

LONDON BOROUGH OF RICHMOND UPON THAMES  
ENVIRONMENT DIRECTORATE  
NETWORK MANAGEMENT AND STREET CARE

# **WINTER SERVICE PLAN**

For

03 OCTOBER 2011 TO 01 MAY 2012



Environment Directorate  
Winter Service Control Centre  
Langhorn Drive  
Twickenham  
TW2 7SG

## CONTENTS

SECTION	TITLE	PAGE
1	Introduction	3
2	Winter Service Plan - Standard of Service	4
3	Network Management and Street Care	5
4	Circulation of Plan	6
5	Hierarchy definition and Route Planning	6
6, 7, 8	Post- salting priorities	7
9	Richmond Resilience Road Network	8
10	Response and treatment times	9
11	Salt bins	9
12	Temporary warning signs	9
13	Water leaks	9
14	Weather Forecasts	10
15	Decision Making Process	11
16	Personnel	11
17	Plant & Vehicles	12
18	Breakdowns	12
19, 20	Operational Communications & Communications	13
21	Salt - Specification	14
22	Storage	14
23	Stockpile	14
24	Alternative De-Icing Materials	14
25	Media Communications	15
26	Summary of Forms	15

## LIST OF APPENDICES

- Appendix 1: List of Roads to be precautionary salted.
- Appendix 2: Precautionary Salting Route 1
- Appendix 3: Precautionary Salting Route 2
- Appendix 4: Precautionary Salting Route 3
- Appendix 5: Precautionary Salting Route 4
- Appendix 6: Post Salting – Secondary Roads
- Appendix 7: Post Salting – Primary Footway Salting
- Appendix 8: Post Salting – Secondary Footway Salting
- Appendix 9: Post Salting – Secondary Steep Gradients
- Appendix 10: Location of 'Ice Signs'
- Appendix 11: Decision Making Procedure

## 1.0 INTRODUCTION

- 1.1 The London Borough of Richmond upon Thames, as the Highway Authority, is under a statutory duty to maintain highways which are maintainable at public expense (“adopted highways”). Section 41 of the Highways Act 1980 imposes this general duty. This general duty, has been amended by section 111 of the Railways and Transport Safety Act 2003 to ensure, so far as is reasonably practicable, that safe passage along a highway is not endangered by snow or ice.
- 1.2 The Traffic Management Act 2004(TMA2004) places a duty on the Highway Authority to reduce traffic congestion; this is aided by maintaining the public highway so as to provide an appropriate level of service.
- 1.3 The Winter Service Plan supports the Council in complying with its statutory duties and defending itself against potential claims of negligence.
- 1.4 Winter service is not an emergency service in that low temperatures, ice and snow are regular, frequent and reasonably predictable occurrences, even given the effects of climatic change. In these circumstances the Winter Service remains as the same regime of planning and review as other aspects of the highway maintenance regime.
- 1.5 To give effect to this, Richmond’s Winter Service Plan is aligned with the Well Maintained Highway :Code of Practice for Highway Maintenance Management, a national Code of Practice.
- 1.6 The winter service runs for twenty nine weeks, starting in the first week of October and extending to the last week of April. There are 15 operational drivers and 3 Duty Officers who work on a consecutive 24 hour week by week rota, including weekends and bank holidays.
- 1.7 Gritting routes are divided into two categories, Precautionary/pre salting and Secondary ‘post salting’
  - The ‘Precautionary Salting’ routes which prevents ice from forming,
  - Melt ice and snow already formed ‘post salting’
  - Remove snow.
- 1.8 The Plan describes which categories of road are to be gritted, in what order of priority, and how quickly they should be treated. Decisions to grit roads are taken by predicted weather conditions, road conditions including surface wetness and traffic levels. During severe or prolonged wintry weather, resources are concentrated on the Precautionary Salting Routes.

1.9 All Highway authorities are now required to adopt a Winter Service Resilience Standard that will ensure that more resources, especially salt, are available to respond to severe winter conditions. The (RRN) is a sub set of a highway authorities Precautionary Salting Route treatment routes and is considered to be a minimum road network required to be kept open to allow essential services to operate reliably and safely in times of prolonged snow and freezing conditions.

## **2.0 WINTER SERVICE PLAN – STANDARD OF SERVICE**

2.1 The Winter Service Plan provides, as far as is reasonably practicable, a Winter Service operation that involves:-

- The precautionary salting of carriageways on the priority main roads within the Borough to prevent ice from forming.
- The post-salting of footways and carriageways to defined standards of salt spreading and within prescribed areas of the borough to melt ice and snow that has already formed to keep delays and accidents to a minimum.
- The removal of snow from the highway.
- The publication and adoption of (WRP) in the event of extreme and prolonged freezing conditions.

2.2 The Precautionary Salting Routes (PRN), covering the following criteria, should be carried out within specified times on agreed pre-determined routes:

- Class “A” and other main roads
- Roads used as major bus routes
- Steep hazardous gradients and over bridges where known local icing conditions occur.

2.3 The list of Precautionary Salting Routes are contained in Appendix 1-5, and excludes the A316 and the A205, these roads are maintained by Transport for London(TfL).

2.4 The Council cannot carry out Precautionary Salting on all of the borough roads due to the practical difficulties in resource terms of presalting all roads within the specified time limits.

2.5 The target response time is one hour between a decision being taken to begin treatment and spreader vehicles leaving the depot. All priority routes should normally be completely treated within two hours of leaving the depot.

2.6 These targets apply both within and outside normal working hours. It is recognised, however, that treatment times may vary in different weather/traffic conditions.

2.7 No footways, pedestrian precincts or cycleways shall be specifically designated as routes for Precautionary Salting. Nevertheless, there will be a certain amount of overspill of salt onto footways and cycleways when Precautionary Salting is being carried out on adjacent carriageways.

