## Hounslow Highways November 2014



Highways
Maintenance
in
Hounslow



## **Hounslow Highways November 2014**



## The Project

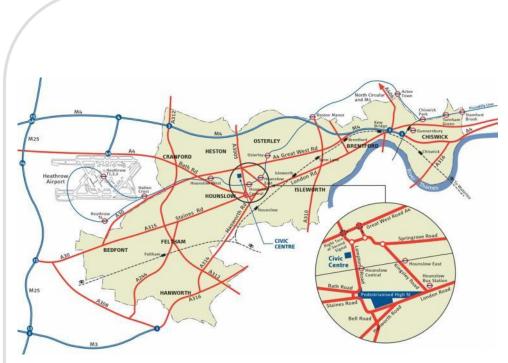




## The Borough



Delivering better streets



| Area:<br>Properties:  |       | 5,641 ha.<br>86,904                                       |
|---|-------|---|
| Population: Age 0 -15yrs Age 16 - 74yrs Age 75 and over Sick and disabled   |       | 219,341<br>20.6%<br>71.4%<br>5.3%<br>4.5%<br>35.0%        |
| Black and Minority Ethnic Groups  Hounslow Road network: Length of total principal urban Length of total urban B road Length of total urban C road Length of unclassified road Length of back lanes | TOTAL | 38.6km<br>13.3km<br>30.5km<br>346.8km<br>2.9km<br>431.9km |
| Footways:   |       | 762 km  |
| London Underground Stations   |       | 8   |

#### Car Ownership and Use:

British Rail Stations

| -        | Households with two<br>or more cars | Travel to<br>Work by Car |
|----------|-------------------------------------|--------------------------|
| Hounslow | 25%                                 | 40%                      |
| London   | 18.7%                               | 24%                      |

## The Project

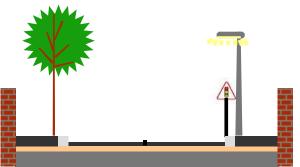


### What is in the Highways PFI

- 'Fence to Fence' all Council's highway network and associated infrastructure assets
- All Highways Services plus street cleansing, horticultural/arboriculture maintenance
- Call-off Services
- Third Party income

### What is in not in the Highways PFI

- Some strategic and regulatory duties, e.g. under the Traffic Management Act
- Traffic Signals, Traffic and Road Safety
- Parking Services
- Waste Collection



## The Project



### Facts & Figures

160 TUPE Transfers

46 Bridges and Structures

• 16,000 Street Lights

4,000 Illuminated Street Furniture items

• 22,000 Street Signs

• 12,000 Street Trees

• 19,000 Gullies

• 23 km Public Rights of Way (footpaths etc.)

A range of special features (War memorials etc.)

£100 million investment in 5 Year CIP to raise the network standard

## The Project



#### **Themes**

- Improving the Highways Network and improving all service levels to the communities of Hounslow
- Highways PFI 25 Years Starting 1 Jan 2013
- 5 year CIP to bring the network up to a steady state condition
- Maintain at this condition for remaining 20 years
- Handback with only programmed maintenance for 3 years
- Performance measured by:
  - Network Condition (NPG)
  - Performance Targets
- Default = Payment deductions or Termination Points

## Hounslow Highways November 2014



# Improving and Managing the Streets



## **Project Scope**



- Construction under the core investment period
- Operations & Maintenance
- Network Management
- Asset Management
- Streetworks and Permitting
- Community Environmental Services
- Enforcement
- Design and Project Management (new schemes)
- Commercial, Finance and Business Management (compliance, audit, performance management etc.)

### Construction



- 5 Year Core Investment Period
- 85% of Carriageways, 75% of Footways
- 16,000 Street Lights (LED and CMS)
- 5 Structure upgrades
- 10 Schemes of Special Engineering Designation
- Plans driven by condition improvement milestones
- Energy and Carbon targets
- Lifecycle planning with investment profile
- Managed in collaboration with technical consultancy







Estridge Close before and after





## **Investment Works**



## Carriageways

- 543 Schemes
- 755,000 sq.m
- 216 Km of roads



Estridge Close before and after

## **Footways**

- 413 Schemes
- 275,000 sq.m
- 153 Km of footways

## **Street Lighting**

• 13,800 new Street Lights







### **Investment Works**



## Schemes of Special Engineering Designation

- 10 Schemes
- Main Routes to Heathrow
- Pavement Design Solutions
  - FWD
  - Drainage Surveys
  - · BCI works incorporated
- Foambase Recycling
- SAMI installations
- EME2 and UL-M binder and surface courses





