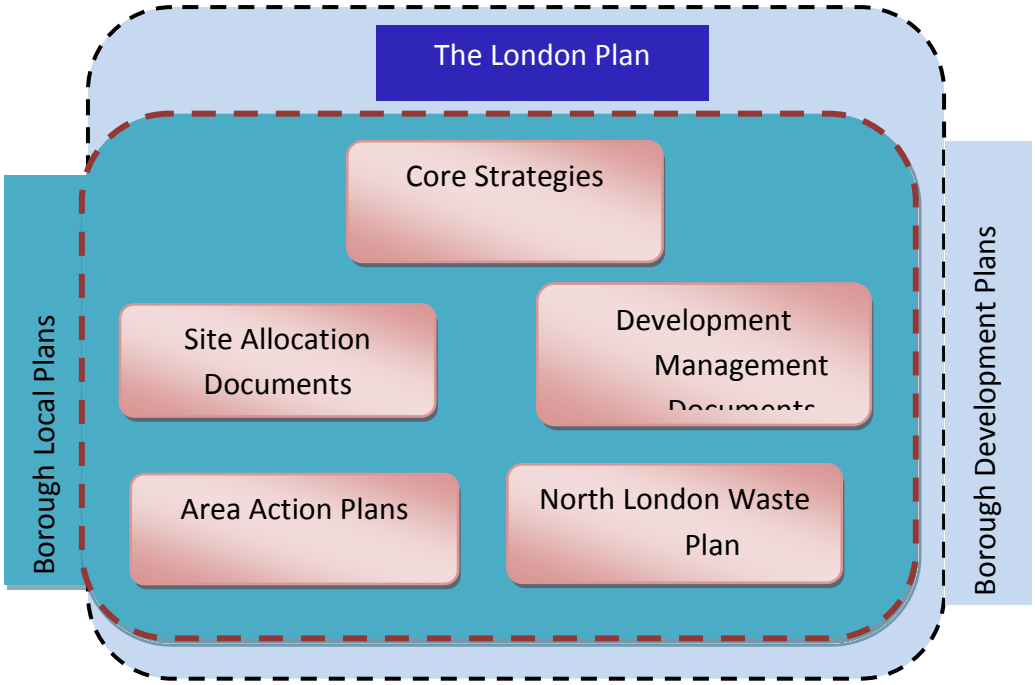


1.7. Once adopted, the NLWP will form part of the 'Development Plan' for each of the North London Boroughs which comprises the London Plan and borough Local Plans (see Figure 2). The NLWP must be in general conformity with the London Plan, which sets the strategic framework for the NLWP, and consistent with other documents in borough Local Plans. The NLWP should be read alongside other relevant policies within the wider Development Plan. The Mayor published a draft London Plan for consultation in December 2017. The Examination in public ~~is expected to begin in January~~ took place in early 2019 with ~~adoption~~ publication of a new London Plan in March 2021. ~~scheduled for early 2020~~. ~~The London Plan sets the strategic framework for the NLWP~~

1.8. The London Plan projects how much LACW and C&I waste is likely to be generated in the capital over the next 20 years and apportions an amount of these two waste streams to each borough. The North London Boroughs have pooled their apportionments and will meet this collectively through existing sites and land allocated in the NLWP.

1.9. Each of the seven boroughs has a strategic waste policy as part of their Local Plan. The boroughs' strategic waste policies defer to the NLWP to provide a more detailed planning framework for waste development across the seven boroughs. Each borough's Local Plan may also include site allocation documents, development management policies and area action plans, as well as supplementary planning documents.

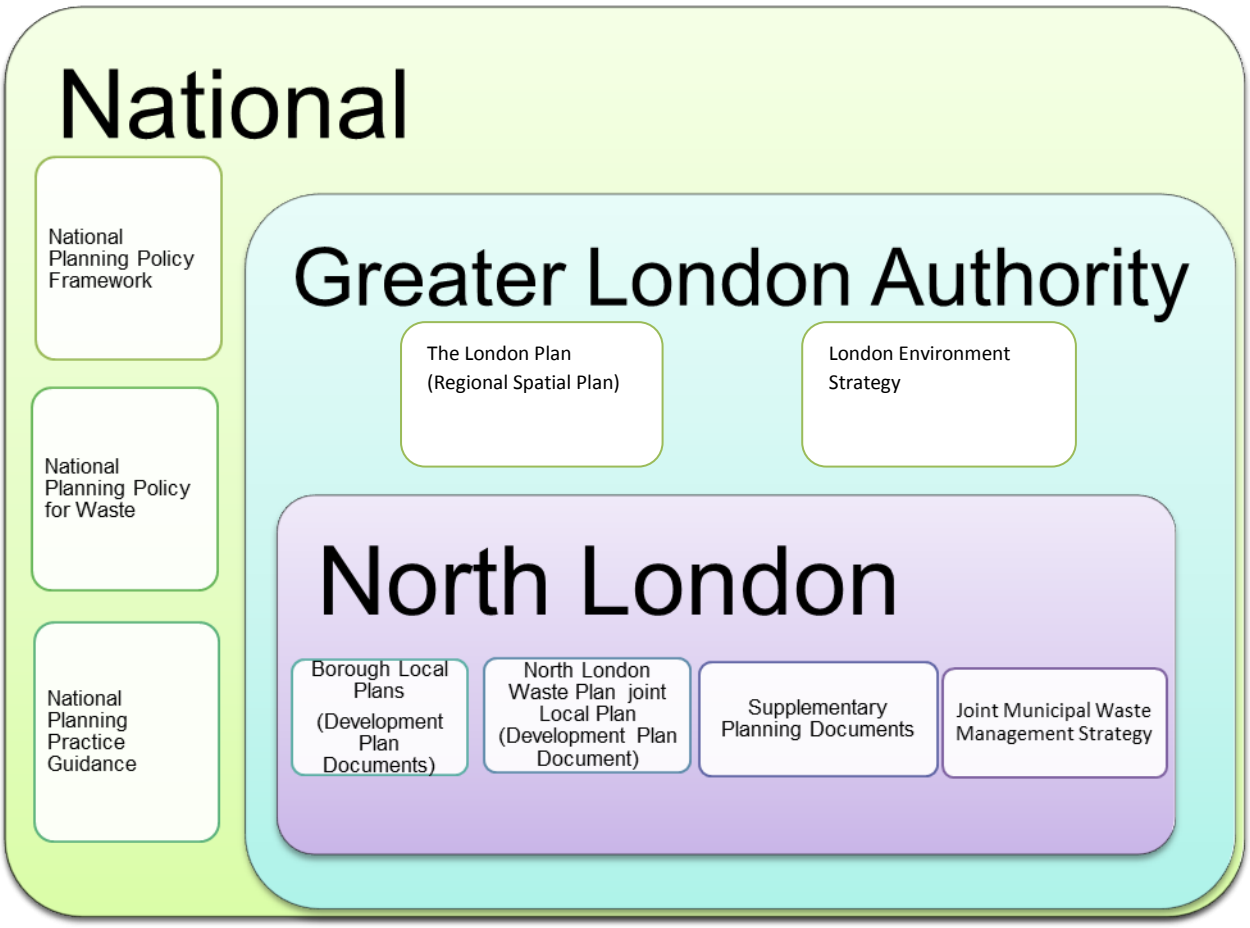
Figure 2: Documents making up the Development Plan for North London Boroughs



1.10. In addition to the national and regional planning policies, there are also waste strategies which impact on the development of the NLWP. The Mayor's London Environment Strategy (2018) contains recycling targets for Local Authority Collected Waste (LACW) and Commercial & Industrial (C&I) waste which inform policies within the London Plan.

1.11. The North London Waste Authority~~'s~~ (NLWA) and the seven constituent boroughs have ~~has~~ produced the Joint Municipal Waste Management Strategy (JMWMS) (2009). The NLWA, as the Waste Disposal Authority for the NLWP area, is a key stakeholder. The NLWA is responsible for managing the household waste collected by the North London boroughs, ~~in particular household waste but also~~ and also for the household waste deposited at Reuse and Recycling Centres and some waste that the boroughs collect from local businesses; collectively this is known as Local Authority Collected Waste (LACW). The NLWP is required to ensure there is adequate provision for the disposal and recovery of this waste stream.

Figure 3: Hierarchy of Planning Guidance Policies and Strategies



1.12. Once adopted the NLWP will form part of the overarching planning framework used for the determination of planning applications relating to proposed or existing waste facilities in North London. These applications will be submitted to the Boroughs in which the facility is located. Developers will need to consider the documents highlighted in Figure 3 in making a planning application related to an existing or proposed waste facility:

- National planning policy and guidance;
- The London Plan and Supplementary Planning Guidance;
- The North London Waste Plan;
- Borough Local Plan documents

What is involved in preparing the North London Waste Plan?

1.13. As mentioned above, the NLWP must be prepared in line with European, national, regional and local policies and guidance. Before the NLWP can be adopted by each of the Boroughs it must be examined by an independent Inspector. The Inspector will determine whether the Plan has been prepared in accordance with the duty to co-operate, legal and procedural requirements and whether it is 'sound'.

1.14. The duty to co-operate, introduced by the Localism Act 2011, and requires local planning authorities and other public bodies to engage constructively, actively and on an ongoing basis to develop strategic policies. Meeting the requirements of the duty to co-operate is a key part of the plan making process for the NLWP and the North London Boroughs are working closely with other waste planning authorities that are critical for the delivery of an effective waste strategy for North London, in addition to prescribed public bodies such as the Environment Agency and the Mayor.

1.15. As previously highlighted, the North London Boroughs are working closely with the London Legacy Development Corporation (LLDC). The LLDC is a Mayoral Development Corporation with responsibility for securing the regeneration of an area of London focused on the former Olympic Park. The LLDC is the local planning authority, which includes waste planning, for small parts of Hackney and Waltham Forest (and other boroughs not part of the NLWP group). However, while all the Boroughs have an apportionment of waste from the Mayor under the London Plan for which they must plan and find land, the LLDC is not allocated a share of the borough apportionment. The NLWP is required therefore to plan for the quantity of waste generated across the seven boroughs including the parts of Hackney and Waltham Forest that lie within the LLDC area. In carrying out their responsibilities under the NPPW, the North London Boroughs are engaging with other planning authorities outside London which import waste from North London including the

LLDC area. The NLWP cannot directly allocate sites/areas within the LLDC area as this is the responsibility of the LLDC as the local planning authority.

1.16. An agreement for the working relationship between the North London Boroughs and the LLDC has been drawn up. This agreement, or Memorandum of Understanding, identifies the Sites and Areas suitable for waste within the Hackney and Waltham Forest parts of the LLDC area. The LLDC's Local Plan also identifies sites and areas that are potentially suitable for waste related uses. For waste development proposals in the parts of Hackney and Waltham Forest which fall within the LLDC area, the LLDC Local Plan policies will apply. Policy IN2 of the LLDC Local Plan requires planning decisions to take full account of the policies within the adopted waste plans of the Boroughs.

Supporting Documents

1.17. The NLWP is accompanied by evidence base documents including a Data Study, Options appraisals, Sites and Areas report and Duty to Co-operate report. There are supporting assessments such as a Sustainability Appraisal (SA) (incorporating the requirements of the SEA Directive), Habitats Regulation Assessment (HRA), a Sequential Test Report)and Equalities Impact Assessment (EqIA). These assessments form a key element of the development of the Plan and help to ensure that the social, environmental and economic impacts of the policies developed in the Plan are assessed and taken into account in the decision making process. There are also reports on the outcomes of all consultations on the NLWP. The supporting documents can be viewed -on the NLWP website.

~~**What stage is the NLWP at?**~~

~~1.18. This is the Proposed Submission Plan (Regulation 19). It has been prepared following consideration of responses received to the consultation on the draft NLWP (Regulation 18) which took place from 30th July to 30th September 2015. The consultation provided an opportunity for stakeholders and communities to comment on the Draft Plan and proposed policies. A report on the outcomes of this consultation and separate reports of the previous consultation at the outset of plan preparation are also available to view on the NLWP website.~~

~~1.19. The Proposed Submission Plan is the version of the NLWP that the Boroughs intend to submit to the Secretary of State for examination. It is being published to allow the opportunity for stakeholders and communities to submit representations on the soundness and legal and procedural compliance of the Proposed Submission Plan.~~

~~1.20. At the heart of national policy (the NPPF) is the presumption in favour of sustainable development and policies in the NLWP must reflect this presumption. The NLWP must meet the soundness tests as set out in paragraph 182 of the NPPF. These require the NLWP to be:~~

- ~~Positively prepared (meet objectively assessed development needs of the area);~~
- ~~Justified (set out the most appropriate strategy based upon the evidence);~~
- ~~Effective (deliverable and address cross boundary issues);~~
- ~~Consistent with national policy.~~

What happens next?

1.21. Representations made during consultation on the Proposed Submission Plan will be considered and any proposed changes will be submitted to the Inspector for examination along with supporting documents.

1.22. Once the Plan is submitted, an independent Inspector will be appointed (on behalf of the Secretary of State) to examine whether the NLWP meets the required legal and soundness tests, including duty to co-operate and procedural requirements. The indicative timetable for the Plan is as follows:

Table 1: NLWP Timetable

Consultation on Proposed Submission Plan (Regulation 19)	January – February 2019
Submission (Regulation 22)	June 2019
Public hearings	September 2019
Inspector's report	January 2020
Adoption	June 2020

Geographical Extent

Population Characteristics

2.4 Recent statistics[2] show that the population has risen from 1.6 million in 2002 to an estimated 2.0 million in 2017 and that the population continues to grow at a rate above the national average. This population growth will also increase the amount of waste North London will need to manage in the future, even though the amount of waste generated per person may not increase (see section 6).

2.5 The highest density is in the inner boroughs of Islington (the most densely populated local authority in the UK according to the 2011 Census), Hackney and Camden, closely followed by Haringey. Waltham Forest, Barnet and Enfield are less densely

[2] Office for National Statistics

~~populated, however these Boroughs are still substantially more densely populated than the rest of the country. Density of population and the built environment has an influence on the amount of waste generated but also on competition for land and the availability of sites suitable for new waste facilities (see section 7).~~

~~Health~~

2.6 ~~There are varying levels of life expectancy across North London. The outer boroughs of Barnet and Enfield report life expectancies higher than the national average, however significant inequalities exist within the boroughs. In contrast, the other Boroughs report male life expectancy lower than the average for England, while the same is true of females in Islington and Waltham Forest. Impact on human health has been a key consideration in the development of the NLWP and is discussed in more detail in the Sustainability Appraisal (SA) which supports the NLWP.~~

~~Socio-Economic~~

2.7 ~~The average gross weekly earnings within each of the North London Boroughs is higher than the average for England. All of the Boroughs have a higher proportion of their working population employed than the national average. This is mirrored by the high cost of living in all Boroughs. Four Boroughs (Hackney, Haringey, Islington and Waltham Forest) contain wards amongst the 20 most deprived areas in England pointing to varying degrees of polarisation. All boroughs contain varying levels of deprivation within them. Economic growth in North London is predicted to result in greater amounts of waste being generated. This is due to more people in jobs, although the amount of waste created per person is expected to stay the same.~~

~~Environment~~

2.8 ~~The NLWP includes strategies and policies to protect environmental assets and amenity.~~

~~Transport~~

2.9 ~~Opportunities for using sustainable modes of transport are a key element of the Spatial Framework.~~

~~Land Use~~

2.10 ~~Some boroughs are beginning to review their Green Belt boundaries as a result of the review of Local Plans.~~

Climate Change

2.11 All Boroughs have lower CO_2 emissions per capita than the national average, with the exception of Camden where levels are elevated by the concentration of commercial and other non-domestic activities. However all Boroughs have significantly lower per capita CO_2 emissions from road transport when compared to the national average. This is particularly apparent in Camden, Hackney, Haringey, Islington and Waltham Forest. Per capita CO_2 emissions from the domestic sector are below the national average.

2.12 The NLWP seeks to reduce the reliance on disposal to landfill sites outside London as this contributes to CO_2 emissions from transport. While it is recognised that waste management facilities will continue to generate CO_2 emissions, new waste facilities generating energy need to meet the Mayor's Carbon Intensity Floor. The priority of the NLWP will be to implement policies and direct new development to sites which deliver a better overall environmental outcome.

2.13 The NLWP site and area assessments take into account those parts of all Boroughs that are under threat from surface water (and potentially sewer) flooding because of the extensive urbanised areas.

2.14 The site and area assessments also take into account the greater occurrence of urban flood events over the last sixty years and the risk that climate change will lead to a greater threat from flooding in the future. On the east side of the area a number of tributaries flow into the River Lee while parts of Barnet drain into the River Brent to the west.

3. Aims and Objectives

Aim of the North London Waste Plan

2.1 Waste management has an important role in achieving sustainable development. There are a number of ways to define 'sustainable development'. The most well-known definition is '*development which meets the needs of the present without compromising the ability of future generations to meet their own needs*'[3]. The UK Sustainable Development Strategy *Securing the Future* set out five 'guiding principles' of sustainable development:

- living within the planet's environmental limits;
- ensuring a strong, healthy and just society;
- achieving a sustainable economy;
- promoting good governance; and
- using sound science responsibly.

2.2 The National Planning Policy Framework (NPPF) references these definitions and goes on to set out three objectives to sustainable development: economic, social and environmental. The North London Waste Plan (NLWP) will help achieve sustainable waste management by providing a sound basis for the provision of waste management infrastructure, contributing to the conservation of resources by improving the efficiency of processing and making better use of the wastes created within North London.

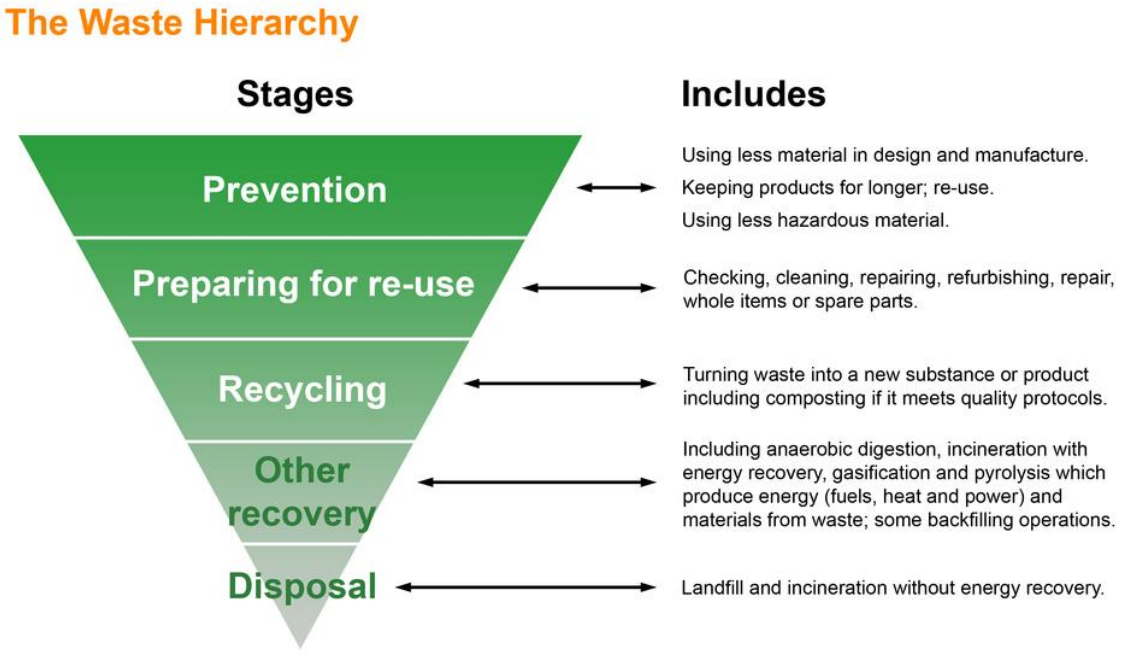
3.1. Each of the seven Borough Local Plans contains a vision for their area, and the aim of the NLWP links to the delivery of that vision. The NLWP therefore includes a single overarching aim and a number of objectives to deliver that aim. The Aim meets the requirements of National Planning Policy for Waste (NPPW) through providing a set of agreed priorities for delivering sustainable waste management in North London

3.2. The NLWP treats waste as a resource rather than as a nuisance, promoting the principles of the waste hierarchy. The Aim acknowledges that the NLWP is part of a wider but integrated approach that will help to deliver sustainable waste management in North London, alongside such measures as improved resource management, and waste prevention and reduction spanning strategies which

[3] Brundtland Commission, 1987 (Resolution 42/187 of the United Nations General Assembly)

influence but are outside of the planning framework. The NLWP aim and objectives reference and integrate the Waste Hierarchy which is shown in Figure 5.

Figure 4: Waste Hierarchy



3.3. The aim of the NLWP is:

Aim of the NLWP

"To achieve net self-sufficiency* for LACW, C&I and C&D waste streams, including hazardous waste, seek beneficial use of excavation waste, and support a greener London by providing a planning framework that contributes to an integrated approach to management of materials further up the waste hierarchy. The NLWP will provide sufficient land for the sustainable development of waste facilities that are of the right type, in the right place and provided at the right time to enable the North London Boroughs to meet their identified waste management needs throughout the plan period".

* Net self-sufficiency means providing enough waste management capacity to manage the equivalent of the waste generated in North London, while recognising that some imports and exports will continue. Equivalent capacity will be measured by the amount (tonnes) managed for each waste stream against the projected waste arisings in Table 8.

Strategic Objectives

3.4. The Strategic Objectives are the steps needed to achieve the Aim of the ~~draft~~ NLWP. They are delivered through the policies in the Plan and each Strategic Objective signposts the policy or policies through which it will be met. The Strategic Objectives are as follows:

SO1. To support the movement of North London's waste as far up the **waste hierarchy** as practicable, to ensure environmental and economic benefits are maximised by utilising waste as a resource:
Met through Policies 2, 4, 6, 7 and 8

SO2. To ensure there is **sufficient suitable land** available to meet North London's waste management needs and reduce the movements of waste through safeguarding existing sites and identifying locations for new waste facilities:
Met through Policies 1, 2, 3, 4, , 7 and 8

SO3. To plan for **net self-sufficiency** in LACW, C&I, C&D waste streams, including hazardous waste, by providing opportunities to manage as much as practicable of North London's waste within the Plan area taking into account the amounts of waste apportioned to the Boroughs in the London Plan, and the requirements of the North London Waste Authority, to seek beneficial use of excavation waste,, and to monitor waste exports as part of the ongoing duty to co-operate:
Met through Policies 1, 2, 3, 4, and 8

SO4. To ensure that all waste developments meet **high standards of design** and build quality, and that the construction and operation of waste management facilities do not cause unacceptable harm to the health or amenity of local residents or the environment:
Met through Policy 5

SO5. To ensure the delivery of sustainable waste development within the Plan area through the integration of **social, environmental and economic** considerations:
Met through Policies 2, 5 and 7

SO6. To provide opportunities for North London to contribute to the development of a **low carbon economy** and decentralised energy:
Met through Policy 6

SO7. To support the use of **sustainable forms of transport** and minimise the impacts of waste movements including on climate change:
Met through Policy 5

SO8. To protect and, where possible, enhance North London's natural **environment**, biodiversity, cultural and historic environment:

Met through Policy 5

4. Spatial ~~Framework~~Principles

Context: Land Use in North London

2.15 Historically much of the employment land in North London has been in industrial use. Inevitably the restructuring from an industrial-based to a service based economy has affected land use priorities, creating a situation where the type of employment land available has changed, particularly in the inner boroughs where offices predominate. Such areas are now under pressure to help deliver high housing and employment targets. The previous use of these areas raises the risk of contamination and the need for remedial measures regardless of how the land will be used in the future.

2.5 Across North London as a whole the predominant land use is housing. While the outer Boroughs are characterised by traditional detached, semi-detached and terraced housing, overall across the Plan area, there is a higher proportion of flats and similar multi-tenant properties. This is particularly the case in the inner Boroughs which, consequently, have fewer gardens (and green waste) than the outer Boroughs. The differing ability of types of housing stock to incorporate waste collection infrastructure (for example recycling bins) impacts on recycling rates in North London (see section 6).

2.23 ~~Across North London as a whole the predominant land use is housing.~~ There are also concentrated areas of commercial activity and town centres. Parts of Camden, Hackney and Islington fall into the Central Activities Zone which covers London's geographic, economic, administrative, and cultural core spanning ten boroughs in total. The Upper Lee Valley on the east of the NLWP area includes a concentrated area of industrial activity. Each borough contains areas of industrial or employment land that are designated for this purpose. The London Plan designates Strategic Industrial Locations (SILs) and provides the strategic direction for the identification of Locally Significant Industrial Sites (LSISs) and other industrial/employment designations in Local Plans.

2.24 North London is one of the most densely populated areas in the UK. There are a number of drivers for change in land use in North London, in particular the need to boost housing numbers and make best and most efficient use of land around public transport modes. These pressures are likely to increase as a result of planned investment such as Crossrail 2, Stratford to Angel Road (STAR) Scheme and four-tracking on the West Anglia Mainline.

2.7 & 2.8 The Boroughs also seek to improve the health of residents and tackle deprivation. Impact on human health has been a key consideration in the

development of the NLWP and is discussed in more detail in the Sustainability Appraisal (SA) which supports the NLWP. Maximising economic benefits by utilising waste as a resource is an objective of this plan. There are opportunities for job creation through the development of new waste facilities at both the construction and end user stages. New technologies can also help to create 'green collar'[4] jobs in new waste management facilities as well as in sectors that receive recycled or reprocessed material, turning it into new products, thereby creating wealth from waste.

2.25 To deliver this change, the London Plan has identified Opportunity Areas and Housing Action Zones in parts of North London including parts of the Lee Valley and there may be future Opportunity Areas identified during the NLWP plan period. The Opportunity Areas overlap with land which contains existing facilities and also some of the ~~areas~~ Priority Areas for new waste management facilities identified in this Plan ~~for new waste facilities~~. Therefore, it will be important for the Boroughs to monitor changing land uses through Monitoring Indicator IN4. ~~alongside the opportunities for intensification and new homes, there will also be a need for Boroughs to consider existing waste operations and areas for new waste facilities, in light of NLWP Policies 1: and 2.~~

2.27 The North London Boroughs are all focused on the challenges posed by climate change. Borough strategies are driven by the requirements to mitigate and adapt to all effects of climate change. The NLWP aims to deliver effective waste and resource management which makes a positive and lasting contribution to sustainable development and to combating climate change. In particular this includes reducing the reliance on disposal to landfill sites outside London, lowering CO_2 emissions from road transport, ensuring new waste facilities generating energy meet the Mayor's Carbon Intensity Floor, directing new development to the most appropriate sites and taking into account the greater occurrence of urban flood events.

Spatial Principles

~~4.1 The spatial framework principles flows from the Plan's objectives and takes account of the spatial context outlined in section 2 and the strategic and policy context outlined in section 1, alongside the Plan's technical evidence base, and the views of~~

[4] Jobs in environmental sectors

~~stakeholders. Figure 6 below shows the relationship between the key elements that form the spatial framework~~principles~~.~~

4.2 The spatial principles~~framework~~ flow from the Plan's Strategic Objectives and provide~~s~~ the strategic direction for the detailed policies of the NLWP and inform~~s~~ site/area selection. The principles take account of the spatial and wider policy context, the Plan's evidence base and the views of stakeholders. The spatial ~~framework~~ principles also guide~~s~~ the assessment of the suitability of windfall sites under Policy 3. ~~It~~ They reflect~~s~~ the complexities and realities of planning at a sub-regional level taking into account varied characteristics and functions across the seven boroughs, from densely populated urban areas to stretches of Green Belt. Competing and changing land uses, especially release of industrial land for housing, is a key issue for the boroughs.

4.3 The spatial principles set out below represent the outcome of balancing various priorities, opportunities and constraints, in particular the availability of sites/areas to achieve a deliverable distribution of waste management locations to meet identified need, whilst bringing social, economic and environmental benefits of new waste management facilities to North London.

4.4 The NLWP is underpinned by the following spatial principles:

A. Make use of existing sites
B. Seek a better geographical spread of waste sites across North London, consistent with the principles of sustainable development.
C. Encourage co-location of facilities and complementary activities
D. Provide opportunities for decentralised heat and energy networks
E. Protect local amenity
F. Support sustainable modes of transport

A. Make use of existing sites

4.5 NPPW requires Boroughs to consider the capacity of existing operational facilities in meeting identified need. Further to this~~, Policy 5.17 *Waste Capacity* of The~~ London Plan policy SI8 requires boroughs, when preparing plans, to protect and facilitate the maximum use of existing waste sites.

4.6 In line with this and in order to recognise the valuable contribution existing waste facilities make to managing waste effectively, existing waste management capacity has provided the baseline for identifying the waste management capacity gap and the consequent need for expanded and new facilities. Existing waste management sites form an important part of the strategic waste plan for North London and are safeguarded for waste use through NLWP Policy 1 and the London Plan (see Schedule 1 in Appendix 1 for a full list of existing sites).

4.7 Figure 6 shows that the majority of existing waste sites are located to the east of the Plan area in the industrial parts of the Lee Valley corridor. These sites have developed over decades outside of a strategic plan for waste, and in locations which may have been suitable for waste uses but which did not create an even geographical spread across North London. This reflects the mixed function and character of the Plan area, notably in terms of significant differences among the boroughs in supply of industrial land where waste uses are generally more acceptable.

4.8 Three existing sites are known to be planning capacity expansion or upgrades to existing facilities (see Section 8). Most other existing sites do not have any current plans to expand capacity or change their operations but the North London Boroughs support, in principle, the expansion or intensification of operations at existing facilities and this is reflected in Policy 1. Further guidance for industrial intensification is set out in draft New London Plan Policies E4-E7.

B Seek a better geographical spread of waste sites across North London, consistent with the principles of sustainable development.

4.9 The NLWP is underpinned by an aim to achieve net self-sufficiency for LACW, C&I, C&D waste streams, including hazardous waste. This will be achieved by identifying enough existing capacity and land in North London suitable for the development of new waste management facilities to manage the equivalent of 100% of this waste arising in North London. The objective is to reduce movements of waste, including waste exports, and increase the amount of waste managed in proximity to its source, in accordance with the principles of sustainable development. Waste is exported to a number of areas outside of North London, mainly in the south east and east of England ~~and Figure 12 shows the estimated reduction of waste exports over the plan period~~. The strategy for achieving net self-sufficiency is set out in the Provision for North London's Waste to 2035~~2~~ in section 7.