2.8 In times of heavy snow fall and prolonged freezing conditions the ‘Precautionary Salting ‘ routes, as set out in Appendix 1 – 5 of the Plan, will continue to take priority over other forms of salting. Steep slopes

will now be included when 'Post Salting' of the priority salting routes starts. A complete list of 'Post Salting' routes of carriageways and footways with steep slopes is set out in Appendix 7/8/9 of the Plan.

2.9 Footways will also only be treated once snow has settled and will continue to be treated during periods of prolonged freezing conditions on a priority basis as follows:

- Primary Walking Routes (town centres, high streets, high use pedestrian areas). Appendix 7
- Secondary Walking Routes (stations, hospitals, libraries, Residential Care Homes, day centres and schools - during term times only) and areas with slopes. Appendix 8/9
- Icy/slippery footways outside of the above criteria will not be treated.

2.10 In addition, the Plan sets out in Appendix 6, the list of 'Secondary Road Routes' for 'post salting', these routes provide important links to the. Where appropriate these have been added to the Plan for treating in times of severe winter conditions. No decision will be taken to extend the salting routes to Secondary Routes until such time as the PRN (including roads with steep slopes) have been sufficiently treated to ensure that they remain open to traffic at all times.

### 3.0 THE NETWORK MANAGEMENT AND STREET CARE GROUP

3.1 All of the Winter Service functions are the responsibility of the Network Management and Street Care Group. The responsibilities for various aspects of the Winter Service are set out below:

- **Preparation of the Winter maintenance Plan:**  
Highways Operational Manager (Richmond Highways) (formerly HDLO)
- **Standards, e.g. response times:** Head of Network Management and Street Care
- **Carriageway and Footway Classification Street:**  
Environment Manager (Inspections)
- **Performance Monitoring:** Head of Network Management and Street Care.
- **Day to Day Decision Making:** Duty Winter Service Officer
- **Routeing – carriageways:** Highways Operational Manager
- **Routeing – footways:** Highways Operational Manager
- **Manning Levels:** Highways Operations Manager
- **Vehicles & Plant:** Transport Services Manager
- **Materials (salt):** Highways Operational Manager
- **Day to Day Operations:** Highways Operations Manager

## **4.0 CIRCULATION OF PLAN**

### **4.1 INTERNAL**

- Environment Director
- Assistant Director, Traffic & Transport
- Head of Network Management and Street Care
- Highways & Depot Manager
- Highways Operations Manager
- Winter Service Officers (3)
- Street Environment Manager(Inspections)
- Street Environment Manager (Enforcement)
- Network Manager
- Head of Traffic and Transport
- Assistant Director, Development and Street Scene
- Head of Street Scene
- Careline
- Richmond Contact Centre

### **4.2 EXTERNAL (Approved “Winter Service Plan” only)**

- London Borough of Hounslow
- London Borough of Hammersmith & Fulham
- London Borough of Wandsworth
- Royal Borough of Kingston-upon-Thames
- WSP Civils (Heston)
- Metropolitan Police Service – Twickenham
- London Buses – TfL
- London Fire Brigade

## **5.0 HIERARCHY DEFINITION AND ROUTE PLANNING**

### **5.1 PRECAUTIONARY SALTING ROUTES AND PRIORITIES**

5.2 The carriageways that have been identified by the Network Management and Street Care Group to be precautionary salted have been arranged into 4 routes in order to meet the target treatment time of two hours. The routes are listed in *Appendices 1-5*. Maps of the four routes are kept in the Winter Service Control Centre, Central Depot for use by the Winter Service Operatives whilst spreading salt.

5.3 For frost and light snow precautionary salting shall be carried out at the rate of 15 g/m sq. although rates of spread may be increased to 30 or 40 g/m sq. according to the amount of humidity present and the temperatures expected.

5.4 No footways have been identified for precautionary salting. Footways will only be treated in times of persistent and exceptionally low temperatures.

- 5.5 Teddington footbridge has been identified to be precautionary treated rock salt – Clearway 1

## **6.0 POST SALTING PRIORITIES**

- 6.1 As per precautionary salting.
- 6.2 If ice has formed on the road surface the rate of spread shall be up to 40 g/m sq. depending on the amount of ice to be removed and the temperature.
- 6.3 Footways will not be treated except in times of persistent and exceptionally low temperatures.
- 6.4 The treatment of footways and carriageways outside of the prescribed routes will not be treated.

## **7.0 POST SALTING - SNOW CLEARANCE- CARRIAGEWAYS**

- 7.1 Priority shall be given to the main/PRN carriageways, identified by the Highways Operational Manager for precautionary salting, in an endeavour to keep roads open in the most severe weather (the A316 and the A205, are treated by Transport for London - TFL).
- 7.2 The Secondary Road Network shall be treated as soon as practicable after the PRN has been cleared of snow and ice and include routes with gradients.
- 7.3 On receipt of a forecast of snow pre-salting will be carried out at 15-40 g/m sq. according to the anticipated severity of the snowfall. Treatment will be repeated when snow is imminent and continued as necessary.
- 7.4 Snowploughs will be fitted to the two spreader vehicles adapted to carry the appropriate attachments if conditions warrant the use of such equipment. They will only be used on those roads identified by the Highway Management Group as suitable for snow ploughing.