## **Investment Works**





## **Signs and Lines**

- Compliance in 24 months
- TSRGD and TRO's
- Assessment and Design Solutions
  - Signs/Lines Surveys
  - Full CAD development into CONFIRM
  - De-cluttering and de-illumination
- 10,300 signs replaced by end 2014
- Road Markings replaced or refreshed by end 2014
- Long-life solutions adopted to deliver a manageable lifecycle strategy

## **Operations & Maintenance**



- Highway maintenance
- Winter Service and Emergency Response
- Street cleansing
- Graffiti and Fly-posting
- Fly-tip removals
- Arboriculture and Horticulture
- Drainage maintenance
- Lighting maintenance & Festive lighting
- Traffic management
- Road markings maintenance
- Sign maintenance and future replacements









## **Network Management**



- Routine Safety Inspections
- Inventory Collection

• Policy setting for de-clutter, de-illumination, skid resistance,

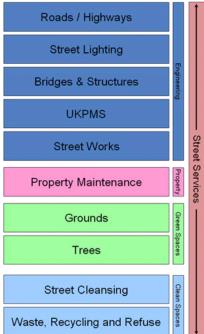
network safety and improvement etc.

Management of planned maintenance

Condition Surveys







## **Network Management**



#### Early Involvement – Carriageway and Footway Surveys

Carriageway



**SCRIM** (Links 1, 2 & 3 only)



**Detailed Visual Inspection** (All Links 1 - 5)





pcis 9



|            |            |         | _       | ı         |
|------------|------------|---------|---------|-----------|
| SRI        | SCIst      | SCIwc   | SCIsf   | MSCI      |
| Skid       | Structural | Wearing | Surface | Condition |
| Resistance | Index      | Course  | Index   | Index     |

Index





## **Network Management**



## Early Involvement – Carriageway and Footway Surveys Footway

#### Brand New - Rating 1





"Not defective"

#### Functionally Impaired - Rating 3





Cracked but level flags/blocks
Minor surface deterioration – fretting or fatting
Missing Filler
Appearance of Moss
Minor cracking
Moderate settlement 10mm-30mm

#### Aesthetically Impaired - Rating 2





Sound footways with patching. Modular footways with Bituminous Patching.

Modular footways with elements of different colour, aged, material. Faded Bituminous (coloured surfaces)

#### Structurally Unsound – Rating 4





Cracked and/or depressed flags >13mm

Depressed or missing blocks

Major fretting or potholing

Major cracking or scaling

Poor shape/settlement creating a difference in level >30mm

Trips exceeding 13mm.

## **Asset Management**



- Analysis of condition data and lifecycle planning
- Inventory Management with CONFIRM
- Assimilation of inventory compliance data TSRDG/TRO's etc.
- Data analysis and provision of ASD to NSG
- Managed in collaboration with JLUK consultancy





## **Street Works and Permitting**



- Full Street Works responsibilities
- Over 20,900 Permits to date
- Around 3,100 Street Works licenses issued
- Compliance audits and coring of utilities
- Broadened utility relationships
- Section 58 protections critical for the PFI

| Promoter                      | Permits Number Processed |     |     |     |     |     |     |     |     |       |  |
|-------------------------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-------|--|
|                               | Feb                      | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Total |  |
| Affinity Water Limited        | 15                       | 12  | 12  | 21  | 19  | 17  | 21  | 14  | 8   | 139   |  |
| British Telecom Open reach    | 69                       | 83  | 67  | 106 | 66  | 66  | 57  | 78  | 91  | 683   |  |
| National Grid Gas plc. (NGG)  | 77                       | 72  | 63  | 58  | 54  | 92  | 88  | 53  | 127 | 684   |  |
| SSE Energy Supply Ltd         | 49                       | 43  | 47  | 40  | 46  | 43  | 52  | 35  | 51  | 406   |  |
| Thames Water Utilities<br>Ltd | 238                      | 186 | 207 | 208 | 252 | 256 | 183 | 197 | 260 | 1,987 |  |
| Virgin Media                  | 246                      | 176 | 213 | 174 | 278 | 208 | 206 | 218 | 200 | 1,919 |  |
| TOTAL                         | 694                      | 572 | 609 | 607 | 715 | 682 | 607 | 595 | 737 | 5,818 |  |

