

## **BIRMINGHAM CITY COUNCIL**

### **SUSTAINABILITY AND TRANSPORT OVERVIEW AND SCRUTINY COMMITTEE**

**WEDNESDAY, 16 OCTOBER 2019 AT 10:00 HOURS**  
**IN COMMITTEE ROOM 6, COUNCIL HOUSE, VICTORIA SQUARE,**  
**BIRMINGHAM, B1 1BB**

## **A G E N D A**

### **1 NOTICE OF RECORDING/WEBCAST**

The Chairman to advise/meeting to note that this meeting will be webcast for live or subsequent broadcast via the Council's Internet site ([www.civico.net/birmingham](http://www.civico.net/birmingham)) and that members of the press/public may record and take photographs except where there are confidential or exempt items.

### **2 APOLOGIES**

To receive any apologies.

### **3 DECLARATIONS OF INTERESTS**

Members are reminded that they must declare all relevant pecuniary and non pecuniary interests arising from any business to be discussed at this meeting. If a disclosable pecuniary interest is declared a Member must not speak or take part in that agenda item. Any declarations will be recorded in the minutes of the meeting.

**3 - 8**

### **4 SUSTAINABILITY & TRANSPORT O&S COMMITTEE ACTION NOTES**

To confirm the Action Notes of the meeting held on 24 July 2019.

**9 - 30**

### **5 CABINET MEMBER FOR TRANSPORT & ENVIRONMENT – PRIORITIES & UPCOMING WORK AREAS**

Cllr Waseem Zaffar, Cabinet Member for Transport & Environment with contributions from Hon. Alderman, Stewart Stacey, Hon. Alderman, Tony Kennedy, Cllr Shabrana Hussain, Cllr Chaman Lal, Cllr Julie Johnson in their respective cabinet advisory roles to the Cabinet Member.

6 **QUARTERLY UPDATE ON THE A34 PERRY BARR INFRASTRUCTURE CONSULTATION**

An update from the Cabinet Member for Transport & Environment, Cllr Waseem Zaffar and supporting officers.

**31 - 36**

7 **SUSTAINABILITY & TRANSPORT O&S COMMITTEE WORK PROGRAMME**

For discussion.

8 **DATE OF FUTURE MEETINGS**

To note the date of future meetings in the Council House on the following Wednesdays at 1000 hours as follows:-

|                   |        |
|-------------------|--------|
| 20 November, 2019 | Room 2 |
| 18 December, 2019 | Room 2 |
| 15 January, 2020  | Room 2 |
| 19 February, 2020 | Room 6 |
| 18 March, 2020    | Room 6 |
| 15 April, 2020    | Room 6 |

9 **REQUEST(S) FOR CALL IN/COUNCILLOR CALL FOR ACTION/PETITIONS RECEIVED (IF ANY)**

To consider any request for call in/councillor call for action/petitions (if received).

10 **OTHER URGENT BUSINESS**

To consider any items of business by reason of special circumstances (to be specified) that in the opinion of the Chairman are matters of urgency.

11 **AUTHORITY TO CHAIRMAN AND OFFICERS**

Chairman to move:-

'In an urgent situation between meetings, the Chairman jointly with the relevant Chief Officer has authority to act on behalf of the Committee'.

## **BIRMINGHAM CITY COUNCIL**

# **SUSTAINABILITY AND TRANSPORT O&S COMMITTEE**

**1000 hours on 24<sup>th</sup> July 2019, Committee Room 6 – Actions**

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### **Present:**

Councillor Liz Clements (Chair)

Councillors Olly Armstrong, Zaker Choudhry, Eddie Freeman and Timothy Huxtable.

### **Also Present:**

Councillor Jon Hunt

Councillor Waseem Zaffar, Cabinet Member Transport & Environment

Mel Jones, Head of Transport Planning and Network Strategy, BCC

Alison Kennedy, Principal Transport Policy Officer, BCC

Andy Middleton, Project Manager, BCC

Peter Parker, Head of Infrastructure Delivery, BCC

Anne Shaw, Director of Network Resilience, Transport for West Midlands (TfWM)

Baseema Begum, Scrutiny Officer

Rose Kiely, Overview & Scrutiny Manager

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## **1. NOTICE OF RECORDING/WEBCAST**

The Chair advised those present that the meeting would be webcast for live and subsequent broadcast via the Council's Internet site and that members of the press/public may record and take photographs except where there are confidential or exempt items.

## **2. DECLARATIONS OF INTERESTS**

Standing declaration from Councillor Huxtable as a member of the West Midlands Combined Authority's Transport Delivery Committee.

## **3. APOLOGIES**

Councillor Muhammad Afzal.

#### **4. APPOINTMENT OF COMMITTEE AND CHAIR**

Noted.

#### **5. ELECTION OF DEPUTY CHAIR**

The Chair confirmed that Cllrs Armstrong and Johnson would be joint deputy-chairs for the municipal year.

#### **6. TERMS OF REFERENCE**

Noted.

#### **7. SUSTAINABILITY & TRANSPORT O&S ACTION NOTES**

The action notes of the meetings held on the 11<sup>th</sup> April and 10<sup>th</sup> July 2019 were agreed.

#### **8. DRAFT WALKING AND CYCLING STRATEGY AND LOCAL CYCLING AND WALKING INFRASTRUCTURE PLAN CONSULTATION**

(See document No.1)

Alison Kennedy highlighted the key points from the presentation that was circulated as part of the agenda pack. In doing so the following points were made:-

- There is a need to look carefully at bus routes and cycling lanes especially where changes to the road layout are required. Many roads in the city would need widening to accommodate and this is not always possible due to the width of the road.
- Cllr Zaffar stated that there is a commitment to increase the number of bus lanes across the city by reallocating space already available and giving priority to buses. This includes creating a separate safe space for cyclists where possible and creating a network similar to the canal network. It would also allow the city to achieve quick wins in tackling inconsiderate parking on the public highway that impacts on the most vulnerable such as those with disabilities.
- A report on active travel released by the Government yesterday highlighted the percentage spend on cycling. In Birmingham 40% of the budget is spent on cycling. To increase and keep the momentum up on getting more people cycling there is a need to secure resources as previously funding for cycling infrastructure and education has come from ring-fenced monies.
- On new developments sustainable transport measures should be included as early as possible at the planning stage. The Development Control section within the Transport & Connectivity team are consulted as part of the process in the assessing of planning applications. However any advice given can only be

taken forward by planning officers. The Birmingham Transport Plan currently being drafted will provide a more robust process to challenge decisions made.

- Could reconsideration be given to increasing the percentage of Community Infrastructure Levy (CIL) given to wards so that local councillors and residents can allocate to more sustainable forms of travel?
- The school streets pilot programme (currently only 6 schools) is due to commence in September 2019 aimed at encouraging children and parents/carers to walk to school by excluding cars within a particular zone. The pilot is being delivered by Living Streets in conjunction with Transport for West Midlands and has been offered to schools across the city.
- An increase in funding is needed to roll-out the programme to all schools. It does require a staff resource from schools interested in the programme and this is not always possible due to staffing capacity. Currently there is limited funding so the schools in the pilot have been selected carefully and funded through the safer routes to schools budget. The school streets pilot will need to be monitored carefully to see if it has had an impact on the air quality around schools as well as other impacts such as a change in travel behaviour and modal shift.

**RESOLVED:-**

1. Cllr Huxtable to be provided with more information on allocation of CIL monies in wards for more sustainable transport measures.
2. Cllr Huxtable requested further information the school streets project specifically which of the 6 schools in the pilot project are being supported by Living Streets.

**9. QUARTERLY UPDATE ON THE A34 PERRY BARR HIGHWAY INFRASTRUCTURE CONSULTATION**

(See document No. 2)

Cllr Zaffar talked Members through the key points in the presentation circulated to the Committee.

During discussion with Members the following points were made:-

- The impact of the proposed work in the Perry Barr area are far-reaching and the parameters of consultation have been a cause for concern. There is a need to run the consultation and engagement in parallel.
- There will be a negative impact on bus users in the area and therefore National Express West Midlands (NXWM) as a major stakeholder need to be consulted with as concerns were raised in a meeting with Cllr Hunt.
- Cllr Zaffar confirmed that he had met with NXWM last week and he was aware of the concerns raised. Reliability for bus users in the 18-24 months on construction phase to deal with the 475,000 passengers is of huge importance. He added that an engagement plan is in place for all stakeholders.