## **8.0 POST SALTING – SNOW CLEARANCE - FOOTWAYS**

- 8.1 Priority for snow clearance will be given to main shopping areas, heavily used footways including those leading to essential industrial establishments, hospitals, important bus routes and schools (if snowfall is within term times) and known trouble spots such as steep gradients, ramps to subways and footbridges.
- 8.2 The Highways Operational Manager or his deputy will decide on action to be taken in the event of heavy snowfall where it is deemed necessary to bring in additional resources to undertake snow clearance and de-icing of footway areas as defined in Appendix 7/8/9.
- 8.3 The footways will be treated once and 500mm wide treated pathway will be created with a spread rate of between 50 – 100g/m<sup>2</sup> depending upon the amount of snow and wetness of salt. If salting is not possible due to heavy snow then the footway will be cleared manually.
- 8.4 Treatment of footways is usually carried out by the Street Cleansing /Refuse contractor (currently Continental Landscapes and Veolia) although other resources (e.g. highway maintenance contractors, other direct labour staff and additional agency staff) may be called upon in times of need.

- 8.5 Any additional resources will be allocated to specific streets and/or locations via their usual command structure (i.e. client and contractor supervisory/management officers).
- 8.6 The Duty Winter Service Co-ordinator or his deputy will be updated at least daily by the supervisory/management officers as to streets and locations that have been treated, etc.
- 8.7 The Winter Service Control Centre will initially be headed by the Highways Operational Manager . In the course of the first day's activities the Highways Operational Manager or his deputy will decide and control the staffing levels required and secure these staffing levels in agreement with service managers for Street Cleaning and Refuse. Ongoing actions will be provided dependant upon the forecast severity and duration of the expected weather conditions and the progress made on clearance and treatment operations.
- 8.8 Staff from the Network Management and Street Care Group may be stood down from normal duties in order to be made available to work in shifts in the Winter Service Control Centre.

## **9.0 RICHMOND WINTER RESILIENCE ROAD NETWORK**

- 9.1 Should there be an emergency that relates to cold weather declared by Local Authority Gold the Local Authority Co-ordination Centre will communicate with the Council's Emergency Planning Officer who will inform the Head of Network Management and Street Care and the Emergency Call out officers to mobilise it's Winter Resilience Network.
- 9.2 In common with other boroughs Richmond will be prepared to reduce the network it treats and, if requested , the spread rate of salt. L.B. Richmond's agreed Resilience Road Network will continue to follow the Precautionary Routes as listed in Appendix 1 – 5, footway salting will be scaled back and re-prioritised during this period.
- 9.3 In the event of salt shortage and in co-operation with other boroughs, Richmond will give and receive aid as and when requested by or to Local Authority Gold Command then London Local Authority Co-ordination Centre(LLACC).

## **10.0 RESPONSE AND TREATMENT TIMES**

- 10.1 The target response time for precautionary salting is one hour between a decision being taken to begin treatment and spreader vehicles leaving the depot. This target applies both within and outside normal working hours.
- 10.2 All priority routes should normally be completely treated within two hours of leaving the depot. This target also applies both within and outside normal working hours. It is recognised, however, that treatment times may vary in different weather/traffic conditions.
- 10.3 Precautionary treatment of priority carriageways should normally be carried out at least 2 hours before the expected formation of ice or snow.

## **11.0 SALT BINS**

- 11.1 Salt bins are only positioned where ground water is known to be a problem.
- 11.2 The location of these salt bins are listed in Appendix 10
- 11.3 In the event of prolonged snow conditions salt bins can be purchased by schools, community groups and large organisations. These will be re-filled at a fee - [http://www.richmond.gov.uk/road\\_gritting](http://www.richmond.gov.uk/road_gritting)

## **12.0 TEMPORARY WARNING SIGNS**

- 12.1 Where seepage of ground water is known to be a problem at certain locations each year, warning signs to diagram 554.2 of the Traffic Signs Regulations and General Directions 2002 shall be fixed to lamp columns on either side of the road to give advanced warning of the risk of ice ahead.
- 12.2 Signs shall be erected during October and removed during the first week in May.
- 12.3 A list of locations where these warning signs shall be fixed is contained in Appendix 10.

## **13.0 WATER LEAKS**

- 13.1 Generally, unless otherwise instructed, only water leaks that are in streets that have been identified by the Highways Management Group to be pre-cautionary salted to prevent ice forming shall be treated and signed.
- 13.2 On notification of a water leak a warning sign shall be fixed onto an appropriate lamp column or post approaching the leak and salt shall be applied around the leak and on any wet surfaces leading to or from the leak.
- 13.3 Warning signs and supplementary plates shall be removed once the leak has been repaired, or at the end of the Winter period, whichever is the sooner.

- 13.4 A record shall be maintained of all sites reported and any subsequent site inspections on form QSFS095F/1
- 13.5 The Network Management Group shall notify Thames Water of any water leak and make arrangements to recharge Thames Water accordingly.

#### 14.0 WEATHER FORECASTS

- 14.1 Weather forecasts shall be obtained from the London Weather Centre via their London Boroughs Winter Weather Forecast Service.
- 14.2 There are four parts to this service:  
Delivery of service via Voicemail System, email and fax:  
“**Low Season**” – 1<sup>st</sup> to 31<sup>st</sup> October, plus 16<sup>th</sup> to 30 April inc.
- 14.3 Telephone Consultancy Service – This enables subscribers access to current forecasts during the “low season” of the winter. Access is via the same ex-directory number used to access the forecasters during the main winter season.
- 14.4 “**Main Season**” – 1<sup>st</sup> November to 15<sup>th</sup> April inc.  
Recorded London Boroughs’ forecasts and 24 hour telephone consultancy.
- 14.5 Voicemail system allows any number of Boroughs to dial in at the same time, ensuring immediate access to our recorded forecasts. In addition, when a forecast is updated, the last message will not be deleted, but will be retained for up to 24 hours. This will enable a check back on previous forecasts where needed.
- 14.6 Access to this system is via a dedicated telephone number and a PIN which will bar access to unauthorised users.
- 14.7 Forecast issue times and content will be as follows:
- 1100 hours – 24 hour ahead forecast.
  - 1700 hours – forecast up to 1200 hours the next day.
  - 2300 hours – forecast up to 1200 hours the next day. *(If no change, 1700 forecast is repeated.)*
  - 0300 hours – short nowcast & forecast to dawn plus briefing for today and tonight.
  - Should there be any significant changes/developments in the weather between 0200 and 0600 hours, the following message will be sent as follows:  
"The London Borough's Voicemail forecast issued at 2300 is now in error and you should arrange for your engineers to listen to the latest issue."
  - This message will be faxed to Careline (020 8891 7736) who will contact the Duty Winter Service Officer immediately and convey the message to him.
  - The forecasts will relate to the climatic zones and will include the road condition indicators Alpha, Bravo, etc.
  - A Consultancy Service which allows direct access to a forecaster for further clarification of forecasts where needed. Access is via