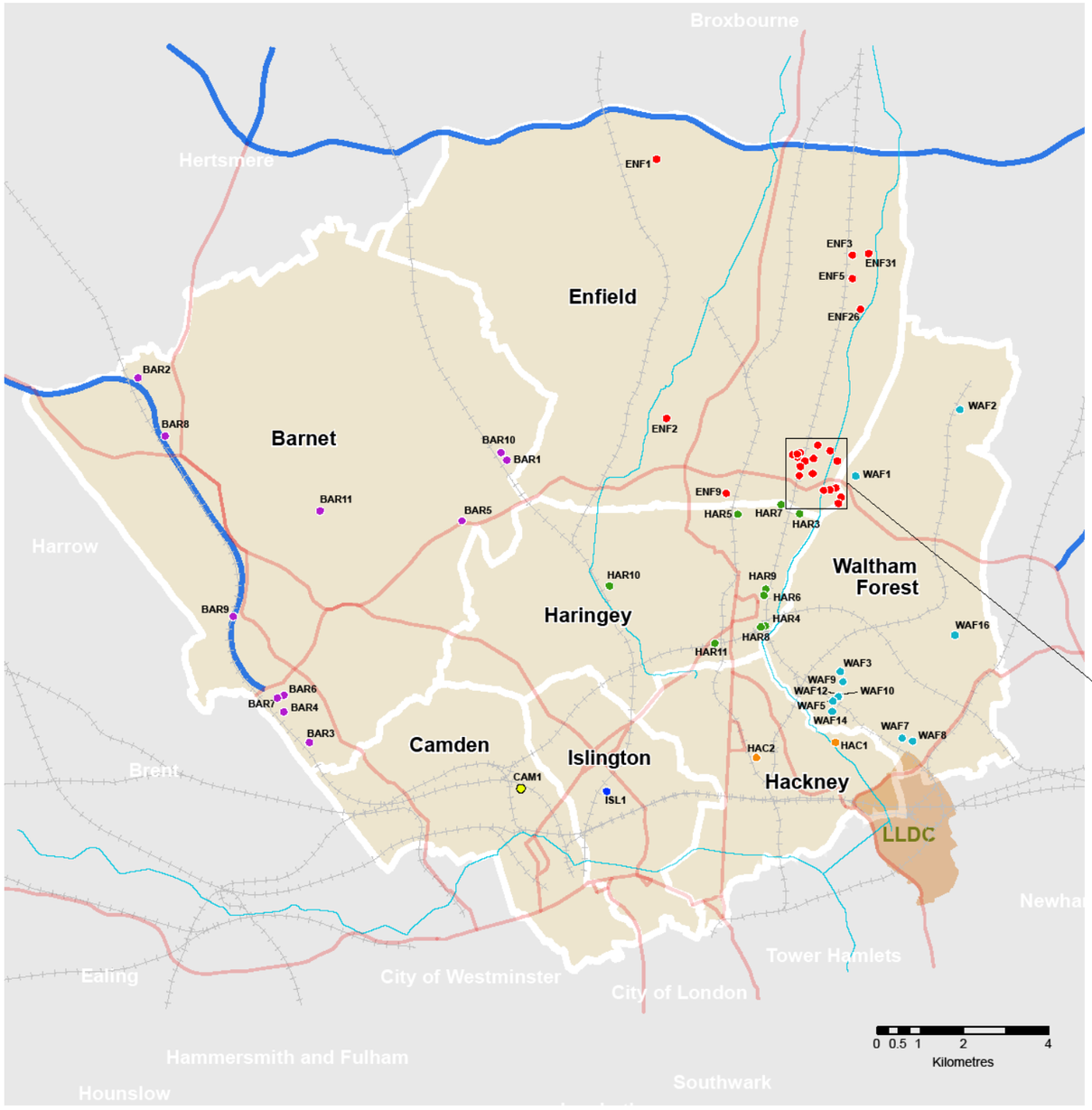
4.10 Net self-sufficiency does not mean that the North London Boroughs will deal solely with their own waste, nor promote use of the very closest facility to the exclusion of all other considerations. While it is desirable for waste to be treated as close as possible to its source in line with the proximity principle, the complexity of the waste management business poses challenges. Different types of waste require different types of management and facilities need to serve areas large enough to be economically viable. Consequently, the most suitable facility may not be the nearest and may well be outside of North London. In addition, facilities in North London will continue to manage waste from outside the area.

4.11 The current and changing character of each borough's industrial land is a consideration in identifying locations for new waste infrastructure. ~~It should be~~

~~noted that the draft New London Plan identifies Enfield as a 'provide capacity' borough for the management of industrial floorspace capacity, and the other six North London Boroughs are identified as 'retain capacity' boroughs.~~ Larger and co-located facilities are more suited to areas with similar existing uses away from sensitive receptors. A future waste industry focused on resource management may derive positive cumulative impacts from a concentration of facilities. Conversely, the urban environments of NLWP boroughs are restricted by severe physical constraints limiting opportunities for some types of waste facilities. In addition, ~~some areas, such as~~ most waste facilities would be regarded as inappropriate development in the protected Green Belt in the north, will be largely out of bounds for any built waste facilities unless very special circumstances justifying the use of Green Belt land have been demonstrated. As population and densities in the plan area increase with projected growth, fewer areas away from sensitive receptors will be available. Continued development of waste facilities in areas which have, and continue to provide, significant waste capacity could have wider implications on the regeneration of the local economy. When choosing locations for future development, the benefits of co-location will need to be balanced against the cumulative impacts which can arise from an accumulation of facilities in one location. Cumulative impacts can include traffic levels, noise and odours. There may be times when the cumulative impacts of several waste developments operating in an area would be considered unacceptable.

New Figure 9 shows that there is a concentration of existing waste sites in the Lee Valley corridor, mainly in Enfield. Indeed, Enfield contributes 62% of the land currently in waste use in North London, compared to 18% in Barnet, 12% in Haringey and 5% or less in the remaining Boroughs. The NLWP has the opportunity to address concerns that there is an over-concentration of waste facilities in Enfield by promoting a better geographic spread of sites across North London and create a more sustainable pattern of waste development.

Figure 5: Existing Waste Sites



KEY

North London Waste Plan – Existing Sites

Barnet
- BAR 1 - Winters Haulage
- BAR2 - Scratchwood Quarry
- BAR3 - PB Donoghue
- BAR4 - WRG
- BAR5 - Summers Lane RRC
- BAR6 - McGovern Brothers
- BAR7 - Cripps Skips
- BAR8 - Apex Car Breakers
- BAR9 - Vacant (previously Savecase Ltd)
- BAR10 - GBN
- BAR11 - Mill Hill Depot

Camden
- CAM1 - Regis Road RRC

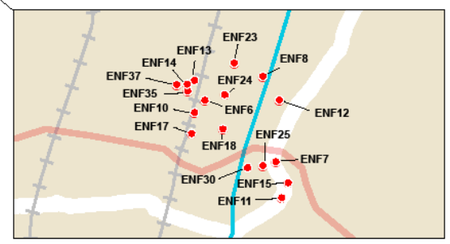
Hackney
- HAC1 - Millfields
- HAC2 - Downs Road

Haringey
- HAR3 - Garman Road
- HAR4 - O'Donovan
- HAR5 - Redcorn Ltd
- HAR6 - Restore Community Projects
- HAR7 - Brantwood Auto Recycling Ltd
- HAR8 - O'Donovan
- HAR9 - Park View Road RRC
- HAR10 - Western Road
- HAR 11 - Durnford Street Car Dismantlers & Breakers

Islington
- ISL1 - Hornsey HWRC and Transfer Station

Waltham Forest
- WAF1 - Mercedes Parts Centre
- WAF2 - Kings Road
- WAF3 - South Access Rd
- WAF5 - Vacant (previously T J Autos)
- WAF8 - Leyton Reuse
- WAF9 - Vacant (formerly B D & G Parts For Rover)
- WAF10 - Malby Waste
- WAF12 - Argall Metal Recycling
- WAF14 - Tipmaster Ltd
- WAF16 - Whipps Cross Hospital Clinical Waste Treatment Facility

Enfield
- ENF1 - Crews Hill
- ENF2 - Barrowell Green RRC
- ENF3 - Pressbay Motors Ltd
- ENF5 - Jute Lane
- ENF6 - AMI Waste (Tuglord)
- ENF7 - Vacant (formerly Budds Skips)
- ENF8 - Biffa Edmonton
- ENF9 - Hunt Skips
- ENF10 - Rooke and Co Ltd
- ENF11 - Edmonton Bio Diesel Plant
- ENF12 - Camden Plant
- ENF13 - Personnel Hygiene Services Ltd
- ENF14 - Vacant (formerly Lee Valley Motors Ltd)
- ENF15 - A and A Skip Hire Limited
- ENF17 - Albert Works
- ENF18 - Edmonton Energy from Waste Facility
- ENF23 - J O'Doherty Haulage
- ENF24 - Oakwood Plant Ltd
- ENF25 - Environcom Ltd (Edmonton Facility)
- ENF26 - Powerday Pant Ltd
- ENF30 - Hunsdon Skip Hire
- ENF31 - Volker Highways Ltd
- ENF35 - Redcorn (ELV)
- ENF37 - GBN



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4.11 (cont) Any new waste development proposed in North London will be expected to be of a standard that is in keeping with and complements the existing and future planned development. By delivering STRATEGIC OBJECTIVE 2 and identifying suitable land across North London (Policy 2), the NLWP seeks to provide opportunities to manage waste as close to its source as possible, in line with the proximity principle. In promoting a geographic spread of facilities across the plan area consistent with the principles of sustainable development, the NLWP seeks to weigh the positive effects of co-location and economies of scale with the negative effects of excessive concentration of waste facilities in any one area. All North London Boroughs want to play their part in managing north London's waste and therefore support a~~n~~ more equitable geographical distribution across the seven Boroughs.

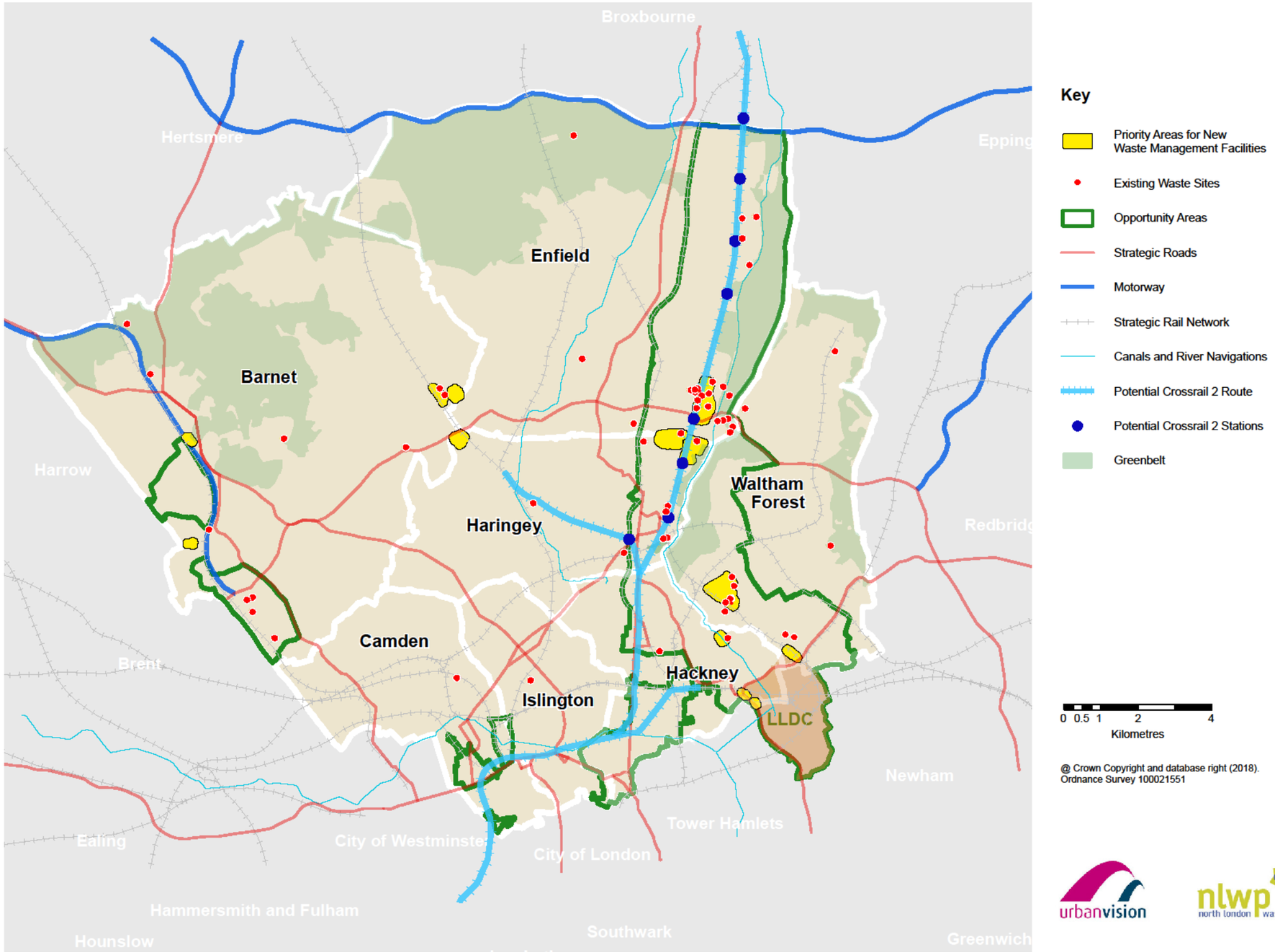
4.12 While all industrial land in North London is suitable 'in principle' for waste uses, there are certain locations which are more suitable than others to provide the waste capacity needed. Section 8 of the NLWP sets out how 'Priority Areas' for new waste facilities in North London were identified. One of the considerations was creating a better geographical spread, and this has been achieved by limiting the number of Priority Areas within Enfield. The NLWP takes an area-based approach to waste planning and identifies certain industrial and employment areas as in principle more suitable for waste use but where the land is not specifically safeguarded for waste. The area-based approach allows for flexibility in bringing forward a range of locations across North London which is combined with policy to promote areas outside Enfield first (see Policy 2). This is supported by annual monitoring to check that land for waste capacity is being taken up as anticipated (see Chapter 10 monitoring indicator IN3). In addition the NLWP supports the intensification of existing waste facilities where appropriate to optimise their throughput (see Policy 1).

4.12 (cont) ~~Policy 2 seeks to extend the existing spread of locations for waste facilities by identifying locations which are suitable for new waste facilities, taking into account~~ In combination, existing waste sites and the 'Priority Areas' are considered a sustainable network of waste facilities because they present sufficient opportunity to meet North London's waste capacity needs and net self-sufficiency targets while promoting a better geographical spread. They will help reduce movements of waste, including waste exports and increase opportunities for waste to be managed in proximity to its source. New waste facilities will be directed towards the most suitable land in North London when assessed against the planning criteria (see Table 10) as well as ~~factors such as~~ the character of different areas, changing land uses and availability of suitable

industrial land. Policy 2 identifies these Priority Areas in Schedules 2 and 3. Outside of the Priority Areas, ~~W~~where demand arises, opportunities to improve the spread of waste sites across the area are supported through Policy 3: Windfall Sites where they adhere to the site assessment criteria set out in section 8.

4.13 With local re-use and recycling centres (RRC) it is especially desirable to have a geographical spread that enables good access to residents. RRCs are facilities to which the public can bring household waste for free. Figure 7 shows the current network of local RRCs and a radius of two miles around them. Gaps in coverage have been identified by the NLWA in parts of the Plan area, namely Barnet and Enfield, shown outside of the two mile radius around each RRC. Any new RRC facilities will be assessed against Policy 4: Re-use and Recycling Centres.

Figure 6: Key diagram



C. Encourage co-location of facilities and complementary activities

4.14 NPPW requires waste plans to identify opportunities to co-locate facilities together and with complementary activities, including end users of waste outputs such as users of fuel, low carbon energy/heat and recyclable wastes. These opportunities are also associated with a move towards a more circular economy. WRAP defines the Circular Economy as *an alternative to a traditional linear economy (make, use, dispose) in which we keep resources in use for as long as possible, extract the maximum value from them whilst in use, then recover and regenerate products and materials at the end of each service life*[5]. The European Commission has published its Circular Economy package[6], while in London the London Waste and Recycling Board has published a Circular Economy route map[7].

4.15 There are several benefits of co-location of facilities. Co-location has the potential to minimise environmental impacts, take advantage of 'economies of scale', share infrastructure, existing networks (e.g. the rail and highway network) and skilled workforces. The concentration of waste facilities in the Lee Valley corridor provides the most promising opportunities for co-location with existing facilities. Notwithstanding this, NPPW requires the Plan to take account of the cumulative impact of existing and proposed waste disposal facilities on the well-being of the local community.

4.16 There are also co-location opportunities related to other industrial activities synergistic with waste management, for example the manufacturing of products from recycled materials and the development of a more circular economy. Existing waste facilities are already employing this approach as exemplified by the industries developing around the Edmonton EcoPark (Enfield) and the Plan seeks to build on the momentum by supporting this approach as a key element of the spatial ~~framework~~ principles and identifying which areas have potential for co-location. Co-location of industrial and non-industrial uses at Strategic Industrial Locations (SIL) is not supported, in line with draft New London Plan policy E5.

4.17 Opportunity Areas, Housing Zones and the route of Crossrail 2 could also be factors when considering co-location of facilities. These schemes are likely to intensify

[5] http://www.wrap.org.uk/content/wrap-and-circular-economy

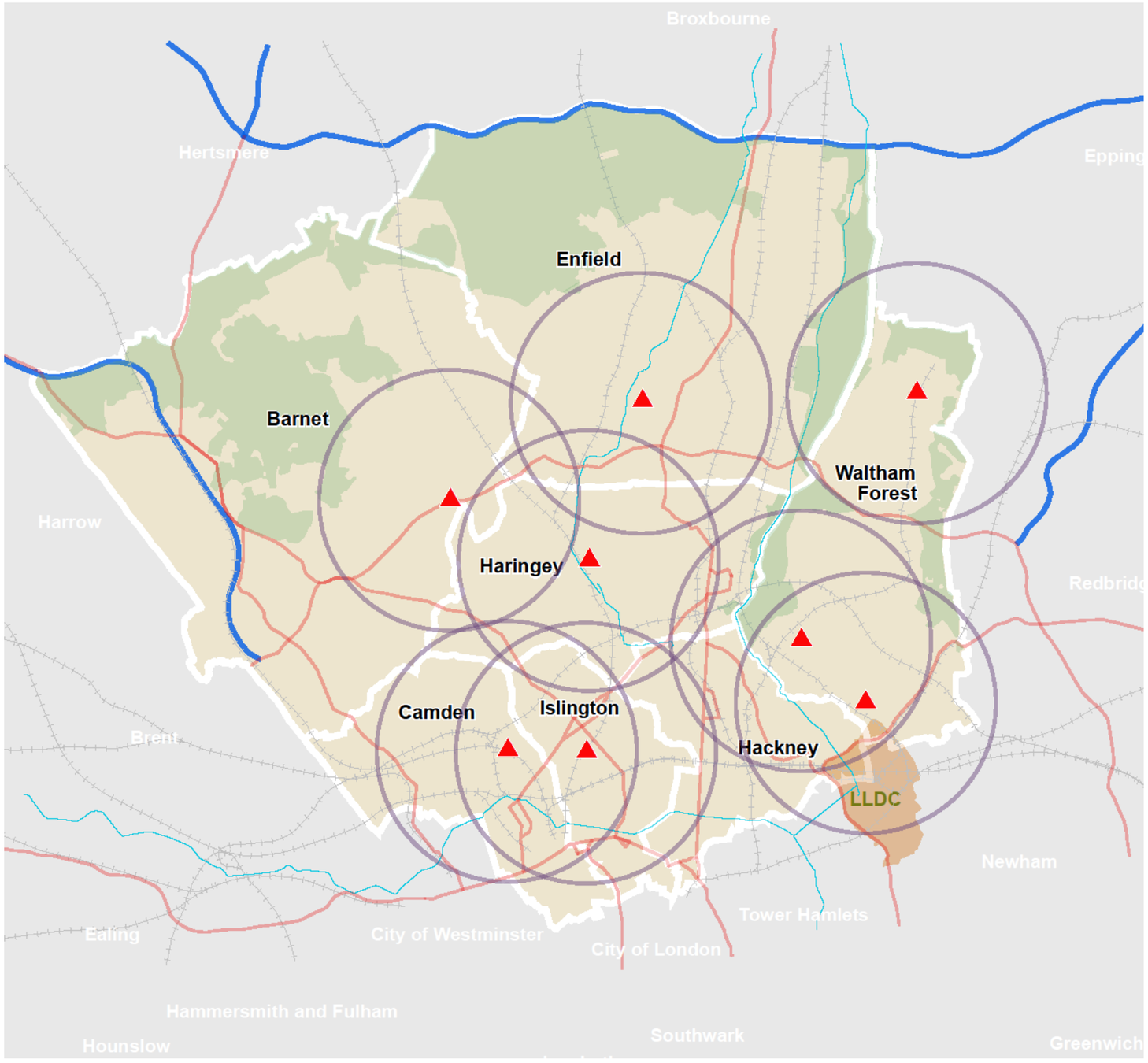
[6] Circular Economy Package http://ec.europa.eu/environment/circular-economy/index_en.htm

[7] https://www.lwarb.gov.uk/what-we-do/circular-london/circular-economy-route-map/

development, especially near to stations, and there are both resulting opportunities and threats for existing waste facilities and land identified as suitable for waste uses. The opportunities include waste facilities supplying energy to new developments and new waste facilities being incorporated into the schemes, for example an anaerobic digestion facility to deal with household food waste, and consolidation or relocation of waste uses. Risks include new uses displacing waste facilities due to incompatibility or impacts of construction. Protection for waste capacity through safeguarding, the agent of change principle and re-provision policies in the London Plan, Local Plans and NLWP Policy 1 will be a key policy tool under these circumstances.

New Co-location of facilities with complementary activities will be encouraged through Policy 2, which directs new waste uses to Priority Areas and provides a spatial focus towards land with similar existing uses away from sensitive receptors. Policy 3: Windfall Sites allows for opportunities of locating recycling facilities near to a reprocessing plant that could use the recyclate material. Policy 5 requires developers to consider the possible benefits of co-locating waste development as well as any potential cumulative impacts.

Figure 7: Current Re-use and Recycling Centres (RRC) in North London [revised]



Key

- RRC SItes
- 2 Mile Buffer around RRC Sites
- Strategic Roads
- Motorway
- Strategic Rail Network
- Canals and River Navigations
- Greenbelt

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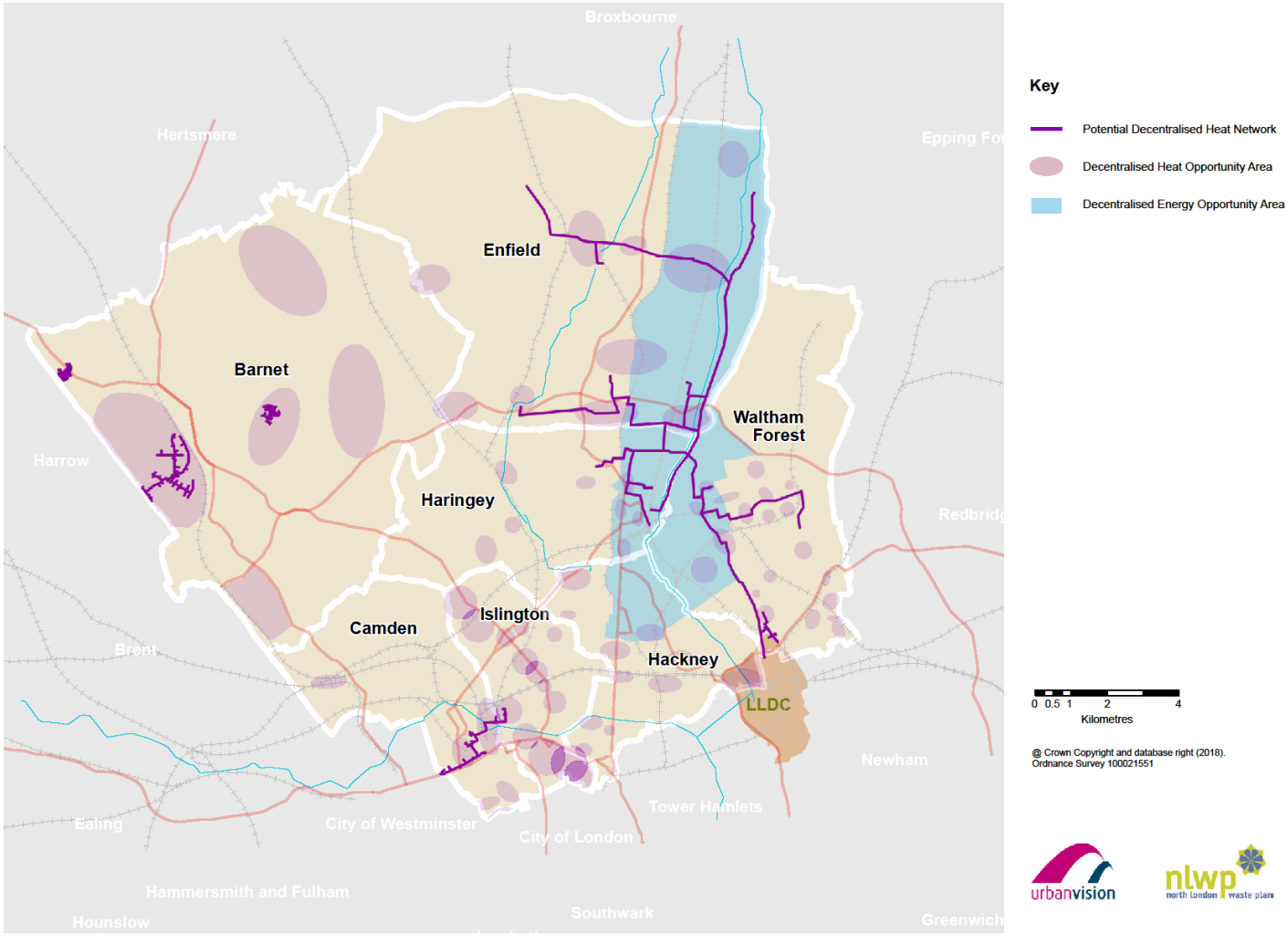
D. Provide opportunities for decentralised heat and energy networks

4.18 The NPPW recognises the benefits of co-location of waste facilities with end users of their energy outputs. The London Plan ~~supports the development of combined heat and power systems and provision of heat and power to surrounding consumers.~~ Policy S18 encourages proposals for materials and waste management sites where they contribute towards renewable energy generation and/or are linked to low emission combined heat and power and/or combined cooling heat and power (CHP is only acceptable where it will enable the delivery or extension of an area-wide heat network consistent with Policy S13 Part D1e). The same policy requires facilities generating energy from waste to meet, or to demonstrate that steps are in place to meet in the near future, a minimum performance of 400g of CO_2 equivalent per kilowatt hour of electricity produced.

4.19 The ~~Key~~ Heat and Energy Network Diagram (New Figure ~~6~~) shows where facilities could connect to a network ('decentralised heat opportunity area' and 'decentralised energy opportunity area'). There is already a relatively well-advanced plan for decentralised heat network in the Lee Valley and this offers the most promising and realistic possibility within the Plan area. The NLWP supports opportunities to develop combined heat and power networks on sites and areas, within the Lee Valley, south Barnet and elsewhere (see Figure 6), that not only have the ability to link in to the decentralised energy network but also have the potential for waste development with Combined Heat and Power. Policy 6 seeks to secure opportunities for the recovery of energy from waste where feasible.

Figure 8: Heat and Energy Networks in North London



E. Protect local amenity

2.9 The North London Waste Plan area includes important green space with many parks and larger areas such as Hampstead Heath, the Lee Valley Regional Park and part of Epping Forest. There are extensive areas of Green Belt in the outer areas and areas of agricultural land in Barnet and Enfield.

2.10 Enfield has identified Areas of Special Character where the Council will seek to preserve and enhance the essential character of the area, including landscape features such as woodlands, streams, designed parklands and enclosed farmland.

2.11 The Lee Valley contains an internationally important wetland habitat (Ramsar site and Special Protection Area (SPA)) as the reservoirs and old gravel pits support internationally important numbers of wintering birds as well as other nationally important species. In addition, the adjacent Epping Forest Special Area of Conservation (SAC), part of which lies in Waltham Forest, is important for a range of rare species, including mosses. There are six Sites of Special Scientific Interest (SSSI), 21 Local Nature Reserves and 307 Sites of Importance for Nature Conservation (SINC). The concentration of industrial land in the Lee Valley poses challenges for development to take into account key biodiversity issues set out in Borough Biodiversity Action Plans.

2.12 Throughout North London there are many areas and sites of historic interest including 172 conservation areas, over 14,000 listed buildings, registered landscapes, scheduled monuments, archaeological priority areas and as yet unknown archaeological remains. Protection for heritage assets is included in Local Plan policies and the sites/areas assessment criteria (see section 7) and policy 5.

2.13 The heavily developed and built up nature of North London coupled with differential values between competing land uses, and protected areas such as Green Belt presents a significant challenge in planning for waste. Expected development over the plan period will increase these pressures. For development which is perceived as likely to create more environmental risk and harm to the amenity of the local area, through factors such as noise, dust and increased traffic, the planning constraints near areas protected for their environmental value are greater.

2.14 Protection of groundwater is vital to prevent pollution of supplies of drinking water, while secondary aquifers are important in providing base flows to rivers. The Environment Agency has designated areas of source protection zones in a number of locations, particularly in the Lee Valley as well as implementing groundwater protection measures around boreholes in the area.

4.20 The protection of amenity is a well-established principle in the planning system. The NPPW requires the Boroughs to consider the likely impact on the local environment and on amenity when considering planning applications for waste facilities. Amenity includes aural (noise) and visual amenity such as open space, flora, and the characteristics of the locality including historic and architectural assets. Negative amenity impacts also include odour arising from the processing and type of waste being managed.

4.21 The site selection criteria set out in section 8 effectively direct waste management development to the most suitable sites/areas taking into account environmental and physical constraints, including locations where potential amenity impacts can be mitigated to an acceptable degree as well as considering cumulative impacts of additional waste facilities in already well developed areas and areas with a history of waste development. All proposed ~~sites and a~~Areas have been subject to assessment in the Sustainability Appraisal and the Habitats Regulation Assessment and the findings fed into the policy recommendations

4.22 The protection of local amenity has been considered during the assessment of sites/areas to identify those suitable for inclusion in the NLWP. Policy 5 sets out assessment criteria for waste management facilities and deals with protection of local amenity including information requirements to support applications for waste facilities. The policy's presumption for enclosed as opposed to open air facilities is also important to the application of this principle in terms of air quality and protecting the health of residents.

4.23 As outlined within Policy 1, proposals for expansion or intensification of existing waste uses should not unacceptably harm the amenity of occupiers of any existing developments. The onus will be upon the developer of the new proposed development to ensure appropriate mitigation measures are put in place under the agent of change principle.

4.24 Policy 3 seeks to ensure that proposals for waste management facilities do not constrain areas undergoing development change, such as new transport or economic regeneration initiatives.

F. Support sustainable modes of transport

2.18 North London benefits from good access to the strategic road network such as the M1 and M11 and the M25. The local road network is dominated by important radial routes to the centre of London and also includes the key orbital North Circular Road (A406) which bisects the Plan area from east to west. Parts of this network experience high levels of congestion at off-peak as well as peak hours, despite the fact that part of the area lies within the London Mayor's congestion charging zone.

2.16 Air quality within North London is uniformly poor as a result of high levels of nitrogen dioxide and dust (NO2 and PM10 respectively) that are mainly, but not exclusively, due to road traffic. As a result, all of the councils have declared Air Quality Management Areas (AQMA) covering each Borough.

2.19 Three main train lines terminate at Euston, St Pancras and Kings Cross, all in Camden. The North London Line (NLL) is a commuter and nationally important freight route providing movement of material across the area. There is a planning application to replace the railhead at Hendon in Barnet that currently transports waste out of London by a new facility just to its north. Proposals for the West London Orbital line will improve rail access to the west of the area.