| Туре                   |     | Licenses Number Processed |     |     |     |      |      |     |     |     |       |  |  |
|------------------------|-----|---------------------------|-----|-----|-----|------|------|-----|-----|-----|-------|--|--|
|                        | Jan | Feb                       | Mar | Apr | May | June | July | Aug | Sep | Oct | TOTAL |  |  |
| Skips                  | 95  | 94                        | 105 | 125 | 148 | 118  | 151  | 102 | 139 | 146 | 1,223 |  |  |
| Scaffolding            | 7   | 5                         | 4   | 6   | 3   | 4    | 3    | 8   | 2   | 8   | 50    |  |  |
| Hoarding               | 1   | 1                         | 2   |     | 2   | -    | 2    | -   | 1   | 1   | 10    |  |  |
| Scaffolding & Hoarding | 1   |                           | 1   |     | 1   | -    | -    | 1   |     | ,   | 3     |  |  |
| Mobile Crane           | 1   | -                         | 4   | 5   | 1   | -    | -    | -   | 3   | -   | 14    |  |  |
| Cherry Picker          | -   | ,                         | -   |     | -   | -    | -    | -   | -   | -   | -     |  |  |
| Conveyor Oversail      | -   | 1                         | 3   | 2   | 3   | -    | -    | -   | 1   | 2   | 12    |  |  |
| Mobile welfare unit    | -   | ,                         | -   |     | -   | -    | -    | -   | -   | -   | -     |  |  |
| MEWP                   | -   | -                         |     |     | -   | 2    | -    | -   | -   | -   | 2     |  |  |
| Section 50             | 3   | 2                         | -   | 1   | 2   | 3    | 2    | 3   | 5   | 3   | 24    |  |  |
| Total Processed        | 108 | 103                       | 119 | 139 | 160 | 127  | 158  | 113 | 151 | 160 | 1,338 |  |  |



## **Community Environment**



- Community Awareness
- Tree and Soft Estate Management
- Education Programmes
- Community Events















## **Enforcement**



- Enforcement Officers
- Investigation and warnings
- Issue of FPN's

## Hounslow Highways clamps down on litter louts



Hounslow Highways community
environment officers and local
police teamed up this week in a
aid to clamp down on litteriouts.

Officers patrolled Brentford and Hounslow high streets looking out for anyone dropping

Councillor Colin Ellar, deputy leader and cabinet member for environment, said: "Hounslow Highways and the council are working hard to keep the borough clean and with over 800 little bins across the borough there is simply no excuse to spoil our streets.

"My message to litter louts is simple – don't drop litter or you could be landed with an on-the spot fine."

Inspector Ricky Kandohla said. "Morking in close partnership with our local authority has given us a good opportunity to deal with the environmental issues that has affected so many of our local residents, introducing this clamp down has also cleaned up certain areas which gives the effect of a crime and clean free area. Such initiatives will continue across Hounslow Borough."

Hounstow Highways senice director Rob Gillespie said: "Our deansing regime is constantly evolving to cater for seasonal changes and to give the borough a beller, deeper clean. While it is our job to carry out street cleansing, it is up to everyone to dispose of their titler and waste responsibly. Only when this happens will we start to see the positive effects of a cleaner, greener borough that we can all be proud of."

The clampdown on litter louts will continue throughout the borough.





## **Enforcement**



| Offence   | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Oct | Total |
|---|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
|   | -   | -   | -   | 8   | 5   | 3   | 8   | 11  | 8   | -   | 43    |
| CN12 -Failure to Produce Authority (WTN)                                      |     |     |     |     |     |     |     |     |     |     |       |
| CN1-Depositing litter   | 8   | 12  | 25  | 18  | 13  | 15  | 32  | 50  | 70  | 41  | 284   |
| ENVIRONMENTAL ENFORCEMENT   | 8   | 12  | 25  | 26  | 18  | 18  | 40  | 61  | 78  | 41  | 327   |
| 132(1) - Painting, inscribing, affixing picture on surface of highway or tree | -   | -   | -   | -   | -   | -   | 1   | -   | -   | -   | 1     |
| S137(1) - Highway obstruction   | -   | 2   | -   | -   | -   | -   | -   | 1   | -   | 2   | 5     |
| S139(3) - Depositing builders skip without permission on highway              | 5   | 6   | 17  | 9   | 7   | 4   | 1   | 7   | 3   | 3   | 62    |
| S139(4)(a) - Failure to secure lighting                                       | 1   | 16  | 1   | 8   | 12  | -   | 1   | 6   | -   | 5   | 50    |
| S139(4)(b) - Failure to secure marking of builders skip                       | -   | -   | -   | -   | 1   | -   | -   | -   | 1   | 3   | 5     |
| S139(4)(d) - Failure to comply with conditions of permission                  | -   | -   | -   | 1   | -   | -   | 2   | 4   | 1   | 2   | 10    |
| S139(4)c - Failure to secure removal of builders skip                         | -   | 1   | 2   | 8   | 6   | 5   | 12  | 7   | 8   | 7   | 56    |
| S148(a) - Depositing material on highway                                      | -   | -   | 1   | -   | -   | 1   | 1   | 1   | -   | 1   | 4     |
| S148c - Depositing anything on highway to interruption of user                | -   | -   | 2   | 1   | -   | -   | -   | -   | 1   | -   | 4     |
| s169(5) - Erecting scaffolding or other structure without permission          | 2   | 1   | 5   | 3   | 1   | -   | 1   | 1   | 4   | 3   | 21    |
| HIGHWAYS ENFORCEMENT  | 8   | 26  | 28  | 30  | 27  | 10  | 18  | 27  | 18  | 26  | 218   |
| ALL ENFORCEMENT   | 16  | 38  | 53  | 56  | 45  | 28  | 58  | 88  | 96  | 67  | 545   |