an ex-directory telephone number and is available 24 hours per day.

- At the end of the season the London Weather Centre will provide a CD with copies of the 4 x daily forecasts.
- End of Season Verification including brief month-by-month summary of weather that occurred and figures showing False Alarm Rate, Frost Detection Rate and Accuracy.

## **15.0 DECISION MAKING**

- 15.1 Upon receipt of the weather forecast for that day, a decision will be made by the Winter Service Officer, in consultation with other officers in the Network Management & Street Care Group if necessary, on what action to take.
- 15.2 Any decision taken should be based on the Decision Making Procedure outlined in *Appendix 11*, but there will be some flexibility to enable unseen circumstances to be dealt with.
- 15.3 The WSO will check the forecast each evening after the London Weather Centre have updated it and will make any necessary changes to the earlier decision based upon this up to date information.
- 15.4 Outside of normal working hours the Winter Service Officer will obtain the weather forecast and make the appropriate decision.
- 15.5 A summary of weather forecasts should be recorded on form QSFS095A/2.
- 15.6 In the event of a decision to apply salt, a complete record shall be maintained on form QSFS095B/2 for carriageways and form QSFS095E/1 for footways (this information will be recorded by the appropriate Section's officers).
- 15.7 Where there is a decision to carry out pre-cautionary or post salting a note of the actual weather conditions shall be recorded on the appropriate form detailed in Appendix 13.

## **16.0 PERSONNEL**

- 16.1 All operatives required to drive spreader vehicles shall be in possession of the Local Government Management Board/City and Guilds Winter Service Qualification (6157). A list of qualified personnel is kept by the Highways Operations Manager.
- 16.2 Any drivers required to operate the loading shovel will be trained in its use and be issued with a certificate of competence issued by the manufacturer or training provider. A list of qualified personnel is kept by the Highways Operations Manager.
- 16.3 A roster shall be drawn up before the start of the Winter Season of all those personnel taking part in the Winter Service Standby Scheme. A copy of this roster will be displayed in the Highways Managers office throughout the Winter period.
- 16.4 Any new driver participating in the scheme not possessing the appropriate qualification shall be given training on the spreader control mechanisms on the vehicle by Transport Services and instructions regarding rates of spread, routes etc. will be given by the Highways Operations Manager before being allowed to participate in the scheme. On completion of this initial training, a note shall be made in the employee's training record to note that this training has been given.

Further training and assessment for the Winter Service Qualification shall be arranged as soon as possible and generally within two months of the start of the Winter period.

16.5 Volunteers may be used from any Section within the Department. Agency staff may also be used. Records of any training given and any qualifications/certificates of competence awarded are kept by the Highways Manager.

16.6 In the event of prolonged or heavy snowfall, it may be necessary to bring in additional labour to compliment the directly employed labour available. Where this is considered necessary, the Council's annual Contractors shall be used before any Agency or casual labour is employed.

16.7 All contact telephone numbers are confidential.

## **17.0 PLANT AND VEHICLES**

17.1 There are 5 dedicated Spreader Vehicles owned by the Council and hired to RHO via the Transport Hire Section. These are:

- 1 Large Goods Vehicles (LGVs) with snow plough attachments
- 4 Non LGVs (one is fitted with a snow plough attachment)
- Two loading shovels are available
- Full details of spreader vehicles and loading shovels are contained in *Appendix 12*.
- Additional vehicles and equipment will be hired as necessary should the need arise

17.2 All spreader vehicles and loading shovels are based at Central Depot, Twickenham and are under cover overnight.

17.3 Spreader vehicles shall be road tested for 30 minutes each week covering a minimum of 5 miles during the Winter Season and once a month for the period 1 May to 30 September to check them for serviceability, unless the vehicle has already been used that week. Any items found to be unserviceable shall be reported to the Council's Transport Hire Manager for rectification. A record of this road test shall be recorded on form QSFS095D/1

17.4 Calibration of spreader equipment shall be carried out annually, in the Summer, by the manufacturer and the certificate of calibration shall be retained by the Highways Manager.

17.5 Spreader vehicles are normally one person operated but during severe weather, snow clearing or when dense fog persists, double staffing may be permitted.

17.6 In the event of prolonged or heavy snowfall, it may be necessary to bring in additional vehicles and equipment to compliment the existing fleet, including those permanently used by contractors.

## **18.0 BREAKDOWNS**

18.1 In the event of a breakdown during normal working hours (Mon – Thurs 06.00 - 17.00, Fri 06.00 - 16.00) contact the Vehicle Workshop for assistance

18.2 In the event of either a tyre or vehicle breakdown, the Council's nominated contractor should be contacted.

18.3 If the problem is associated with the spreader equipment a vehicle fitter should be called out to deal with the problem. There is no specific roster and the numbers listed should be dialled in sequence until a fitter can be contacted. In the event of emergencies DAF aid can be contacted.