2.20 In March 2016, the National Infrastructure Commission recommended that Crossrail 2, a proposed new rail line serving six of the NLWP constituent Boroughs, should be taken forward as a priority. Transport for London and Network Rail are currently developing the scheme. Whilst the final scheme and timetable is not yet known, there is a potential for Crossrail 2 to impact upon existing or future waste management sites during the NLWP period. This is discussed further in Section 8.

2.21 In addition the Grand Union Canal and the Lee Navigation run through the area and provide sufficient draught to allow light cargo movements to and from industrial and other facilities close to a number of wharves along each waterway.

4.25 The NPPW and the London Plan require Boroughs to identify sites/areas with the potential to utilise modes of transport other than road transport. As Figure 6 shows, North London is well served by road, rail and waterway networks and waste is currently transported into, out of and around North London by both road and rail. But like many industry sectors, road is the main mode of transport for the movement of waste. There are potential opportunities for waste sites to better utilise sustainable modes of transport such as rail and waterways. Movement of waste via more sustainable transport methods is duly supported in line with ~~Objective~~ STRATEGIC OBJECTIVE 7, although this may not always be practicable, especially when costs associated with investment in wharfs and rail sidings and other infrastructure which may be necessary before waste can be moved along the canal or rail network may not be economically viable, especially for smaller facilities. North London currently has one rail linked waste site (at Hendon) supporting the requirements of the NLWA, however this site is due to be redeveloped as part of the Brent Cross Cricklewood regeneration project and the NLWA's need for this railhead has changed. This is reflected in a new replacement waste transfer station (approved by Barnet Council in September 2018). A replacement rail based freight facility has also been approved as part of the Brent Cross Cricklewood regeneration scheme under planning permission 17/5761/EIA, which permits the transfer of aggregate and non-putrescible construction waste by rail. This rail transfer facility was brought into

operation in March 2020.~~There is a planning application for replacement rail based depot with a different function under consideration.~~ There is also a wharf on the Lee Navigation which potentially could provide future opportunities for transportation by water at Edmonton EcoPark.

4.26 Road transport will continue to be the principal method of transporting waste in North London, particularly over shorter distances where this is more flexible and cost effective. The efficient use of transport networks combined with good logistics and operational practices can make a significant contribution towards the level of transport sustainability achieved. The transportation of waste as well as other traffic movements to and from sites can impact on amenity along the routes used. Policy 5 will seek to minimise such impacts where possible, for example through the use of low emission vehicles. Access to transport networks including sustainable transport modes was considered when assessing the suitability of new sites and areas. Rail and ~~road~~ water transport is particularly desirable when waste is travelling long distances. Policy 5 considers sustainable transport modes in planning decisions.

5. Current waste management in North London

5.1 This section looks at the current picture of waste management in North London, including the amount of waste generated, how and where it is currently managed; future waste arisings; the currentexisting capacity, types and location of facilities; capacity gaps; and how North London's waste will be managed over the plan period. how each waste stream is managed, key targets and cross-boundary movements of waste.

North London Waste Data Study

5.2 The Waste Data Study was first prepared in July 2014 and updated in July 2015 to inform the Draft NLWP. A further update in 2019~~8~~ accompanieds ~~this~~ the Proposed Submission Plan. All versions of the Data Study are available to view on NLWP website (www.nlwp.net). The Waste Data Study is in three parts as shown below, with the date of the most recent version provided in brackets:

- Part One: North London Waste Arisings (2019~~8~~)
- Part Two: North London Waste Capacity (2019~~8~~)
- Part Three: North London Sites Schedule (2019~~8~~)

Waste generated in North London

5.3 Table 2 below shows the amount of waste generated in North London for the main waste streams using the latest data from 2016. Waste arisings vary from year to year and these figures represent a snapshot in time. Figure 8 shows the proportion of each waste stream as a percentage of the total waste in North London[8].

New A Data Study Addendum (2020) was prepared to support the Main Modifications to the NLWP. The Data Study Addendum proposes modifications to the way data is presented in the NLWP so that the reader can more readily follow the line of justification and reasoning behind the approach to waste management in North London.

[8] The data is taken from the Waste Data Study (2019~~6~~)

5.4 Table 2 below shows the amount of waste generated in North London for the main waste streams using ~~the latest~~baseline data from 2016. Waste arisings vary from year to year and these figures represent a snapshot in time. Figure 8 shows the proportion of each waste stream as a percentage of the total waste in North London[9].

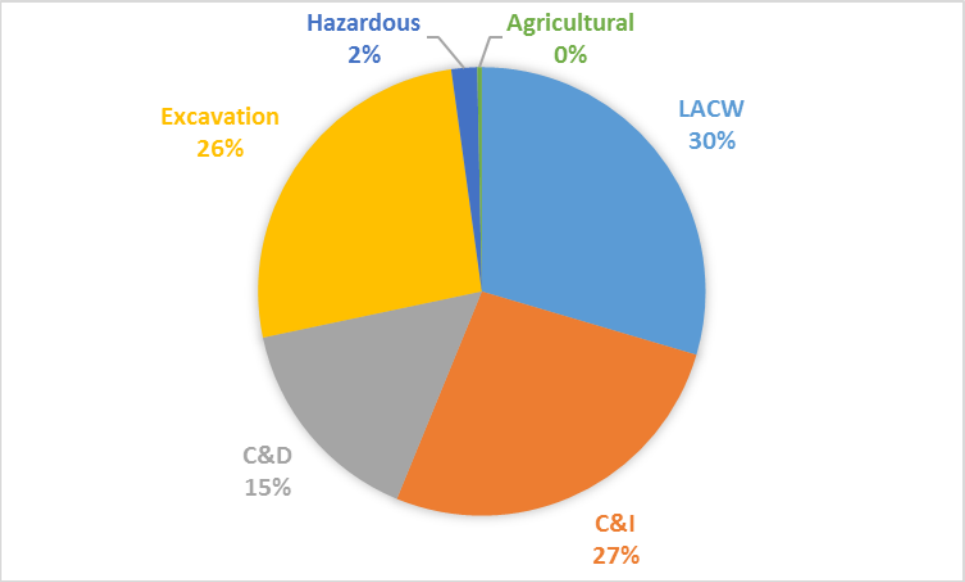
Table 1: Amount of Waste Generated in North London, 2016

Local Authority Collected Waste (LACW)	845,776
Commercial and Industrial Waste (C&I)	762,301
Construction and Demolition Waste (C&D)	443,180
Agricultural Waste	9,223
Hazardous waste	534,420
Excavation Waste	747,242
TOTAL	**2,861,062**

Source: North London Waste Data Study Update 2016

Figure ~~8~~9: Waste arisings in North London 2016

[9] The data is taken from the Waste Data Study (2019~~6~~)



Source: North London Waste Data Study ~~Update~~ 2019~~8~~

How North London's waste is currently managed

New Around 66% of waste generated in North London is managed in North London, excluding excavation wastel. The amounts of North London's waste managed within North London and elsewhere is set out in Table 4. This section sets out how and where each waste stream is currently managed.

Table 2: The amount of North London's waste managed in North London and elsewhere (2016) ~~Waste recorded as exported from North London to landfill 2011-2016~~

Waste stream	Waste arising	Amount managed in North London	Amount managed elsewhere in London	Amount exported to landfill outside London	Amount exported to other facilities outside London
LACW	845,776	718,900	1,000	68,900	56,900
C&I	762,301	402,900	34,600	251,600	73,000
C&D	443,180	248,000	108,225	30,200	31,000
Hazardous	53,420	313	12,663	8,557	31,887

(HWDI)					
Proportion		66%	7.5%	17%	9%
Excavation	747,242	52,523	335,862	265,415	82,463
Proportion		7%	45%	35.5%	11%

Source: Waste Data Interrogator (WDI) and Hazardous Waste Data Interrogator (HWDI)

Local Authority Collected Waste

5.9 The data for this waste stream is the most reliable. Local Authority Collected Waste (LACW) is reported annually by the North London Waste Authority (NLWA) and data from all waste authorities are published by government along with statistics. In North London, around ~~850~~845,7~~0~~00 tonnes of LACW was collected in 2016/17[10]. Of this, approximately 224,500(27~~6~~%) was recycled, reused or composted, below the 30% London average. Of the remaining LACW, 541,300 (64~~0~~%) was sent to NLWA's energy-from-waste facility at Edmonton (above the London average of 60%) and 68,900 (8~~12~~%) was sent to landfill outside of North London (below the London average of 12.5%). For household waste only the recycling rate was 32% which is just below the London average of 33%.

5.10 The NLWA has reported an increase in recycling performance for household waste from 23% in 2006/7 to 32~~11~~% by 2016/17. The percentage of waste going to landfill fell from 36% in 2006/07 to 8% in 2016/17. ~~2017/18 This is lower than the national average of 43.7% but in line with the London average of around 33%.~~ There are a number of factors which contribute towards lower recycling rates in London than the country as a whole. These include: rapid population growth; a greater transient population than anywhere else in the UK; the greater proportion of flats compared to houses which presents challenges for setting up collection systems for recyclable waste; and proportionately fewer gardens generating lower level of green waste for recycling.

[10] Figures from the NLWA Annual Monitoring Report 2016-17 and ENV18 - Local authority collected waste: annual results tables

~~11~~ ~~North London Waste Authority Annual Report 2017/18~~

Commercial and Industrial Waste

5.17 The Waste Data Study has used two methods to identify ~~and project~~ C&I waste arisings. The first is to use data from the Defra C&I Waste Survey 2009 in line with the London Plan to assess the management routes of North London's C&I waste. The second is to use the ~~new~~ method based on published data from the Environment Agency's Waste Data Interrogator (WDI), introduced in 2014[12] ~~for calculating C&I waste as introduced following the withdrawal of the Defra C&I surveys which uses published data from the EA's WDI~~. The Boroughs have used the 2014 'WDI methodology' for this plan. This ~~new~~ method of calculation indicates that around 760,000 tonnes of C&I waste was generated in North London in 2016. Of this, 335,400 tonnes (44%) of C&I waste ~~is~~ was recycled, reused or composted while 251,600 tonnes (33%) of this waste stream ~~is~~ was sent to landfill and land recovery. Around 29,600 tonnes (17%) was sent for thermal treatment with energy recovery and a small proportion (6%) of C&I ~~is~~ was sent for non ~~-~~thermal treatment. A high proportion of this waste (around 43%) is currently exported from London. ~~with the remainder (17%) sent for thermal treatment with energy recovery~~. ~~It should be noted that potential reliance on landfill will drop to 10% by 2030 in order to achieve EU statutory targets with recycling and reuse levels increasing to 65%.~~

[12] New Methodology to Estimate Waste Generation by the Commercial and Industrial Sector in England, DEFRA August 2014

Construction, Demolition and Excavation Waste

5.21 Local planning policies and development industry practice mean a lot of C&D material is managed on site and does not enter the waste stream. A total of 443,180 tonnes of C&D waste and 747,243 tonnes of excavation waste was produced in North London in 2016. The largest proportion of C&D waste arising in North London is managed via recycling (73%) and treatment (20%) facilities, with 7% sent directly to landfill. Recycling rates of C&D waste are high due to the nature and value of the material and most of this takes place in North London or elsewhere in London. Excavation materials are primarily disposed of outside North London directly to landfill (53%) with the remainder managed through transfer stations (28%) or sent for treatment (19%).

Hazardous Waste

5.22 A total of 53,420 tonnes of hazardous waste was produced in 2016, of this waste 40% was managed at treatment facilities, of which the majority was exported for treatment outside of North London. The next most common method of management was recovery (20%), with a further 16% being managed at landfill. Of the total hazardous waste arisings, 53,107 tonnes (99.4%) of waste was exported out of North London for management. It is not unusual for hazardous waste to travel outside the area to specialist facilities which tend to have a wider catchment area.

Agricultural Waste

5.24 A total of 9,223 tonnes of Agricultural waste was produced in 2016, with only 125 tonnes being identified as being managed off site. The majority of agricultural waste arisings are managed within the limited number of farm holdings within the Plan area, with a very small amount managed offsite through commercial waste facilities. As such, the NLWP does not seek to identify sites for additional facilities to manage this waste stream; any facilities which do come forward on farm land would be considered against Policy 3 'Windfall sites'.

Low Level Non-Nuclear Radioactive Waste

5.25 The very small amount of Low Level Non-Nuclear Radioactive Waste (LLW) arising in North London, mainly from hospitals, is currently managed outside of the area in specialist facilities. Records of LLW in the sub-region indicate that there are currently 16 sites producing LLW as waste water, with a number of the amounts generated being below the reporting threshold, which is measured in terms of radioactivity.

Waste Water and Sewage Sludge

5.26 Waste Water Treatment Works in North London are operated by Thames Water. The main Thames Water Waste Water/sewage treatment facility in North London is Deephams Sewage Treatment Works (STW), which is the ninth largest in England. The site is to be retained and improved for waste water use and planning permission has been granted for an upgrade to the effluent ~~sewage sludge~~ treatment stream. Thames Water anticipates that the recently constructed ~~approved~~ upgrade to Deephams STW will provide sufficient effluent treatment capacity to meet their needs into the next decade ~~during the plan period~~. However, this will be reviewed in future AMP periods to ensure ongoing capacity in relation to population growth. Further details can be found in section 7~~8~~.

Cross Boundary Movements (exports and imports)

5.8 ~~Conversely,~~ North London does not have all the types of facilities necessary to manage all the sub-types of waste arising within the main ~~categories~~ waste streams shown in Table 2. For example, there are few specialist hazardous waste facilities and no landfill sites in North London and so waste which requires these types of facilities will continue to be exported. Exports of waste arising in North London will need to be balanced out by an equivalent amount of additional capacity within North London. ~~North London will therefore need to identify sufficient capacity to manage the equivalent amount of this exported waste within its boundary.~~

5.29 Some of this capacity will be provided by existing facilities which import waste from outside North London. In 2016, around 1 million tonnes of waste was imported in to North London. Most of the imported waste comes from immediate neighbours in Greater London, the South East and East of England and is managed in transfer stations, treatment facilities and metal recycling sites. ~~Some~~ The type of facilities in North London ~~have~~with a wider-than-local catchment area ~~and manage waste from outside North London. This~~ include recycling and treatment facilities, in particular metal recycling and end of life vehicle (ELV) facilities as well as facilities for the processing of CDE in~~-~~to recycled aggregate products for resale. Waste will continue to be imported into North London over the plan period in line with market demands.~~The extra capacity contributes to achieving net self-sufficiency, or managing the equivalent of the overall quantity of waste within the main categories for North London and London as a whole.~~

5.27 In 2016, around 1.4 million~~1,201.964~~ tonnes of waste was recorded as exported from North London, 675,788 tonnes ~~56%~~ of which went to landfill. Most of the waste deposited to landfill was excavation waste (65%) followed by LACW/C&I (35%). Exports of LACW to landfill ~~in the LACW/C&I category~~ have been steadily declining in recent years, ~~however an increase was shown in 2016. This is consistent with~~ in line with the waste strategies of the London Mayor and the North London Waste Authority which aim to reduce the amount of waste going to landfill. ~~Therefore the increase in 2016 of exports to landfill in this category can probably be attributed to commercial and industrial waste, although the datadoes not identify why this has occurred.~~ Data for hazardous waste exports to landfill is shown from both the Waste Data Interrogator (WDI) and the Hazardous Waste data Interrogator (HWDI). The HWDI is the more accurate of the two for hazardous waste, but the total exports to landfill figure is taken from the WDI only. Exports of CD&E waste generally follow patterns of waste arising, so when more CD&E waste is generated, more is exported. ~~This pattern is shown in Table 4 and Figure 10 below.~~

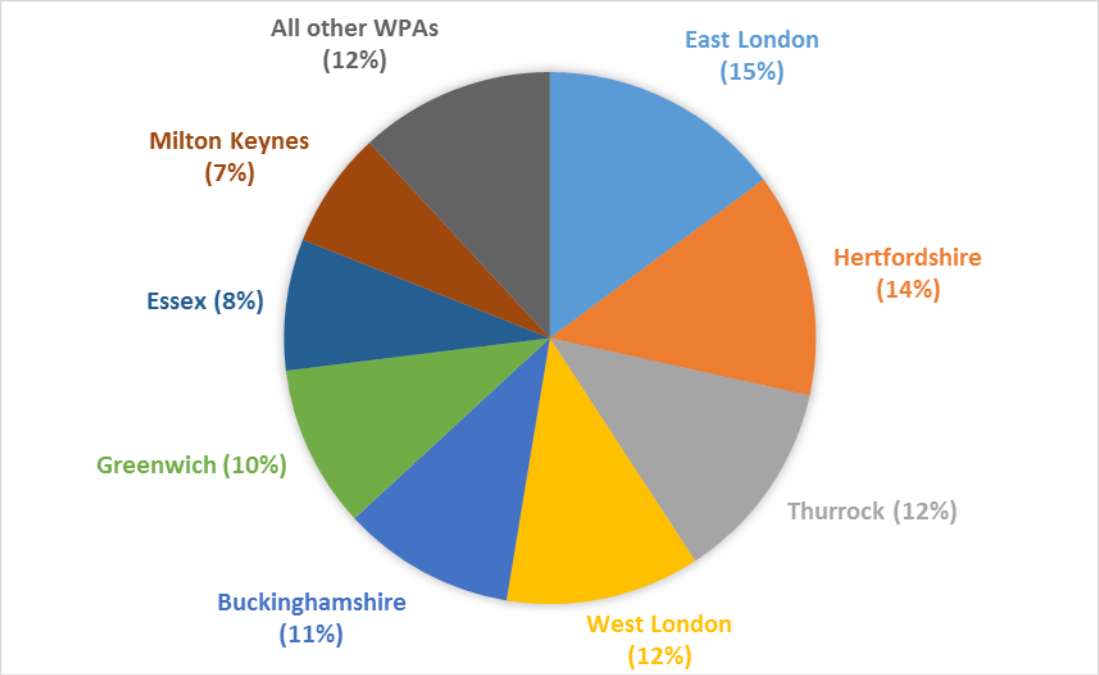
New Local planning authorities have a duty to cooperate with each other on strategic matters that cross administrative boundaries. Exports of waste from one waste planning authority to another is a strategic cross-boundary matter and is an important consideration in assessing the effectiveness of the NLWP. It is therefore important to understand the destination of North London's waste exports and to understand any issues which could prevent similar amounts of waste being exported in the future.

New Although North London is planning for capacity to meet the equivalent of 100% of its waste arisings, North London has no landfill sites and is not planning to open any landfill sites. This means that waste arising in London which cannot be recycled or recovered and can only be disposed of to landfill will continue to do so. Table 6 identifies the amount of waste which is expected to be disposed of to landfill over the plan period and this will form part of the annual monitoring to ensure that duty to co-operate engagement takes place if there are significant changes from current and anticipated waste exports to landfill.

New It should be noted that exports from and imports into North London are not a measure of North London's net self-sufficiency. Net self-sufficiency means providing enough waste management capacity to manage the equivalent of the waste need in North London, while recognising that some imports and exports will continue. For most waste streams, the market dictates where the waste is managed, however the more capacity there is within North London, the more opportunity for North London's waste to be managed within its own boundaries.

5.28 During 2013-2016 waste exports from North London were deposited in more than 70 different waste planning authority areas but the majority (88%) went to eight main destinations. These are shown in the Figure 11 below:

Figure ~~9~~10: ~~Distributions~~ Destinations of Waste Exports from North London



Source: WDI 2013-2016

5.30 As part of discharging the 'duty to co-operate', the North London Boroughs have contacted all waste planning authorities (WPA) who receive waste from North London to identify any issues which may prevent waste movements continuing during the plan period. A Report on the duty to co-operate, issues identified and next stages accompanies this Plan and is available on the NLWP website.

7.6 In particular, ~~T~~the North London Boroughs have engaged with each of the main recipients of North London's waste to landfill and identified if there are planning reasons why similar exports of waste cannot continue over the plan period, for example the planned closure of a site. ~~*North London Exports to Landfill 2017-2032 (2018)*. there are sites and available void space in London, South East and East of England to take North London's estimated waste exports to 2035. The Boroughs will continue to co-operate with waste planning authorities who receive North London's waste, and mechanisms for monitoring waste movements after the NLWP is adopted are set out in in section 10.~~

5.31 Engagement to date has identified a constraint to the continuation of waste exports to landfill from North London relating to the scheduled closure of some landfill sites during the plan period~~. Details can be found in the paper, Exports to Landfill 2017-~~

~~2035, on the NLWP website (www.nlwp.net)~~, though the operation of some of these sites may be extended beyond their currently permitted end date. This work is set out in the Duty to Co-operate Report.

5.32 ~~Nonetheless, as set out in the exports to landfill paper, alternative capacity at other potential destinations has been identified for the amount of waste currently being exported to those sites earmarked for closure during the plan period.~~ It is recognised that non-hazardous landfill capacity in the wider south east is declining and no new non-hazardous landfill sites are being put forward by waste operators. A small number of new inert waste sites are being put forward in former mineral works. The lack of landfill capacity in the wider south east is an issue for all WPAs preparing plans and there is a continuing need to plan to manage waste further up the waste hierarchy to help reduce the need for landfill capacity. ~~The paper shows that~~ ~~T~~there ~~are both~~ is opportunity for the market to find alternative ~~destinations~~ sites and adequate void space in London, South East and East of England ~~for~~to take North London's 'homeless' waste ~~in the short term~~between 2018 and 2035. ~~In the longer term, beneficial use of excavation waste and the Circular Economy Statements will asisist the North London Boroughs to reduce exports of waste to landfill and monitor the destinations of waste exports.~~ The destination of waste is largely dependent on market forces and therefore it is not possible to identify specific alternative destinations where North London's waste will go after the closure of landfill sites during the plan period. The North London Boroughs have established that there is opportunity for the market to find alternative destinations in the wider south east for any of North London's 'homeless' waste in the short term. In the longer term, beneficial use of excavation waste and the Circular Economy Statements will assist the North London Boroughs to reduce exports of waste to landfill and monitor the destinations of waste exports.

5.33 A further constraint for the continued export of waste has been identified with regard to hazardous waste, namely a lack of detailed data on where it ends up. This type of waste is managed in specialist facilities which have wide catchment areas and therefore may not be local to the source of the waste. North London has ~~one~~ hazardous waste ~~treatment facility with a~~ capacity of around 4,250 ~~3,600~~ tonnes per annum, mainly ~~and two recycling facilities; one for metals and one~~ for end of life vehicles ~~handling around 2,500 tonnes per annum between them.~~ The treatment facilities handle a small proportion of North London's hazardous waste (~~less than 1~~around 8% ~~in 2016~~) while the rest (~~99.4~~92%) is exported. ~~In addition, some facilities, whilst not classified as hazardous waste facilities, are permitted to manage a certain amount of hazardous waste alongside non hazardous wastes. These include car breakers and metal recycling sites, WEEE sites as well as RRCs which will accept, for example, paints and batteries which require specialist treatment and disposal.~~

5.34 While the export of the majority of hazardous waste to the most appropriate specialist facilities is likely to continue, current data collection methods do not identify the hazardous waste facilities in question. No planning issues have been identified

which will prevent North London's hazardous waste continuing to be managed at ~~these~~ specialist hazardous facilities in any of the areas which receive significant amounts of hazardous waste exports from North London. ~~However, T~~the ~~boroughs will continue to~~ monitor ~~engage with the Environment Agency and waste planning authorities in receipt of hazardous waste~~ exports ~~from North London and engage with recipient authorities when and if there are any substantial changes.~~, ~~including seeking to identify any constraints to the continued export of this waste. Should any constraints come to light, such as anticipated closure of a facility, the boroughs will seek to identify potential new destinations with capacity for managing compensatory amounts. The North London Boroughs will pursue agreement on this matter with recipient waste planning authorities through a statement of common ground.~~

5.35 The boroughs will continue to monitor hazardous waste exports from North London and engage with waste planning authorities who receive strategic amounts of North London's waste when and if there are any substantial changes which may affect waste planning in their area. ~~co-operate with relevant authorities on matters of strategic waste planning throughout the preparation of the NLWP and once the Plan is adopted.~~

6 Future Waste Management Requirements

Context

6.1 In line with the NPPW and the London Plan, the NLWP must identify sufficient waste management capacity to meet the identified waste management needs of North London over the plan period.

6.2 It follows that a key part of the development of the NLWP is to identify how much waste will be produced during the plan period, how this will be managed, what capacity is required and whether there is sufficient capacity already available. The NLWP must also consider how changes in the waste management behaviours, practices and technologies may influence this.

Targets for North London's waste management ~~managed within North London~~

6.3 The North London Boroughs have statutory duties to meet recycling and recovery targets and the NLWP will need to be ambitious in order to achieve European Union, national, regional and local targets. These targets taken from the London Plan (March 2021) are as follows:

Table 3: Recycling and Recovery Targets with 2016 Baseline

Waste stream	Target	2016 baseline
LACW	~~50% recycling for LACW by 2025~~ ~~(c~~Contributing towards 65% recycling of municipal waste by 2030~~)~~	2~~79~~%
C&I	~~75% recycling by 2030~~ ~~(c~~Contributing towards 65% recycling of municipal waste by 2030~~)~~	44~~52~~%
C&D	95% reuse/recycling/recovery ~~by 2020~~	~~50-60~~93%
Excavation	95% beneficial use	Not known
Biodegradable or recyclable waste	Zero biodegradable or recyclable waste to landfill by 2026	Not known

Hazardous	Included in LACW, C&I and C&D targets	N/A

Local Authority Collected Waste

5.11 The North London Boroughs and the NLWA are committed to achieving the 50% recycling by 2025 target set out in ~~the Joint Municipal Waste Management strategy and~~ the May~~t~~or's Environment Strategy~~London Plan~~. The North London Boroughs, together with the NLWA, are beginning a renewed drive to increase recycling including looking at ways to standardise collection regimes. In addition, the London Waste and Recycling Board (LWARB) works with London Boroughs to increase recycling rates and supports waste authorities in improving waste management services.

5.12 The NLWA's long term waste management solution is based upon the continued use of the existing Edmonton facility until 2025 and the development of a new energy recovery facility on the same site to be operational from 2025 onwards. Further information on how it has informed the NLWP is set out in section 8.

5.13 The European Commission has put forward a Circular Economy Package'[13]. This includes a 65% recycling target for municipal waste (LACW and C&I) by 2030. Notwithstanding the UK leaving the EU, the UK has signed up to delivering these targets as part of Brexit. The Circular Economy Package (CEP) recycling target of 65% municipal waste by 2030 has been superseded by the London Environment Strategy (LES) published in May 2018 in time to be incorporated into the NLWP. The LES aims to achieve 65% recycling from London's 'municipal' waste by 2030; this will be achieved through a 50% recycling rate from LACW by 2025 (LES Policy 7.2.1) and 75% from business waste by 2030 (LES policy 7.2.2). This is a collective target across the whole of London. The LES therefore goes further than the CEP by bringing forward London's LACW recycling target to 2025. The LES states that the Mayor expects waste authorities to collectively achieve a 50 per cent LACW recycling target by 2025 and aspire to achieve 45% household waste recycling by 2025 and 50% by 2030. Responsibility falls largely to London Boroughs in their capacity as waste collection and waste disposal authorities. The NLWA are expected to contribute to the Mayor's targets and produce a waste strategy to show they are acting in conformity with the LES policies and proposals (see

[13] European Commission Circular Economy Package http://ec.europa.eu/environment/circular-economy/index_en.htm

LES Box 36). ~~These revised targets have been built into NLWP waste modelling work as part of the revisions to the Data Study, however the new targets have only been applied to C&I waste as it is assumed no change to the projections of the NLWA at this time.~~

5.14 Waste minimisation seeks to reduce the amount of waste produced by targeting particular behaviours and practices. As shown in Figure 5 in section 3, preventing waste generation in the first place sits at the top of the waste hierarchy.

5.15 The London Environment Strategy prioritises resource efficiency to significantly reduce waste and promotes reuse and repair. LWARB's 'Circular Economy route map' exemplifies a move towards a more resource efficient waste service. The route map builds on the 5 focus areas (the built environment, food, textiles, electricals and plastics) and sets out 8 cross cutting themes to ensure the benefits of a circular economy can achieved across a number of sectors.

5.16 The North London Boroughs co-ordinate waste prevention activity through the NLWA's waste prevention plan. The NLWA run waste minimisation activities for schools and communities. These are delivered through the NLWA's "Wise up to Waste" programme and currently focuses on three priority areas: reducing food waste, encouraging a reduction of furniture waste by increasing re-use, and reducing textile waste (both clothing and non-clothing).

~~C&I~~Commercial and Industrial Waste

5.18 Through the London Environment Strategy, the Mayor is seeking to make London a zero waste city with no biodegradable or recyclable waste sent to landfill by 2026~~2030~~ and by aiming to achieve 65% recycling from London's 'municipal' waste by 2030~~,~~; this will be achieved through a 50% recycling rate from LACW by 2025 (Policy 7.2.1) and 75% from business waste by 2030 (policy 7.2.2). This is a collective target across the whole of London. The Mayor has also said that he does not expect there to be a need for any new energy from waste capacity if existing planned sites are completed (policy 7.3.2.b). The Mayor has also indicated that he will use his powers to ensure there are sufficient sites to manage London's waste. The Environment Strategy embraces the ~~ideals~~ principles of the Circular Economy requiring manufacturers to design products to generate less waste and which can be easily repaired, reused and recycled, and the strategy encourages the development of business to facilitate this.

5.19 There are a number of national schemes which promote waste minimisation. This includes the Courtauld Commitment which aims to reduce food waste, grocery packaging and product waste, both in the home and the grocery sector by 20%, the Mayor's Environment Strategy seeks to go further by setting a target of 50% reduction per head by 2030.

5.20 European Commission Circular Economy Package[14] include increased recycling targets for packaging materials in the commercial and industrial sectors of 65% by 2025 and 75% by 2030. The UK has committed to delivering the Circular Economy targets as part of Brexit.

Construction, Demolition and Excavation Waste

5.21 The draft New London Plan(~~July~~December 2019) includes a target of 95% reuse/recycling/recovery of C&D waste and 95% beneficial use of excavation waste.~~CD&E by 2020~~. Beneficial use could include using excavated material within the development, or in habitat creation, flood defences or landfill restoration. Preference should be given to using the materials on-site or within local projects.

Hazardous Waste

5.23 There are a number of initiatives in place to ensure better implementation of EU waste legislation, including on hazardous waste. None of the circular economy proposals referred to 5.13 announced by the European Commission in December 2015 will affect the NLWP strategy for hazardous waste.