Anne Shaw, Director of Resilience gave a presentation covering areas of work that the West Midlands Combined Authority (WMCA) are responsible for. During the presentation and discussion the following points were made:-

- WMCA work with the City Council, contractors and project teams (for example engagement with NXWM goes through the Council's team) to ensure effective co-ordination of delivery plans. This is where issues are pre-empted as far as possible and dealt with before they become a concern.
- Cllr Hunt queried why the transport plan was not part of the planning application presented at Planning Committee and noted the importance of including traffic diversions to be put in place in reports being agreed by Cabinet.
- It was confirmed that the Leader had presented a full business case at a meeting of the Cabinet that sets out the framework for the works. Once the contractor has been appointed to build the scheme then further details will be available and then finalising of the traffic arrangements can be done. These details can be provided when they are available including any tender information that can be shared publically and is not commercially sensitive.
- In terms of more cycling and walking spaces/infrastructure it was confirmed that an extension to the Birmingham Cycling Revolution (BCR) route from Heathfield Road in Lozells to Perry Barr on the eastern footway is planned. This cycle route is segregated from other traffic for the most part. Priority to cyclists is also being given on side roads. The Aldridge Road is to be closed off to general traffic and the public realm will be only for buses, cycling and walking. Cycling routes to Perry Barr One Stop shopping centre and Birchfield Island will all include and increase walking options. Bus diversion and how this will work practically will be worked through bus priority measures with different routes into the city centre being assessed. Work is also being undertaken with Highways England to help manage construction across the wider area.
- There is a lot of work going into promoting the Commonwealth Games as a 'public transport' games to help people choose sustainable modes of travel. Park and Ride options at Junction 7 will be delivered as part of work on SPRINT Bus routes. Work is also taken place on the Games with neighbouring authorities (Sandwell and Walsall).
- A number of other schemes to improve connectivity and safety along key route networks are in place across the city and will be delivered in the period up to 2026.
- It is very helpful for people to see how the plans will work now that designs have been agreed and ensure that a lasting community is created as part of all the work.
- Sustainable inclusive growth is key with more options and additional public transport to improve employment options.

**RESOLVED:-**

1. Cllr Zaffar to provide Cllr Huxtable with a response to his query on if it is theoretically possible to consider a phased approach and separate the funding packages relating to the possibility of going ahead with work on the Birchfield Road island and not the Flyover once feedback from the consultation has been considered.

#### **10. DATE OF FUTURE MEETINGS**

Noted.

#### **11. SUSTAINABILITY & TRANSPORT O&S COMMITTEE WORK PROGRAMME**

(See document No. 3)

The Chair, Cllr Clements outlined the future work programme and added two items for consideration:

- Looking at the Commonwealth Games Village from a sustainability point of view.
- Considering issues with the Veolia waste contract and how the City Council will manage exiting the contract in light of the Council's commitment to address the climate change emergency.

#### **12. REQUEST(S) FOR CALL IN/COUNCILLOR CALL FOR ACTION/PETITIONS (IF ANY)**

None.

#### **13. OTHER URGENT BUSINESS**

None.

#### **14. AUTHORITY TO CHAIRMAN AND OFFICERS**

Agreed.

##### **RESOLVED:-**

That in an urgent situation between meetings the Chair, jointly with the relevant Chief Officer, has authority to act on behalf of the Committee.

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The meeting ended at 12:22 hours.





# Sustainability & Transport O&S Committee Priorities and upcoming work areas

Councillor Waseem Zaffar

Cabinet Member for Transport & Environment

16 October 2019



# The Climate Emergency

## Birmingham Route to Zero (R20) Taskforce

- Reflects Council Plan Key Priority
- First meeting in October
- Cross party and partners/stakeholders
- Transitioning to low carbon economy
- Significant contribution from transport
- Low emission technologies are important
- The real solution lies with mode shift



**Mode shift – getting people out of their cars – is a key solution to our climate emergency.**

# Highway Maintenance & Management PFI Contract

- Amey will exit the contract on 1 April 2020
- Working with Birmingham Highways Ltd (BHL) and potential suppliers
- Feedback to be presented to Cabinet in Autumn 2019
- Ongoing work to address the pavement model with BHL
- Informal member group being formed to discuss specification changes



# #BrumBreathes – update on clean air

- Clean Air Strategy
- Working towards CAZ launch in July 2020
- Supporting measures, including bus lanes and controlled on-street parking
- Exemptions and additional support to key groups of people
- Marketing and campaigns
- Low and zero emissions re-fuelling, including EV infrastructure
- BCC fleets and staff travel plan





# Birmingham Transport Plan

- Sustainable and inclusive economic growth
- Fundamental component of response to climate emergency and clean air
- Four Big Moves:
  - Reallocating road space
  - Transforming the city centre
  - Prioritising active travel in local neighbourhoods
  - Managing demand through parking measures – workplace parking levy & SPD
- Focus on what we will do differently
- Consultation late 2019 – scrutiny in December



**The Birmingham Transport Plan is a fundamental part of our response to the climate emergency.**

# Public transport – bus, sprint and metro

- Bus
  - priority measures – reallocating road space
  - cross-city bus routes
  - CAZ bus schemes implementation
  - Alcester Road bus priority
  - Bus priority Pinch Point bid
  - Sutton Coldfield gateway
- Sprint
  - to Perry Barr & Coventry Road for CWG
  - development and funding for future routes
- Metro
  - Westside extension to Centenary Square opens Dec 2019, to Five Ways for CWG
  - Eastside extension to HS2 station
  - East Birmingham / Solihull



**Priority to keep the city moving (especially buses) and open for business during works.**

# Commonwealth Games 2022



- Commonwealth Games Strategic Transport Plan
- Venue Access Strategies
- Planning for Road Events
- Infrastructure





# HS2 and rail

- HS2
  - national review
  - bringing forward schemes from HS2 Road Safety Fund (£2.6m)
  - Park Street closure early 2020 – Moor Street Queensway interim scheme
  - development of mitigations for work in Saltley area
  
- Local rail
  - planning permission for new stations on Camp Hill Line
  - redevelopment of Perry Barr and University stations





# Cycling and Walking

- Birmingham Cycle Revolution
- Extending A34 cycle route
- Cycle hire/bike share scheme review
- Walking and Cycling Strategy
- Pershore/Edgbaston Road scheme on site early 2020
- Integrating cycle provision into scheme delivery, and looking at parallel corridors



# The school run and road safety

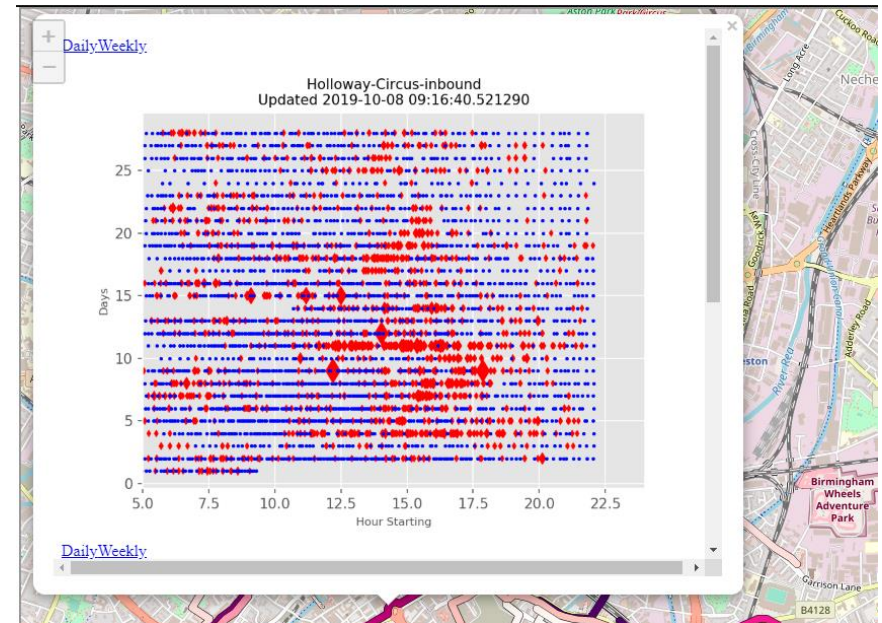
- Schools:
  - Launch of Car Free School Streets
  - Modeshift STARS; over 200 schools registered, need to get them active
  - Developing resources for an anti-idling campaign at schools
  - 4 school training modules, including Road STARS & Clean Air Cops
- Road safety:
  - New model for speed management / enforcement
  - Move towards all residential roads being 20mph
  - Evaluation of Average Speed Cameras
  - Lobbying for hypothecation of revenues from speed enforcement



**Keeping children safe and healthy on their way to school is of utmost importance.**

# Technology and keeping the city moving

- More proactive approach to network management - data led
- Focus on public transport journey time reliability - bus performance board
- Making sure all the existing equipment works properly
- Coordinating intense period of delivery and managing the impacts of developments
- Travel Demand Management (TDM)
- ADEPT project; using ANPR cameras to monitor and manage traffic
- Regional Transport Coordination Centre
- 5G and Connected and Autonomous Vehicles



## Worst Bus Delays

The table below shows the worst delay periods on the monitored bus routes over the past week.