## **19.0 OPERATIONAL COMMUNICATIONS & CO-ORDINATION**

19.1 During normal working hours the normal switchboard and direct dial facilities are available.

19.2 All drivers are issued with mobile telephones and are controlled by the Winter Service Officer situated at Central Depot.

19.3 Outside normal working hours, the Duty Winter Service Officer can be contacted via Careline (0845 600 7413).

19.4 Operatives are contacted by the Duty Winter Service Officer and shall report to him at the Winter Service Control Centre for instructions.

19.5 The Winter Service Control Centre is based in the Highways Managers office, Ground Floor, Main Office Block at Central Depot.

19.6 The office is staffed from 07.30 hours until 17.00 hours Monday to Friday and at other times as conditions demand.

19.7 The Winter Service Control Centre will be responsible for:

- Receiving and circulating the weather forecast to the appropriate staff and personnel.
- To take action on all forecasts and calls received.
- Keeping a log of all reports and action taken.
- At times of extremely severe weather conditions the Winter Service Control Centre may be re-located to the Emergency Control Centre at Thames Link House.

19.8 In the event of extreme weather conditions the following internal staff shall be notified by email:

- Environment Directorate
- Director
- Assistant Director, Traffic & Transport
- Head of Network Management & Street Care
- Street Environment Manager (Inspection)
- Street Environment Manager (Enforcement)
- Network Manager
- Head of Transport Planning
- Head of Operational Services
- Vehicle Workshop Manager
- Head of Parking Services
- Borough Contingencies Manager
- Assistant Director, Development & Street Scene
- Head of Street Scene

- Assistant Head of Street Scene
- Recycling Manager
- Assistant Director, Property, Parks & Open Spaces
- Head of Property Services
- Head of Facilities
- Head of Parks & Open Spaces
- Cemeteries Manager

## **20.0 Other Directorates**

- Chief Executive
- Head of Communications
- Director of Finance
- Director of Adult & Community Services
- Principal Transport Manager, Richmond Transport Services
- Director of Childrens Services & Culture
- Head of Human Resources

## **21.0 SALT – SPECIFICATION**

21.1 The salt used complies with British Standard 3247 Part:1970, Salt for Spreading on Highways for Winter Service - Rock Salt. The particle size shall be 6mm nominal size. Any remaining 10mm size salt shall be used de-icing and snow clearance of footways. The smaller particle size provides a more even spread rate and reduces claims for damaged windscreens.

## **22.0 STORAGE**

22.1 Salt is stored at Central Depot in an open stockpile.

## **23.0 STOCKPILE**

23.1 Approximately 2,000 tonnes of salt is available at the start of the Winter period. This stockpile shall be replenished during the Winter if necessary in order to maintain an adequate supply. Otherwise, the stockpile shall be replenished during the Summer to bring it up to the required level for the start of the next Winter period in order to take advantage of cheaper rates offered. The Highways Manager is responsible for monitoring the salt stock and its replenishment.

23.2 A record of salt used shall be noted by the Winter Service Officer on form QSFS095B/2 to account for any amounts used. Spreader vehicles shall pass over the vehicle weighbridge before leaving the Depot so that the gross weight of the vehicle and load can be obtained. The Tare Weight of the vehicle is deducted from the actual Gross Weight of the vehicle to obtain the amount of salt used.

## **24 ALTERNATIVE DE-ICING MATERIALS**

24.1 Iron structures are susceptible to the corrosive nature of rock salt and so an alternative de-icing agent is required for use on these structures.

24.2 A liquid potassium acetate, Clearway 1, has been identified as the most suitable alternative to use in locations where salt is not to be used.

24.3 This product is supplied in 210 litre drums and applied by hand using a 15 litre capacity knapsack and hand lance sprayer or other suitable dispenser.

## **25.0 MEDIA COMMUNICATIONS**

25.1 All communications with the media shall be channelled through the Council's Communications/Press Office. Telephone number: 020 8891 7161.

25.2 A unique web page dedicated to the winter service will provide update information on weather conditions, Precautionary Routes gritting timings, the mobilisation of resources to grit footways, the Secondary Road Network and any changes to service in response to severe winter conditions.

## **26.0 SUMMARY OF RECORD FORMS**

26.1 All of the forms mentioned in this document are listed below and reproduced at the end of this document:

<b>FORM REFERENCE</b>	<b>FORM TITLE</b>	<b>DESCRIPTION</b>
QSFS095A/2	Weekly Summary of Weather Forecasts	Record of London Weather Centre Voice Mail forecasts
QSFS095B/2	Precautionary Salting Record	Details of pre-cautionary salting treatments carried out showing date, time, time action was taken and completed, resources employed, quantity of salt used and brief description of forecast.
QSFS095D/1	Road Test of Spreader Vehicles	Details of road testing of vehicles.
QSFS095E/1	Snow Clearance of Footways	Record of locations salted. personnel, vehicles and salt used.
QSFS095F/1	Inspection of Water Leaks	Details of inspections of water leaks.