Options for ~~managing~~ modelling North London's future waste arisings

6.4 In accordance with the NPPF (paragraph 35) to ensure the NLWP is justified, a range of options were tested as part of the consideration of reasonable alternatives for ~~managing~~ modelling North London's waste arisings over the plan period. Analysis of and consultation on these options led ~~leading~~ to the selection of ~~the~~ a preferred strategy. These options seek to reflect the effects of future economic activity, including fiscal, financial and legislative factors such as landfill tax charges driving waste away from landfill, and financial incentives such as ROCs (Renewable Obligations Certificates) increasing the competitiveness of energy recovery. Employment growth is based on demographic projections of employment in the London Plan using North London Borough employment projections and is applied to the growth rates for the C&I and CD&E streams. For the LACW stream, the NLWA have provided the projections which have been used to inform the proposed application for a Development Consent Order to enable them to develop and operate an Energy Recovery Facility (ERF) at the Edmonton EcoPark from 2026. The scenarios considered are summarised in New Table, with the

[14] http://ec.europa.eu/environment/circular-economy/index_en.htm

preferred scenarios highlighted. ~~looked at a range of options for recycling from maintaining the status quo to seeking to maximise opportunities for recycling in line with the targets set out in Table 5 above, the latter option being the most popular option and taken forward. Along with this a number of options were also considered in relation to waste growth over the plan period and what impact that would have on waste growth, again 3 approaches were modelled looking at no growth, growth in line with the London Plan (March 2016) for C&I and CDE waste – with LACW growth being in line with that of the NLWA for all options, a minimised growth was also modelled but was not considered in line with the growth planned for in the London Plan (March 2016), as such growth was modelled in line with the London Plan (March 2016).~~

Table 4: Options considered for forecasting North London's waste arisings and need

LACW	**C&I**	**C&D**	**Excavation**	**Hazardous**	**Agricultural**
Capacity options					
Meeting the London Plan apportionment	Meeting the London Plan apportionment	Baseline (no change)	Baseline (no change)	Baseline (no change)	Baseline (no change)
Net self-sufficiency	Net self-sufficiency	Net self-sufficiency	Managing as much as possible in North London	Net self-sufficiency	
Self-sufficiency	Self-sufficiency	Self-sufficiency		Self-sufficiency	
Growth Options					
	No growth (0% pa)	No growth (0% pa)	No growth (0% pa)	No growth (0% pa)	No growth (0% pa)
	Minimised growth (0.40% pa)	Minimised growth (0.40% pa)	Minimised growth (0.40% pa)	Minimised growth (0.40% pa)	

LACW	C&I	C&D	Excavation	Hazardous	Agricultural
NLWA Waste Forecasting Model[15]	Growth (0.81% pa)	Growth (0.81% pa)	Growth (0.81% pa)	Growth (0.81% pa)	
Management Options					
	Baseline (no change)	Baseline (no change)	Baseline (no change)	Baseline (no change)	Baseline (no change)
	Median 80% recycling by 2035 16% Energy Recovery by 2035 4% to Landfill by 2035	Median 85% recycling 9% treatment 6% landfill			

[15] The NLWA Forecasting Model is summarised here

LACW	C&I	C&D	Excavation	Hazardous	Agricultural
NLWA Forecasting model Central Scenario 44% recycling by 2035 (50% HH recycling by 2035) 55% Energy Recovery by 2035 1% landfill	Maximised 85% Recycling by 2035 12% Energy Recovery by 2035 3% to Landfill by 2035	Maximised 95% recycling / recovery / reuse 5% landfill	Maximised 95% beneficial use 5% landfill		

6.4 Further details of these options is available in NLWP Data Study 2. An Options Appraisal Report (2019~~8~~) has also been prepared which provides more detail on each of the options considered and provides information on the different scenarios including how much waste would be generated over the plan period (incorporating economic and population growth assumptions), how much waste could be managed within North London (~~capacity strategy~~net self-sufficiency options), and how this waste should be managed (management ~~strategy~~options) for each of the options considered. Meeting North London's LACW, C&I and C&D waste arisings, including hazardous waste, was the preferred net self-sufficiency option because it is compliant with national legislation on managing all main waste streams. In addition, it demonstrates to neighbouring authorities outside London that North London intends to manage as much of its own waste as possible and reduce exports. Growth of 0.81% was chosen as the preferred option because GLA evidence and projections anticipate substantial population and economic growth in London over the next few decades. Maximised

Recycling was chosen as the preferred option for the management strategy because it aligns with national, regional and local recycling targets. This option also means that more waste will be managed further up the waste hierarchy with more opportunity to divert waste away from landfill. ~~The preferred option identified in the Options Appraisal[16] has been carried through to the NLWP. The preferred option seeks to achieve growth in line with the London Plan (March 2016) and to deliver the targets set out in the Mayor's Environment Strategy.~~

~~**Chosen Approach**~~

6.5 The chosen approach for the NLWP following the option appraisal can be summarised as follows:

Chosen Approach for planning for North London's waste

Population/Economic Growth in line with London Plan forecasts

+ Maximising Recycling

+ Net self-sufficiency for LACW, ~~and~~ C&I and C&D by 2026 (including hazardous waste)~~and C&D by 2035~~

= Quantity of waste to be managed

6.6 It is considered that this approach provides the most robust modelling scenario to project future capacity gaps, taking account of existing/planned capacity, and waste management needs.

New The results of the modelling of the preferred strategy for waste arisings over the plan period is set out in Table 8 below. The baseline data for these projections are the waste arisings figures set out in Table 2 of this plan. These figures represent two sets of projections. The first is how North London's waste is most likely to be managed over the plan period, aligned with the levels in the waste hierarchy (see STRATEGIC OBJECTIVE 1). While some of North London's waste will still be exported for management or disposal to landfill, the aim of the NLWP is to deliver the equivalent capacity for LACW, C&I, C&D and hazardous waste within its administrative borders. Therefore Table 8 also shows the total amount of waste arising in North London which the Boroughs need to provide capacity for (net self-

~~[16] Available on the NLWP website~~

sufficiency). This is in line with STRATEGIC OBJECTIVE 3 which is to plan for net self-sufficiency by providing opportunities to manage as much as practicable of North London's waste within the Plan area. Prevention and re-use also have a part to play, but in terms of waste management capacity in North London, recovery and recycling will play the most substantial part.

New Table 8 sets out waste arisings over the plan period and how much of the total will need to be recycled to meet the Mayor's targets shown in Table 2. The LACW figures in Table 8 are taken from the NLWP data study which reflects the NLWA modelling. The NLWA model is based on achieving 50% household waste recycling. Over 80% of total LACW is household waste and the remainder is mostly business waste. The NLWA model assumes business waste recycling improves gradually over time as business waste recycling continues to be encouraged and recycling behaviours change. The combined household and business waste recycling rate in the NLWA model is 44%. In order to meet the Mayor's target of 65% recycling of municipal waste by 2030, around 85% of the 'municipal' portion of the C&I waste stream needs to be recycled. The 'municipal' portion of the C&I waste stream is estimated to be around two thirds of the total[17]. The recycling rates for the municipal portion of the C&I waste stream rise to 85% by 2030 which, together with household and business waste recycling in the LACW waste stream, achieves 65% recycling of municipal waste by 2030 in line with the Mayor's target. The C&D waste stream has a recycling rate of 95% and excavation waste a beneficial use rate of 95% in line with the London Plan targets.

Table 5: Projected arisings and management of North London's waste 2020-2035

Waste Stream	Facility Type	2020	2025	2030	2035
LACW	Recycling	418,169	424,049	430,280	436,824
LACW	Recovery (EfW), Treatment	566,872	572,856	579,725	587,352
LACW	Landfill	2,000	2,000	2,000	2,000

[17] Separate figures for municipal and other C&I waste are set out in the Data Study Addendum Appendix A: Waste arisings forecast scenario taken forward in the NLWP.

Waste Stream	Facility Type	2020	2025	2030	2035
Total LACW arisings (capacity required for net self-sufficiency)		**987,041**	**998,905**	**1,012,005**	**1,026,176**
C&I	Recycling	525,853	566,563	609,743	634,983
C&I	Recovery (EfW), Treatment	152,448	142,523	131,513	136,957
C&I	Landfill	109,139	110,951	112,726	117,392
Total C&I waste arisings (capacity required for net self-sufficiency)		**787,440**	**820,037**	**853,982**	**889,332**
C&D	Recycling	435,054	453,063	471,816	491,347
C&D	Landfill	22,742	23,683	24,664	25,685
Total C&D waste arisings (capacity required for net self-sufficiency)		**457,796**	**476,746**	**496,480**	**517,032**
Hazardous	Recycling	16,838	16,838	16,838	16,838
Hazardous	Recovery, Treatment	23,846	23,846	23,846	23,846
Hazardous	Landfill	12,737	12,737	12,737	12,737
Total Hazardous waste arisings (capacity required for net self-sufficiency)		**53,421**	**53,421**	**53,421**	**53,421**
Excavation	Beneficial use, Recycling, Treatment	733,294	763,647	795,257	828,176
Excavation	Landfill	38,594	40,192	41,856	43,588
Total Excavation waste arisings		**771,888**	**803,839**	**837,113**	**871,764**
Agricultural	Recycling	89	89	89	89
Agricultural	Recovery, Treatment	9,130	9,130	9,130	9,130
Agricultural	Landfill	4	4	4	4

Waste Stream	Facility Type	2020	2025	2030	2035
Total Agricultural waste arisings		9,223	9,223	9,223	9,223

Existing Capacity

5.5 Table 3 below ~~shows~~ summarises the existing (2016~~8~~) capacity of North London's waste management facilities ~~in North London~~ by type of facility and waste stream managed ~~and changes in available capacity at known dates when facilities come on stream/close~~. It identifies an existing waste management capacity of ~~around 4.4~~just over a million tonnes per annum of recycling/composting for the LACW and C&I waste streams, just under 600,000 tonnes per annum of energy recovery for LACW, around 630,000 tonnes per annum of recycling and treatment for CD&E waste, and about 4,250 tonnes of hazardous waste capacity. ~~reducing to around 3.8 million tonnes by 2035~~29 ~~as a result of known closure of some existing sites up to 2028~~[18]. Figure 9 shows the location of the facilities represented in Table 3 and a full list is in Appendix 1.

Table ~~3~~6: ~~Maximum~~ Existing Annual Capacity at Licensed Operational Waste Management Facilities ~~at the Start of the Plan Period and a key dates following changes in sites capacities~~

Type of capacity		Waste stream	Existing capacity (2016)
Management	Recycling / Composting / Treatment	LACW / C&I	1,062,424
		CD&E	633,436

~~[18] Some of the planned closures include sites affected by the redevelopment of Brent Cross. It is expected that Barnet will identify new sites for the relocation of these sites in line with the Planning Permission for this development~~

		Hazardous	4,252
	Energy Recovery	LACW / C&I	597,134
	Transfer	All	1,225,068
	Landfill	All	0

Source: Waste Data Interrogator and Hazardous Waste Data Interrogator 2012-2016

5.6 The London Plan defines the technologies and processes which constitute 'managing' waste and these have been applied to North London's facilities when calculating capacity. Only facilities which recycle and compost waste or recover energy from waste count towards waste 'management' in North London. Transfer Stations are therefore excluded from this total, although many facilities categorised as 'transfer stations' do some recycling and where recycling takes place at transfer stations this has been noted in the site profiles and added to the total in Table 3. ~~When considering the overall amount of waste generated identified in Table 2 against the current capacity of waste management facilities in North London identified in Table 3, there appears to be more than enough waste management capacity. However, this does not take into account the specialism of each type of facility or importantly, since North London is a net exporter of waste in terms of tonnage, imports to and exports from the area.~~

Changes to Capacity over the Plan Period

New Waste management capacity in North London will change over the plan period with some facilities moving or closing down and new facilities being built. This section sets out what we currently know about such changes.

Edmonton EcoPark

8.5 A Development Consent Order (DCO) has been approved by the Secretary of State for ~~the~~ a new Energy Recovery Facility (ERF) which will manage the treatment of the residual element of LACW during the NLWP plan period and beyond. The existing Edmonton EfW provides just under 600,000 tonnes of waste management capacity per annum and the new facility will provide around 700,000 tonnes per annum. This is an additional 100,000 tonnes which has been built into the calculation for the capacity gap.

8.6 The NLWA's DCO allows for the loss of the composting plant at the Edmonton EcoPark site in 2020 to make way for the new ERF facility to be built whilst maintaining the current EfW operation and the NLWA are not intending to build a replacement facility. This will result in a capacity loss of around 35,200 tonnes per annum. This has been built into the calculation of the capacity gap. The development also includes a Resource Recovery Facility (RRF) including a new Reuse and Recycling Centre (RRC), a relocated transfer hall and a bulky waste/fuel preparation facility on the site.

Powerday

8.10 Powerday in Enfield is an existing site currently operating as a Waste Transfer Station. Planning permission was granted for an upgrade to a Materials Recovery Facility (MRF) capable of handling 300,000 tonnes of C&I and C&D waste per annum and the new facility was opened in 2015. However, this increase in capacity has not yet happened and it is not clear if the planning permission will be implemented. Therefore this has not been added to the pipeline capacity, however throughput for the site will be monitored and if additional capacity comes online it will be used to close the capacity gap.

Loss and re-provision of existing waste management facilities

8.11 Where existing sites need to be relocated, compensatory capacity is required in order to comply with the London Plan, Borough Local Plans and, once adopted, the NLWP. It is known that some waste sites in North London will be redeveloped for other uses as part of the Brent Cross Cricklewood Regeneration scheme. ~~capacity will be lost during the plan period. Some of this capacity will be replaced within North London, some outside North London with a net loss to North London but not to London as a whole, and some is as yet unknown~~. ~~Where such issues are known and new sites have already been sought, this information has been fed in to the Plan process and~~ This information has been ~~given~~ highlighted in Schedule 1.

8.12 The ~~North London Boroughs are aware that the regeneration of~~ Brent Cross Cricklewood Regeneration Area~~redevelopment~~ (BXC) ~~is likely to affect~~ includes four existing waste sites, comprising a NLWA transfer station and three commercial operations. These are BAR3 PB Donoghue, BAR4 Hendon Transfer Station, BAR6 McGovern, and BAR7 Cripps Skips. These sites will be redeveloped under the ~~approved~~ planning permission for the regeneration of Brent Cross Cricklewood (Barnet planning application reference F/04687/13). The Hendon Rail Transfer Station (BAR 4) will be replaced ~~as part of the BXC development~~ with a new facility ~~on site S01 BA~~ to meet the NLWA's requirements; planning permission for a new Waste Transfer Station (WTS) at Geron Way was granted by Barnet Council in September 2018 (Barnet planning application reference 17/6714/EIA). The existing commercial facilities at BAR 6 and BAR 7 fall within the land required to deliver the early ~~first~~

Southern phase of the BXC regeneration which has commenced. ~~is expected to~~anticipated ~~will commence in the near term~~early 2018. ~~Replacement capacity for these sites will not be provided prior to their redevelopment and therefore replacement capacity will be sought outside of the BXC regeneration area on alternative sites / areas to be identified by the London Borough of Barnet by 2025 in line with the planning permission.~~ The BAR3 site is currently identified for redevelopment in Phase 4 of the BXC regeneration. It is planned that capacity at the waste facilities of BAR4, BAR6 and BAR7 and part of the capacity of BAR3 would be replaced by the new Waste Transfer Station (WTS) delivered as part of the Brent Cross Cricklewood Regeneration. The balance of replacement capacity for BAR3 would need to be identified prior to its redevelopment and the London Borough of Barnet will seek to provide replacement capacity within the borough. The Barnet Local Plan will identify potential sites. For the purposes of the plan, therefore, it is assumed there will be no loss of capacity for these facilities.

New Two facilities in Waltham Forest (GBN Services and Pulse Environmental) have closed and their capacity has been replaced in a new facility operated by GBN services in Enfield. While the capacity has moved to a different Borough, there is no loss of capacity for North London as a whole. The new GBN facility is newly built but has been designed with sufficient capacity to replace that lost at the two Waltham Forest facilities and therefore, for the purposes of the plan the capacity of these facilities is assumed to remain the same. The new facility may also be able to provide capacity on top of what has been replaced, and this will be monitored.

Meeting the Capacity Gap

6.7 The capacity gap is the difference between projected waste arisings (Table 8) and existing capacity (Table 3). Table 6 below sets out the capacity gap broken down in to 5 year periods over the NLWP plan period. It takes account of the known changes to capacity over the plan period, including the upgrading and loss of existing facilities. ~~The capacity gap is the difference between tonnage associated with existing and planned waste management capacity (see Table 3 – section 5) and the quantity of waste to be managed over the plan period (see the chosen approach set out above~~). North London can accommodate recycling, composting, treatment and recovery facilities to manage waste and so additional waste management capacity will be in the 'recycling' and 'recovery' tiers of the waste hierarchy in line with STRATEGIC OBJECTIVE 1. ~~This method identifies whether there is adequate or surplus capacity, or a requirement for additional facilities. Table 6 sets out the capacity gaps for each management route. Negative figures indicate a capacity gap and therefore the type of~~

~~management route for which capacity is sought over the plan period. The boxes that are not highlighted denote where 'surplus' capacity exists.~~

Table 7: Capacity gaps throughout the Plan period (tonnes)~~ – chosen option~~

LACW/C&I	2020	2025	2030	2035
Projections	1,774,481	1,818,942	1,865,987	1,915,508
Existing capacity – recycling/ composting	1,076,129	1,076,129	1,076,129	1,076,129
Existing and pipeline capacity - recovery	597,134	700,000	700,000	700,000
Loss of capacity - composting	-	35,200	35,200	35,200
Capacity Gap	**-101,218**	**-78,013**	**-125,058**	**-174,579**

C&D	2020	2025	2030	2035
Projections	457,796	476,746	496,480	517,032
Existing capacity	633,436	633,436	633,436	633,436
Additional pipeline capacity	0	0	0	0
Surplus capacity	**+175,640**	**+156,690**	**+136,956**	**+116,404**

Hazardous	2020	2025	2030	2035
Projections	53,421	53,421	53,421	53,421
Existing and pipeline capacity	4,252	4,252	4,252	4,252
Capacity Gap	**-49,169**	**-49,169**	**-49,169**	**-49,169**

New To meet the capacity gaps identified in Table 6, the North London Boroughs will seek opportunities for new capacity through intensification of existing sites and/or new facilities. The North London Boroughs contacted existing waste operators to find out if there are any current plans to upgrade or intensify their facilities (see chapter 8 and Policy 1).

6.8 In order to estimate how much land is required for plan-making purposes, the capacity gap has been converted into a land area requirement based on a typical throughput per hectare ~~The capacity gap figures in tonnage of waste have been converted to waste management land requirement using data from evidence gathered and evaluated on typical capacity and land take~~ for each type of facility. The amount of land required depends on the type of facility and the technology being used. New technologies may come forward during the plan period which have a higher throughput per hectare and so will require less land. The North London Boroughs want to ensure the best use of land in the area and this means maximising the capacity of a site while mitigating any environmental impacts. The land required is indicative only and new capacity will be monitored rather than land. Reference capacities are set out in ~~the table~~Table New below. Table 20 in section 7 of the Data Study Part 2 (2019~~8~~) ~~available on the website (www.nlwp.net)~~ provides a fuller explanation. Table 7 below sets out the amount of land required within North London to meet the capacity gaps identified in Table 6 for the chosen approach of net self-sufficiency for LACW, C&I and C&D waste streams. In order for net self-sufficiency to be achieved by 2026, in line with the London Plan, new capacity will need to be delivered by this date.

Table 8: Reference Capacities for Land Take for New Waste Facilities

Facility type	**Assumed tonnes per hectare**
Energy from waste (large scale)	165,000
Recycling (C+I & LACW)	128,000
Recycling (C+D)	100,000
Recycling (specialised – eg. metals)	50,000
Recycling (Hazardous)	10,000
Re-use	15,000
Composting	25,000

Treatment plant	50,000
Treatment Plant (Hazardous)	10,000

Table 9: ~~L~~Indicative land take requirements for meeting the capacity gap ~~net self-sufficiency for LACW, C&I and C&D (requirements for London Plant apportionment in brackets)~~

Waste Stream	Management type	Hectares
		2026
C&I/LACW	Recycling	1.5
Hazardous	Recycling/recovery/treatment	4.9
TOTAL land required in North London		**6.4**

6.9 ~~Although Table 7 identifies a need for recovery facilities for C&I waste, this need is immediate and declines over the plan period to when the Edmonton Energy Recovery Facility is completed. For this immediate need to be met facilities would need to be in place now, or at least in planning, which is not the case. Therefore it is highly probable that this need will not be met and that C&I waste requiring recovery will continue to be exported in the short term. As highlighted earlier the Mayor's Environment Strategy states that the Mayor does not want any additional energy from waste capacity over the plan period as existing sites should be able to meet the needs of all municipal waste arisings. The main need identified is for the provision of construction and demolition recycling facilities in order that the 95% recycling target for this waste stream can be achieved.~~ There is ~~also~~ a requirement ~~throughout~~ for additional recycling ~~facility~~ capacity to manage the increasing levels of recycled waste expected from the LACW/C&I waste stream reflecting the ~~75%~~ recycling ~~target in order to achieve the Environment Strategy target~~ of 65% from municipal waste (LACW and commercial waste). ~~A further 1ha is identified for additional treatment facilities for LACW, C&I and CDE.~~

6.10 A capacity gap equivalent to ~~two~~ around 4.9 hectares of land has been identified for meeting North London's hazardous waste management need over the plan period~~, a small requirement of less than 2,500 tonnes per annum has also been identified for recovery of hazardous waste, but this figure is considered too small to plan for~~. While the North London Boroughs support the provision of hazardous waste facilities in

appropriate locations, it is acknowledged that these facilities generally operate for a wider-than-local catchment area due to their specialist nature. The Boroughs will therefore work with the GLA and other boroughs across London to identify and meet a regional need.

6.11 ~~The Data Study concludes that over the NLWP plan period there are capacity gaps for C&I, CD&E and Hazardous waste, and that North London will require additional facilities to meet these. In relation to the gap for Hazardous waste, the North London Boroughs will contribute to the planning for hazardous waste facilities at a regional level and through the identification of areas within North London that may be suitable for hazardous waste facilities.~~ Additional land is not required to accommodate new facilities for Low Level Non-Nuclear Radioactive Waste (LLW), Agricultural Waste or Waste Water/Sewage Sludge during the plan period. ~~More information about how each waste stream will be managed can be found in the Provision for North London's Waste to 2035 (section 7).~~

New The following section sets out the process of identifying suitable locations for new waste capacity to meet the capacity gaps set out in Table 6.

8. Sites and Areas

8.1 This section sets out the approach to ensuring that there is ~~identifying~~ sufficient land for future waste management facilities in North London to ~~ensure~~ provide for the delivery of ~~the~~ North London's identified capacity requirements. Sections 3-6 of the National Planning Policy for Waste (NPPW) set out the approach Local Plans should take to identify future waste requirements over the plan period and this has been used to help develop the approach to identifying future locations for waste development in North London. ~~Assessment criteria have been developed using waste planning policy and in consultation with key stakeholders in a series of focus groups.~~

New At the core of waste planning is the requirement for waste planning authorities to "prepare Local Plans which identify sufficient opportunities to meet the identified needs of their area for the management of waste streams" (NPPW 3). In particular, waste planning authorities should "identify, in their Local Plans, sites and/or areas for new or enhanced waste management facilities in appropriate locations" (NPPW 4).

New The London Plan (Policy SI8) requires Development Plans to plan for identified need and "allocate sufficient sites, identify suitable areas, and identify waste management facilities to provide the capacity to manage the apportioned tonnages of waste". The London Plan also identifies existing waste sites, Strategic Industrial Land (SIL) and Locally Significant Industrial Sites as a focus for new waste capacity.

New STRATEGIC OBJECTIVE 2 seeks to ensure there is sufficient suitable land available to meet North London's waste management needs and reduce the movements of waste through safeguarding existing sites and identifying locations for new waste facilities.

New Known opportunities to intensify and upgrade existing facilities have already been taken into account in section 6 and have been incorporated into the calculations for meeting the capacity gap. Where further opportunities to optimise waste management capacity on existing sites arise, this is supported by Policy 1 where the proposal is in line with relevant aims and policies in the North London Waste Plan, the London Plan, Local Plans and related guidance.

New North London's identified waste need and capacity gap is set out in section 6 and summarised in Table 6 above. Additional facilities to meet the capacity gap would require approximately 6.4ha of land, depending on the type of technology used.

8.2 The NLWP North London Boroughs assessed a range of sites and ~~identifies a number of~~ areas to meet future waste needs. Assessment criteria have been developed using waste planning policy and in consultation with key stakeholders in a series of focus groups. This work is set out in the Sites and Areas Report. ~~It was initially intended to also~~

~~identify sites within the NLWP, i.e.~~ A 'site' in this context is an individual plot~~s~~ of land that ~~would be~~is safeguarded for waste use only. ~~However, only one site was brought forward by landowners during the call for sites exercises and no further sites are required for the management of LACW. As a result, only areas have been identified.~~ An '~~a~~Area' comprises a number of individual plots of land, for example, an industrial estate or employment area that is in principle suitable for waste use but where land is not specifically safeguarded for waste. The NPPW and the ~~draft~~ London Plan endorse the identification of "sites and/or areas" in Local Plans. The approach is also supported by the waste industry and key stakeholder in consultation.

~~**Expansion of existing Waste Management Facilities**~~

8.3 ~~Existing waste management facilities are also a key part of future provision. A call for sites exercise in 2014 targeted existing waste operators in North London, seeking information on any planned capacity expansion or upgrades to existing facilities. Three sites were put forward: Edmonton EcoPark, Deephams Sewage Treatment Works and Powerday in Enfield. Any applications for expansion or consolidation of existing waste management sites will be considered against NLWP policies and those of the Borough Local Plan in which the proposal is situated. A further exercise was also undertaken in 2018 but no new sites were put forward for expansion.~~

~~Deephams Sewage Treatment Works~~

~~8.8 Deephams Sewage Treatment Works is a waste water treatment facility in Edmonton. The works serves a large area of north east London, both inside and outside the M25 corridor. The Environment Agency has issued a significantly tighter environmental permit in respect of sewage treatment standards that came into force in March 2017 and requires Thames Water to make improvements to the quality of the discharged effluent. The need for an effluent upgrade to Deephams Sewage Treatment Works (STW) is highlighted in the National Planning Statement on Waste Water, and planning permission for this work was granted by Enfield Council on 20th February 2015. The upgrade was largely constructed by March 2017 and being completed during 2018/2019.Work has started and is expected to continue for a minimum of 7 years.~~

Site and Area Search Criteria

8.20 When seeking suitable locations for new waste facilities, the Boroughs took into account NPPW paragraph 4 which states that waste planning authorities should "consider a broad range of locations including industrial sites" and "give priority to the re-use of previously developed land [and] sites identified for employment uses". The London Plan identifies suitable locations in policy SI8 as existing waste sites and SIL/LSIS. Waste facilities are considered to be industrial uses and are therefore considered suitable, in principle, to be developed on any industrial land in North

London. However, in preparing the NLWP, the North London Boroughs have sought to refine this approach and direct new waste facilities towards locations assessed and selected as the most suitable in North London which are identified as "Priority Areas" in the Plan. The ~~proposed site and area search~~ criteria used in the NLWP site and area selection process were developed based on the requirements of the National Planning Policy Framework, National Planning Policy for Waste[19], Planning Practice Guidance and the London Plan~~national waste planning policy~~. Both planning and spatial criteria were discussed with key stakeholders through a focus group session in spring 2014 . ~~Following the introduction of the NPPW in October 2014, the site search criteria were reviewed to ensure compliance with this document.~~

Site and Area Search and Selection Process (Methodology)

8.21 An extensive site and area search and selection process has been undertaken. Full details of the site and area selection exercise are set out in the 'Sites and Areas Report' and the 'Options Appraisal for Sites and Areas to be taken forward in the Proposed Submission NLWP' Report available on the NLWP website. In summary it has involved the following key stages:

i. Survey of existing waste sites – this involved a detailed review of the existing waste sites, including obtaining information from the operators on their future plans and validation of existing information held regarding their sites. This work indicated that there was insufficient capacity within existing sites to meet the expected waste arisings over the plan period.

ii. Call for sites - a call for sites exercise was carried out in two stages. This included targeting existing operators, landowners and other interested parties requesting them to put sites forward for consideration.

iii. Land availability search – this was an initial search into the land available in North London that may be suitable for the development of waste management infrastructure. At this stage, all available sites and areas were included in the process in order that the site and area assessment process for

[19] Following the introduction of the National Planning Policy for Waste NPPW in October 2014 to replace Planning Policy Statement PPS10, the site and area search criteria were reviewed to ensure compliance with this document.

the NLWP could then be applied. The result of this work was to identify a long list of potential sites and areas.

iv. Desk based site and area assessment – the long list of sites and areas was then assessed against the selection criteria. As shown in Table ~~8~~10 below, the assessment criteria were split into two levels, absolute criteria and screening criteria. The absolute criteria were applied first to determine if the identified constraints affected part of the proposed sites and areas, resulting in their removal. The remaining sites and areas were then subject to the screening criteria. The aim of using the absolute criteria was to ensure that those sites/areas which are wholly unsuitable are excluded from further consideration and to identify those which may be suitable.

v. Site visits were undertaken in August and October 2014 to check and refine information from the desk based assessment and make a visual assessment of the suitability for different types of waste management facilities as well as the relationship with adjoining development. The information was used to complete the criteria-based assessment to ultimately determine the suitability of the sites/areas for future waste development as well as evaluate the potential facility types.

vi. Areas identified as suitable for future waste management facilities were subject to an assessment to calculate the level of capacity they could reasonably be expected to provide. Firstly the proportion of North London's industrial land in waste use was established. This showed the ability of waste facilities to compete with other land uses in these areas was good and that waste is a growing sector in contrast to declining industries such as manufacturing. Secondly, a review of the vacancy rates and business churn for industrial land was used to estimate the proportion of land within these areas which are likely to become available over the plan period. Further information is available in the Sites and Areas Report.

vii. Sustainability Appraisal[20] and Habitats Regulation Assessment[21] of sites/areas – all proposed sites and areas have been subject to these assessments and the findings fed into the policy recommendations.

[20] Sustainability appraisal is the assessment of the potential impact against an agreed set of social, environmental and economic objectives. It encompasses the requirement of Strategic Environmental Assessment which is a requirement of Europe that all plans undergo.

viii. Consultation with Landowners – Following completion of the above, land owners for all the sites remaining were contacted to seek feedback on the inclusion of their land as a waste site allocation. The findings of this work have further refined the list of sites and further information can be found in the Sites and Areas Report.

ix. Sequential test – any sites and areas lying within a level 2 or 3 flood risk zone have been subject to sequential testing to assess the potential impact of a waste development in this zone. The results of this work can be found in the Sites and Areas Report.

x. Following consultation responses on the Draft Plan, a Sites and Areas Options Appraisal was prepared to analyse a number of different approaches for reducing the total quantum of land identified for new waste facilities and creating a better geographical spread of waste facilities in line with Spatial Principle B. This resulted in the reduction of total land identified for new waste facilities from 351.8ha in the Draft Plan to 102.38ha in the Proposed Submission Plan.

8.22 The assessment criteria applied to all sites and areas is listed in Table 10 below. The criteria have been used in assessing sites and areas during both the desk based assessment and site visits.

Table 10: Sites and Areas Assessment Criteria

Absolute Criteria	Screening Criteria
• Metropolitan Open Land (MOL) • Green Belt (for built facilities) • Grade 1 & 2 agricultural land (part of the Green belt) • Sites of international importance for conservation e.g. Ramsar sites, Special Areas of Conservation (SACs) and	• Sites of local importance for nature conservation (SINCs) • Flood risk areas/flood plain • Accessibility (proximity to road, rail, canal/river) • Sites and areas greater than 2km from the primary route network

[21] HRA is a requirement of Europe that all plans are assessed against their potential impact of natura 2000 sites.