| Location                     | Date        | Time        | Duration | Intensity | Star Rating |
|------------------------------|-------------|-------------|----------|-----------|-------------|
| Bristol-Road-inbound         | Tue, 01 Oct | 14:39-17:57 | 3.3      | 3.7       | ★★★★        |
| Ashted-Circus-outbound       | Tue, 01 Oct | 12:59-17:13 | 4.2      | 2.5       | ★★★★        |
| Belgrave-Interchange-inbound | Sat, 05 Oct | 13:46-17:44 | 4.0      | 2.6       | ★★★★        |
| Pershore-outbound            | Wed, 02 Oct | 13:52-17:32 | 3.7      | 2.8       | ★★★★        |
| Selly-Oak-Inbound            | Tue, 08 Oct | 05:56-08:43 | 2.8      | 3.5       | ★★★         |
| Curzon-outbound              | Tue, 01 Oct | 14:26-16:11 | 1.8      | 5.0       | ★★★         |
| Five-Ways-outbound           | Tue, 01 Oct | 16:02-19:02 | 3.0      | 2.6       | ★★★         |
| Ashted-Circus-outbound       | Thu, 03 Oct | 13:56-16:24 | 2.5      | 3.1       | ★★★         |
| Bordesley-outbound           | Fri, 04 Oct | 16:33-18:58 | 2.4      | 3.2       | ★★★         |



# Environment - flooding

- Flood Risk Management Annual Report
- Flooding investigation
- Flooded sites action tracker
- Flood mitigation schemes





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| Year | Site Ref | Location                      | Recommended Actions   | Identified Party / RMA  | Overall Status                               | Milestone   | Target Date (end of) | Status   |
|------|----------|-------------------------------|---|---|--|---|----------------------|----------|
| 2016 | 1        | Alum Rock                     | Assess whether additional gullies are required to allow runoff to drain   | Highway Maintenance and Management Partner                                | Complete                                     |   |                      |          |
|      |          |                               | Review maintenance regime to ensure gullies are free from debris  | Highway Maintenance and Management Partner                                | Complete                                     |   |                      |          |
| 2016 | 2        | Bartley Green                 | Investigate the capacity of the Bartley Brook and culvert   | Birmingham City Council (LLFA) in partnership with Environment Agency     | Complete                                     |   |                      |          |
|      |          |                               | Develop an updated model of the watercourse through Senneleys Park including the Bartley Brook and other watercourses     | Environment Agency in partnership with Birmingham City Council (LLFA)     | On track                                     | Milestone 1: Undertake river survey   | Jun-18               | Complete |
|      |          |                               |   |   |  | Milestone 2: Incorporate river survey into Upper Bourn Brook modelling        | Nov-19               | On track |
|      |          |                               | Investigate options to manage overland flows  | Birmingham City Council (LLFA)  | Complete                                     |   |                      |          |
|      |          |                               | Investigate options for flood mitigation scheme   | Environment Agency in partnership with Birmingham City Council (LLFA)     | On track                                     | Milestone 1: Develop partnership and identify funding for modelling study     | May-17               | Complete |
|      |          |                               |   |   |  | Milestone 2: Integrated modelling to identify mechanism and options           | Nov-19               | On track |
|      |          |                               |   |   |  | Milestone 3: Strategic Outline Business Case                                  | Mar-20               | On track |
|      |          |                               | Develop catchment options across the upper Bourn Brook catchment to manage flooding from all sources.                     | Birmingham City Council (LLFA), Severn Trent Water and Environment Agency | On track                                     | Milestone 1: Develop partnership and identify funding for modelling study     | May-17               | Complete |
|      |          |                               |   |   |  | Milestone 2: Integrated modelling to identify mechanism and options           | Nov-19               | On track |
|      |          |                               |   |   |  | Milestone 3: Strategic Outline Business Case                                  | Mar-20               | On track |
|      |          |                               | Assess the effectiveness of the installed property level resilience measures  | Birmingham City Council (Housing)   | Complete                                     |   |                      |          |
| 2016 | 3        | Bartley Green (Dainton)       | Explore the potential for flood mitigation by re-landscaping the garden and improving property drainage                   | Birmingham City Council (Housing)   | On track                                     | Milestone 1: Meeting between BCC LLFA & BCC Housing to discuss issues         | Jun-17               | Complete |
|      |          |                               |   |   |  | Milestone 2: Housing site visit to assess works and obtain quote              | Mar-20               | On track |
|      |          |                               | Develop catchment options across the upper Bourn Brook catchment to manage flooding from all sources                      | Birmingham City Council (LLFA), Severn Trent Water and Environment Agency | Cancelled - action not relevant to this site |   |                      |          |
| 2016 | 4        | Bordesley Green               | Review maintenance regime to ensure gullies are free from debris  | Highway Maintenance and Management Partner                                | Complete                                     |   |                      |          |
|      |          |                               | Explore the potential for flood mitigation  | Birmingham City Council (LLFA) & Home owners                              | Complete                                     |   |                      |          |
| 2016 | 5        | Bournville                    | Explore the potential to manage surface water flows within the public open space through SuDS and other measures          | Bournville Village Trust  | Complete                                     |   |                      |          |
| 2016 | 6        | Falcon Lodge                  | Assess the condition and capacity of the sewer network in the vicinity of Carhampton Road, Glover Road and Churchill Road | Severn Trent Water  | Complete                                     | Milestone 1: Review at risk propoerties and add to register of sewer flooding | Jan-19               | Complete |
|      |          |                               |   |   |  | Milestone 2: Pre-feasibility assemsent of sewer flood risk                    | Mar-20               | On track |
|      |          |                               | Assess the condition and capacity of the highway drainage network to establish if additional gullies are required         | Birmingham City Council (LLFA and Highways)                               | Complete                                     |   |                      |          |
|      |          |                               | Assess the condition and capacity of the Churchill Brook to establish if additional capacity is required                  | Birmingham City Council (LLFA)  | Complete                                     |   |                      |          |
|      |          |                               | Explore the potential for flood mitigation  | Birmingham City Council (LLFA and Housing)                                | Complete                                     |   |                      |          |
| 2016 | 7        | Four Oaks                     | Assess the condition and capacity of the sewer network  | Severn Trent Water  | Complete                                     |   |                      |          |
|      |          |                               | Assess the condition and capacity of the highway drainage network to establish if additional gullies are required         | Birmingham City Council (LLFA and Highways)                               | Complete                                     |   |                      |          |
|      |          |                               | Explore the potential for flood mitigation measures   | Birmingham City Council (LLFA) and Homeowners                             | Complete                                     |   |                      |          |
| 2016 | 8        | Hampstead                     | Explore the potential for flood mitigation measures   | Birmingham City Council (LLFA & Leisure Services) and Homeowners          | Complete                                     | Milestone 1: Review potential for Flood Defence Grant funding                 | Apr-18               | Complete |
|      |          |                               |   |   |  | Milestone 2: Meeting between BCC LLFA & BCC Housing to discuss issues         | Feb-19               | Complete |
|      |          |                               |   |   |  | Milestone 3: Review potential to complete work through BCC housing programme  | Mar-20               | Complete |
| 2016 | 9        | Handsworth Wood - Grestone    | Review of maintenance regime for Hilltop Brook  | Birmingham City Council (LLFA and Leisure Services) and Riparian Owners   | Complete                                     |   |                      |          |
|      |          |                               | Assess the condition and capacity of the Hilltop Brook  | Birmingham City Council (LLFA and Leisure Services)                       | Complete                                     |   |                      |          |
|      |          |                               | Assess the condition and capacity of the sewer network  | Severn Trent Water  | On track                                     | Milestone 1: Initial investigation to determine impact of sewer flooding      | Mar-20               | On track |
|      |          |                               | Assess potential for future flood storage scheme on Hilltop Brook   | Birmingham City Council (LLFA and Leisure)                                | Complete                                     |   |                      |          |
| 2016 | 10       | Handsworth Wood - Silvercroft | Installation of trash screen and review of maintenance regime for Hilltop Brook   | Birmingham City Council (Leisure Services)                                | On track                                     | Milestone 1: Meeting between BCC LLFA & BCC Leisure to discuss issues         | Jul-19               | Complete |