## LIST OF ROADS TO BE PRECAUTIONARY SALTED

Street Name	Area	Section
Acacia Road	Hampton	
Albert Road	Hampton Hill	
Ammas Road	Ham	
Arragon Road	Twickenham	
Ashburnham Road	Ham	
Ashleigh Road	Mortlake	
Ashley Road	Hampton	
Avondale Road	Mortlake	
Beaufort Road	Ham	
Bridge Street	Twickenham	
Broad Lane	Hampton	
Broad Street	Teddington	
Broom Road	Teddington	
Broomfield Road	Kew	
Broughton Avenue	Ham	
Buckingham Road	Hampton	
Burtons Road	Hampton Hill	Excluding Seymour Road to Albert Road
Castelnau	Barnes	
Christchurch Road	Sheen	Sheen Lane to Fife Road
Church Grove	Hampton Wick	
Church Road	Barnes	
Church Road	Richmond	
Church Street	Hampton	
Church Terrace	Richmond	
Collingwood Close	Whitton	
Common Road	Barnes	
Cromwell Road	Teddington	
Cross Deep	Twickenham	
Crown Road	Twickenham	
Dee Road	Richmond	
Dukes Avenue	Ham	
Dysart Avenue	Ham	
Eton Street	Richmond	
Fairfax Road	Teddington	
Fearnley Crescent	Hampton	
Ferry Road	Barnes	
Ferry Road	Teddington	Broom Road to High Street Street Teddington
Fife Road	Sheen	
Friars Stile Road	Richmond	
George Street	Richmond	
Gipsy Lane	Barnes	
Ham Street	Ham	
Hammersmith Bridge	Barnes	Undertaken by LBHF
Hampton Court Bridge	Hampton	
Hampton Court Road	Hampton	
Hampton Road	Teddington	
Hampton Road	Twickenham	

<b>Street Name</b>	<b>Area</b>	<b>Section</b>
Hampton Road	Hampton Hill	
Hampton Road East	Hampton	
Hanworth Road	Hampton	
Hanworth Road	Whitton	
Heath Road	Twickenham	
High Park Avenue	Kew	
High Park Road	Kew	Sandycombe Road to Pensford Avenue
High Street Barnes	Barnes	
High Street Hampton	Hampton	
High Street Hampton Hill	Hampton Hill	
High Street Hampton Wick	Hampton Wick	
High Street Teddington	Teddington	
High Street Whitton	Whitton	
Hill Rise	Richmond	
Hill Street	Richmond	
Hospital Bridge Road	Whitton	
Hounslow Road	Whitton	
Howsman Road	Barnes	
Kew Gardens Road	Kew	
Kew Green	Kew	
Kew Road	Kew	Mortlake Road to Lion Gate Gardens
Kew Road	Richmond	Lion Gate Gardens to The Quadrant
Kilmington Road	Barnes	Lonsdale Road to Howsman Road
King Street	Twickenham	
Kings Road	Richmond	
Kingston Road	Teddington	
Kneller Road	Whitton	
Langhorn Drive	Twickenham	
Lewis Road	Richmond	
Lock Road	Ham	
London Road	Twickenham	
Lonsdale Road	Barnes	
Lower Hampton Road	Hampton	
Lower Richmond Road	Richmond	Clifford Avenue to Sheen Lane
Lower Sunbury Road	Hampton	
Lower Teddington Road	Teddington	
Manor Road	Richmond	
Manor Road	Teddington	Twickenham Road to Kingston Road
Marchmont Road	Richmond	
Meadway	Twickenham	
Mill Hill Road	Barnes	
High Street Mortlake	Mortlake	
Nelson Road	Whitton	
Nightingale Lane	Richmond	
Nightingale Road	Hampton	
North Road	Kew	Nylands Avenue to High Park Road
North Worple Way	Barnes	Ashleigh Road to Avondale Road
Nylands Avenue	Kew	
Oak Avenue	Hampton	
Paradise Road	Richmond	
Park Lane	Teddington	

<b>Street Name</b>	<b>Area</b>	<b>Section</b>
Park Road	Hampton Hill	
Park Road	Richmond	
Park Road	Teddington	
Park Road	Hampton Wick	Sandy Lane to Church Grove
Pensford Avenue	Kew	High Park Road to Nylands Avenue
Percy Road	Hampton	
Percy Road	Whitton	
Petersham Road	Richmond	
Powder Mill Lane	Whitton	
Priest's Bridge	Barnes	
Queens Ride	Barnes	
Queens Road	Richmond	
Queens Road	Teddington	
Queens Road	Twickenham	
Railway Approach	Twickenham	
Red Lion Street	Richmond	
Richmond Hill	Richmond	
Richmond Road	Ham	
Richmond Road	Twickenham	
Riverside Drive	Ham	
Rocks Lane	Barnes	
Rugby Road	Twickenham	
Sandy Lane	Ham	
Sandy Lane	Teddington	
Sandycombe Road	Kew	
Seymour Road	Hampton Hill	
Shacklegate Lane	Twickenham	
Sheen Lane	Sheen	
Sheen Road	Richmond	
Sheendale Road	Richmond	
Sixth Cross Road	Twickenham	
South Road	Twickenham	
St Johns Road	Richmond	
St Margaret's Road	Twickenham	
Staines Road	Twickenham	
Stanley Road	Teddington	
Stanley Road	Twickenham	Railway Bridge to South Road
Star and Garter Hill	Richmond	
Station Approach	Hampton	
Station Approach	Kew	
Station Parade	Kew	
Station Road	Barnes	Church Road to Mill Hill Road
Station Road	Hampton	
Station Road	Teddington	
Station Road Bus Stand	Twickenham	
Stephenson Road	Whitton	
Strawberry Vale	Twickenham	
Suffolk Road	Barnes	
Sydney Road	Richmond	
Thames Street	Hampton	
The Avenue	Hampton	