Absolute Criteria	Screening Criteria
Special Protection Areas (SPAs) • Sites of national importance for conservation e.g. Sites of Special Scientific Interest and National Nature Reserves • Ancient Woodlands • Scheduled Ancient Monuments • Listed Buildings (grade I and II*) • Registered Parks and Gardens (grade I and II*) • Registered battle fields • Areas of Outstanding Natural Beauty (AONB) • Protected open spaces • Landscape designations such as Areas of Special Character (part of the Green Belt)	• Ground water protection zones • Surface waters • Major aquifers • Airfield safeguarding areas (Birdstrike zones) • Air Quality Management Areas • Unstable land • Green belt (for non-built facilities) • Local Plan designations • Settings of Scheduled Ancient Monuments • Settings of Listed Buildings • Settings of Registered Parks and Gardens (grade I and II*) • Neighbouring land uses • Proximity to sensitive receptors

~~**Draft Plan Consultation**~~

8.23 The sites and areas identified as a result of the methodology set out above were consulted on as part of the Draft Plan prepared under Regulation 18 of the Town and Country Planning Regulations 2012. This was set out in the Sites and Areas Report 2015 which was updated in 2019 for the Proposed Submission NLWP.

8.24 ~~In preparing this (Proposed Submission) version of the NLWP, and deciding which sites and areas to take forward, the North London Boroughs took into account national and regional policy, the aims of the NLWP and consultation responses on the Draft Plan, including issues raised around deliverability and other constraints. Further work was undertaken to gather and assess additional information on the proposed sites and areas received during the consultation or as a result of new data being published.~~ In order to respond to issues raised during consultation on the suitability of the Draft Plan

proposed sites and areas, the North London Boroughs undertook four areas of further work in order to identify which sites and areas should be taken forward:

- Gather and assess additional information on sites/areas
- Changes to policy wording on reducing the impact of new waste development
- Seek a better geographical spread of waste facilities
- Consider options to reduce the amount of land taken forward in the Proposed Submission Plan

New The additional information gathered and assessed included transport evaluations, potential mitigation measures, updating flood risk information and other environmental factors, consideration of where waste facilities might be best located within an Area, heritage and National Grid assets, and identifying Areas within an Opportunity Area, Housing Zone, Crossrail 2 or Lee Valley Regional Park. This information helped inform amendments to Policy 6, and Area Profiles were updated accordingly with a further assessment of the suitability of the proposed sites and areas undertaken.

New In response to comments about the distribution of waste facilities across North London, Spatial Principle B was amended from 'Seek a network of waste sites across North London' to 'Seek a better geographical spread of waste sites across North London, consistent with the principles of sustainable development'. This change provided the basis for further work on the distribution of Areas taken forward in the Proposed Submission Plan.

8.25 (part) ~~The North London Boroughs developed a range of reasonable options for taking forward sites and areas in the Proposed Submission version of the plan. Further~~ In considering geographical spread of facilities and reducing the sites and areas to be taken forward in the Proposed Submission Plan, each Borough's current contribution to waste management capacity In North London was calculated. Currently 62% of the total land in existing waste use across North London is located in Enfield. In order to address concerns that there is an over-concentration of waste facilities in Enfield, promote a better geographic spread of waste facilities in North London, and reduce the amount of land taken forward into the Proposed Submission Plan, the Boroughs considered five alternatives with different land options. The details of these options are ~~set out~~brought together in 'Options Appraisal for Sites and Areas to be taken forward in the Proposed Submission NLWP' (updated 2020~~2018~~).

8.25 (cont) The options included and excluded areas based on their performance against qualitative assessment criteria, such as Local Plan designations and performance against suitability rating (banding) as detailed in the Sites and Areas Report. Analysis of each of the five options considered, amongst other issues, the proportion of Enfield's contribution to the Areas identified. One of the options limited the number of Areas for new waste facilities in Enfield to one. The option with the lowest land

provided (102ha) combined with the best geographical spread (limiting the land identified in Enfield) has been taken forward into this Plan. In looking to reduce the total amount of land identified as most suitable for new waste uses, the Boroughs did not identify any criterion which would provide a sound basis to reduce the number of areas further than a combined total of 102ha. The other options did not significantly reduce the amount of land identified and/or did not provide a better geographical spread of Areas. The preferred option was to take forward land designated as industrial land and high-performing (Band B) ~~sites/~~areas, while achieving a better geographical spread by reducing the ~~number of sites~~ amount of land for new waste facilities identified in Enfield. This focus on industrial land and the highest performing areas helps to locate waste facilities away from residential properties, as far as this is possible in an urban area like North London.

New Following the work described above, all of the individual sites and several of the Areas were removed from Schedules 2 and 3 and in some of the remaining Areas the amount of land considered most suitable for new waste facilities was refined. The NLWP therefore takes an area-based approach to waste planning with no individual sites allocated for new waste facilities. An area-based approach is to one which identifies areas which comprise a number of individual plots of land, for example, an industrial estate or employment area, that is in principle suitable for waste use but where land is not specifically safeguarded for waste uses. The identification of Areas allows for flexibility in bringing forward a range of locations across North London, allowing for a better geographic spread of opportunities for future waste development that is consistent with the spatial principles of the plan to meet North London's requirement. However, because the Areas identified are not safeguarded solely for waste use it is important to identify sufficient land to ensure adequate opportunity across North London for waste operators to provide new facilities because there will competition for this land by other industrial users. It should be noted that most waste planning authorities are in the same position and that this approach is supported by both the NPPW and the London Plan.

New An update to the Data Study to support the Proposed Submission NLWP reduced the indicative land required to meet the capacity gap from 12ha in the Draft NLWP to 9ha in the Proposed Submission NLWP. This has since reduced further to 6.4ha in light of the Data Study Addendum (2020). For the Plan to provide confidence that sufficient land is available in the right place and at the right time a quantum of land and number of Areas has to be identified.

New As identified in the Sites and Areas Report, it is not possible to say precisely how much of North London's industrial land could become available for waste uses over the plan period. This depends on the rate at which existing land becomes vacant in the identified Areas and a waste operator being ready and able to locate on that same site. This in turn depends on the wider economic factors. Identifying a range of

land suitable for new waste facilities responds to the NPPW expectation that waste planning authorities "should identify sufficient opportunities to meet the identified needs of their area". This also provides flexibility for waste operators and should sites not become available in one particular Area, or if an Area changes over the plan period to become unsuitable for waste uses, this approach will ensure there are alternative land options available.

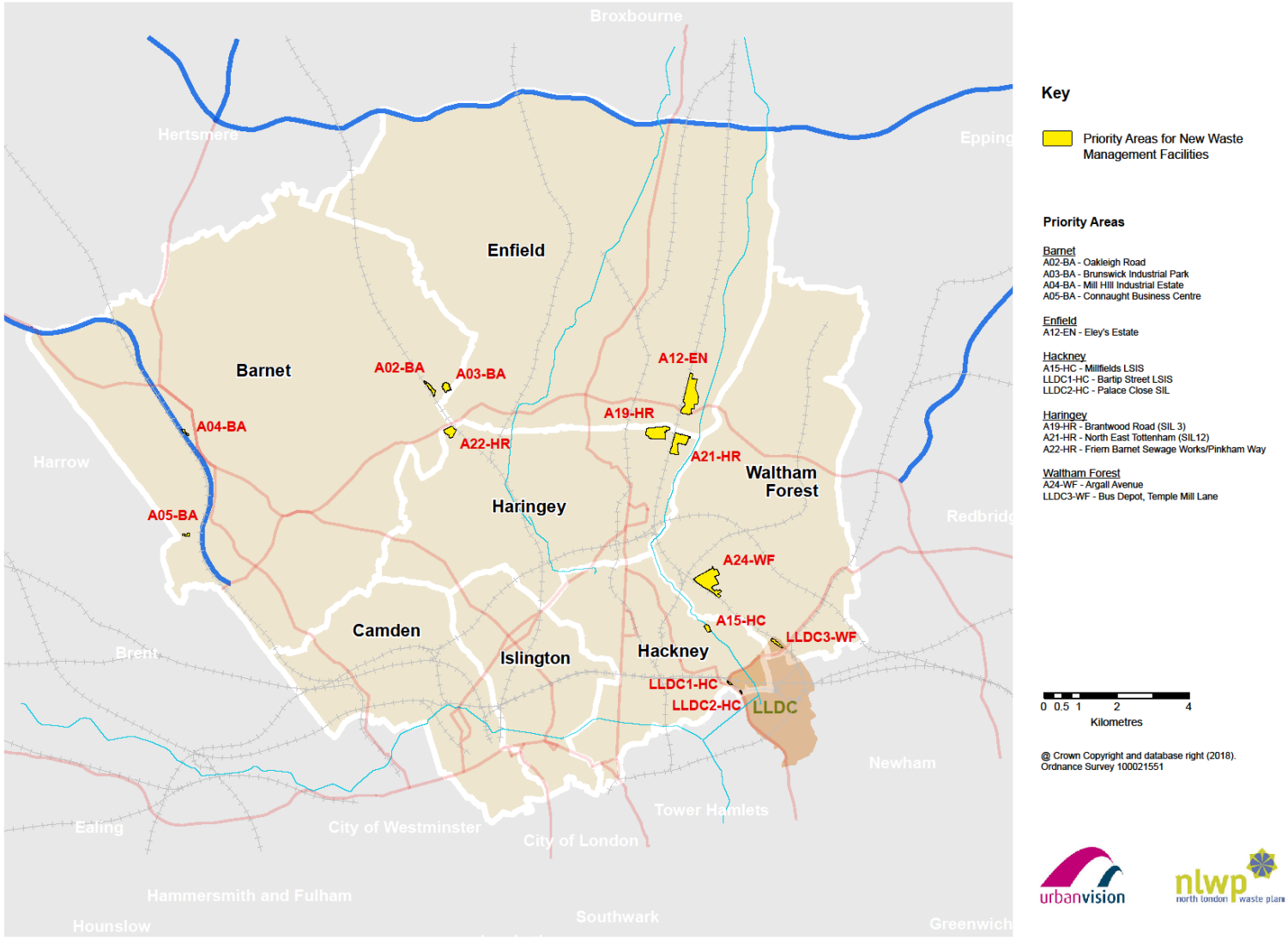
New The work set out in the 'Options Appraisal for Sites and Areas to be taken forward in the Proposed Submission NLWP' resulted in reducing the total amount of land identified as most suitable for new waste facilities from 351.8 in the Draft Plan to 102.38ha in the Proposed Submission Plan. While 102ha is a large area when compared to the need for 6.4ha, this land is currently occupied by existing industrial uses. There is strong competition for industrial land in North London and this is reflected by low vacancy rates (an average of 4.8%). The Boroughs will rely on business churn for release of individual sites which could come forward for waste uses. The most recent analysis of business churn in London suggests that around 20% of land could be released in this way. Analysis of business churn and vacancy rates is included in the Sites and Areas Report. To provide 6.4ha, 6% of the Priority Areas would need to be developed for waste management to meet the capacity gap, if no additional capacity is provided on existing sites. It should be noted that 6.4ha of land is indicative only and throughput on a site will depend on the operational technology used. New capacity to meet North London's needs will be monitored rather than land take.

New The preferred approach limits the areas proposed for new waste facilities in Enfield to one industrial area and although this option is considered the most appropriate to take forward in the NLWP, there is a risk that the identified Area in Enfield (comprising 26ha) could accommodate all new waste capacity, which would not respect Spatial Principle B or generally encourage a sustainable distribution. There is also a possibility that applications could come forward for new waste facilities on other industrial land in Enfield. To address this, the 'Options Appraisal for Sites and Areas to be taken forward in the Proposed Submission NLWP' recommends a 'Priority Areas' sequential approach to ensure developers consider siting a facility within the Areas listed in Schedules 2 and 3 before other locations. In addition, developers should seek sites in Priority Areas outside Enfield before considering sites in Enfield. This recommendation has been taken forward in Policy 2: Priority Areas for New Waste Management Facilities and Policy 3: Windfall Sites.

8.26 The ~~areas~~Priority Areas, shown in Figure 13 (see also Schedules 2 and 3 in section 9), have been identified as the most suitable for built waste management facilities.. The ~~areas~~ Priority Areas are being put forward as they comply with the NLWP Spatial ~~Framework~~ Principles which is reflected in the site and area selection criteria, as well as a range of environmental, social and economic criteria set out in the Sustainability

Appraisal Scoping Report. In the absence of the identification of individual sites, the Priority Areas represent sufficient opportunities to deliver the identified waste management needs of North London over the plan period. ~~During the course of the plan, it is expected that land will become available as part of the business churn.~~ In order to ensure that Priority Areas are the focus for new waste capacity, the location of new waste facilities and any compensatory capacity will be monitored through Monitoring Indicator IN3. The aim of the indicator is to check that sites in Priority Areas are being taken up as anticipated and also monitor if land within Schedules 1, 2 and 3 is not available or suitable for new waste facilities. The later aspect in particular will enable the Boroughs and developers to understand where sufficient land remains available and the geographic distribution of new waste facilities, which will inform potential site searches and evidence required by the Boroughs for those seeking planning consent for sites for waste uses. The monitoring will help to demonstrate the progress of the spatial principle for better geographical spread and achievement of the sequential approach to delivery of new waste sites set out in Policies 2 and 3. Any proposals for waste facilities within the ~~areas~~ Priority Areas will be subject to planning permission. ~~No provision is made for landfill due to the inability of the Plan area to accommodate development of landfill.~~

Figure 11: ~~Location~~Priority Areas for new waste management facilities ~~of proposed new areas~~



The impact of Crossrail 2 and Opportunity Areas on existing sites and ~~proposed new areas~~Priority Areas

8.13 Transport for London has been consulting on Crossrail 2. The timetable for a Hybrid Bill submission is at present unknown. Depending on the route selected, some existing waste sites and ~~proposed~~ areas identified as ~~suitable~~ Priority Areas for new facilities might be affected by the scheme.

8.14 At the time of publication, only one location (A02-BA-Oakleigh Road) within an a~~A~~rea identified in Schedule 2: ~~New locations~~Priority Areas for new waste management facilities has been identified in the Crossrail 2 safeguarding directions issued in January 2015. This plot of land (shown in Appendix 2) has been safeguarded in order to deliver part of the construction of Crossrail 2 and will be released after this is completed. However, as the scheme develops and further information is made available on the preferred route, there could be locations within other Areas, which may be required for the purpose of constructing Crossrail 2, particularly along the West Anglia Mainline. Once known, should applications for waste uses come forward in these locations, they will need to be subject of consultation with TfL and Network Rail as necessary.

8.15 Furthermore, a number of the ~~new A~~reas identified in Schedule 2 Priority Areas for new waste management facilities ~~Areas suitable for waste management~~ are in locations close to Crossrail 2 stations and could make a valuable contribution towards realising the wider benefits of Crossrail 2 in terms of both delivering additional homes and supporting wider regeneration. Those Areas which in part may have such a role in the longer term include:

- A12-EN – Eley's Estate
- A22-HR – Friern Barnet Sewage Works
- A19-HR – Brantwood Road
- A21-HR – North East Tottenham

8.16 Known information on Crossrail2 is detailed further in the ~~site~~ Area profiles in Appendix 2 and in the proformas in the Sites and Areas Report.

8.17 In line with the NLWP approach to Opportunity Areas and Housing Zones as set out in section 2, any non-waste related development in these locations will need to be brought forward in a way that safeguards existing capacity (see Policy 1) and considers future waste management requirements alongside the need to deliver new homes and more intensive employment uses. Within these locations there is likely to be significant benefit in seeking opportunities to co-locate or consolidate existing waste uses so as to minimise potential conflict and ensure that they can coexist alongside residential and other more sensitive uses.

8.18 As required, the North London Boroughs will work proactively with the GLA and TfL to create proposals which address these issues ensuring that North London's waste management needs can be met whilst helping to realise the significant opportunities associated with schemes such as Crossrail 2.

8.19 How the impact of Crossrail 2 on the NLWP will be monitored and managed is addressed under Indicator ~~2~~ IN4 of the monitoring arrangements in section 10.

7. Provision for North London's Waste to 2035

New Section 6 sets out North London's waste management capacity gap and Section 7 [currently 8] sets out the process of identifying sufficient land to meet that capacity gap. This Section brings this information together to set out how North London's waste management needs will be achieved over the plan period.

7.1 The North London Boroughs have developed the following ~~strategic~~ over-arching policy which sets out in broad terms how the waste management needs in North London over the plan period are being planned for.

~~Strategic~~ Over-arching Policy for North London's Waste

The North London Boroughs will identify sufficient capacity and land for the provision of waste facilities to manage the equivalent of 100% of waste arisings (net self-sufficiency) for Local Authority Collected Waste (LACW) and Commercial & Industrial (C&I) waste ~~by 2026~~ and Construction & Demolition (C&D) waste by 2026~~2035~~, including hazardous waste. The North London Boroughs will plan to manage as much of North London's excavation waste arisings within North London as practicable, and to ensure that excavation waste exports are put to beneficial use.~~.~~ To achieve this, the North London Boroughs will plan to manage the quantities of waste set out in Table 8 over the next 15 years.

The North London Boroughs will encourage development on existing ~~and new~~ sites and in Priority Areas that promotes the movement of waste up the waste hierarchy, increases management of waste as close to the source as practicable, and reduces exports of waste to landfill.

The North London Boroughs will continue to co-operate with waste planning authorities who receive significant quantities of waste exports from North London.

7.2 Most of North London's waste capacity need is met through its existing facilities. These existing facilities are safeguarded through London Plan policy, however they are not always in the most sustainable locations. The NLWP seeks to make the most of the existing infrastructure by supporting intensification of existing sites, where appropriate, while enabling relocation to more sustainable locations for replacement capacity (see Policy 1). Existing capacity and additional new capacity will be needed to meet North London's identified need for waste management over the plan period (2020-2035). The Boroughs are seeking a sustainable network of waste facilities which helps reduce movements of waste, including waste exports and increase

opportunities for waste to be managed in proximity to its source. Existing waste capacity in North London is ~~safeguarded and~~ set out in Schedule 1 (see Policy 1 and Appendix 1) and ~~land~~ Priority Areas for new waste facilities is set out in Schedules 2 and 3 (see Policy 3). The Priority Areas for new waste capacity represent the most suitable land when assessed against the Spatial Principles, including a better geographical spread, and the assessment criteria detailed in the previous chapter. This helps to deliver STRATEGIC OBJECTIVE 2 which seeks to ensure there is sufficient suitable land available to meet North London's waste management needs. The focus for new waste capacity in North London is for recycling and recovery facilities to manage the quantities of waste set out in Table 8, thereby reducing exports. New waste facilities will be assessed against the criteria in Policy 5.

7.3 Table 8 sets out the quantities of waste, by waste stream, which need to be managed within North London in order to meet STRATEGIC OBJECTIVE 3 and the policy for net self-sufficiency target for LACW, ~~and~~ C&I and C&D waste by 2026 ~~and C&D waste by 2035~~, including hazardous waste. Table 8 also takes account of the policy to ~~manage as much of North London's~~divert excavation waste ~~arisings within North London as practicable~~away from landfill and towards beneficial use. The quantities of waste take into account population and economic growth and waste targets including net self-sufficiency, apportionment, recycling and landfill diversion, set out in the London Plan. The North London Boroughs are planning to meet more than their apportionment targets and to manage the waste arisings for North London ~~set out in the London Plan~~. Further details of the methodology to estimate waste arisings is available in the NLWP Data Study (2019~~8~~).

7.4 The North London Boroughs will monitor the NLWP against the projected quantities of waste generated set out in Table 8, (IN1), new waste management capacity delivered (IN2),), the locations of new waste facilities and compensatory capacity (IN3) and the amount of waste exported (IN7) to ensure the ~~strategic~~ over-arching policy is being delivered. All m~~M~~onitoring indicators are set out in Section 10 of this plan.

7.5 ~~To enable waste planning authorities outside London to plan for North London's waste exports, Table 9 shows projected exports to landfill outside the North London area. The figures represent waste which cannot be prepared for reuse, recycled/composted, or used for other recovery and therefore has to be exported to landfill. The North London boroughs will plan to manage the equivalent amount of exported waste within North London through waste imports however, in reality, some of North London's waste will continue to cross borders to be managed or disposed of in facilities which North London does not or cannot accommodate, such as landfill or specialist hazardous waste facilities.~~

7.6 […] ~~there are sites and available void space in London, South East and East of England to take North London's estimated waste exports to 2035. The Boroughs will~~

~~continue to co-operate with waste planning authorities who receive North London's waste, and mechanisms for monitoring waste movements after the NLWP is adopted are set out in in section 10.~~

7.7 The following section sets out how North London's will meet its strategy for waste to 2035 in more detail, setting out each waste stream and management method separately.

Local Authority Collected Waste (LACW) and Commercial & Industrial Waste (C&I)

7.8 Local Authority Collected Waste (LACW) and Commercial and Industrial (C&I) waste streams comprise similar types of waste. Most facilities which manage these waste streams do not differentiate between them and so it is reasonable to group them together when assessing existing capacity and planning for additional capacity. ~~The NLWP identifies sufficient land to manage the equivalent of all LACW and C&I waste arising in North London by 2026.~~

New There is a capacity gap of up to around 174,500 tonnes for LACW and C&I waste over the plan period. This equates to approximately 1.5 hectares of land, depending on the technology of the facility/ies. This calculation includes the increase in EfW capacity and the loss of composting capacity at Edmonton EcoPark.

Recycling/Composting

7.9 The North London Waste Authority (NLWA) and seven constituent boroughs are~~is seeking to achieve a household waste recycling target of 50% by 2020 consistent with the targets set out in the North London~~ required to prepare a Joint Waste Strategy (JWS) for North London. The most recent JWS came to an end in December 2020. A key element of that strategy has been met through the granting of permission for a replacement energy recovery facility at the Edmonton EcoPark to treat residual waste. A replacement JWS will be developed by NLWA in conjunction with the seven constituent boroughs, but requires a clear position on the circular economy and recycling from central government; it is hoped that this will be within the next year. The new Joint Waste Strategy will focus on activities to move all waste up the waste hierarchy. In the short term, a Residual Waste Reduction Plan has been agreed after consultation with constituent boroughs. This Plan forms a short-term strategic approach from NLWA, which will inform the development of the next Joint Waste Strategy. The NLWA expect a new JWS will be being developed in 2021 and 2022. A new JWS will set out how North London will contribute to the Mayor's recycling targets as set out in the London Plan and London Environment Strategy. ~~The Authority and partner boroughs will continue to seek to maximise recycling levels for LACW.~~

7.10 There is a need for additional capacity for recycling for ~~both~~ the LACW/~~ and~~ C&I waste stream~~s~~ throughout the plan period. ~~A~~LACW and C&I are combined for the purposes of

waste planning as many facilities ~~can~~ manage both waste streams~~, the need for recycling is combined~~.

7.11 In addition to recycling, the existing composting facility at Edmonton will be displaced due to the development of the new Energy Recovery Facility. The NLWA are not intending to build a replacement facility to meet this requirement. Current contracts exist to export this waste outside the Plan area.

New There is an opportunity to bring forward new LACW waste recycling/composting capacity on the Friern Barnet Pinkham Way site which is owned by the North London Waste Authority, although presently there are no plans to do so. There are also opportunities to bring forward commercial recycling capacity in all but one of the Priority Areas identified in Schedules 2 and 3, and composting capacity on four of the Priority Areas. Additional capacity and recycling rates will be monitored by Monitoring Indicator IN1 and reported in the Annual Monitoring Report.

Recovery

7.12 Most LACW is managed at the Edmonton EcoPark facility which has an existing capacity of around ~~550~~600,000tpa. ~~It is intended that the existing Edmonton facility will be modified to enable connection to a heat network. The facility does not currently accept C&I waste from private operators.~~ In November 2014 the NLWA announced plans for the development of a new Energy Recovery Facility (ERF) - the North London Heat and Power Project - on their existing site at the Edmonton EcoPark in Enfield. This will replace the existing Energy from Waste (EfW) plant at the EcoPark that is coming to the end of its operational life.

7.13 The ~~existing Edmonton facility will be replaced in 2025. The NLWA have gained consent for a~~ new Energy Recovery Facility (ERF) ~~with~~ will have a capacity of around 700,000 tonnes per annum to deal with all the residual waste under the control of the Authority from 2025 until at least 2050. ~~The planning framework for this site includes the Edmonton EcoPark Supplementary Planning Document and emerging Central Leeside Area Action Plan.~~ The replacement facility~~, expected to be operational from 2025,~~ will generate power for around 127,000 homes and provide heat for local homes and businesses as part of a decentralised energy network known as the Lee Valley Heat Network, trading as energetik.'

8.7 Once the new facility has been developed, the existing EfW facility will be demolished. The associated parcel of land, on which the current plant is located, will continue to be safeguarded for future waste use as part of ENF18 in Schedule 1, and will become available towards the end of the plan period. The development of Edmonton EcoPark for the new ERF will provide a strategic facility for the NLWP and provide a solution for managing the non-recyclable element of LACW. Delivery of this facility will see the NLWA continue to manage LACW from the North London Boroughs and help reduce the reliance on disposal of waste to landfill. Enfield

Council have adopted Edmonton EcoPark Supplementary Planning Document and ~~have submitted~~are preparing the Central Leeside Area Action Plan ~~for independent examination~~, both of which provide more detail on the planning framework and objectives for this site.

7.14 As the existing EfW facility at Edmonton does not currently treat C&I waste, ~~there is an immediate capacity gap for recovery of C&I waste amounting to 1ha of land as identified in Table 7. However, as no such facilities are currently in the pipeline,~~ it is likely thi~~s~~e waste will continue to be exported in the short to medium term until 2025. After this time, the recovery requirement of C&I waste can be met by the new Edmonton ERF to the end of the plan period. ~~in line with the objectives of the Mayors Environment Strategy 2018~~

New There are opportunities for additional recovery capacity to be brought forward on three of the proposed Priority Areas.

Transfer

7.15 NLWA manage three waste transfer stations in North London namely the Hendon Rail Transfer Station (Barnet), Edmonton Eco~~P~~park Transfer Station (Enfield) and the Hornsey Street Transfer Station (Islington). The Hendon Rail Transfer Facility in Barnet is being relocated due to the Brent Cross Cricklewood development and a planning application is currently under consideration for the new location within Barnet.

New Many waste transfer facilities also recycle some of the waste they receive. There is opportunity for waste transfer facilities to come forward on nine of the Priority Areas.

Landfill

7.16 North London has no landfill sites and depends on capacity outside the Plan area. The NLWA intend to minimise the amount of LACW sent direct to landfill by maximising recycling and ensuring the existing EfW facility can sufficiently manage the expected tonnage of North London's residual waste up to 2025. Much less waste will be exported to landfill from 2017/18 due to changes in contractual arrangements and virtually no LACW will go to landfill by 2026.

7.17 It is anticipated that some C&I waste will continue to be exported to landfill throughout the plan period, although this will be a decreasing quantity as new facilities become operational and recycling levels increase.

~~7.18 The North London Boroughs have established that there are landfill sites in London, South East and East of England able opportunities for the market to find alternative destinations in London, South East and East of England to take North London's waste~~

~~between 2017 and 2035~~in ~~the short term. In the longer term, beneficial use of excavation waste and Circular Economy Statements will assist the North London Boroughs to reduce exports of waste to landfill and monitor the destinations of waste exports. See Figure 12 for the anticipated decline in landfilling of North London's waste over the plan period.~~

Construction, demolition and excavation waste (CD&E)

Recycling

7.19 ~~The NLWP will identify sufficient land to manage the equivalent of all~~North London has sufficient capacity to manage ~~-~~Construction and Demolition (C&D) waste arising in North London over the plan period.~~ by 2035, while acknowledging that s~~ Some exports of excavation waste will continue, but opportunities ~~particularly for Excavation waste. At least 95% of excavation waste exports will be put to beneficial use~~to manage as much of this waste stream as practicable within North London will be sought.

7.20 The majority of C&D waste is recycled on-site or through transfer facilities. Each Borough Local Plan has a sustainable design and construction policy in place which seeks to minimise waste generated during the design and construction of development and re-use or recycling of materials on-site where possible. Recycling rates will be monitored by Monitoring Indicator IN1 and reported in the Annual Monitoring Report.

~~7.21 North London has a number of transfer facilities which also recycle CD&E waste but a large quantity is still exported to landfill, mainly excavation waste. Recycling opportunities are likely to be mainly for C&D wastes although around 28% of excavation waste is also recycled within North London, with 53% being disposed of directly to landfill and 19% through treatment facilities. Taking account of the diversion of C&D waste away from landfill, the Data Study has identified a capacity gap of around 67,000 tonnes per annum from 2029, rising to around 102,000 tonnes per annum by 2035 . Provision will be needed throughout the plan period.~~

~~7.22 A total of 2 hectares of land will be required to facilitate this provision. Opportunities to re-use CD&E waste locally will be supported, though this cannot be predicted with any certainty. Policy 8 'Inert Waste' seeks to ensure that any planning application for the recycling and reuse of inert waste for all types of development demonstrates that viable opportunities to minimise construction and demolition CD&E waste disposal will be taken, making use of existing industry codes of practice and protocols, site waste management plans and relevant permits and exemptions issued by the Environment Agency.~~

Landfill

7.23 North London has no landfill sites and depends on capacity outside the NLWP area. ~~Some~~ A reduced amount of the CD&E waste stream ~~, particularly excavation waste,~~ will continue to be exported to landfill, but the majority (95%) of C&D waste will be reused,

recycled and recovered and the majority of excavation waste (95%) will be put to beneficial use. See Figure 102 for the anticipated decline in landfilling of North London's waste over the plan period. ~~unless opportunities materialise to re-use it locally. It is anticipated that C&D waste exports to landfill will reduce over the plan period while excavation waste exports will increase in line with growth.~~

~~7.24 The North London Boroughs, working with waste planning authorities who receive CD&E waste from North London, have identified constraints to the export of this waste and have established that there are both alternative landfill sites and adequate void space in London, South East and East of England to take North London's waste between 2017 and 2035. See Figure 12 for the anticipated decline in landfilling of North London's waste over the plan period.~~

Hazardous Waste

7.25 All the waste streams include some hazardous waste. Some facilities in North London, whilst not classified as hazardous waste management facilities, are permitted to manage a certain amount of hazardous waste alongside non-hazardous wastes. Hazardous waste is more commonly managed in specialist facilities which have and depend on wide catchment areas for their economic feasibility, and may not be local to the source of the waste. Planning for hazardous waste is a strategic issue (regionally and arguably nationally rather than sub-regional) and it is not anticipated that land for facilities would be identified to meet the requirements of North London alone, though the ~~areas~~ Priority Areas identified in the NLWP have been assessed for their potential suitability for such facilities.