| Year | Site Ref | Location                | Recommended Actions   | Identified Party / RMA  | Overall Status | Milestone  | Target Date (end of) | Status   |
|------|----------|-------------------------|---|---|----------------|--|----------------------|----------|
| 2016 | 11       | Harborne - Bourn Brook  |   |   |                | Milestone 2: Installation of trash screen  | Mar-20               | On track |
|      |          |                         | Assess the condition and capacity of Hilltop Brook  | Birmingham City Council (LLFA and Leisure Services)                       | Complete       |  |                      |          |
|      |          |                         | Assess the condition and capacity of the sewer network  | Severn Trent Water  | On track       | Milestone 1: Initial investigation to determine impact of sewer flooding             | Mar-20               | On track |
|      |          |                         | Assess the condition and capacity of the sewer network  | Severn Trent Water  | On track       | Milestone 1: Include in Upper Bourn Brook Catchment Study Modelling                  | Nov-19               | On track |
|      |          |                         | Investigate reported instances of foul flooding   | Severn Trent Water  | On track       | Milestone 1: Include in Upper Bourn Brook Catchment Study Modelling                  | Nov-19               | On track |
|      |          |                         | Assess the condition and capacity of the highway drainage network   | Highway Maintenance and Management Partner                                | Complete       |  |                      |          |
|      |          |                         | Routine maintenance of the Bourn Brook and maintain capacity of the bridge arch   | Environment Agency  | Complete       |  |                      |          |
|      |          |                         | Develop catchment options across the upper Bourn Brook catchment to manage flooding from all sources  | Birmingham City Council (LLFA), Severn Trent Water and Environment Agency | On track       | Milestone 1: Develop partnership and identify funding for modelling study            | Feb-17               | Complete |
|      |          |                         |   |   |                | Milestone 2: Integrated modelling to identify mechanism and options                  | Nov-19               | On track |
|      |          |                         |   |   |                | Milestone 3: Strategic Outline Business Case   | Mar-20               | On track |
| 2016 | 12       | Harborne - Fredas Grove | Explore the potential to integrate flood storage within the Golf Course   | Birmingham City Council (LLFA) and Harborne Golf Course                   | Complete       |  |                      |          |
|      |          |                         | Develop catchment options across the upper Bourn Brook catchment to manage flooding from all sources  | Birmingham City Council (LLFA) Severn Trent Water and Environment Agency  | On track       | Milestone 1: Develop partnership and identify funding for modelling study            | Feb-17               | Complete |
|      |          |                         |   |   |                | Milestone 2: Integrated modelling to identify mechanism and options                  | Nov-19               | On track |
|      |          |                         |   |   |                | Milestone 3: Strategic Outline Business Case   | Mar-20               | On track |
| 2016 | 13       | Harborne - Queens Park  | Implementation of the proposed flood alleviation scheme   | Birmingham City Council (Leisure)   | Complete       |  |                      |          |
|      |          |                         | Assess the condition and capacity of the sewer network  | Severn Trent Water  | Complete       |  |                      |          |
|      |          |                         | Assess the condition and capacity of the highway drainage network   | Highway Maintenance and Management Partner                                | Complete       |  |                      |          |
|      |          |                         | Develop catchment options across the upper Bourn Brook catchment to manage flooding from all sources  | Birmingham City Council (LLFA) Severn Trent Water and Environment Agency  | On track       | Milestone 1: Develop partnership and identify funding for modelling study            | Feb-17               | Complete |
|      |          |                         |   |   |                | Milestone 2: Integrated modelling to identify mechanism and options                  | Nov-19               | On track |
|      |          |                         |   |   |                | Milestone 3: Strategic Outline Business Case   | Mar-20               | On track |
| 2016 | 14       | Mere Green              | Assess the condition and capacity of the sewer network  | Severn Trent Water  | On track       | Milestone 1: Review at risk propoerties and add to register of sewer flooding        | Jan-19               | Complete |
|      |          |                         |   |   |                | Milestone 2: Undertake flow survey   | Oct-19               | On track |
|      |          |                         | Assess the condition and capacity of the highway drainage network   | Highway Maintenance and Management Partner                                | Complete       |  |                      |          |
|      |          |                         | Explore the potential for flood mitigation  | Birmingham City Council (LLFA), Severn Trent Water and Home owners        | On track       | Milestone 2: Put forward Flood Defence Scheme for fgrant funding in future programme | Mar-19               | Complete |
|      |          |                         |   |   |                | Milestone 4: Develop business case   | May-20               | On track |
|      |          |                         | Assess the effectiveness of the installed property level resilience measures  | Severn Trent Water  | Complete       |  |                      |          |
|      |          |                         |   |   |                |  |                      |          |
| 2016 | 15       | Oscott                  | Investigate options to manage overland flows from the recreation ground   | Birmingham City Council (LLFA and Leisure Services)                       | Complete       |  |                      |          |
|      |          |                         | Explore the potential for flood mitigation  | Birmingham City Council (LLFA) and Home owners                            | Complete       |  |                      |          |
| 2016 | 16       | Perry Barr              | Investigate options to manage overland flows from the Perry Park, including increasing the height of the bund                                 | Birmingham City Council (Leisure Services)                                | Complete       |  |                      |          |
|      |          |                         | Investigate capacity of Perry Brook culvert and interaction with River Tame defences  | Environment Agency  | On track       | Milestone 1: LLFA & EA to review available data                                      | Jul-19               | Complete |
|      |          |                         |   |   |                | Milestone 2: LLFA to develop initial assessment                                      | Mar-20               | On track |
|      |          |                         | Assess the condition of the sewer network in the catchment area   | Severn Trent Water  | Complete       |  |                      |          |
| 2016 | 17       | Perry Beeches           | Assess the condition and capacity of the sewer network in the catchment area  | Severn Trent Water  | On track       | Milestone 1: Pre-feasibility assemnent of sewer flood risk                           | Oct-19               | On track |
|      |          |                         | Construct a hydraulic model to enhance understanding of flooding mechanisms and develop a set of options to mitigate flooding within the area | Birmingham City Council (LLFA)  | Complete       |  |                      |          |



| Year  | Site Ref                                   | Location                 | Recommended Actions   | Identified Party / RMA  | Overall Status                               | Milestone  | Target Date (end of) | Status   |
|---|--|--------------------------|---|---|--|--|----------------------|----------|
|   |  |                          | Review maintenance regime to ensure gullies are free from debris  | Highway Maintenance and Management Partner                                | Complete                                     |  |                      |          |
|   |  |                          | Fix and maintain the drainage infrastructure from the elevated sections of the M6.  | Highways England  | Complete                                     |  |                      |          |
|   |  |                          | Regular inspections of the Perry Brook culverts   | Highways England  | Complete                                     |  |                      |          |
|   |  |                          | Regular inspections and maintenance of the open channel through Perry Park  | Birmingham City Council (Leisure)   | Complete                                     |  |                      |          |
| 2016  | 18   | Quinton                  | Assess the condition and capacity of the sewer network in the catchment area  | Severn Trent Water  | On track                                     | Milestone 1: Include in Upper Bourn Brook Catchment Study Modelling              | Nov-19               | On track |
|   |  |                          | Assess the condition and capacity of the culverted Quinton Brook  | Birmingham City Council (Housing)   | On track                                     | Milestone 1: STW to undertake CCTV survey as part of wider works                 |                      | Complete |
|   |  |                          |   |   |  | Milestone 2: Include in Upper Bourn Brook Catchment Study Modelling              | Nov-19               | On track |
|   |  |                          | Review maintenance regime to ensure gullies are free from debris  | Highway Maintenance and Management Partner                                | Complete                                     |  |                      |          |
|   |  |                          | Develop catchment options across the upper Bourn Brook catchment to manage flooding from all sources  | Birmingham City Council (LLFA), Severn Trent Water and Environment Agency | On track                                     | Milestone 1: Develop partnership and identify funding for modelling study        | Feb-17               | Complete |
|   |  |                          |   |   |  | Milestone 2: Integrated modelling to identify mechanism and options              | Nov-19               | On track |
|   |  |                          |   |   |  | Milestone 3: Strategic Outline Business Case                                     | Mar-20               | On track |
| Review property level resilience scheme in Overdale Road  | Birmingham City Council (LLFA)             | Complete                 |   |   |  |  |                      |          |
| 2016  | 19   | Roughley                 | Assess the condition and capacity of the sewer network in the vicinity of Slade Road and Willmott Road  | Severn Trent Water  | On track                                     | Milestone 1: Pre-feasibility assesment of sewer flood risk                       | Mar-20               | On track |
|   |  |                          | Assess the condition and capacity of the highway drainage network to establish if additional gullies are required                             | Highway Maintenance and Management Partner                                | Complete                                     |  |                      |          |
|   |  |                          | Review of maintenance schedule of highway assets (e.g. gullies)   | Highway Maintenance and Management Partner                                | Complete                                     |  |                      |          |
|   |  |                          | Explore the potential for flood mitigation measures   | Severn Trent Water  | On track                                     | Milestone 1: Pre-feasibility assesment of sewer flood risk                       | Mar-20               | On track |
|   |  |                          | Assess the effectiveness of the installed property level resilience measures  | Severn Trent Water  | Complete                                     |  |                      |          |
|   |  |                          | 2016  | 20  | Selly Oak - Wood Brook                       | Continue to explore options for funding contributions towards Bourn Brook scheme | Environment Agency   | On track |
| Assess the condition and capacity of the sewer network in the Bristol Road  | Severn Trent Water                         | On track                 |   |   |  | Milestone 1: Pre-feasibility assesment of sewer flood risk                       | Mar-20               | On track |
| Assess the condition and capacity of the highway drainage network to establish if additional gullies are required | Highway Maintenance and Management Partner | Complete                 |   |   |  |  |                      |          |
| Review of maintenance schedule of highway assets (e.g. gullies)   | Highway Maintenance and Management Partner | Complete                 |   |   |  |  |                      |          |
| 2016  | 21   | Selly Oak - Eastern Road | Explore the potential for flood mitigation measures   | Birmingham City Council (LLFA) and King Edwards School                    | Complete                                     |  |                      |          |
|   |  |                          | Develop catchment options across the upper Bourn Brook catchment to manage flooding from all sources  | Birmingham City Council (LLFA), Severn Trent Water and Environment Agency | Cancelled - action not relevant to this site |  |                      |          |
| 2016  | 22   | Selly Park North         | Modification of the private boundary wall and review of maintenance regime in Riverside Drive to accommodate surface water flows              | Birmingham City Council (LLFA and Leisure Services) and Homeowners        | Complete                                     |  |                      |          |
|   |  |                          | Implementation of the flood alleviation scheme  | Environment Agency, Birmingham City Council (LLFA) and Severn Trent Water | Complete                                     |  |                      |          |
|   |  |                          | Assess the condition and capacity of the sewer network in catchment area  | Severn Trent Water  | Complete                                     |  |                      |          |
| 2016  | 23   | Woodgate Valley          | Construct a hydraulic model to enhance understanding of flooding mechanisms and develop a set of options to mitigate flooding within the area | Birmingham City Council (LLFA)  | Complete                                     |  |                      |          |
|   |  |                          | Assess the condition and capacity of the sewer network  | Severn Trent Water  | On track                                     | Milestone 1: Include in Upper Bourn Brook Catchment Study Modelling              | Nov-19               | On track |
|   |  |                          | Assess the condition and capacity of the highway drainage   | Highway Maintenance and Management Partner                                | Complete                                     |  |                      |          |
|   |  |                          | Review of maintenance schedule of highway assets (e.g. gullies)   | Highway Maintenance and Management Partner                                | Complete                                     |  |                      |          |
|   |  |                          | Review property level resilience scheme in Bean Croft   | Birmingham City Council (LLFA)  | Complete                                     |  |                      |          |
|   |  |                          | Remove blockages and review maintenance regime of unnamed watercourse   | Birmingham City Council (Leisure Services)                                | Complete                                     |  |                      |          |
|   |  |                          | Develop catchment options across the upper Bourn Brook catchment to manage flooding from all sources  | Birmingham City Council (LLFA), Severn Trent Water and Environment Agency | On track                                     | Milestone 1: Develop partnership and identify funding for modelling study        | Feb-17               | Complete |
|   |  |                          |   |   |  | Milestone 2: Integrated modelling to identify mechanism and options              | Nov-19               | On track |
|   |  |                          |   |   |  | Milestone 3: Strategic Outline Business Case                                     | Mar-20               | On track |