## **Design & Project Management**



- Additional scheme works awarded through the PFI
- Call-off works and Change schemes
- Professional Services
- Design Management
- Project Management and Delivery
- The ability to merge investment schemes with other Council or LIP funded works



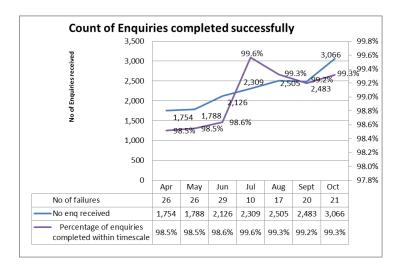


## **Business Support**



Delivering better streets

- Performance Management
- Communications
- Press Relations
- Audit and Compliance
- Accreditations





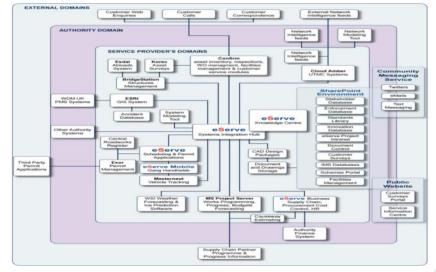
### The Network Hub



- Our central control centre
- Serves all departments
- Channels data
- Manages enquiries and completions
- Provides data to Business
   Support and other teams for performance management and improvement
- Schedules works
- Monitors works and the network









## **Hounslow Highways November 2014**

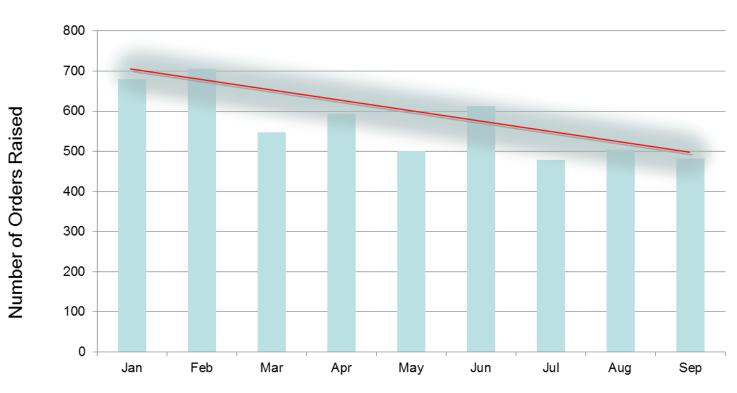


## **The Outcomes**



## The Outcome Highway Defects



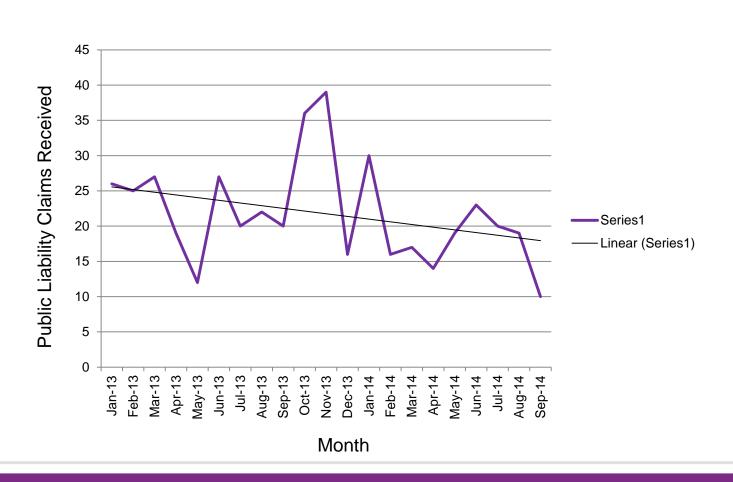


Highway Reactive Maintenance from January - September 2014



## The Outcome Public Liability Claims







### The Outcome



- Economic and Social Regeneration
- Attracting Businesses
- Making the area the place to have employees living in
- Making the area the most efficient place to do business from
- Efficient Transport and Quality of Life

## **INVEST HOUNSLOW**

**LONDON'S BEST CONNECTED BOROUGH** 

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