Recycling and Recovery

7.26 North London has a number of facilities which manage~~one~~ hazardous waste ~~treatment facility~~ alongside other non-hazardous waste. ~~with a capacity of around 3,600 tonnes per annum and two recycling facilities; one for metals and one for end of life vehicles handling around 2,500 tonnes per annum between them. In addition, other facilities permitted to manage hazardous waste~~The majority of these are ~~include~~ vehicle depollution (car breakers) and metal recycling sites~~, WEEE sites~~ There are also transfer facilities ~~as well~~ such as RRCs which will accept, for example, paints and batteries which require specialist treatment and disposal. Such sites will continue to make a valuable contribution to managing North London's hazardous waste requirements. The amount of hazardous waste managed in North London varies from year to year with a maximum capacity of around 4,250~~3,600~~ tonnes over the last five years. ~~per annum and two recycling facilities; one for metals and one for end of life vehicles handling around 2,500 tonnes per annum between them.~~

7.27 There is a capacity gap for the ~~recovery~~ management of around 49,000 ~~2,500~~tonnes per annum, ~~this is considered too small a figure to plan for provision of a new facility and as such a specific land requirement is not identified for this management option. There is a requirement for recycling of around 17,000 tonnes per annum,~~ requiring an estimated

4.92ha of land. The North London Boroughs support the provision of such facilities in principle in ~~appropriate~~ the Priority Areas~~locations~~ and will work with the GLA and other Boroughs across London to meet this need. It is noted in the ~~sites and a~~Area profiles in Appendix 2 of the NLWP where a ~~site or area~~Priority Area is not suitable for hazardous waste recycling and recovery facilities. Any applications for hazardous waste facilities in North London that do come forward will be considered on a case by case basis. However, in the short term it is likely that hazardous waste will continue to be exported to the most appropriate specialist facilities.

Landfill

7.28 The need for export to landfill of around 13,000 tonnes per annum, is expected to continue due to inability of the area for provide this type of facility. This reflects the amount of hazardous waste which cannot be recycled or treated, for example asbestos. The North London Boroughs will continue to work with waste planning authorities who receive hazardous waste from North London to identify constraints to the continued export of this waste and identify potential new destinations if necessary.

Agricultural Waste

7.29 The small amount of agricultural waste generated in North London is not expected to increase over the plan period and there is no requirement to plan for additional facilities to manage this waste stream.

Low Level Radioactive Waste

7.30 The very small amount of Low Level Non-Nuclear Radioactive Waste (LLW) arising in North London is produced as wastewater and disposed of through foul sewer and it is expected that this will continue Any more specialist waste which may be produced would need to be managed outside the area in specialist facilities. It is therefore not necessary to plan for additional facilities in North London for this waste stream.

Waste Water

7.31 The main Thames Water sewage treatment facility in North London is Deephams Sewage Treatment Works (STW), operated by Thames Water. Work to upgrade this facility was largely completed in 2017. Thames Water anticipates this will provide sufficient effluent treatment capacity to meet its needs into the next decade during the plan period. However, this will be reviewed in future AMP periods to ensure ongoing capacity in relation to changing population growth predictions.~~Thames Water is also proposing an upgrade to the sewage sludge treatment stream at the site which will be sufficient to meet its needs during the plan period~~. It is therefore not necessary to identify additional land for this waste stream in the NLWP, however any new facility for waste water will be assessed against Policy ~~8~~7.

8.9 ~~Thames Water is also proposing an upgrade to the sewage sludge treatment stream at Deephams STW during its 2015 to 2020 business plan period by providing enhanced sludge treatment plant within the boundaries of the existing site.~~ Enfield Council will continue work with Thames Water and the Environment Agency to ensure that adequate and appropriate waste water treatment infrastructure is provided. Any new waste water facility will be assessed under Policy 7.

9 Policies

9.1 The policies set out in this section will form part of each Borough's 'development plan' which also includes the Mayor's London Plan and individual borough Local Plans (see Figure 2). All planning applications for waste uses will be assessed against the following NLWP policies and other relevant policies in the development plan and any associated Supplementary Planning Documents (SPD)/guidance. Any proposals for waste development will be expected to take account of the full suite of relevant policies and guidance.

9.2 The NLWP policies will help deliver the NLWP's aim and objectives (section 3), Spatial ~~Framework~~ Principles (section 4) and the ~~Strategy~~ Overarching Policy for North London's Waste (section 7). The supporting text sets out why the particular policy approach has been chosen, any alternatives considered and how the policy will be implemented.

9.3 The policies are:

Policy 1:	Existing waste management sites
Policy 2:	Locations for new waste management facilities
Policy 3:	Windfall sites
Policy 4:	Re-use & Recycling Centres
Policy 5	Assessment criteria for waste management facilities and related development
Policy 6:	Energy recovery and decentralised energy
Policy 7	Waste Water Treatment Works and Sewage Plant
Policy 8:	Control of Inert Waste

Policy 1: Existing waste management sites

Policy 1: Existing waste management sites

All existing waste management sites identified in *Schedule 1: Existing safeguarded waste sites in North London*, and any other sites that are given planning permission for waste use, are safeguarded for waste use.

Expansion or intensification of operations at existing waste sites will be ~~supported~~ permitted where the proposal is in line with relevant aims and policies in the North

London Waste Plan, the London Plan, Local Plans and related guidance.

Applications for non-waste uses on safeguarded waste sites will only be permitted where it is clearly demonstrated by the developer to the satisfaction of the relevant borough that compensatory capacity will be delivered in line with the spatial ~~framework~~ principles on a suitable replacement site in North London, that must at least meet, and, if possible, exceed, the maximum achievable throughput of the site proposed to be lost and help to promote the increased geographical spread of waste sites across the plan area.

Development proposals ~~in close proximity to existing safeguarded waste sites or sites allocated for waste use~~ which would prevent or prejudice the use of ~~those~~ existing waste sites for waste purposes will be resisted under the agent of change principle unless design standards or other suitable mitigation measures are adopted to ensure that the amenity of any new residents would not be significantly adversely impacted by the continuation of waste use at that location or suitable compensatory provision has been made for the waste use elsewhere within the Plan area.

This policy helps meet strategic objectives SO2 and SO3

This policy contributes towards Spatial ~~Framework~~ Principles ~~components~~ A and C

9.4 The purpose of Policy 1 is to ensure that the existing waste capacity in North London is protected and is able to expand where appropriate. It applies to sites with existing operational waste facilities, and any other sites developed for waste use throughout the plan period. The safeguarding of waste sites for waste use does not preclude waste operators from moving and selling their site as a waste site.

9.5 *Schedule 1: Existing safeguarded waste sites in North London* is in Appendix 1. The London Plan requires boroughs to protect their existing waste capacity and each North London Borough is safeguarding this land through their Local Plan and Policies Map. The contribution currently made by these facilities, and their future contribution, is taken into account in the estimation of how much additional waste management capacity is needed throughout the plan period, so it is important to protect these existing facilities to ensure there is sufficient capacity available to meet identified needs over the plan period. If existing facilities were lost and the capacity not replaced elsewhere in North London, this would result in additional waste capacity being required to meet the identified need and achieve net self-sufficiency.

9.6 Some existing waste sites may have the potential to increase their capacity, or provide additional waste services; planning applications for such changes ~~expansion~~

~~of existing waste facilities~~ will be ~~supported~~ permitted where they are in alignment with policies in this Plan and with Borough Local Plans.

9.7 If, for any reason, an existing waste site is to be lost to non-waste use, compensatory waste capacity~~provision~~ will be required ~~within North London~~. Compensatory capacity must be at or above the same level of the waste hierarchy and at least meet, and should exceed, the maximum achievable throughput of the site proposed to be lost. When assessing the throughput of a site, the maximum throughput achieved over the last five years should be used.~~Replacement provision will be calculated using the maximum achievable throughput (tonnes per annum) that the site has achieved as set out in the EA Waste Data Interrogator. Maximum throughput for existing sites 2009-2016 can be found in the Data Study Part 3: Sites Schedule Report Tables 1-7: Assessment of existing waste management capacity.~~ This information is sourced from the Environment Agency's Waste Data Interrogator. It is the responsibility of the developer to demonstrate that replacement capacity has been provided. Where this information is not available, for example if a waste site has been vacant for a number of years, the potential capacity of the site should be calculated using an appropriate and evidenced throughput per hectare. Applicants will need to demonstrate that provision of replacement capacity is secured before permission is granted for an alternative use. This could be through a compensatory site of a suitable size to meet at least the maximum annual throughput or an increase of capacity in an existing facility. Boroughs may consider using conditions or s106 agreements to satisfy themselves that compensatory capacity will be delivered. ~~However, i~~It may not be necessary for replacement sites to be on a 'like for like' basis, for example, a new site with a larger capacity might replace a number of sites with individually smaller, but combined equivalent, capacity.

9.8 Compensatory provision should be delivered in accordance with the spatial ~~framework~~ principles and such proposals will need to demonstrate compliance with Policy 2 (Priority Areas for new waste management facilities), Policy 3 (Windfall sites) and Policy 5 (Assessment Criteria for waste management facilities and related development) of the NLWP. ~~The area of search for a replacement site~~ Compensatory capacity should be provided within North London unless the NLWP Monitoring Report demonstrates that waste capacity in North London is sufficient to meet net self-sufficiency for LACW, C&I and C&D waste, including hazardous waste (Table 6). If sufficient capacity has been achieved in North London, compensatory capacity should be provided elsewhere in London. If it can be demonstrated that there is sufficient capacity in London to meet London's apportionment and net self-sufficiency targets, it may be possible to justify the release of waste sites for other uses. During the Plan period, where waste sites shown in Schedule 1 are redeveloped for other uses, the amount and location of

compensatory provision will be noted in the NLWP AMR (see IN2 in section 10). Sites which are going to be redeveloped for other uses during the plan period are identified in Schedule 1 and should be excluded from the search criteria for potential sites for new or replacement waste facilities.

9.8b As set out within Section 4, a key Spatial Principle of the NLWP is to establish a geographical spread of waste sites across North London, consistent with the principles of sustainable development. The aim is to ensure that waste is managed efficiently and as close to its source as possible whilst minimising any negative cumulative impacts resulting from a high concentration of waste facilities. Avoiding an unduly high concentration of waste facilities in a location is consistent with the overarching objectives of sustainable development, identified within the NPPF and would leave land available for other uses. Policy 2 identifies the Priority Areas for new waste management facilities and a sequential approach to site selection. The most suitable location for the re-provision of a site lost to non-waste development may therefore not necessarily be within the same north London borough as the displaced site. Adequate evidence of compensatory provision will be required to the satisfaction of the local planning authority before planning permission for redevelopment proposing loss of a facility is granted.

9.9 Any sites that come forward and receive planning permission for waste development which are implemented in the lifetime of the NLWP will be regarded as existing waste sites in North London and safeguarded under the provisions of this Policy (1). As part of the monitoring of the plan, waste arisings (IN1) the tonnage of waste capacity available by management type and type of wastes handled (IN2) and the loss of existing waste capacity and provision of replacement capacity (IN4), will be monitored (see section 10). The most up-to-date list of existing waste management sites will be found in the NLWP AMR. Where existing waste sites are lost, but compensatory provision has been made to the satisfaction of the Borough, this will be noted in the AMR. In time, the safeguarded designation will be removed from the relevant Borough's policies map.

9.10 Policy 1 also seeks to protect existing and permitted waste sites from the influence of an incompatible use in close proximity prejudicing the continuation or further development of waste operations at that location. Waste facilities have an important role to play in ensuring that communities are sustainable. Identifying and safeguarding suitable sites for waste facilities is challenging with issues relating to public amenity, access, hydrology, and geology, amongst others, to consider. In addition, waste is a relatively 'low value' land use which, although capable of competing with other industrial type uses, cannot outbid higher value uses. The introduction of sensitive types of development nearby, such as housing, could have an adverse impact on the continued operation of the existing sites in North London

and their ability to provide sufficient waste capacity as well as helping meet waste recycling, diversion and recovery targets. This would undermine the anticipated capacity of the network of existing facilities across North London to manage waste and consequently the overall deliverability of the NLWP. The NPPF and the ~~draft~~ London Plan sets out the 'Agent of Change' principle. This principle places the responsibility of mitigating the ~~noise~~ impact of noise, dust, vibration and other nuisance-generating activities (from existing noise-generating businesses) on the proposed new development. Developers proposing non-waste development in close proximity to existing waste sites should be aware of the potential impacts on existing waste operations and plan this into their development so as not to prevent or prejudice the continued waste use in that location, otherwise such developments will not be permitted. Accordingly proposed non-waste developments should be designed to protect both the amenity of potential new residential developments and the existing waste operation within that area.

New Some existing waste sites may be having an adverse impact on surrounding uses such as schools and residential areas. The waste operator is responsible for ensuring that its regulated facility does not cause pollution of the environment and harm to human health. The operator's performance in relation to that responsibility is assessed by checking compliance with the terms and conditions of the permit. Environmental permits are issued by either the Environment Agency for large-scale facilities and those with greater risk to the environment (known as "A1 installations") or the local authority for smaller-scale facilities with lower risk to the environment (which include "A2 installations" and "Part B installations") . Local authorities hold a register of these permits which are available to view on request.

New The responsibility for checking compliance falls to the issuer of the permit (the regulator). The Environmental Permitting Regulations (EPR) place a duty on regulators to undertake appropriate periodic inspections of regulated facilities. The EPR are the basis for any enforcement action and the principal offences are:

- operating a regulated facility without a permit;
- causing or knowingly permitting a water discharge activity or groundwater activity without a permit; and
- failing to comply with a permit condition, flood risk activity emergency works notice, flood risk remediation notice or an enforcement-related notice.

Operator competence can be considered by the regulator at any time, whether as part of the determination of an application or at any time during the life of the permit. The regulator can suspend or revoke the permit if an operator fails to comply with the conditions of the permit, risking harm to the environment or human health.

New The North London Boroughs will monitor any enforcement action taken against waste operators (IN6) to ensure that existing waste facilities do not cause harm to the environment or local communities. This will be published as part of the NLWP Annual Monitoring Report. Any additional information on enforcement action can be requested from the regulator.

Policy 2: ~~Locations~~Priority Areas for new waste management facilities

Policy 2: ~~Locations~~Priority Areas for new waste management facilities

Areas listed in *Schedule 2: ~~Areas suitable~~Priority Areas for waste management* and *Schedule 3: ~~Areas~~ Priority Areas identified in LLDC Local Plan* are identified as suitable for built waste management facilities to meet the identified need set out in Tables 6 and ~~7~~8.

To help meet the spatial principle to create a better geographical spread of waste facilities in North London, developers should first seek sites in Priority Areas outside Enfield, and must demonstrate that no sites are available or suitable before considering sites within Enfield's Priority Area.

~~-~~Applications for waste management development will be permitted on suitable land within the ~~areas~~ Priority Areas identified in Schedule 2 subject to other policies in the North London Waste Plan, the London Plan and Local Plans, and related guidance.

Development proposals will need to manage waste as far up the waste hierarchy as practicable. Development proposals for materials and waste management sites are encouraged where they deliver a range of complementary waste management and secondary material processing facilities on a single site.

Applications for waste management development within the ~~areas~~ Priority Areas identified in Schedule 3 will be assessed by the London Legacy Development Corporation.

This policy helps meet strategic objectives SO1, SO2, SO3 and SO5

This policy contributes towards Spatial ~~Framework~~ Principles ~~components~~ B, C and E~~F~~

Table 11: Schedule 2 ~~Areas suitable~~Priority Areas for waste management

Area ref	Area Name	~~Area~~Size (ha)	Borough	Waste Facility Type				
				A	B	C	D	E
A02-BA	Oakleigh Road	0.99	Barnet	X		X		X

Area ref	Area Name	~~Area~~Size (ha)	Borough	Waste Facility Type				
				A	B	C	D	E
A03-BA	Brunswick Industrial Park	3.9	Barnet	X				X
A04-BA	Mill Hill Industrial Estate	0.9	Barnet	X				X
A05-BA	Connaught Business Centre	0.9	Barnet	X				X
A12-EN	Eley's Estate	26.1	Enfield	X	X	X	X	X
A15-HC	Millfields LSIS	1.48	Hackney			~~X~~		X
A19-HR	Brantwood Road	16.9	Haringey	X			X	X
A21-HR	North East Tottenham	15.32	Haringey	X			X	X
A22-HR	Friern Barnet Sewage Works/ Pinkham Way	5.95	Haringey	X	X			X
A24-WF	Argall Avenue	26.91	Waltham Forest	X	X			X

Table 12: Schedule 3 ~~Areas~~ Priority Areas identified in LLDC Local Plan

Area ref	Area Name	~~Area~~Size (ha)	Borough	Waste Facility Type				
				A	B	C	D	E
LLDC1-HC	Bartrip Street	0.6	Hackney	X				X
LLDC2-HC	Chapman Road (Palace Close)	0.33	Hackney	X				X
LLDC3-WF	Temple Mill Lane	2.1	Waltham Forest	X	X			X

Table 13: Key to Waste Management Facility Type

	Facility type
A	Recycling
B	Composting (including indoor / in-vessel composting)
C	Integrated resource recovery facilities / resource parks
D	Waste recovery or treatment facility (including thermal treatment, anaerobic digestion, pyrolysis / gasification, mechanical biological treatment)
E	Waste transfer

9.11 ~~Policy 2 identifies areas and their suitability for a range of built waste management facilities.~~ National and European requirements state that waste plans must identify locations where future waste development may take place. In addition, the London Plan requires boroughs to allocate sufficient land to provide capacity to manage apportioned waste. These Priority Areas have been assessed against national, regional and local criteria, including the Strategic Objectives and Spatial Principles, and represent the most suitable areas for new waste facilities in

North London. To help redress the high proportion of North London's waste facilities already in Enfield (62%), and help deliver a better geographical spread of sites (Spatial Principle B), developers wishing to provide additional waste capacity on a new site in North London are required to demonstrate that no land is available or suitable in Priority Areas outside of Enfield before considering the Priority Area identified within the Borough. This applies to additional capacity only and not to the expansion or intensification of existing waste sites or providing compensatory capacity for sites already in Enfield. The exception to this sequential approach to site search. The exception to this sequential approach to site search is for Recycling and Reuse Centres (RRCs) where there is an identified need in Enfield and Barnet to improve the coverage across North London (see Policy 4). The evidence will need to demonstrate an adequate search has been undertaken which takes into account the type of waste facility proposed, the criteria set out in Table 10 and the criteria set out in policy 6.

9.12 T~~T~~he NLWP data study has identified capacity gaps for waste management during the plan period for the preferred option of net self-sufficiency (in line with STRATEGIC OBJECTIVE 3). The purpose of Policy 2 is to ensure that sufficient land is identified to accommodate built waste management facilities to deal with these identified capacity gaps for North London (in line with STRATEGIC OBJECTIVE 2).

9.13 In Schedules 2 and 3, ~~T~~the NLWP identifies thirteen ~~several areas~~ Priority Areas to provide land suitable for the development of waste management facilities, including RRCs (see Policy 4). Each 'Priority Area'~~'area'~~ comprises ~~a number of individual plots of land, for example,~~ an industrial estate or employment area that is in principle suitable for waste use~~ but where land is not safeguarded for waste~~. The identification of ~~areas~~ Priority Areas suitable for waste uses, subject to detailed site assessment at planning application stage, will help to achieve net self-sufficiency whilst encouraging co-location of facilities and complementary activities (an objective of the NPPW and Spatial ~~Framework~~Principle C). Areas listed in Schedule 2: Priority Areas ~~Areas suitable~~ for waste management and Schedule 3: Priority Areas ~~Areas~~ identified in LLDC Local Plan suitable for new waste facilities will be identified in borough policies maps, and any new waste sites will be safeguarded and identified in borough policies maps.

9.14 The Priority Areas ~~areas~~ are considered to be in the most suitable, sustainable and deliverable locations in North London for new waste management facilities when assessed against a range of environmental, economic and social factors (see STRATEGIC OBJECTIVE 5) and the Spatial ~~Framework~~Principles. The location of new waste facilities and compensatory capacity will be monitored through Monitoring Indicator IN3.

9.15 ~~The site~~ Area profiles in Appendix 2 are provided to assist developers who wish to build a waste facility in North London~~,~~. The Profiles indicate the size of each ~~area~~ Priority Area, the type of facility likely to be accommodated on the area, constraints, and any mitigation measures which may be required. Developers should be aware that any type of facility listed as potentially suitable is subject to consideration against the full suite of relevant local planning policies/guidance.

9.16 The ability of Priority Areas ~~areas~~ to accommodate a range of types and sizes of waste management facility is important to the flexibility of the Waste Plan. Table 13: Key to Waste Management Facility Types contains a full list of the types of facilities which were considered when assessing ~~sites~~ Areas and which may be required over the plan period to meet the identified capacity gap and to provide new sites for compensatory capacity. The facility types identified are broad categories which may come forward over the plan period. The order of facility types reflects their place in the waste hierarchy, with categories A and B at the 'recycling' level and C-E at the 'other recovery' level. Applicants should take account of this order when responding to the second criteria of Policy 2 which requires development proposals to manage waste as far up the waste hierarchy as practicable in line with STRATEGIC OBJECTIVE 1.

9.17 The NLWP recognises that currently emerging or unknown waste management technologies, not listed in Table 13 'Key to Waste Facility Types', may be proposed ~~on allocated sites and within identified areas~~ during the plan period as new ways of treating waste come to the fore. As with all proposals, those for waste management technologies not listed will be assessed against the relevant NLWP policies, policies in the London Plan, Borough Local Plan policies and related guidance.

~~**Table 13: Key to Waste Management Facility Type**~~

	~~**Facility type**~~
~~A~~	~~Recycling~~
~~B~~	~~Composting (including indoor / in-vessel composting)~~
~~C~~	~~Integrated resource recovery facilities / resource parks~~
~~D~~	~~Waste treatment facility (including thermal treatment, anaerobic digestion, pyrolysis / gasification, mechanical biological treatment)~~
~~E~~	~~Waste transfer~~

9.18 A full assessment of the suitability of the Priority Area ~~area~~ for a facility type should be prepared by the developer to inform any development application for waste use. This will allow for a more detailed analysis and consideration of potential impacts associated with a specific proposal at the planning application stage.

9.19 In North London the most likely options for waste management will be recycling and recovery. The test of whether the proposed management is acceptable in terms of the waste hierarchy will be based on the type of waste and the treatment proposed and demand.

9.20 It is not within the remit of the NLWP to directly allocate sites/areas within the London Legacy Development Corporation (LLDC) planning authority area; this falls to the LLDC Local Plan. Therefore Schedule ~~4~~ 3 sets out separately those ~~areas~~ Priority Areas identified in the LLDC Local Plan as being potentially suitable for built waste management facilities.

Policy 3: Windfall Sites

Policy 3: Windfall Sites

Applications for waste development on windfall sites outside of the existing sites and ~~areas~~ Priority Areas for new waste management facilities identified in Schedules 1,2 and 3 will be permitted provided that the proposal can demonstrate that:

a) the sites and ~~areas~~ Priority Areas identified in Schedules 1, 2 and 3 are not available or suitable for the proposed use or the proposed site would be better suited to meeting the identified need having regard to the Spatial Principles;

New) sites have first been sought outside Enfield before sites within Enfield were considered, and that no sites outside Enfield are available or suitable, in line with Spatial Principle B;

b) the proposed site meets the criteria for built facilities used in the site selection process (see Table 10 of Section 8 of the NLWP) the proposal fits within the NLWP Spatial ~~Framework~~Principles, and contributes to the delivery of the NLWP aim and objectives;

c) future potential development including Opportunity Areas identified in the London Plan, and transport infrastructure improvements such as West Anglia Main Line, Four Tracking and Crossrail 2 would not be compromised by the proposals,;

d) it is in line with relevant aims and policies in the NLWP, London Plan, Opportunity Area Planning Frameworks, Local Plans and related guidance; and

e) waste is being managed as far up the waste hierarchy as practicable

This policy helps meet strategic objectives SO2 and SO3

This policy contributes towards Spatial ~~Framework~~ Principles ~~components~~ B and C

9.21 The purpose of this policy is to ensure that development for new waste facilities on sites which do not form part of the planned strategy in the NLWP make a positive contribution to managing waste in North London. Windfall sites refer to locations which are not identified in Schedules 1-3 of this Plan. Windfall sites will cater for the needs of new waste facilities as well as those of displaced facilities lost under proposals considered under Policy 1. Windfall sites will also need to comply with Policy 5 which applies to all proposed waste developments.

9.22 The ~~site~~ search process for suitable potential locations for waste facilities has been extensive, thorough, and subject to public consultation, Equality Impact Assessment (EQIA), Sustainability Appraisal (SA) and Habitats Regulations Assessment (HRA). The Priority Areas identified in Schedules 2 and 3 meet the requirements of the Spatial Principles. However, there remains a possibility that sites not identified in the plan i.e. windfall sites may be brought forward by operators or landowners for waste development over the plan period.

9.23 Developers of windfall sites are required to demonstrate why it is not possible to use, expand or intensify an existing waste site set out in Schedule 1 or why ~~the~~ sites ~~and~~ in the ~~areas~~ Priority Areas in Schedules ~~1,~~ 2 and 3 are not available or suitable. In addition, to help address concerns that there is a high proportion of North London's waste facilities already in Enfield, and help deliver a better geographical spread of sites (Spatial Principle B), developers are required to demonstrate that no sites are available or suitable outside of Enfield before considering those within the Borough. The exception to this is for Recycling and Reuse Centres (RRCs) where there is an identified need in Enfield and Barnet to improve the coverage across North London (see Policy 4). The evidence will need to demonstrate an adequate search has been undertaken which takes into account the type of waste facility proposed, the criteria set out in Table 10 and the criteria set out in policy 6.

9.23(cont) Developers proposing waste sites outside the Priority Areas will be expected to demonstrate ~~or~~ that the proposed site would be better suited to meeting the identified need for North London having regard to delivering the Spatial Principles of the NLWP. For example a windfall site may deliver a better geographic spread of facilities in North London (Spatial Principle B), or there may be an opportunity to co-locate a recycling facility with a reprocessing plant (Spatial Principle C) or an opportunity for small scale expansion of an existing site onto adjacent land which

helps facilitate the maximum use of an existing waste site and enable co-location of facilities. There may be instances in the future where advances in waste technologies are such that existing sites or Priority Areas ~~the identified sites/areas~~ do not meet the technical requirements of a proposed waste management facility, for example, the identified locations might be too small for the proposed development or the facility may need to be located near a specific waste producer or user of heat. Some of the ~~areas~~ Priority Areas identified in Policy 2 may become unavailable over the Plan period because they will be used for other purposes or affected by future development proposals such as Crossrail 2 and Opportunity Areas. Locating certain types of waste processing sites within large scale redevelopment areas may also have benefits for reducing need for waste transport especially during the construction phase for the management of CDE. In addition, it is also recognised that proposals on windfall site may come forward to provide capacity for displaced facilities from within the plan area where existing capacity needs to be re-provided locally and this need cannot be m~~n~~et through the existing allocations.

9.24 Proposals for waste development on windfall sites will be supported where the proposal would not compromise existing planning designations and where the impacts on communities and environment can be satisfactorily controlled. ~~This~~ In proposing a windfall site, developers will need to demonstrate that the spatial ~~framework~~principles set out in chapter 4 have been considered, and in particular ~~should not work against~~ that the proposed site can deliver the spatial principle of balanced geographical distribution of waste facilities across North London, taking into account the concentration of existing waste sites in Enfield with reference to the NLWP Annual Monitoring Report. ~~as set out in the Spatial Framework~~.

9.25 Proposals for waste development on windfall sites should be in line with the London Plan, the NLWP, and Local Plans adopted by the North London boroughs. Proposals for waste facilities on windfall sites will need to demonstrate compliance with the same planning and spatial assessment criteria (Table 10, section 8) used for the identification of sites and areas in the NLWP, and any other relevant material considerations, including the assessment criteria as set out within policy 5. The windfall sites policy has been developed to ensure that any unplanned development contributes positively to future waste capacity in the plan area while not undermining the approach to development set out in the NLWP, the London Plan and Local Plans. Any waste development brought forward on a windfall site must meet the same high level of sustainability as the ~~areas~~ Priority Areas identified through the site and area selection process.

9.26 Applications for waste developments on windfall sites will need to demonstrate how the application supports delivery of the NLWP and assists in the aim of net self-

sufficiency (STRATEGIC OBJECTIVE 3) by providing capacity that addresses the requirements of North London to manage more of its own waste or in providing replacement capacity for an existing facility which has been displaced. In line with the aim and objectives of the plan, planning applications will need to demonstrate that there will be social, economic and environmental benefits from the development and that amenity will be protected (STRATEGIC OBJECTIVE 5).

9.27 Historically, waste development has been concentrated within the east and west of North London. Policy 3 provides an opportunity to develop a wider network of sites across the area, in line with the Spatial ~~Framework~~Principles. This policy allows new sites to come forward across the area where demand and commercial opportunity arise helping to provide a wider spread of facilities across the plan area in future.

9.28 There will be mixed use developments across North London within the period of the NLWP. The ~~revised~~ London Plan sets out a framework for development of new housing and employment together with the ancillary development necessary to sustain that development. Crossrail 2 will impact considerably on north London as mixed use development is expected to accumulate around Crossrail 2 stations.

9.29 In large scale redevelopment areas across the boroughs there is opportunity to plan for waste uses to form part of the master-planning process. In this way it should be possible to design-out any potential land use conflicts with non-waste uses in close proximity and support the agent of change principle as promoted by the London Plan. In such areas it may also be beneficial to allow temporary sites that can manage CDE waste generated as part of the redevelopment, subject to licencing and planning requirements.

9.30 In areas which contain a mixed use of employment and housing, suitable waste uses are likely to be re-use, repair or recycling uses. The following issues need special considerations when designing waste facilities into a mixed use area as part of the master planning process.

- How to minimise visual and acoustic nuisance from the site to residential properties and other uses, including utilising suitable screening , building orientation including avoiding residential units overlooking waste operations or vehicle site access points, and use of appropriate building materials.
- Impact of odour, dust, litter on local amenity – An Environmental Management Plan to be submitted in support of a planning application to be applied to prevent such impacts from becoming a nuisance;
- Access and traffic – consider the most appropriate route and timing for vehicles to access the waste facility and separation of access to avoid conflict with traffic and access associated with neighbouring uses.

These issues are considered in more detail in policy 5 including a presumption that waste uses will be enclosed.

9.31 STRATEGIC OBJECTIVE 1 seeks to support movement of North London's waste as far up the waste hierarchy as practicable. The test of whether the proposed operations are acceptable in terms of the waste hierarchy will be based on the type of waste and the treatment proposed and demand.

Policy 4 – Re-use & Recycling Centres

Policy 4 – Re-use & Recycling Centres

Proposals for Re-use & Recycling Centres will be permitted where:

a) They improve the coverage of centres across the North London Boroughs, in particular ~~are sited~~ in an area of identified need for new facilities in Barnet or Enfield ~~or elsewhere where they improve the coverage of centres across the North London Boroughs,~~ and;

b) They are in line with relevant aims and policies in the North London Waste Plan, London Plan, Local Plans and other related guidance.

This policy helps meet strategic objectives SO1, SO2 and SO3

This policy contributes towards Spatial ~~Framework~~ Principles ~~components~~ A and B

9.32 Re-use & Recycling Centres (RRCs) provide members of the public with access to a wider range of recycling facilities and they also deal with bulky items. There are currently eight~~nine~~ RRCs in North London of which seven~~eight~~ are the responsibility of the North London Waste Authority (NLWA). They are safeguarded for waste use under Policy 1. The NLWA has identified areas of deficiency in coverage in parts of Barnet and Enfield and is seeking to address this by providing new or replacement sites so that 95% of residents live within two miles (measured as a straight line) of a facility[22] - see Figure 7 in Section 4. The NLWA is also proposing a new RRC on the Edmonton EcoPark site as part of its current Development Consent Order (DCO)

[22] Household Waste Recycling Centre Policy, North London Waste Authority (June 2010)

application on the site. The Spatial ~~Framework~~ Principles seeks a network of waste sites across North London and, as part of this aim, to ensure residents have good access to RRCs where there is an identified need.