| Year | Site Ref | Location   | Recommended Actions   | Identified Party / RMA   | Overall Status | Milestone   | Target Date (end of) | Status   |
|------|----------|--|---|--|----------------|---|----------------------|----------|
| 2018 | 1        | Acocks Green - Broom Hall Crescent                     | Assess condition and capacity of sewer network                | Severn Trent Water   | On track       | Milestone 1: Undertake CCTV Surveys   | Nov-19               | On track |
|      |          |  |   |  |                | Milestone 2: Review existing modelling info and scope up any additional work required   | Dec-19               | On track |
|      |          |  |   |  |                | Milestone 3: Assess performance of sewer system   | Mar-20               | On track |
| 2018 | 2        | Billesley - Ardencote Road                             | Explore the potential for community scale flood mitigation    | Birmingham City Council (Housing) and Birmingham City Council (LLFA) | Complete       | Milestone 1: Meeting between BCC LLFA & BCC Housing to discuss issues   | Apr-19               | Complete |
|      |          |  |   |  | Complete       | Milestone 2: Undertake cost benefit assessment  | Sep-19               | Complete |
|      |          |  |   |  | Complete       | Milestone 3: Put forward Flood Defence Scheme for grant funding or Local Levy   | Sep-19               | Complete |
| 2018 | 3        | Bournbrook & Selly Park - Hubert Road                  | Explore potential for property flood resilience               | Birmingham City Council (LLFA) and Property Owners                   | On track       | Milestone 1: Undertake cost benefit assessment  | Dec-19               | On track |
|      |          |  |   |  |                | Milestone 2: Put forward Flood Defence Scheme for grant funding or advise property owners that they would need to self fund works | Dec-19               | On track |
|      |          |  | Review maintenance schedule for highway assets                | Highway Maintenance and Management Partner                           | Complete       |   |                      |          |
| 2018 | 4        | Bournbrook & Selly Park - Oakfield Road                | Explore potential for property flood resilience               | Birmingham City Council (LLFA) and Property Owners                   | Complete       |   |                      |          |
|      |          |  |   |  | Complete       |   |                      |          |
| 2018 | 5        | Bournbrook & Selly Park - Selly Park North             | Implementation of flood alleviation scheme                    | Environment Agency   | Complete       |   |                      |          |
|      |          |  | Review residual flood risk from surface water                 | Environment Agency   | Complete       |   |                      |          |
|      |          |  | Assess capacity of existing drainage infrastructure           | Highway Maintenance and Management Partner                           | Overdue        | Milestone 1:  |                      | Overdue  |
|      |          |  | Assess condition and capacity of sewer network                | Severn Trent Water   | On track       | Milestone 1: Detailed survey and model verification   | May-20               | On track |
| 2018 | 6        | Bournbrook & Selly Park - Selly Park South             | Explore the potential for property flood resilience           | Environment Agency and Property Owners                               | Complete       |   |                      |          |
| 2018 | 7        | Bournbrook & Selly Park - The Avenues                  | Assess condition and capacity of local drainage               | Property Owners  | On track       | Milestone 1: Advice to residents advising of responsibilities   | Dec-19               | On track |
|      |          |  | Explore the potential for community scale mitigation          | Environment Agency   | On track       | Milestone 1: Submit Strategic Outline Business Cases & persue Locay Level funding   | Oct-19               | On track |
|      |          |  | Assess condition and capacity of sewer network                | Severn Trent Water   | Overdue        | Milestone 1:  |                      | Overdue  |
| 2018 | 8        | Bournville & Cotteridge - Laburnum Road                | Explore the potential for community scale mitigation          | Birmingham City Council (LLFA)                                       | On track       | Milestone 1: Site investigation   | Dec-19               | On track |
|      |          |  |   |  | On track       | Milestone 2: Mitigation works to manage overland flows  | Mar-20               | On track |
| 2018 | 9        | Brandwood & Kings Heath - Brandwood Cemetery           | Assess the condition and capacity of local drainage           | Birmingham City Council (Bereavement)                                | Complete       |   |                      |          |
|      |          |  | Review of maintenance schedule for local drainage assets      | Birmingham City Council (Bereavement)                                | Complete       |   |                      |          |
|      |          |  | Explore the potential for community scale mitigation          | Birmingham City Council (Bereavement)                                | On track       | Milestone 1: Identify proposal and funding  | Apr-19               | Complete |
|      |          |  |   |  |                | Milestone 2: Complete flood mitigation works  | Dec-19               | On track |
| 2018 | 10       | Brandwood & Kings Heath - Brandwood Park               | Explore the potential for community scale mitigation          | Birmingham City Council (Housing)                                    | On track       | Milestone 1: Liaison with land owner  | Jul-19               | Complete |
|      |          |  |   |  |                | Milestone 2: Undertake cost benefit assessment  | Dec-19               | On track |
|      |          |  |   |  |                | Milestone 3: Put forward Flood Defence Scheme for grant funding or Local Levy   | Mar-20               | On track |
|      |          |  | Assess the condition and capacity of highway drainage network | Highway Maintenance and Management Partner                           | Overdue        | Milestone 1:  |                      | Overdue  |
|      |          |  | Assess condition and capacity of the watercourse              | Birmingham City Council (Leisure)                                    | On track       | Milestone 1: Assess condition of trash screen and watercourse channel   | Nov-19               | On track |
|      |          |  | Review maintenance regime of the watercourse                  | Birmingham City Council (Leisure)                                    | On track       | Milestone 1: Establish routine maintenance regime for trash screen  | Dec-19               | On track |
| 2018 | 11       | Brandwood & Kings Heath - High Street                  | Explore the potential for property flood resilience           | Birmingham City Council (LLFA) and Property Owners                   | On track       | Milestone 1: Advice to business owners advising measures they can install to protect themselves                                   | Nov-19               | On track |
|      |          |  | Assess condition and capacity of the highway drainage network | Highway Maintenance and Management Partner                           | Overdue        | Milestone 1:  |                      | Overdue  |
| 2018 | 12       | Brandwood & Kings Heath - Newick Grove/Bryndale Avenue | Explore the potential for community scale flood mitigation    | Birmingham City Council (LLFA)                                       | Complete       |   |                      |          |
|      |          |  |   |  | Complete       |   |                      |          |