<b>Street Name</b>	<b>Area</b>	<b>Section</b>
The Causeway	Twickenham	
The Green	Twickenham	
The Quadrant	Richmond	
The Terrace	Barnes	
Twickenham Road	Hampton	
Twickenham Road	Teddington	Strawberry Vale to Manor Road
Upper Ham Road	Ham	
Upper Richmond Road West	Richmond	Sheen Road to Clifford Avenue
Upper Sunbury Road	Hampton	
Upper Teddington Road	Teddington	
Uxbridge Road	Hampton Hill	
Verdun Road	Barnes	
Victoria Villas	Richmond	
Wakefield Road	Richmond	
Waldegrave Road	Twickenham	
Warren Road	Whitton	
Wellington Road	Twickenham	
Wensleydale Road	Hampton	
White Hart Lane	Barnes	
Whitton Road	Twickenham	
Windmill Road	Hampton	
York Street	Twickenham	

PRE-CAUTIONARY SALTING ROUTE 1 (RED ROUTE)			
SEQ	DIRECTIONS	STREET NAME	INSTRUCTIONS LANE SPREAD
1		Langhorn Drive	2
2	Left Turn into	A316 Chertsey Road	No salt
3	Left Turn into	Meadway	2
4	Right Turn into	Staines Road	2
5	Continue along	Twickenham Road	2
6	Left Turn into	Hampton Road East	2
7	Continue along	Uxbridge Road	2
8	Left Turn into	High Street Hampton Hill	1
9	Continue along	Wellington Road	1
10	Left Turn into	Sixth Cross Road	1
11	Continue along	Hospital Bridge Road	2
12	Continue over	A316 Roundabout	2
13	Continue along	Hospital Bridge Road	2
14	Left Turn into	Nelson Road	2
15	Left Turn into	Collingwood Close (2nd entrance)	1
16	Right Turn into	Stephenson Road	1
17	Turn Around at	Stephenson Road	1
18	Left Turn into	Collingwood Close	1
19	Left Turn into	Nelson Road	2
20	Left Turn into	Hanworth Road	3
21	Turn Around at	Boundary	2
22	Continue along	Hanworth Road	No salt
23	Right Turn into	Powder Mill Lane	2
24	Continue along	Percy Road	2
25	Continue along	High Street Whitton	2
26	Continue along	Hounslow Road	2
27	Turn Around at	Mini Roundabout	2
28	Continue along	Hounslow Road	1
29	Left Turn into	Kneller Road	2
30	Right Turn into	Nelson Road	2
31	Left Turn into	Warren Road	2
32	Continue along	Whitton Road	1
33	Right Turn into	Whitton Road (mini roundabout)	2
34	Straight over A316	Whitton Road	2
35	Left Turn into	London Road	2
36	Straight over A316	London Road to boundary	2
37	Continue along	London Road	No salt
38	Left Turn into	Mogden Lane	No salt
39	Left Turn into	Rugby Road	2
40	Right Turn into	Whitton Road	1
41	Right Turn into	Kneller Road	2
42	Left Turn into	Nelson Road	No salt
43	Right Turn into	Nelson Road	2

44	Continue over	Mini roundabout	2
45	Continue along	Nelson Road	2
46	Left Turn into	Hospital Bridge Road	2
47	Straight over	A316 Roundabout	2
48	Continue along	Hospital Bridge Road	2
49	Continue along	Sixth Cross Road	1
50	Right Turn into	Wellington Road	1
51	Right Turn into	Park Road	2
52	Right Turn into	Uxbridge Road	No salt
53	Right Turn into	Burtons Road	2
54	Right Turn into	Seymour Road	2
55	Left Turn into	Park Road	2
56	Left Turn into	Albert Road	1
57	Right Turn into	Burtons Road	1
58	Right Turn into	Wellington Road	1
59	Continue along	High Street Hampton	1
60	Right Turn into	Broad Lane	2
61	Continue along	Oak Avenue	2
62	Right Turn into	Fearnley Crescent (2nd Entrance)	2
63	Right Turn into	Oak Avenue (to Borough Boundary)	2
64	Continue along	Green Lane	No salt
65	Right Turn into	Swan Road	No salt
66	Right Turn into	Hampton Road	No salt
67	Continue along	Hanworth Road	2
68	Right Turn into	Acacia Road	2
69	Continue along	The Avenue	2
70	Continue along	Percy Road	2
71	Over	Level Crossing (NO SALT)	No salt
72	Right Turn into	Station Road	2
73	Left Turn into	Tudor Road (over Bridge)	2
74	Right Turn into	Station Approach	2
75	Continue along	Wensleydale Road	2
76	Continue along	Nightingale Road	2
77	Left Turn into	Hanworth Road	No salt
78	Left Turn into	Buckingham Road	2
79	Continue along	Acacia Road	No salt
80	Right Turn into	Hanworth Road	2
81	Left Turn into	Uxbridge Road	No salt
82	Right Turn into	Windmill Road	2
83	Return to	Depot	No salt