9.33 Re-use & Recycling Centres should be located where they can provide appropriate access for members of the public and for contractors and their vehicles. They are best sited on former waste sites or in areas of industrial or employment land and need to be of a sufficient size for the range and quantity of materials likely to be received. Sites ~~within~~ and areas identified in Schedules 1, 2 and 3 ~~Areas suitable for waste management~~ are likely to be the most suitable locations, and Policy 3: Windfall Sites will apply to any application for an RRC outside of these areas. There may be scope to provide localised recycling centres as part of major new development.

Policy 5: Assessment Criteria for waste management facilities and related development

Policy 5: Assessment Criteria for waste management facilities and related development

Applications for waste management facilities and related development, including those replacing or expanding existing sites, will be required to demonstrate to the satisfaction of the relevant Borough that:

a) the amenity of local residents is protected;

New) the proposal maximises the waste management capacity of the site

b) the facility will be enclosed unless justification can be provided by the developer ~~as to why that is not necessary~~that an equivalent level of protection can be permanently achieved by other means;

c) adequate means of controlling noise, vibration, dust, litter, vermin, odours, air and water-borne contaminants and other emissions are incorporated into the scheme;

d) there is no significant adverse effect on any established, permitted or allocated land uses likely to be affected by the development;

e) the development is of a scale, form and character in keeping with its location and incorporates appropriate high quality design;

f) there is no significant adverse impact on ~~the historic environment (heritage assets and their settings, and undesignated remains within Archaeological Priority Areas)~~, open spaces or land in recreational use or landscape character of the area including the Lee

Valley Regional Park;

new) heritage assets and their settings are conserved and where appropriate enhanced;

~~f)~~g) active consideration has been given to the transportation of waste by modes other than road, principally by water and rail;

~~g)~~h) there are no significant adverse transport effects outside or inside the site as a result of the development;

~~h)~~i) the development avoids increasing the levels of vulnerability to climate change, makes appropriate adaptation and mitigation measures to achieve this, and helps reduce greenhouse gas emissions~~makes the fullest possible contribution to climate change adaptation and mitigation~~;

~~i)~~j) the development has no adverse effect on the integrity of an area designated under the Habitats Directive and no significant adverse effect on local biodiversity or water quality;

~~j)~~k) there will be no significant impact on the quality of underlying soils, surface or groundwater;

~~k)~~l) the development has no adverse impact on Flood Risk on or off site and aims to reduce risk where possible;

m) ~~appropriate permits are held or have been applied for from the Environment Agency~~

~~l) ;~~

~~m)~~n) there is no adverse impact on health

~~n)~~o) there are no significant adverse effects resulting from cumulative impact of any proposed waste management development upon amenity, the economy, the natural and the built environment either in relation to the collective effect of different impacts of an individual proposal, or in relation to the effects of a number of waste developments occurring concurrently or successively.

~~o)~~p) There are job creation and social value benefits, including skills, training and apprenticeship opportunities[23].

~~p)~~q) The proposal is supported by a Circular Economy Statement

[23] This requirement is an issue for all development and waste applications should provide details as to how they will meet these objectives.

This policy helps meet strategic objectives SO4, SO5, SO7 and SO8

This policy contributes towards Spatial ~~Framework~~ Principles ~~component~~ C, E and F

9.34 Policy 5 seeks to ensure that the construction and operation of waste facilities does not give rise to an unacceptable impact on health~~,~~ or harm the **amenity** of local residents or the environment. Amenity is defined as any element providing positive attributes to the local area and its residents and impacts can include such issues as, but not limited to, increased levels of local air pollution, increased noise disturbance, light impacts including increased light or reduced light or sunlight, reduced privacy, loss of outlook and reduced visual amenity. Applicants will need to demonstrate that appropriate measures and/or Best Available Techniques (BAT) (where applicable) have been taken to minimise any potential impacts from the proposed waste development to ensure the protection of local amenity and healthy. The specific requirements will vary from site to site, however issues to be addressed may include strict hours of operation, effective cladding on buildings to prevent noise pollution, and dust and odour suppression systems as appropriate. These issues are discussed in more detail below. Policy 5 helps deliver a number of the STRATEGIC OBJECTIVES, including SO4 which seeks high standards of design, SO5 which seeks to integrate social, environmental and economic considerations, SO6 which seeks a low carbon economy, SO7 which supports the use of sustainable forms of transport, and SO8 which seeks to protect the natural environment, biodiversity, cultural and historic environment.

New London Plan policy SI8 promotes capacity increases at waste sites and where appropriate to maximise their use. In order to demonstrate that North London's land is being used to its highest potential, developers are required to provide evidence that the waste management capacity on a site has been optimised. This could be in reference to similar facilities operating to a high standard.

9.35 Waste facilities can be separated into **'enclosed'** facilities, where waste is processed inside a building and 'open' facilities, which largely deal with waste in the open air. Waste facilities are often seen as bad neighbours, due to problems associated with open air facilities. It is current best practice that the operations are carried out within a covered building enclosed on all vertical sides with access and egress points covered by fast acting doors which default close in order to minimise local public health and environmental impact. Such enclosed facilities are similar in appearance to modern industrial shed developments such as factories or logistics facilities ~~and it is this type of facility that is the focus of the NLWP site allocations~~. 'Open' facilities

are unlikely to be suitable for North London as outlined in the section 3 of the Plan except in exceptional circumstances. There are types of waste development for specific waste streams or waste types that may not need to or should not be enclosed but any activity likely to cause dust should be carried out within a building or enclosure. Enclosing waste management facilities not only results in less dust and particulate pollution but will also reduce the risk of pollution caused from other amenity issues such as noise, pests and odour. **Noise, vibration, dust, litter, vermin, odours, air and water-borne contaminants**, other emissions and their potential health impacts have been a major concern raised through public consultation. However, well sited, and well managed facilities should not cause harm or disturbance. Details of controls for emissions (including bio aerosols) from the site need to be supplied with the application. Planning conditions and section 106 agreements will be used to secure measures to address any issues where necessary and where control is not already exercised through other consent regimes (i.e. the requirement for environmental permits, which is assessed by the Environment Agency). Applicants will be expected to comply with Borough policies on contaminated land. The North London boroughs require that any development can safely complement surrounding uses.

9.36 The North London boroughs expect well controlled and well-designed waste facilities capable of fitting in with **surrounding land uses** and acting as good neighbours. Where development is proposed close to residential areas, in line with STRATEGIC OBJECTIVE 4 and the agent of change principle, the design must incorporate noise reduction measures as well as dust and odour suppression as necessary. It should be designed to minimise its impact on the local area and ensure it is compatible with existing surrounding land uses. When assessing planning applications for waste uses, in addition to Policy 5, the boroughs will also have regard to the criteria in Appendix B of the NPPW and relevant London Plan and Local Plan policies. Applicants are required to submit sufficient information to enable the waste planning authority within which the subject site falls to assess the potential impact of the development proposal on all interests of acknowledged importance. Applicants are encouraged to contact the relevant borough prior to submitting a planning application to discuss relevant matters. Where new waste development is being sited near existing waste sites, developers will be expected to consider potential cumulative impacts as well as also demonstrating any possible benefits of co-locating waste development (in line with Spatial Principle C). **Good design** is fundamental to the development of high quality waste infrastructure and, to deliver STRATEGIC OBJECTIVE 4, the North London boroughs seek approaches that deliver high quality designs and safe and inclusive environments. The documents submitted in support of the planning application should set out how the development takes on

board good practice such as the Defra/CABE guidance on designing waste facilities[24]. The supporting documents should set out how the siting and appearance complements the existing topography and vegetation. Materials and colouring need to be appropriate to the location. The development should be designed to be in keeping with the local area and include mechanisms for reducing highway deposits[25], noise and other emissions where necessary.

9.37 The supporting documents should set out how landscape proposals can be incorporated as an integral part of the overall development of the site and how the development contributes to the quality of the wider urban environment. The applicant will need to demonstrate that there will be no significant adverse effect on areas or features of landscape~~, historic~~ or nature conservation value. Where relevant, applications for waste management facilities and related development will be required to demonstrate that they conserve and, where appropriate, enhance heritage assets and their settings including consideration of non-designated archaeology where relevant ~~the delivery of waste facilities (through construction to operation) should take account of the need to conserve and enhance the historic environment in~~ line with the NPPF.

9.38 Where sites include, or are likely to have an impact on the setting of a **heritage** asset both designated (Listed Buildings, Conservation Areas, Scheduled Ancient Monuments, Registered Historic Parks and Gardens and Battlefields) and undesignated, including archaeology, it should be demonstrated that the development will conserve the significance of the asset. Where the site has potential to include assets with archaeological interest, such as if it is in an archaeological area identified in a Borough Local Plan or may affect a site recorded on the Greater London Historic Environment Record, an appropriate desk based assessment and, where necessary, a field evaluation, is required to accompany the planning application. Where such an assessment and evaluation confirms significant archaeological interest then appropriate mitigation by design or investigation is also required.

[24] Designing waste facilities – a guide to modern design in waste, Defra & CABE, 2008

[25] This can be achieved through provision of wheel wash facilities etc where required and placing conditions of the applications to ensure all vehicles are covered

9.39 A large part of the Lee Valley Regional Park (1483 ha) falls within four of the North London Boroughs involved in the Plan; Waltham Forest, Haringey, Enfield and Hackney. New development should contribute to the protection, enhancement and development of the Regional Park as a world class visitor destination and the wider public enjoyment of its leisure, nature conservation, recreational and sporting resources. The Lee Valley is a significant resource for North London and developments should not have an adverse effect on the **open space** and character of the area, and should aim to contribute to its enhancement where appropriate.

9.40 Waste and recyclables require transportation at various stages of their collection and management and so opportunities to employ more sustainable options such as rail and river should be fully considered. STRATEGIC OBJECTIVE 7 supports the use of sustainable forms of transport and minimise the impacts of waste movements including on climate change. North London is characterised by heavy traffic on all principal roads. That is why developers need to prioritise **non-road forms of transport** if at all possible and to set out their assessment of sustainable transport options in a Transport Assessment detailing transport issues to be submitted with any planning applications for waste facilities (see below). In North London there exists considerable potential for sustainable transport of waste as part of the waste management process. There are a number of railway lines and navigable waterways in North London including the Regents Canal and the Lee Navigation. It is existing practice to transport waste by train and pilot projects have taken place to transport waste by water. Developers are required to demonstrate that they have considered the potential to use water and rail to transport waste before reliance on transport of waste by road. Where the site lies adjacent to a wharf or waterway, capable of transporting waste, developers need to demonstrate that consideration has been given to the provision and/or enhancement of wharf facilities. This will be monitored through Monitoring Indicator IN5 (see Chapter 10). Waste transfer activities that do take advantage of rail and or boat transportation must also ensure that they design their site and meet the standards required by all waste management sites stated in this Plan.

9.41 Applicants will need to submit a **Transport Assessment** in line with the relevant borough Local Plan policy and the London Plan. The Transport for London Best Practice Guide contains advice on preparing Transport Assessments when they are required to be submitted with planning applications for major developments in London. Consideration should be given to access arrangements, safety and health hazards for other road users, the capacity of local and strategic road networks, impacts on existing highway conditions in terms of traffic congestion and parking, on-site vehicle manoeuvring, parking and loading/unloading areas, and queuing of

vehicles. The ~~statement~~ Assessment should include a traffic management plan establishing the times of access for vehicles to minimise disruption on the local road network during peak hours, and setting out specific routes to ensure that vehicles are accessing the site via roads considered suitable by the Highways Authority and, where possible, avoid overlooking of the site access by residential properties. The Assessment should cover the types of vehicles to be used, including opportunities to use low emission vehicles, alternatives to vehicles powered by the internal combustion engine, and the provision of any infrastructure at future or expanded waste sites to accommodate this. The statement should also cover emission standards and fuel types in line with national and regional air quality standards.

9.42 The development of Servicing and Delivery Plans and Construction Logistic Plans (CLP) will be encouraged for all waste developments. Such Plans ensure that developments provide for safe, efficient and legal delivery and collection, construction and servicing including minimising the risk of collision with vulnerable road users such as cyclists and pedestrians. Consideration should be given to the use of Direct Vision Lorries for all waste vehicles in line with the Mayor's Vision Zero Action Plan, and the use of freight operators who can demonstrate their commitment to TfL's Freight Operator Recognition Scheme (FORS) or similar. Developers need to demonstrate that they can operate servicing and deliveries in the most efficient way that makes best use of transport movements that are made.

9.43 Sustainable design, construction and operation of waste management development will be assessed against relevant ~~borough Local~~Development Plan policies. In line with STRATEGIC OBJECTIVE 6, ~~C~~consideration should be given to how the development contributes to the mitigation of and adaption to **climate change**, promotes energy and resource efficiency during construction and operation with the aim of developments being carbon neutral, the layout and orientation of the site and the energy and materials to be used. Developments should achieve the highest possible standard under an approved sustainability metric such as BREEAM or CEEQUAL in line with the relevant borough's policies. Information supplied should enable the borough in question to assess the proposal against relevant planning policies by clearly setting out how the application complies with sustainable design and construction policies and guidance including measureable outputs where appropriate. Where appropriate, production of a site waste management plan should be provided prior to the commencement of construction of the development.

9.44 ~~Waste developments should be designed~~Criteria 5j seeks to protect and enhance local **biodiversity**. Development proposals will be assessed against this policy as well as other relevant principles and policies set out in the NPPF and Borough Local

Plans. Development that would have an adverse effect on any area designated under the Habitats Directive will not be permitted. Assessments undertaken for the Plan have identified sites of European Community importance within and nearby the Plan area. Sites at least partially within the Plan boundary are the Lee Valley Special Protection Area (SPA) and RAMSAR site and part of Epping Forest Special Area for Conservation (SAC). Additional sites at least partially within 10 km of the Plan area boundary are Wormley-Hoddesdon Park Woods SAC and Wimbledon Common SAC3. Developers need to be able to demonstrate that their proposals will not have an adverse effect on the integrity of any European site. In addition there are six Sites of Special Scientific Interest and 20 Local Nature Reserves as well as sites of importance to nature conservation (SINC). Developers should take note of existing Biodiversity Action Plans, protect existing features and promote enhancement for example through the use of green walls where acoustic barriers are required. Where a development site is adjacent to a river the Environment Agency has advised that a setback of a minimum of 8 metres from the top of the bank should be incorporated into any redevelopment proposals. Consistent with this advice, setting back waste management development (not including wharf development) from watercourses and providing an undeveloped buffer zone free from built structures will be important for maintaining access to the river, to allow the landowner access for routine maintenance activities and for the Environment Agency to carry out Flood Defence duties. Maintaining a sufficient wildlife and riverside corridor is also important for minimising the potential adverse impacts to the **water quality** and riverine habitats. This will provide opportunities for flood risk management in line with the Environment Agency Catchment Flood Management Plans. Opportunities for river restoration through the development of sites should also be encouraged to ensure compliance with requirements under the Water Framework Directive and the Thames River Basin Management Plan.

9.45 There are a number of **groundwater** source protection zones in North London to protect drinking water supplies and prevent contamination of aquifers. Source protection zone 1 boundaries are defined in the immediate area of boreholes and other abstraction points. Waste facilities may be permitted in source protection zone 1 provided that any liquid waste they may contain or generate or any pollutants they might leach, especially if hazardous, do not pose an unacceptable risk to groundwater. A groundwater risk assessment will be required. Soil quality will need to be protected from potential adverse impact by certain operations, such as open windrow composting. The following waste facilities are considered lower risk and are more likely to be acceptable:

- Energy from Waste ;
- In-Vessel Composting activities;

- Mechanical Biological Treatment;
- Materials Recycling Facility (dry wastes only), and;
- Waste Electrical and Electronic Equipment (WEEE) sites that exclude potentially polluting wastes.

9.46 Higher risk waste uses are less likely to be acceptable in source protection zone 1. Early liaison with the Environment Agency is encouraged.

9.47 Source protection zone 2 covers a wider area around an abstraction point. Where developments are proposed in source protection zone 2, a risk assessment will be required and any waste operation apart from landfill may be considered. Where sites are in source protection zones, developers are encouraged to engage in early discussions with the Environment Agency.

9.48 The North London Strategic Flood Risk Assessment (SFRA) and individual borough 'Level 2' SFRAs have demonstrated the current risks from **flooding** from various sources across North London and site specific flooding assessments have been undertaken on ~~new sites/areas~~Priority Areas in schedules 2 and 3. Where a site is near or adjacent to areas of flood risk, the development is expected to contribute through design to a reduction in flood risk in line with the NPPG. Development proposals will be required to assess the impact of climate change using the latest published climate change allowances, mitigate to the appropriate future flooding scenario using these~~s~~ allowances. A sequential approach to the layout of the site should be taken aiming to locate development in the parts of the site at lowest risk of flooding. Waste facilities are often characterised by large areas of hardstanding for vehicles and large roof areas. Development proposals will be required to show that flood risk would not be increased as part of the scheme and, where possible, will be reduced overall through the use of Sustainable Drainage Systems (SuDS) and other techniques. Any proposed development should be reviewed by the Environment Agency at an early stage to discuss the reduction of flood risk on the site.

9.49 ~~Developers of waste facilities should at the time they submit their planning application be engaged with the Environment Agency and hold or be in the process of applying for appropriate **permits from the Environment Agency** as the contemporaneous consideration of planning and environmental permit enables the application to be considered in the round.~~

~~9.49~~9.50 Developers of waste facilities will need to fully identify the **health implications** of the development and plan the most appropriate scheme to protect the surrounding uses and community. Any proposed waste development which is required to

have an Environmental Impact Assessment will also require a Health Impact Assessment.

~~9.50~~9.51 Paragraph 5 of the National Planning Policy for Waste (NPPW) requires consideration be given to:

"The cumulative effect of existing and proposed waste disposal facilities on the well-being of the local community, including any significant adverse impacts on environmental quality, social cohesion and inclusion or economic potential".

~~9.51~~9.52 **Cumulative impacts** relate to the way in which different impacts can affect a particular environmental resource or location incrementally, for example, combined noise, dust and traffic emissions on a dwelling from a new road scheme. In essence, cumulative impacts are those which result from incremental changes caused by other past, present or reasonable foreseeable actions together with the proposed development. Therefore, the potential impacts of the proposed development cannot be considered in isolation but must be considered in addition to impacts already arising from existing or planned development.

~~9.52~~9.53 In determining an application for a new waste facility, account will normally be taken of the potential cumulative impact of waste management and other development within the locality and in particular the area's capacity to absorb that change. Factors to be taken into account will include; the nature of the waste and the process involved; the direction of the prevailing wind; the amount of enclosure for the processes; use of odour neutralisation and minimisation; measures for dust control; the number of persons affected by the development and its duration; the effects on amenity that pollution would cause; local topography providing natural screening; the extent of noise and vibration generated by the operations; the proposed hours of working; and the impact of flood-lighting. In some instances, the combined impact of development over a sustained period of time may be sufficient to warrant refusal of planning permission. However it is acknowledged that cumulative impacts can have positive impacts through synergies with other local waste uses and businesses in the area. Such synergies may lead to less road miles for waste as well as the potential development of green industry hubs attracting more highly skilled and technical jobs. Proposals should seek to make a positive contribution to improving issues of deprivation and inequality within local communities. Where an area has historically hosted significant waste infrastructure and is moving towards regeneration initiatives to improve its economic and investment potential, the cumulative impact on these regeneration activities should be considered when waste development is proposed, especially where the benefits of co-location and economies of scale are outweighed by a resultant reduction in land values, employment opportunities and regeneration potential. In these

circumstances where development takes place, opportunities to address inequalities should be taken up in order to promote a better spatial distribution of facilities and avoid undue concentration of waste uses.

~~9.53~~9.54 As stated throughout this document applications will be assessed against the full suite of relevant **national, London Plan and Local Plan policies** and guidance. However, given the status of the NLWP as a multi-Borough DPD which will form part of the Local Plan of each of the seven Boroughs, Policy 5 is a valuable signpost to impacts that will be considered in the determination of applications and will help deliver STRATEGIC OBJECTIVE 5 which seeks to ensure the delivery of sustainable waste development within the Plan area through the integration of social, environmental and economic considerations.

~~9.54~~9.55 As part of the application, and in line with policies in the borough local plan, Developers should give details of the jobs created as a result of the new development, the level of skills required and the availability of **training and apprenticeship** opportunities. Developers should seek to meet the aspirations of borough economic and employment strategies and make a positive contribution to the local economy.

~~9.55~~9.56 As part of the Circular London programme, LWARB published a **Circular Economy** Route Map in June 2017. The Route Map recommends actions for a wide range of stakeholders, including London's higher education, digital and community sectors as well as London's businesses, social enterprises and its finance sector. Developers should submit a Circular Economy Statement in line with the London Plan and guidance issued by the Mayor.

Policy 6: Energy Recovery and Decentralised Energy

Policy 6: Energy Recovery and Decentralised Energy

Where waste cannot be managed at a higher level in the waste hierarchy ~~and recovery of energy from waste is feasible,~~ waste developments are required to ~~should~~ generate energy, ~~and/or~~ recover excess heat ~~(including the recovery of energy from gas)~~ and provide a supply to networks including decentralised energy networks unless it is not technically feasible or economically viable to do so. Developers must demonstrate how they meet these requirements as part of a submitted Energy Statement .

Where there is no available decentralised energy network and no network is planned within range of the development, as a minimum requirement the proposal should recover energy through electricity production and be designed to enable it to deliver heat and/or energy and connect to a Decentralised Energy Network in the future.

~~Developers must demonstrate how they meet these requirements, or provide evidence if it is not technically feasible or economically viable to achieve them, as part of a submitted Energy Statement.~~

This policy helps meet strategic objectives SO1 and SO6

This policy contributes towards Spatial ~~Framework~~ Principle ~~component~~ D

~~9.56~~9.57 Tackling climate change is a key Government priority for the planning system and a critical new driver for waste management. The purpose of this policy is to ensure that applications for waste management facilities incorporate opportunities for sustainable energy recovery and combined heat and power (CHP) where feasible and practicable. The policy helps deliver STRATEGIC OBJECTIVE 6 to provide opportunities for North London to contribute to the development of a low carbon economy and decentralised energy. The policy complements more detailed policies in borough Local Plans on financial contributions relating to feasibility, sustainable design, CHP and development of heat networks, against which applications will also be considered.

~~9.57~~9.58 The NPPW and the London Plan both recognise the benefits to be gained from any energy from waste facility to capture both heat and power, and encourage all developments of this kind to achieve that end.

~~9.58~~9.59 National policy for renewable energy says that Local Development Documents, such as the NLWP, should contain policies that promote and encourage, rather than restrict, the development of renewable energy resources. The London Plan includes minimum performance for technologies for generating energy from London's waste, known as the carbon intensity floor. This has been set at 400 grams of CO_2 eq generated per kilowatt hour (kwh) of electricity generated.

~~9.59~~9.60 The GLA has committed to working with London Boroughs and partners in the private sector to develop opportunities by providing assistance for

commercialisation of large decentralised energy projects. Opportunities for district heating were identified across London as part of the Decentralised Energy Master Planning programme led by the GLA in 2008-2010[26]. The programme initially focused on identifying opportunities for district heating networks through heat mapping and energy masterplanning with the London Boroughs.

~~9.60~~9.61 Work is already underway to progress the delivery of a decentralised network in the Lee Valley known as Meridian Water ~~the Lee Valley Heat Network (LVHN).~~ ~~The LVHN~~ Meridian Water will capture affordable low carbon heat from waste to energy facilities and combined heat and power plants, supplying it to buildings and industry across the Lee Valley. Meridian Water~~The LVHN~~ is requesting hot water to be supplied for the energy from waste facility (EfW) at Edmonton EcoPark. However, over time, the network will connect additional heat sources, including other waste developments, elsewhere in the Lee Valley. Any future development, including the current plan for Meridian Water should ensure that the openness and permanence of the Green Belt is maintained in accordance with draft New London Plan Policy G2.

New The Boroughs will monitor the success of this policy through Monitoring Indicator IN8 which is the number of new CHP facilities serving district heat networks in which the principal fuel source is residual waste or recovered waste fuel.

Policy 7: Waste Water Treatment Works and Sewage Plant

Policy 7: Waste Water Treatment Works and Sewage Plant

Proposals for the provision of new facilities for the management, treatment and disposal of wastewater and sewage sludge will be permitted, provided that:

- it is demonstrated that there is an identified need for such a facility within the North London Waste Plan area, which cannot be met through existing

[26] London Heat Map – www.londonheatmap.org.uk

waste facilities; and

- the proposals meet the other policies of this North London Waste Plan together with all other relevant policies of the appropriate borough's Development Plan.~~, and meet environmental standards set by the Environment Agency.~~

This policy helps meet strategic objectives SO1, SO2 and SO5

This policy contributes towards Spatial ~~Framework~~ Principles ~~component~~ A and B

~~9.61~~9.62 Waste Water Treatment Works in North London are operated by Thames Water, with the main facility being Deephams Sewage Treatment Works (STW), which is the ninth largest in England. ~~Deephams STW serves a Population Equivalent (PE) of 891,000 (as at 2011).~~ Works to Deephams STW to ~~are planned to commence in 2018 providing~~ provide sufficient capacity to meet Thames Water's projections of future requirements into the next decade~~.~~ w~~W~~ere largely constructed by March 2017 and being completed during 2018/2019. The upgrade increased capacity from a Poulation Equivalent (PE) of 891,000 (as at 2011) to 989,000 PE. At the time the upgrade was designed (in line with population predictions at the time) it was envisaged the upgrade will accommodate population growth up until at least 2031. However, treatment capacity will be reviewed in future AMP periods to ensure ongoing capacity in relation to changing population growth predictions.

~~9.62~~9.63 The Environment Agency has issued a significantly tighter environmental permit that came into force in March 2017 and required~~requires~~ Thames Water to make improvements to the quality of the discharged effluent. The need for an effluent upgrade to Deephams STW is highlighted in the National Planning Statement on Waste Water, and planning permission for this work was granted by Enfield Council in 2015. The site is to be retained for waste water use and Thames Water anticipates that the approved recent upgrade to Deephams STW will provide sufficient effluent treatment capacity to meet their needs into the next decade~~during the plan period~~.

~~9.63~~9.64 The boroughs will work with Thames Water and the Environment Agency to ensure that adequate and appropriate waste water treatment infrastructure is provided to meet environmental standards and planned demand. In September 2014 the Government approved plans to build the Thames Tideway Tunnel - a 25km conduit flowing beneath the Thames which would provide collection, storage and transfer capacity for waste water and rainwater discharge from a significant part of Central London. Construction is scheduled to begin in 2018 with completion

scheduled for 2023. Once completed the new tunnel will be connected to the Lee Tunnel which will transfer sewage to the expanded Beckton Sewage Treatment complex. The proposal has indirect implications for the Plan area in that it will benefit from the additional capacity and this will relieve pressure for further expansion of local Waste Water Treatment Works.

~~9.64~~9.65 Any other new waste water and sewage treatment plants, extensions to existing works, or facilities for the co-disposal of sewage with other wastes will be supported where the location minimises any adverse environmental or other impact that the development would be likely to give rise to, and the suitability of the site can be justified in accordance with this Plan. The Plan has a supporting role to identify suitable locations for additional infrastructure.

New The Boroughs will monitor the success of this policy through Monitoring Indicator IN9.

Policy 8: ~~Control of~~ Inert Waste

Policy 8: ~~Control of~~ Inert Waste

Inert waste should be managed as far up the waste hierarchy as possible, including on-site recycling and reuse of such material.

Proposals for development using inert waste will be permitted where the proposal is for beneficial use, including but not limited to:~~both essential for, and involves the minimum quantity of waste necessary for:~~

a) ~~The purposes of r~~Restoring former mineral working sites; or
b) Facilitating an improvement in the quality of land; or
c) Facilitating the establishment of an appropriate use in line with other policies in the Local Plan; or
d) Improving land damaged or degraded as a result of existing uses and where no other satisfactory means exist to secure the necessary improvement.

~~Where one or more of the above criteria (a-d) are met, a~~All proposals using inert waste should:

a) Incorporate finished levels that are compatible with the surrounding landscape. The finished levels should be the minimum required to ensure satisfactory restoration of the land for an agreed after-use; and
b) Include proposals for high quality restoration and aftercare of the site, taking account of the opportunities for enhancing the overall quality of the

environment and the wider benefits that the site may offer, including biodiversity enhancement, geological conservation and increased public accessibility.

Proposals for inert waste disposal to land will not be permitted if it can be demonstrated that the waste can be managed through recovery operations ~~and that there is a need to dispose of waste~~.

This policy helps meet strategic objectives SO1, SO2 and SO3

This policy contributes towards Spatial ~~Framework~~ Principles ~~component~~ B

~~9.65~~9.66 Construction, demolition and excavation waste is largely made up of inert construction waste, such as bricks and hardcore which can be used in site restoration and land reclamation projects.

~~9.66~~9.67 Recycling and reuse of inert waste applications for all types of development should demonstrate that viable opportunities to minimise construction and demolition waste disposal will be taken, making use of existing industry codes of practice and protocols, site waste management plans and relevant permits and exemptions issued by the Environment Agency.

~~9.67~~9.68 Inert waste materials can be an important resource and should be used for beneficial purposes, such as the restoration of mineral sites and in engineering works, or at other 'exempt sites' rather than disposed of at inert landfill sites. A definition of 'beneficial uses' can be found in the New London Plan. Increased use of recycled and secondary aggregates can reduce the need and demand for primary aggregates extraction. Site operators will need to conform to the 'Aggregates from inert waste Quality Protocol' document to achieve 'end of waste' status. If this cannot be achieved and/or the operator cannot prove compliance with the protocol, then the material will not have achieved 'end of waste' status and will still be considered a waste and subject to controlled waste legislation. There is no 'end of waste' criteria for soil so this will always be viewed as a waste once it has become a controlled waste outside of the Definition of Waste Code of Practice.

9.69 Inert waste will continue to be deposited to land where it is reused for beneficial purposes, including within engineering schemes, for the restoration of mineral workings, and for agricultural improvement. Recycling and recovery are the preferred methods of management and inert waste should only be disposed of to land as a last resort, consistent with the waste hierarchy (see STRATEGIC OBJECTIVE 1).

~~9.68~~9.70 Proposals on unallocated sites for the recycling of inert waste will be permitted where it can be demonstrated that there is a market need, consistent with the principle of net self-sufficiency.

~~9.69~~9.71 There should be a clear benefit or benefits from the proposed development. This should be a benefit to the site itself, for example, the use of residual inert material associated with the restoration of an active or dormant mineral working the restoration of a former mineral working to agriculture or an engineering operation for the provision of a new leisure facility. However, given the likely disturbance to local communities and the local environment, for example, due to the movement of HGVs, there should be benefits for the wider area, for example, through environmental improvement or the creation of new public rights of way.