| Year | Site Ref | Location  | Recommended Actions   | Identified Party / RMA  | Overall Status | Milestone   | Target Date (end of) | Status   |
|------|----------|---|---|---|----------------|---|----------------------|----------|
|      |          |   | Assess condition and capacity of the highway drainage network     | Highway Maintenance and Management Partner                                | Overdue        | Milestone 1:  |                      | Overdue  |
| 2018 | 13       | Druids Heath & Monyhull - Bayston Road/Kinsey Grove     | Explore the potential for community scale flood mitigation        | Birmingham City Council (Leisure)   | On track       | Milestone 1: Undertake cost benefit assessment  | Mar-20               | On track |
|      |          |   |   |   |                | Milestone 2: Put forward Flood Defence Scheme for grant funding or Local Levy         | Apr-20               | On track |
| 2018 | 14       | Druids Heath & Monyhull - Bicknell Croft/Saxelby Close  | Explore the potential for catchment wide flood mitigation         | Birmingham City Council (LLFA) and Birmingham City Council (Housing)      | On track       | Milestone 1: Identify scope for detailed modelling and assessment                     | Dec-19               | On track |
|      |          |   |   |   |                | Milestone 2: Bid for funding for detailed modelling and assessment                    | Mar-20               | On track |
| 2018 | 16       | Druids Heath & Monyhull - Rowcroft Covert               | Explore the potential for community scale flood mitigation        | Birmingham City Council (Housing) and Birmingham City Council (LLFA)      | On track       | Milestone 1: Undertake cost benefit assessment  | Dec-19               | On track |
|      |          |   |   |   |                | Milestone 2: Put forward Flood Defence Scheme for grant funding or Local Levy         | Mar-20               | On track |
|      |          |   | Assess condition and capacity of local drainage                   | Birmingham City Council (Housing)   | Complete       |   |                      |          |
|      |          |   | Review maintenance schedule of local drainage assets              | Birmingham City Council (Housing)   | Complete       |   |                      |          |
| 2018 | 17       | Druids Heath & Monyhull - Sherstone Covert              | Explore the potential for property flood resilience               | Birmingham City Council (Housing) and Birmingham City Council (LLFA)      | On track       | Milestone 1: Meeting between BCC LLFA & BCC Housing to discuss issues                 | Apr-19               | Complete |
|      |          |   |   |   |                | Milestone 2: Review potential to complete work through BCC housing programme          | Mar-20               | On track |
| 2018 | 18       | Edgbaston - Barsham Close                               | Assess condition and capacity of local drainage                   | Birmingham City Council (Housing)   | On track       | Milestone 1: Meeting between BCC LLFA & BCC Housing to discuss issues                 | Apr-19               | Complete |
|      |          |   |   |   | Complete       | Milestone 2: Site visit to assess potential for addition local drainage and costs     | Dec-19               | Complete |
|      |          |   | Review maintenance schedule of local drainage assets              | Birmingham City Council (Housing)   |                | Milestone 3: Housing to review funding opportunities                                  | Mar-20               | On track |
|      |          |   |   |   | Complete       |   |                      |          |
| 2018 | 19       | Erdington - Spring Lane                                 | Assess condition and capacity of the sewer network                | Severn Trent Water  | On track       | Milestone 1: Undertake CCTV Surveys   | Nov-19               | On track |
|      |          |   |   |   |                | Milestone 2: Review existing modelling info and scope up any additional work required | Dec-19               | On track |
|      |          |   |   |   |                | Milestone 3: Assess performance of sewer system                                       | Mar-20               | On track |
| 2018 | 20       | Hall Green South - Brookwood Avenue                     | Assess condition and capacity of the watercourse                  | Birmingham City Council (LLFA)  | Complete       | Milestone 1: De-silt River Cole adjacent to Brockwood Avenue                          | Oct-19               | Complete |
| 2018 | 21       | Harborne - Bourn Brook                                  | Assess condition and capacity of the watercourse                  | Birmingham City Council (Leisure) and Birmingham City Council (Housing)   | Complete       |   |                      |          |
|      |          |   | Review maintenance regime for the watercourse                     | Birmingham City Council (Leisure) and Birmingham City Council (Housing)   | Complete       |   |                      |          |
|      |          |   | Explore the potential for catchment wide flood mitigation         | Environment Agency, Birmingham City Council (LLFA) and Severn Trent Water | On track       | Milestone 1: Develop partnership and identify funding for modelling study             | Feb-17               | Complete |
|      |          |   |   |   |                | Milestone 2: Integrated modelling to identify mechanism and options                   | Nov-19               | On track |
|      |          |   |   |   |                | Milestone 3: Strategic Outline Business Case  | Mar-20               | On track |
| 2018 | 22       | Harborne - Clarence Road                                | Assess the condition and capacity of the highway drainage network | Highway Maintenance and Management Partner                                | Overdue        | Milestone 1:  |                      | Overdue  |
|      |          |   | Assess the condition and capacity of local drainage               | Midland Heart   | Overdue        | Milestone 1:  |                      | Overdue  |
|      |          |   | Explore the potential for property flood resilience               | Birmingham City Council (LLFA) and Property Owners                        | On track       | Milestone 1: Undertake cost benefit assessment  | Dec-19               | On track |
|      |          |   |   |   |                | Milestone 2: Put forward Flood Defence Scheme for grant funding or Local Levy         | Mar-20               | On track |
| 2018 | 23       | Harborne - Mill Farm Road/Cadleigh Gardens/Quinton Road | Assess the condition and capacity of local drainage               | Birmingham City Council (Housing)   | Complete       |   |                      |          |
|      |          |   | Explore the potential for community scale flood mitigation        | Birmingham City Council (Leisure) and Birmingham City Council (LLFA)      | On track       | Milestone 1: Incorporate into Upper Bourn Brook study                                 | Nov-19               | On track |
|      |          |   | Explore the potential to minimise leaf litter                     | Birmingham City Council (Housing)   | On track       | Milestone 1: Passed to tree officer to review pollarding of tree in Cadleigh Gardens  | Dec-19               | On track |
|      |          |   | Explore the potential for catchment wide flood mitigation         | Environment Agency, Birmingham City Council (LLFA) and Severn Trent Water | On track       | Milestone 1: Develop partnership and identify funding for modelling study             | Feb-17               | Complete |
|      |          |   |   |   |                | Milestone 2: Integrated modelling to identify mechanism and options                   | Nov-19               | On track |
|      |          |   |   |   |                | Milestone 3: Strategic Outline Business Case  | Mar-20               | On track |
| 2018 | 24       | Harborne - Weather Oaks                                 | Assess the condition and capacity of local drainage               | Private Road Owner via management company MetroPM                         | Complete       |   |                      |          |