10. Monitoring and Implementation

Monitoring the Plan

10.1 The Planning and Compulsory Purchase Act (2004) requires planning authorities to monitor and report annually on whether the Aims and Objectives of all local plans (whether prepared individually or in conjunction with other authorities) are being achieved (paragraph 35). The NPPW identifies the need to monitor and report on the take-up of ~~allocated~~ sites ~~and areas~~in Priority Areas; changes in the available waste management capacity as a result of closures and new permissions; and the quantities of waste being created locally and how much is being managed at different levels in the waste hierarchy i.e. recycling/composting, recovery, and disposal.

10.2 Monitoring is also required to check on whether the intending policy outcomes of the NLWP are being delivered and whether the identified capacity gaps are being met through the ~~allocated areas~~Priority Areas listed in Policy 2 Schedules 2 and 3. Monitoring will also ensure that sufficient identified land remains available for new facilities during the plan period which is also likely to see intense competition for land for other uses especially housing. The results of monitoring will also play an important role in informing Development Management decisions when authorities determine planning applications for new waste facilities.

10.3 Responsibility for monitoring lies with the individual boroughs. However, the boroughs have agreed to monitor the Plan jointly through a lead borough agreement. Data will be collated ~~by each borough~~ and included in a joint NLWP~~their Authority~~ Monitoring Report which will be produced annually~~, which is produced annually~~.

10.4 To supplement the boroughs' annual monitoring, it will be important for the GLA to monitor London Plan waste Policies ~~5.16 and 5.17~~ and gather data in partnership with the boroughs on waste arisings, waste management capacity, both within London and landfill outside of London.

Proposed monitoring framework

10.5 The aim of monitoring is to check whether the policy framework in the NLWP is working as intended. The proposed monitoring indicators reflect a number of National Indicators and also the statutory and non-statutory performance targets including those set by the EU, the Waste Policy for England and the London Plan. The list of indicators is not intended to be exhaustive and is intentionally focused on

parameters where it is possible to evaluate the effect of the NLWP. For example, an indicator reporting on the number of times air quality thresholds were exceeded is of little use if the contribution of waste management facilities and transport of waste cannot be differentiated from those of other activities.

10.6 Table 14 sets out the monitoring indicators proposed for each policy in the NLWP and identifies targets where appropriate. In some cases it will only be necessary to monitor (i.e. count the number of instances of) what has happened in the preceding year. In line with statutory requirements, the North London boroughs will review the plan every five years. If any targets are not being met the boroughs will assess where changes can and should be made.

Table 14: NLWP Monitoring Indicators

	Indicator	Target(s)	What it monitors	Outcome(s) sought
IN1	Waste arisings (Table 6) by waste stream and management route ~~5. Total quantity of waste arisings managed by waste stream (LACW, C&I and CD&E) and management route (recycling/composting, recovery and disposal)~~ ~~11. Number of developments permitted which include disposal of inert waste to land~~	Waste arisings and management in line with forecasts in Table 6 (Baseline Table 3) ~~In line with Table 8 in Section 7 and the Data Study~~ ~~To ensure that inert waste is managed in line with the waste hierarchy~~	Strategic Aim (capacity supply and self-sufficiency) Strategic Aim (move waste up Waste Hierarchy) SO1 (resource efficiency) SO3 (net self-sufficiency) Meeting Future Requirements as specified in the NLWP % waste diverted and % landfilled	To check that the NLWP is planning for the right amount of waste ~~Waste Policy and London Plan targets~~ ~~Ensure the NLWP delivers a net self-sufficient waste management outcome for the principal waste streams~~ ~~To ensure that proposals involving the importation and disposal of inert waste to land are achieving in line with waste hierarchy.~~
IN2	Waste management capacity (Table 8) by waste stream and management route, including existing capacity, new	Capacity to meet net self-sufficiency targets in Tables 6 and 8	Strategic Aim (capacity supply and self-sufficiency)	To check that capacity is increasing to meet net self-sufficiency targets

	Indicator	Target(s)	What it monitors	Outcome(s) sought
	capacity, loss of capacity, compensatory capacity and capacity gaps 3. Tonnage of waste capacity, including new waste capacity available by management type (recycling/composting, recovery and disposal) and type of wastes handled (LACW, C&I and CD&E) 4. Loss of existing waste capacity and provision of replacement capacity	Zero loss of capacity Replacement locally, within the Borough, North London or London Replacement capacity for Brent Cross Cricklewood provided within Barnet Capacity sufficient to manage capacity requirements as set out in Table 6 Capacity Gaps. New waste facilities in line with Table 7: land take requirements	Strategic Aim (move waste up Waste Hierarchy) SO1 (resource efficiency) SO3 (net self-sufficiency) Meeting Future Requirements as specified in the NLWP Policy 2: Priority Areas for new waste management facilities Area allocations Policy 3: Unallocated sitesWindfall Sites Policy 4. Reuse and Recycling Centres Policy 7 Waste Water Treatment Works and Sewage Plant Policy 8 Control of Inert Waste	Ensure sufficient capacity of the right type is available throughout the plan period Ensure that capacity is replaced locally unless net self-sufficiency has been met valid planning reasons are provided for not doing so.
IN3	Location of new waste facilities and compensatory capacity 1. Amount of Land within identified areas or on windfall sites brought forward for	Land within Schedules 1, 2, 3 In line with Table 7: landtake requirements	SO2 (capacity provision) Policy 1: Existing waste management sites Policy 2: Area allocationsPriority	To check that identified sites and areasin Priority Areas are being taken up as anticipated.

	Indicator	Target(s)	What it monitors	Outcome(s) sought
	~~waste use during the plan period.~~		Areas for new waste management facilities Policy 3: ~~Unallocated~~ Windfall sites	To monitor if land within Schedules 1, 2 and 3 is not available or suitable for new waste facilities.
IN4	~~2.~~ Sites in Schedule 1 and ~~Areas~~ Priority Areas in Schedules 2 and 3 lost to other non-industrial uses through a major regeneration scheme or designated for non-industrial uses in a review of the London Plan or Local Plan	Less than 25% of land lost If 50% of land is lost this will trigger review of plan	(capacity provision) Policy 2: Priority Areas for new waste management facilities~~Area allocations~~	check that identified land is sufficient to deliver the plan's aims ensure sufficient existing capacity remains for managing the levels of waste expected across North London over the plan period as set out in Table 8.
IN5	The number of sites consented that offer non-road transport options, the number of those sites where such options have been implemented and the total tonnage transported through non-road options (where known).	Facilities where non-road forms of transport are used to move waste and recycling	SO5 (sustainability) SO7 (sustainable transport) Spatial Principle F (sustainable transport)	Reduce impact on climate change Improve amenity
IN6	Enforcement action taken against waste sites by the local authority and/or Environment Agency on breach of planning conditions or environmental permit ~~7. Number of approvals for new waste~~	Zero ~~100%~~	SO5 (sustainability) SO8 (protect the environment) Spatial ~~framework~~ Principles (Reduce impact on amenity) Policy 5: Assessment	To ensure sites do not cause harm to the environment or local communities ~~Avoid impact on sensitive receptors or maximise~~

	Indicator	Target(s)	What it monitors	Outcome(s) sought
	~~facilities which meet legislative requirements~~		Criteria for waste management facilities and related development	~~scope for effective mitigation~~
IN7	~~6.~~ Amount of waste imported and exported ~~to landfill~~ by waste stream and management route ~~(LACW, C&I and CD&E)~~	Exported waste to landfill in line with Table 6~~9~~ of the NLWP Reduction in waste exports	Net self-sufficiency Changes to imports and exports	Waste exports are in line with those estimated in the NLWP and through the duty to co-operate
IN8	~~8.~~ Number of new CHP facilities serving district heat networks in which the principal fuel source is residual waste or recovered waste fuel	Monitor only	Strategic Aim (green London)	Monitor only
IN9	~~9.~~ Sufficient infrastructure in place for management of waste water	Monitor only – information to be obtained from Thames Water	Strategic Aim (capacity supply and self-sufficiency) SO5 (sustainability)	To ensure that Thames Water have sufficient capacity to management the levels of waste water generated in North London over the plan period

Implementing the Plan

10.7 Development and adoption of the Plan must be followed by actions by a range of agencies and other organisations to ensure that its Aims and Objectives are met. The section summarises proposals for how these outcomes will be delivered and who will be responsible for them.

10.8 Implementation has four components – infrastructure delivery; application of the policies to planning proposals for waste facilities; ongoing regulation and monitoring of the local waste management sector; and achieving performance levels – each of which involves different actors. Table 15 summarises the organisations involved in each component.

Table 15: Roles and responsibilities involved in implementing the Plan

Organisation	Role	Responsibilities
Local planning authorities (including London Legacy Development Corporation)	Apply Plan policies	Assessing suitability of applications against Plan policies and priorities Deliver the strategic objectives and policies of the NLWP alongside wider development and regeneration objectives
	Regulate / monitor	Inspect operating waste sites periodically Appoint a lead borough to monitor the plan and carry out the duty to co-operate when required Publish ~~regular~~annual monitoring reports in the NLWP ~~Monitor Plan performance annually~~
	Performance delivery	Support / promote waste reduction initiatives through the planning system
Borough waste collection authorities	Infrastructure delivery	Bring forward new / replacement waste sites for recycling / composting LACW
	Performance delivery	Implement waste collection activities to deliver desired performance levels as appropriate Support / promote waste reduction initiatives

Organisation	Role	Responsibilities
North London Waste Authority (NLWA)	Infrastructure delivery	Delivery of replacement Edmonton ERF plant Delivery of other facilities enabling achievement of desired performance levels
	Performance delivery	Prioritising infrastructure delivery that moves waste up the Waste Hierarchy Support / promote / deliver waste reduction initiatives
Landowners	Infrastructure delivery	Propose new waste sites in line with NLWP policies that deliver capacity requirements
Waste industry	Infrastructure delivery	Propose new waste sites and deliver new waste facilities in line with NLWP policies that deliver capacity requirements
Environment Agency	Regulate / monitor	Advise on planning applications according to the nature of the proposal Assess applications for Environmental Permits, issue licences where the proposal meets the necessary standards Inspect operating waste sites periodically Collect and publish information about waste movements for use in Plan monitoring Monitor water quality
	Performance delivery	Promote waste reduction initiatives
Health & Safety Executive	Regulate	Advise on planning applications according to the nature of the proposal Monitor
Other statutory bodies (e.g. Natural England)	Regulate / monitor	Advise on planning applications according to the nature of the proposal

Organisation	Role	Responsibilities
		Monitor protected sites such as SSSI
Greater London Authority	Performance delivery	Promote waste reduction initiatives Promote carbon reduction initiatives
	Apply Plan policies	Assessing suitability of applications against London Plan policies and priorities Regional coordination of waste planning
London Waste and Recycling Board	Infrastructure delivery	Support to new waste infrastructure
	Performance delivery	Support to waste collection authorities to deliver desired performance levels Support / promote waste reduction initiatives

10.9 New commercial infrastructure required during the plan period will be funded by private funding through sources that cannot be identified at this time. In addition, there may be other sources of funding available such as public sector borrowing. Facilities required for the management of LACW will be funded by NLWA. The waste industry has been invited to take part in the development of the Plan through involvement in the various consultation processes and calls for them to propose suitable sites for waste management use. The NLWP identifies infrastructure priorities for the next 15 years and this will help to provide the industry with greater certainty about waste management priorities in the North London Boroughs that can inform future investment decisions.

10.10 Table 16 sets out how policies in the NLWP will be implemented and who will be involved in each action and which of the Strategic Objectives are addressed as a result.

Table 16: How the NLWP policies will be implemented

Mechanism	Stakeholders involved	Objectives implemented
Policy 1: Existing waste management sites		

Mechanism	Stakeholders involved	Objectives implemented
Planning permission for the expansion or intensification of operations at existing waste facilities. Refusal of planning permission for non-waste use on existing waste sites unless capacity is re-provided. Identifying compensatory provision when it is proposed to redevelop existing waste management facilities for non-waste uses.	Local planning authorities/ Landowner/developers/NLWA	SO2, SO3
Policy 2 ~~Locations~~Priority Areas for new waste management facilities		
Planning permission and subsequent development	Landowners and developers / waste management companies / NLWA / local planning authorities / Environment Agency and other statutory bodies	SO1, SO2, SO3, SO5
Policy 3: Windfall sites		
Planning permission and subsequent development	Landowners and developers / waste management companies / NLWA / local planning authorities / Environment Agency and other statutory bodies	SO2, SO3
Policy 4: Re-use & Recycling Centres		
Planning permission and subsequent development	Landowners and developers / waste management companies / NLWA / local planning authorities / Environment Agency and other statutory bodies	SO1, SO2, SO3
Policy 5: Assessment criteria for waste management facilities and related development		

Mechanism	Stakeholders involved	Objectives implemented
Planning permission and subsequent development	Local planning authorities / Environment Agency and other statutory bodies	SO4, SO5, S07, SO8
Policy 6: Energy recovery and decentralised energy		
Planning permission and subsequent development	Landowners and developers / waste management companies / local planning authorities / NLWA / Environment Agency and other statutory bodies	SO1, SO6
Policy 7: Waste Water Treatment Works and Sewage Plant		
Planning permission and subsequent development	Thames Water / Environment Agency and other statutory bodies / local planning authorities	SO2, SO4, SO5, SO8
Policy 8: Control of Inert Waste		
Planning permission and subsequent development	Landowners and developers / waste management companies / local planning authorities / / Environment Agency and other statutory bodies	SO1, SO2, SO3, SO5, SO8

Appendix 1: Schedule 1: Existing safeguarded waste sites in North London

~~Table 17:~~ Schedule 1: Existing safeguarded waste sites in North London

Site ID	Site Name	Site Address	Waste Stream	Managed Waste	2012	2013	2014	2015	2016	~~Borough~~
BAR1	Winters Haulage, Oakleigh Road South	British Rail Sidings, Oakleigh Road South, Southgate, London, N11 1HJ	C&I / CDE	X	10,495	38,503	40,409	35,379	0	
BAR 2	Scratchwood Quarry	London Gateway Service Area, M1 Motorway, Mill Hill, London, NW7 3HU	CDE	✓	52,835	71,046	99,060	102,527	131,505	~~Barnet~~

Site ID	Site Name	Site Address	Waste Stream	Managed Waste	2012	2013	2014	2015	2016	~~Borough~~
BAR 3♦[27]	P B Donoghue, Claremont Rd	3 Shannon Close, Claremont Rd, Cricklewood, London, NW2 1RR	CDE	✓ (96%)	0	118,964	112,449	112,487	111,226	~~Barnet~~
BAR 4♦	W R G, Hendon Rail Transfer Station	Hendon Rail Transfer Station, Brent	LACW	X	153,952	164,129	114,457	128,605	142,107	~~Barnet~~

[27] ♦ These sites will be redeveloped under the ~~approved~~ planning permission for the regeneration of Brent Cross Cricklewood (Barnet planning application reference F/04687/13). The Hendon Rail Transfer Station (BAR 4) will be replaced ~~as part of the BXC development~~ with a new facility ~~on site S01 BA~~ to meet the NLWA's requirements. Planning permission for the new sites at Geron Way was granted by Barnet Council Planning Committee in September 2018. The existing commercial facilities at BAR 6 and BAR 7 fall within the land required to deliver the ~~first~~early Southern phase of the BXC regeneration which is ~~anticipated will~~expected to commence in the near term; replacement capacity for these sites will be sought in accordance with the planning permission for Brent Cross Cricklewood. ~~early 2018. Replacement capacity for these sites will not be provided prior to their redevelopment and therefore replacement capacity will be sought outside of the BXC regeneration area on alternative sites / areas to be identified within the London Borough of Barnet.~~ The BAR3 site is identified for redevelopment in Phase 4 of the BXC regeneration and is currently not anticipated to be redeveloped until after 2026. It is planned that capacity at the waste facilities of BAR4, BAR6 and BAR7 and part of the capacity of BAR3 will be replaced by the new Waste Transfer Station (WTS) delivered as part of the Brent Cross Cricklewood Regeneration. The balance of the replacement capacity for BAR3 will need to be identified prior to its redevelopment and the London Borough of Barnet will seek to provide replacement capacity within the borough with the Local Plan identifying potential sites.

Site ID	Site Name	Site Address	Waste Stream	Managed Waste	2012	2013	2014	2015	2016	~~Borough~~
		Terrace, Hendon, London, NW2 1LN								
BAR 5	Summers Lane Reuse and Recycling Centre	Civic Amenity & Waste Recycling Centre, Summers Lane, London, N12 0RF	LACW	X	15,612	16,361	17,206	10,584	18,237	~~Barnet~~
BAR 6♦	Mc Govern Brothers, Brent Terrace, Hendon	26-27 Brent Terrace, Claremont Industrial Estate, Hendon, London, NW2 1BG	C&I / CDE	X	78,488	76,609	78,855	106,206	102,373	~~Barnet~~
BAR 7♦	Cripps Skips Brent Terrace	Nightingale Works, Brent Terrace, Claremont Way Industrial Estate, London, NW2 1LR	C&I / CDE	X	9,726	7,719	8,807	9,408	8,910	~~Barnet~~
BAR 8	Apex Car Breakers, Mill	Ellesmere	C&I	✓	182	162	227	256	243	~~Barnet~~

Site ID	Site Name	Site Address	Waste Stream	Managed Waste	2012	2013	2014	2015	2016	~~Borough~~
	Hill	Avenue, Mill Hill, London, NW7 3HB								
BAR 9	Vacant (previously ~~Railway Arches, Hendon~~ Savacase Ltd)	Railway Arches, Colindeep Lane, Hendon, London, NW9 6HD	C&I	N/A	0	0	0	0	0	~~Barnet~~
BAR 10	G B N Services Ltd, New Southgate	Land/Premises at Oakleigh Road South, Friern Barnet, London, N11 1HJ	CDE	✓ (72%)	14,596	29,938	29,456	31,274	10,746	~~Barnet~~
BAR 11	Upside Railway Yard	Upside Railway Yard, Brent Terrace, Cricklewood, London, NW2 1LN	CDE	X	0	0	0	0	234,930	~~Barnet~~
CAM1	Regis Road Reuse and Recycling Centre	Regis Road, Kentish Town, London NW5 3EW	LACW	X	-	2,535	5,409	5,595	5,119	~~Camden~~
ENF 1	Crews Hill Transfer Station	Kingswood Nursery, Theobalds	C&I	X	17,466	17,124	19,231	19,507	18,427	~~Enfield~~

Site ID	Site Name	Site Address	Waste Stream	Managed Waste	2012	2013	2014	2015	2016	~~Borough~~
		Park Road, Crews Hill, Enfield, Middlesex, EN2 9BH								
ENF 2	Barrowell Green Recycling Centre	Barrowell Green, Winchmore Hill, London, N21 3AU	LACW	X	10,715	14,556	13,837	11,541	16,923	~~Enfield~~
ENF 3	Pressbay Motors Ltd, Motor Salvage Complex	Motor Salvage Complex, Mollison Avenue, Brimsdown, Enfield, Middlesex, EN3 7NJ	C&I	✓	63	63	26	29	37	~~Enfield~~
~~ENF 4~~	~~Chase Farm Hospital, The Ridgeway (SITA)~~									~~Enfield~~
ENF 5	Jute Lane, Brimsdown	Greenwood House, Jute Lane, Brimsdown, Enfield, Middlesex, EN3 7PJ	LACW	✓ (76%)	16,115	11,732	12,659	10,125	15,410	~~Enfield~~
ENF 6	AMI Waste (Tuglord	17 Stacey	C&I / CDE	X	16,855	27,043	28,566	23,004	21,974	~~Enfield~~

Site ID	Site Name	Site Address	Waste Stream	Managed Waste	2012	2013	2014	2015	2016	~~Borough~~
	Enterprises) ~~Stacey Avenue~~	Avenue, Edmonton, London, N18 3PP								
ENF 7	Vacant (formerly Budds Skips) ~~, The Market Compound, Harbert Road~~	The Market Compound, 2 Harbet Road, Edmonton, London, N18 2HQ	C&I / CDE	-	834	802	1,778	0	0	~~Enfield~~
ENF 8	Biffa Edmonton (AKA Greenstar Environmental) ~~, Adra Road, Edmonton~~	Atlas at Aztec 406, 12 Ardra Road, Off Meridan Way, Enfield, London, N9 0BD	LACW / C&I	✓ (84%)	231,771	72,530	271,888	276,855	270,106	~~Enfield~~
ENF 9	Hunt Skips, Commercial Road, Edmonton	Rear of 160 Bridport Road, Commercial Road, Edmonton, London, N18 1SY	C&I / CDE	✓	9,935	-	20,359	-	8,719	~~Enfield~~
ENF 10	Rooke & Co Ltd, Edmonton	Montague Road Industrial Estate, 22-26	C&I	✓	32,249	24,867	28,095	25,235	3,897	~~Enfield~~

Site ID	Site Name	Site Address	Waste Stream	Managed Waste	2012	2013	2014	2015	2016	~~Borough~~
		First Avenue, Edmonton, London, N18 3PH								
ENF 11	Edmonton Bio Diesel Plant (Pure Fuels)	Unit A8 Hastingwood Trading Estate, Harbet Road, London, N18 3HT	C&I	✓	512	738	895	1,251	-	~~Enfield~~
ENF 12	Camden Plant~~, Lower Hall Lane, Chingford~~	Camden Plant, Lower Hall Lane, Chingford	CDE	✓	236,950	232,590	241,900	216,334	206,806	~~Enfield~~
ENF 13	Personnel Hygiene Services Ltd, Princes Road, Upper Edmonton	10 Princes Road, Edmonton, London, N18 3PR	C&I	X	0	0	95	1,004	1,081	~~Enfield~~
ENF14	Vacant (Formerly Lea Valley motors Ltd)	Second Avenue, Edmonton	C&I	N/A	0	0	0	0	0	
ENF 15	~~Yard 10 - 12 Hastingwood Trading Est.~~ A & A Skip Hire Limited	Yard 10-12 Hastingwood Trading Estate, Harbet Road,	C&I	✓ (89%)	0	0	9,391	16,277	10,696	~~Enfield~~

Site ID	Site Name	Site Address	Waste Stream	Managed Waste	2012	2013	2014	2015	2016	~~Borough~~
		Edmonton, London, N18 3HR								
ENF 17	Albert Works~~, Kenninghall Road, Edmonton~~	Albert Works, Kenninghall Road, Edmonton, London, N18 2PD	C&I	✓	193,308	224,020	233,225	211,424	-	~~Enfield~~
ENF18	Edmonton Energy from Waste Facility	Edmonton Ecopark, Advent Way, Edmonton, London, N18 3AG	LACW	✓	546,402	526,829	560,685	550,408	597,134	
	LondonEnergy Ltd Composting	Edmonton Ecopark, Advent Way, Edmonton, London, N18 3AG	LACW	✓	32,498	32,779	35,241	32,475	33,981	
	LondonEnergy Bulk Waste Recycling Facility	Edmonton Ecopark, Advent Way, Edmonton, London, N18 3AG	LACW	X	192,907	190,333	168,121	157,227	198,389	
	Ballast Phoenix Ltd	Edmonton	LACW	✓	58,255	106,341	112,419	109,114	101,189	

Site ID	Site Name	Site Address	Waste Stream	Managed Waste	2012	2013	2014	2015	2016	Borough
		Ecopark, Advent Way, Edmonton, London, N18 3AG								
ENF 19	London Waste Ltd Composting, Edmonton Eco Park, Advent Way									Enfield
ENF 20	London Waste Bulk Waste Recycling Facility, Edmonton EcoPark, Advent Way									Enfield
ENF 20	London Waste Ltd, Edmonton Ecopark, Advent Way									Enfield
ENF 22	Edmonton Clinical Waste Treatment Centre									Enfield
ENF 23	J O' Doherty Haulage, Nobel Road, Edmonton	Pegamoid Site, Nobel Road, Edmonton, London, N18 3BH	C&I	✓	85,103	69,124	64,897	77,305	88,636	Enfield
ENF 24	Oakwood Plant Ltd, Edmonton	Oakwood House, Nobel Road, Eley Industrial Estate,	C&I / CDE	✓	10,282	7,495	10,011	13,489	14,428	Enfield

Site ID	Site Name	Site Address	Waste Stream	Managed Waste	2012	2013	2014	2015	2016	~~Borough~~
		Edmonton, London, N18 3BH								
ENF 25	Environcom Ltd (Edmonton Facility) ~~, Stonehill Business Park, Edmonton~~	Unit 8a Towpath Road Stonehill Business Park, N18 3QU	Hazardous (WEEE)	✓	2,447	1,327	9,194	11,400	67	~~Enfield~~
ENF 26	Powerday Plant Ltd, Jeffreys Road	Unit 2, Jeffrey's Road, Brimsdown, Enfield, Middlesex, EN3 7UA	C&I / CDE	✓	27,319	18,664	43,851	23,490	49,754	~~Enfield~~
~~ENF 27~~	~~Edmonton EFW~~		CDE	✓						~~Enfield~~
ENF30	Hunsdon Skip Hire (Previously L&M Skips and London & Metropolitan Recycling)	Unit 1, 1b Towpath Rd, Stonehill Business Park, London, N18 3QX	C&I / CDE	✓	0	7,150	26,545	15,501	11,337	
ENF 31	Volker Highways Ltd	15 Edison Road, Brimsdown Industrial Estate, Enfield EN3 7BY	C&I / CDE	✓	-	8,892	13,652	7,344	-	~~Enfield~~
~~ENF 32~~	~~Guy Lodge Farm~~									~~Enfield~~

Site ID	Site Name	Site Address	Waste Stream	Managed Waste	2012	2013	2014	2015	2016	Borough
ENF 33	Ballast Phoenix Ltd									Enfield
ENF 34	London & Metropolitan Recycling Facility									Enfield
ENF 35	Redcorn (ELV) Unit 25 Enfield Metal Kingswood Nursery, Theobalds Park road	22a & 24, Stacey Avenue, Montagu Industrial Estate, Enfield, N18 3PS	Hazardous (C&I)	✓	-	-	-	-	6,557	Enfield
ENF 36	Greenstar Environmental									Enfield
ENF37	GBN	Gibbs Road, Montagu Industrial Estate, London, N18 3PU	CDE	✓	-	-	-	-	-	
HAC 1	Millfields Waste Transfer & Recycling Facility	Millfields Recycling Facility, Millfields Road, Hackney, London, E5 0AR	LACW	X	18,202	13,935	14,173	16,785	16,725	Hackney
HAC 2	Downs Road Service	1A Downs	C&I	✓	177	175	96	101	-	Hackney

Site ID	Site Name	Site Address	Waste Stream	Managed Waste	2012	2013	2014	2015	2016	Borough
	Station (Braydon Motor Company), Clapton	Road, Clapton, London, E5 8QJ								
HAR 1/2	Hornsey Central Depot, Haringey LBC									Haringey
HAR 3	Biffa Waste Services Ltd, Garman Road, Tottenham	81, Garman Road, Tottenham, London, N17 0UN	C&I	✓	28,851	30,355	34,690	33,704	37,454	Haringey
HAR 4	O'Donovan, Markfield Rd, Tottenham	100a Markfield Road, Tottenham, London, N15 4QF	C&I / CDE	✓ (50%)	6,316	10,099	11,143	7,035	14,693	Haringey
HAR 5	Redcorn Ltd, White Hart Lane, Tottenham	44 White Hart Lane, Tottenham, London N17 8DP	C&I	✓	15,712	22,733	23,852	8,508	-	Haringey
HAR 6	Restore Community Projects, Ashley Road, Tottenham	Unit 18, Ashley Road, Tottenham Hale, London, N17 9LJ	C&I	✓	24	103	185	278	98	Haringey
HAR 7	Redcorn / Brantwood Auto Recycling Ltd,	Brantwood Road,	C&I	✓	2,470	5,225	2,250	23,779	39,283	Haringey

Site ID	Site Name	Site Address	Waste Stream	Managed Waste	2012	2013	2014	2015	2016	Borough
	Brantwood RoadWilloughby Lane	Tottenham, London N17 0ED								
HAR 8	O'Donovan, Markfield Road, Tottenham	82 Markfield Road, Tottenham, London, N15 4QF	CDE	✓	5,079	27,330	31,460	25,674	123,308	Haringey
HAR 9	Park View Road Reuse and Recycling Centre	Civic Amenity Site, Park View Road, Tottenham, London, N17 9AY	LACW	X	3,706	2,409	6,326	5,499	5,745	Haringey
HAR 10	LondonWaste Ltd. Western Road Re-use & Recycling Centre H W R C	Western Road, Haringey N22 6UG	LACW	X	0	0	2,526	4,851	3,799	Haringey
HAR11	Durnford Street Car Dismantlers & Breakers	6-40, Durnford Street, Tottenham, London, N15 5NQ	C&I	✓	0	0	0	432	288	
ISL 1	Hornsey Household Re-use & Recycling Centre and Transfer Station	Hornsey Street, Islington London N7	LACW	X	196,818	195,018	203,919	204,496	212,232	Islington

Site ID	Site Name	Site Address	Waste Stream	Managed Waste	2012	2013	2014	2015	2016	~~Borough~~
		8HU								
WAF1	Mercedes Parts Centre	21 Chingford Industrial Estate, Hall Lane, Chingford, London, E4 8DJ	C&I	✓	0	0	0	0	7	
WAF 2	Kings Road Household Waste Recycling Centre	Civic Amenity Site, 48 Kings Road, Chingford, London, E4 7HR	LACW	X	1,213	881	2,178	2,400	2,853	~~Waltham Forest~~
WAF 3	South Access Road Household Waste Recycling Centre	42a South Access Road, Walthamstow London, E17 8BA	LACW	X	2,917	2,784	6,790	6,949	7,203	~~Waltham Forest~~
~~WAF 4~~	~~G B N Services, Estate Way, Leyton~~									~~Waltham Forest~~
WAF 5	Vacant (previously T J Autos (U K) Ltd)	17 Rigg Approach, Leyton, London, E10 7QN	C&I	✓	53	53	81	21	11	~~Waltham Forest~~

Site ID	Site Name	Site Address	Waste Stream	Managed Waste	2012	2013	2014	2015	2016	Borough
WAF 6	B J Electronics, Ravenswood road Industrial Estate, Walthamstow									Waltham Forest
WAF 8	Leyton Reuse & Recycling Centre	Gateway Road, Leyton, London, E10 5BY	LACW	X	2,164	2,255	2,564	3,003	2,589	Waltham Forest
WAF9	Vacant (formerly B D & G Parts For Rover)	Roxwell Trading Park, Leyton	C&I	-	0	0	0	0	0	
WAF 10	Malbay Waste Disposal Ltd, Staffa Road, Leyton	5 Staffa Road, Leyton, London, E10 7PY	C&I / CDE	X	6,700	10,682	12,624	7,339	9,925	Waltham Forest
WAF 12~~1~~	Argall Metal Recycling ~~Baseforce Metals, Unit 1 Staffa Road, Leyton~~	Unit 1, Staffa Road, E10 7PY	C&I	✓	0	21,537	31,603	30,378	0	Waltham Forest
WAF 14	Tipmasters	15 Rigg Approach London Greater London E10 7QN	C&I	X	0	0	586	2,847	3,622	Waltham Forest
WAF 15	Bits and Parts									Waltham Forest
WAF16	Whipps Cross Hospital	Whipps Cross	C&I	X	0	0	0	0	5	

Site ID	Site Name	Site Address	Waste Stream	Managed Waste	2012	2013	2014	2015	2016	~~Borough~~
	Clinical Waste Treatment Facility	Hospital, Whipps Cross Road, London, E11 1NR	(clinical)							