| Year | Site Ref | Location                                    | Recommended Actions   | Identified Party / RMA   | Overall Status | Milestone  | Target Date (end of) | Status   |
|------|----------|---|---|--|----------------|--|----------------------|----------|
|      |          |   | Review of maintenance regime schedule of local drainage assets    | Private Road Owner via management company MetroPM  | Complete       |  |                      |          |
|      |          |   | Explore the potential to minimise leaf litter                     | Private Road Owner via management company MetroPM  | Complete       |  |                      |          |
|      |          |   | Assess the condition and capacity of local drainage               | Birmingham City Council (Housing)  | Complete       | Milestone 1: Meeting between BCC LLFA & BCC Housing to discuss issues  | Apr-19               | Complete |
|      |          |   |   |  |                | Milestone 2: Site visit to assess potential for addition local drainage and costs                              | Jun-19               | Complete |
|      |          |   |   |  |                | Milestone 3: Put forward Flood Defence Scheme for grant funding or Local Levy                                  | Aug-19               | Complete |
| 2018 | 25       | Highters Heath - Arundel Road               | Assess the capacity of the highway drainage network               | Highway Maintenance and Management Partner   | Overdue        | Milestone 1:   |                      | Overdue  |
|      |          |   | Explore the potential for property flood resilience               | Birmingham City Council (LLFA) and Property Owners   | Complete       | Milestone 1: Undertake cost benefit assessment   | Sep-19               | Complete |
|      |          |   |   |  |                | Milestone 2: Put forward Flood Defence Scheme for grant funding or Local Levy                                  | Sep-19               | Complete |
| 2018 | 26       | Highters Heath - Henlow Road/Sladepool Road | Assess the condition and capacity of the highway drainage network | Highway Maintenance and Management Partner   | Overdue        | Milestone 1:   |                      | Overdue  |
|      |          |   | Explore the potential for property flood resilience               | Birmingham City Council (LLFA) and Property Owners   | On track       | Milestone 1: Undertake cost benefit assessment in conjunction with community scale flood mitigation assessment | Dec-19               | On track |
|      |          |   | Explore the potential for community scale flood mitigation        | Birmingham City Council (Leisure)  | Complete       | Milestone 1: Meeting between BCC LLFA & BCC Leisure to discuss issues  | May-19               | Complete |
|      |          |   |   |  |                | Milestone 2: Put forward Local Levy bid for modelling study  | Jun-19               | Complete |
|      |          |   |   |  |                | Milestone 3: Secure Local Levy funding for modelling study   | Jul-19               | Complete |
|      |          |   |   |  |                | Milestone 3: Undertake modelling study   | Jan-20               | On track |
| 2018 | 27       | Highters Heath - Mountford Close            | Review maintenance schedule of highway assets                     | Highway Maintenance and Management Partner   | Overdue        | Milestone 1:   |                      | Overdue  |
|      |          |   | Assess condition and capacity of local drainaghe                  | Birmingham City Council (housing)  | Complete       | Milestone 1: Clearance of blocked gullies  | Oct-19               | Complete |
| 2018 | 28       | Highters Heath - Warstock Road              | Assess the condition and capacity of the sewer network            | Severn Trent Water   | On track       | Milestone 1: Assess performance of sewer system  | Jan-20               | On track |
| 2018 | 29       | Moseley - Moor Green                        | Assess the condition and capacity of the highway drainage network | Highway Maintenance and Management Partner   | Overdue        | Milestone 1:   |                      | Overdue  |
|      |          |   | Explore the potential for community scale flood mitigation        | Birmingham City Council (Leisure)  | On track       | Milestone 1: Identify scope for detailed modelling and assessment  | Dec-19               | Complete |
|      |          |   |   |  |                | Milestone 2: Bid for funding from Local Levy for detailed modelling and assessment                             | Mar-20               | Complete |
|      |          |   |   |  |                | Milestone 3: Secure Local Levy funding for modelling study   | Jul-19               | Complete |
|      |          |   |   |  |                | Milestone 3: Undertake modelling study   | Jan-20               | On track |
| 2018 | 30       | North Edgbaston - Wadhurst Road             | Planning to agree a way forward with developers                   | Birmingham City Council (Planning) and Avery Fields Community Sports Trust   | On track       | Milestone 1: Construct bund to intercept overland flows  | Jul-18               | Complete |
|      |          |   |   |  |                | Milestone 2: Infiltration testing to determine soakaway potential at site                                      | May-19               | Complete |
|      |          |   |   |  |                | Milestone 3: Consultation with Severn Trent Water to agree discharge of drainage to public sewer               | Oct-19               | On track |
|      |          |   |   |  |                | Milestone 4: Submit revised drainage strategy to planning for approval   | Nov-19               | On track |
| 2018 | 32       | Pype Hayes - Tyburn                         | Review maintenance regime for the watercourse                     | Birmingham City Council (Leisure) and Birmingham City Council (LLFA)   | Complete       | Milestone 1: Meeting between BCC LLFA & BCC Allotments to discuss issues                                       | Sep-19               | Complete |
|      |          |   | Explore the potential for property level flood resilience         | Birmingham City Council (LLFA) and Property Owners   | On track       | Milestone 2: Advice to business owners advising measures they can install to protect themselves                | Dec-19               | On track |
| 2018 | 33       | Quinton - Amersham Close                    | Assess the condition and capacity of the local drainage           | Birmingham City Council (Housing)  | Complete       |  |                      |          |
|      |          |   | Explore the potential for community scale flood mitigation        | Birmingham City Council (Housing)  | On track       | Milestone 1: Meeting between BCC LLFA & BCC Housing to discuss issues  | Apr-19               | Complete |
|      |          |   |   |  |                | Milestone 2: Site visit to assess potential for additional local drainage and costs                            | Dec-19               | On track |
| 2018 | 34       | Sparkhill                                   | Explore the potential for catchment wide flood mitigation         | Environment Agency, Birmingham City Council, Solihull Metropolitan Borough Council and Worcestershire County Council | Complete       | Milestone 1: Undertaken post flooding survey to inform potential schemes                                       | Mar-19               | Complete |
|      |          |   |   |  | On track       | Milestone 2: Assessment of options for future programme 2021 onwards   | Oct-19               | On track |
|      |          |   |   |  |                | Milestone 3: Assess the operational/capacity of the pumps  | Dec-19               | On track |

| Year | Site Ref | Location   | Recommended Actions  | Identified Party / RMA                                | Overall Status | Milestone   | Target Date<br>(end of) | Status   |
|------|----------|--|--|---|----------------|---|-------------------------|----------|
| 2018 | 34       | Stirchley - Dell Road                            | Assess the condition and capacity of the sewer network     | Severn Trent Water and Birmingham City Council (LLFA) | On track       | Milestone 1: Undertake survey and site inspection                                     | Aug-19                  | Complete |
|      |          |  |  |   |                | Milestone 2: Review existing modelling info and scope up any additional work required | Dec-19                  | On track |
|      |          |  |  |   |                | Milestone 3: Assess performance of sewer system                                       | Mar-20                  | On track |
| 2018 | 36       | Stirchley - Pitcairn Close                       | Explore the potential for community scale flood mitigation | Birmingham City Council (LLFA)                        | Complete       | Milestone 1: Site Investigation   | Jun-19                  | Complete |
|      |          |  |  |   | Complete       | Milestone 2: Submit Business Case   | Aug-19                  | Complete |
|      |          |  |  |   |                | Milestone 3: Deliver community scale mitigation scheme on site                        | Mar-20                  | On track |
| 2018 | 37       | Sutton Trinity - Wyndley Lane                    | Review maintenance schedule of highway assets              | Leisure Centre Management                             | Complete       |   |                         |          |
| 2018 | 38       | Sutton Vesey - Boldmere Road and Wakefield Close | Assess condition and capacity of the sewer network         | Severn Trent Water                                    | On track       | Milestone 1: Pre-feasibility study to be commissioned and completed                   | Mar-19                  | Complete |
|      |          |  |  |   |                | Milestone 2:  |                         | On track |
|      |          |  | Assess condition and capacity of local drainage            | Highway Maintenance and Management Partner            | Overdue        | Milestone 1:  |                         | Overdue  |
| 2018 | 39       | Druids Heath & Monyhull - Chanston Avenue        | Explore the potential for community scale mitigation       | Birmingham City Council (Bereavement)                 | On track       | Milestone 1: Meeting between BCC LLFA & BCC Bereavement to discuss issues             | Dec-19                  | On track |
|      |          |  | Explore the potential for property level flood resilience  | Birmingham City Council (LLFA) and Property Owners    | On track       | Milestone 1: Meeting between BCC LLFA and property owner                              | Dec-19                  | On track |
|      |          |  | Assess condition and capacity of the sewer network         | Severn Trent Water                                    | On track       | Milestone 1: Assess performance of sewer system                                       | Mar-20                  | On track |
| 2018 | 40       | Druids Heath & Monyhull - Marsham Road           | Assess condition and capacity of local drainage            | Highway Maintenance and Management Partner            | Overdue        | Milestone 1:  |                         | Overdue  |
| 2018 | 41       | Hall Green - Sarehole Road                       | Assess condition and capacity of the watercourse           | Birmingham City Council (Leisure)                     | On track       | Milestone 1: Meeting between BCC LLFA & BCC Leisure to discuss issues                 | Aug-19                  | Complete |
|      |          |  |  |   |                | Milestone 2: Undertake localised desilting work to River Cole                         | Dec-19                  | On track |





## Sustainability & Transport O&S Committee: Work Programme 2019/20

|                           |   |
|---------------------------|---|
| <b>Chair:</b>             | Cllr Liz Clements   |
| <b>Deputy Chair:</b>      | Cllrs Olly Armstrong and Julie Johnson (Joint)  |
| <b>Committee Members:</b> | Cllrs Muhammad Afzal, Zaker Choudhry, Eddie Freeman, Josh Jones and Timothy Huxtable.                               |
| <b>Officer Support:</b>   | Scrutiny Officers: Rose Kiely (303 1730) & Baseema Begum (303 1668)<br>Committee Manager: Louisa Nisbett (303 9844) |

### 1 Meeting Schedule

| Date   | What  | Officer Contact / Attendees   |
|--|---|---|
| 19 <sup>th</sup> June 2019 <b>(informal)</b><br>1400 hours<br>Room 329, Council House                      | <b>Informal meeting</b> to discuss the Work Programme with input from Officers (where possible) on key Sustainability and Transportation issues                           | Kevin Hicks, Assistant Director, Highways & Infrastructure; Phil Edwards, Assistant Director, Transport & Connectivity; Sylvia Broadley, Air Quality Manager; Mel Jones, Head of Transportation & Traffic Service; Uyen-Phan Han, Planning Policy Manager   |
| 24 <sup>th</sup> July 2019<br>1000 hours<br>Committee Room 6<br><br>Report Deadline: 15 <sup>th</sup> July | Draft Walking and Cycling Strategy and Local Cycling & Walking Infrastructure Plan Consultation<br><br>Quarterly update on the A34 Perry Barr infrastructure consultation | Alison Kennedy, Principal Transport Policy Officer, BCC<br><br>Cllr Waseem Zaffar, Cabinet Member for Transport & Environment<br>Cllr Jon Hunt<br>Mel Jones, Head of Transport Planning and Network Strategy, BCC<br>Peter Parker, Head of Infrastructure Delivery, BCC<br>Malcolm Holmes, Executive Director, West Midlands Rail Executive<br>Director of Rail, Transport for West Midlands<br>Steve McAleavy, Director of Customer Experience, TfWM<br>Sandeep Shingadia, Director of Development & Delivery, TfWM<br>Anne Shaw, Director of Network Resilience, TfWM |



| Date  | What  | Officer Contact / Attendees   |
|---|---|---|
| <b>25<sup>th</sup> September 2019</b><br><b>[cancelled]</b><br>1000 hours<br>Committee Room 2<br><br>Report Deadline: 16 <sup>th</sup> Sept | Climate Change Emergency – Initial session to understand Council Directorate key policies, plans and future proposals<br><br>Tracking – Birmingham Tree Policy Inquiry Report | Ian MacLeod, Assistant Director, Planning; Sylvia Broadley, Air Quality Manager; Uyen-Phan Han, Planning Policy Manager<br>Darren Share, Assistant Director, Street Scene<br>Julie Griffin, Acting Assistant Director, Housing<br><br>Simon Needle, Principal Arboriculturist/ Principal Ecologist, BCC |
| <b>16<sup>th</sup> October 2019</b><br>1000 hours<br>Committee Room 6<br><br>Report Deadline: 7 <sup>th</sup> Oct                           | Cabinet Member for Transport & Environment – Priorities & Upcoming work areas<br><br>Quarterly update on the A34 Perry Barr infrastructure consultation                       | Cllr Waseem Zaffar (Rose Horsfall, CSO)<br><br>Andy Everest/Peter Parker/Phil Edwards – Transport & Connectivity  |
| <b>20<sup>th</sup> November 2019</b><br>1000 hours<br>Committee Room 2<br><br>Report Deadline: 11 <sup>th</sup> Nov                         | Local Engineering Service re-design (TBC)<br><br>Highways Management and Maintenance PFI update (TBC)<br><br>Parking Supplementary Parking Document (SPD)                     | Kevin Hicks, Assistant Director, Highways & Infrastructure<br><br>Kevin Hicks, Assistant Director, Highways & Infrastructure/ Domenic De Bechi, PFI Contract Manager<br><br>Uyen-Phan Han, Planning Policy Manager and Naomi Coleman, Senior Transport Policy Officer                                   |
| <b>18<sup>th</sup> December 2019</b><br>1000 hours<br>Committee Room 2<br><br>Report Deadline: 9 <sup>th</sup> Dec                          | Clean Air Strategy Air Quality Action Plan (TBC)<br><br>Draft Birmingham Transport Plan (TBC)   | Mark Wolstencroft, Operations Manager Environmental Protection, BCC (TBC)<br><br>Mel Jones, Head of Transport Planning and Network Strategy, BCC  |
| <b>15<sup>th</sup> January 2020</b><br>1000 hours<br>Committee Room 2<br><br>Report Deadline: 6 <sup>th</sup> Jan                           | Session on Buses with partners  | TBC   |





| Date  | What  | Officer Contact / Attendees   |
|---|---|---|
| <b>19<sup>th</sup> February 2020</b><br>1000 hours<br>Committee Room 6<br><br>Report Deadline: 10 <sup>th</sup> Feb | Travel Demand Management (including traffic management issues)  | Mel Jones, Head of Transport Planning and Network Strategy, BCC<br><br>TfWM – TBC   |
| <b>18<sup>th</sup> March 2020</b><br>1000 hours<br>Committee Room 6<br><br>Report Deadline: 9 <sup>th</sup> Mar     | Cabinet Member for Transport & Environment – Annual Report<br><br>Flood Risk and Management Annual Report<br><br>School Streets Pilot Project   | CLlr Waseem Zaffar (Rose Horsfall, CSO)<br><br>Kevin Hicks, Assistant Director, Highways & Infrastructure<br><br>Mel Jones, Head of Transport Planning and Network Strategy |
| <b>15<sup>th</sup> April 2020</b><br>1000 hours<br>Committee Room 6<br><br>Report Deadline: 6 <sup>th</sup> Apr     | Update on Birmingham Cycling Revolution and Cycling Infrastructure (TBC)<br><br>Managing Developments & Events, (Including transport technology & data)<br><br>Tracking – Plastic Free Birmingham Inquiry (TBC) | Andy Middleton, BCC<br><br>Mel Jones, Head of Transport Planning and Network Strategy<br>TBC, TfWM<br><br>TBC   |

## 2 Further work areas of interest/Work to be programmed

2.1 The following items could be scheduled into the work programme if members wish to investigate further:

- Sustainability at the Commonwealth Games Village
- Sustainable Energy and the Veolia Contract - \*5 year contract extension (terms & exit strategy)

## 3 Other Meetings

3.1 Members have received regular private briefing sessions on the Highways PFI contract. These will be scheduled as agreed by Members at regular intervals.

### Call in Meetings

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### Petitions

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*None  
scheduled*

## Councillor Call for Action requests

*None  
scheduled*

It is suggested that the Committee approve Thursday at 1000 hours as a suitable day and time each week for any additional meetings required to consider 'requests for call in' which may be lodged in respect of Executive decisions.

### Contact Officers

Rose Kiely, Group Overview and Scrutiny Manager, [rose.kiely@birmingham.gov.uk](mailto:rose.kiely@birmingham.gov.uk) – 0121 303 1730  
Baseema Begum, Research & Policy Officer, [baseema.begum@birmingham.gov.uk](mailto:baseema.begum@birmingham.gov.uk) – 0121 303 1668

## 4 Forward Plan for Cabinet Decisions

The following decisions, extracted from the Cabinet Office Forward Plan of Decisions, are likely to be relevant to the Sustainability & Transport O&S Committee's remit. **Please note this is correct at the time of publication. Highlighted rows show a change to the previously listed cabinet proposed date.**

| Reference   | Title  | Portfolio               | Proposed Date of Decision |
|-------------|--|-------------------------|---------------------------|
| 006885/2019 | CWG Perry Barr A34 Highway Infrastructure – Full Business Case and Contract Award                        | Transport & Environment | 15 Oct 2019               |
| 006787/2019 | Workplace Parking Levy - Investigation of Options for developing and implementing a scheme in Birmingham | Transport & Environment | 15 Oct 2019               |
| 006461/2019 | Public Consultation on the Parking Supplementary Planning Document                                       | Leader                  | 29 Oct 2019               |
| 006208/2019 | HS2 Curzon Station Public Realm Project Delivery Costs   | Leader                  | 29 Oct 2019               |
| 006460/2019 | Project Definition Document - City Centre Public Realm Revitalisation                                    | Transport & Environment | 29 Oct 2019               |
| 006832/2019 | Highway Maintenance and Management PFI Contract  | Transport & Environment | 12 Nov 2019               |
| 005048/2018 | Moor Street Queensway Public Realm Improvements Outline Business Case                                    | Transport & Environment | 26 Nov 2019               |
| 005054/2018 | Walsall to Birmingham Sprint – combined Project Definition Document (PDD)/Full Business Case (FBC)       | Transport & Environment | 26 Nov 2019               |



|             |   |                         |             |
|-------------|---|-------------------------|-------------|
| 006880/2019 | Enhanced Partnership for Sprint   | Transport & Environment | 26 Nov 2019 |
| 006907/2019 | Birmingham Transport Plan   | Transport & Environment | 26 Nov 2019 |
| 006920/2019 | Birmingham Walking and Cycling Strategy   | Transport & Environment | 26 Nov 2019 |
| 006927/2019 | Dudley Road Improvements Scheme – Full Business Case  | Transport & Environment | 17 Dec 2019 |
| 005491/2018 | Digbeth Public Realm Improvements Full Business Case  | Transport & Environment | 17 Mar 2020 |
| 005052/2018 | Birmingham to Airport Sprint – combined Project Definition Document (PDD)/Full Business Case (FBC)                      | Transport & Environment | 17 Mar 2020 |
| 005053/2018 | Sutton Coldfield to Birmingham via Langley Sprint – combined Project Definition Document (PDD)/Full Business Case (FBC) | Transport & Environment | 17 Mar 2020 |
| 006361/2019 | Wharfdale Road Bridge Project   | Transport & Environment | 26 May 2020 |