PRE-CAUTIONARY SALTING ROUTE 2 (PINK ROUTE)			
SEQ	DIRECTIONS	STREET NAME	INSTRUCTIONS LANE SPREAD
1		Langhorn Drive	No salt
2	Left Turn into	A316 Chertsey Road	No salt
3	Turn Around at	A316 Hospital Bridge Roundabout	No salt
4	Continue Along	A316 Chertsey Road	No salt
5	Right Turn into	Whitton Road	No salt
6	Continue Along	London Road	2
7	Left Turn into	Arragon Road	2
8	Left Turn into	York Street	1
9	Continue Along	Richmond Road	1
10	Left Turn into	Crown Road	2
11	Left Turn into	St Margaret's Road (to A316)	2
12	Continue Along	St Margaret's Road (to Boundary)	1
13	Turn Around at	Queens Terrace	No salt
14	Return Along	St Margaret's Road (to Boundary)	No salt
15	Continue Along	St Margaret's Road (to A316)	1
16	Continue Along	St Margaret's Road	2
17	Continue Along	Richmond Road	1
18	Continue Along	Richmond Bridge	1
19	Left Turn into	Hill Street	1
20	Continue Along	George Street	1
21	Continue Along	The Quadrant	1
22	Continue Along	Kew Road	2
23	Turn Around at	Richmond Circus	No salt
24	Continue Along	Kew Road	2
25	Left Turn into	Church Road to Bridge	1
26	Turn Around at	St Johns Road	1
27	Left Turn into	Kew Road	1
28	Continue Along	The Quadrant	1
29	Left Turn into	Eton Street	1
30	Right Turn into	Paradise Road	2
31	Continue Along	Red Lion Street	2
32	Right Turn into	George Street	1
33	Right Turn into	Sheen Road	2
34	Left Turn into	Church Road to Bridge	1
35	Turn Around at	Sydney Road	1
36	Right Turn into	Sheen Road	2
37	Continue Along	Paradise Road	2
38	Left Turn into	Church Terrace	2
39	Right Turn into	Wakefield Road	2
40	Right Turn into	Lewis Road	2
41	Left Turn into	Red Lion Street	2
42	Left Turn into	Hill Street	1
43	Left Turn into	Hill Rise	1
44	Continue Along	Richmond Hill	2
45	Right Turn into	Star and Garter Hill	2
46	Continue Along	Petersham Road	1
47	Right Turn into	Sandy Lane	2
48	Left Turn into	Ham Street	1
49	Right Turn into	Upper Ham Road	2

50	Continue along	Richmond Road	2
51	Right Turn into	Dukes Avenue	2
52	Left Turn into	Beaufort Avenue	2
53	Left Turn into	Burnell Avenue	2
54	Left Turn into	Dysart Avenue	2
55	Left Turn into	Dukes Avenue	No Salt
56	Right Turn into	Broughton Avenue	2
57	Right Turn into	Ashburnham Road	2
58	Left Turn into	Ham Street	2
59	Left Turn into	Riverside Drive	2
60	Left Turn into	Broughton Avenue	No salt
61	Right Turn into	Lock Road	2
62	Right Turn into	Ham Street	No salt
63	Left Turn into	Upper Ham Road	2
64	Continue Along	Petersham Road (to Sandy Lane)	2
65	Continue Along	Petersham Road (to Star & Garter Hill)	1
66	Left Turn into	Petersham Road	2
67	Right Turn into	Nightingale Lane	1
68	Left Turn into	Richmond Hill	No salt
69	Right Turn into	Friars Stile Road	2
70	Continue Along	Church Road	2
71	Right Turn into	Sheen Road	2
72	Right Turn into	Kings Road	1
73	Left Turn into	Park Road	2
74	Left Turn into	Queens Road	No salt
75	Left Turn into	Marchmont Road	2
76	Right Turn into	Kings Road	No salt
77	Right Turn into	Sheen Road	2
78	Right Turn into	Queens Road	2
79	Left Turn into	Star and Garter Hill	No salt
80	Right Turn into	Petersham Road (to Nightingale Lane)	No salt
81	Continue Along	Petersham Road	2
82	Left Turn into	Richmond Bridge	1
83	Continue Along	Richmond Road	1
84	Left Turn into	Richmond Road (to Crown Road)	2
85	Continue Along	Richmond Road	1
86	Continue Along	York Street	2
87	Continue Along	King Street	2
88	Turn Around at	Cross Deep	2
89	Return Along	King Street	2
90	Left Turn into	London Road	2
91	Left Turn into	Railway Approach	1
92	Turn Around at	Station Road Bus Stand	1
93	Left Turn into	London Road to mini r'bout Whitton Rd	2
94	Return to Depot		No salt

## APPENDIX 4

PRE-CAUTIONARY SALTING ROUTE 3 BLUE ROUTE)			
SEQ	DIRECTIONS	STREET NAME	INSTRUCTIONS LANE SPREAD
1	Drive to	Richmond Circus	No salt
2	Left Turn into	Kew Road	2
3	Left Turn into	Kew Green	2
4	Cross Over	Kew Road	2
5	Continue Along	Kew Green	2
6	Turn Left into	Kew Road	1
7	Continue Along	Kew Road	2
8	Left Turn into	Kew Gardens Road	2
9	Left Turn into	Station Approach	1
10	Continue Along	Station Parade	1
11	Left Turn into	High Park Road	1
12	Right Turn into	Pensford Avenue	1
13	Right Turn into	Nylands Avenue	1
14	Right Turn into	North Road	1
15	Right Turn into	High Park Avenue	1
16	Left Turn into	High Park Road	1
17	Left Turn into	Station Parade	1
18	Right Turn into	Kew Gardens Road	No salt
19	Left Turn into	Broomfield Road	2
20	Right Turn into	Kew Road	No salt
21	Right Turn into	Kew Gardens Road	No salt
22	Continue Along	Sandycombe Road	2
23	Continue Along	Manor Road	2
24	Left Turn into	Sheen Road	3
25	Continue Along	Upper Richmond Road	3
26	Left Turn into	Clifford Avenue A205	No salt
27	Right Turn into	Lower Richmond Road	2
28	Left Turn into	Mortlake High Street	2
29	Right Turn into	Ashleigh Road	2
30	Right Turn into	North Worple Way	2
31	Right Turn into	Avondale Road	2
32	Right Turn into	Mortlake High Street	2
33	Continue Along	The Terrace	1
34	Right Turn into	Barnes High Street	2
35	Left Turn into	Church Road	2
36	Left Turn into	Castelnau	2
37	Left Turn into	Lonsdale Road	2
38	Left Turn into	Barnes High Street	No salt
39	Left Turn into	Church Road	No salt
40	Left Turn into	Ferry Road	2
41	Continue Along	Verdun Road	2
42	Left Turn into	Lonsdale Road	No salt
43	Left Turn into	Suffolk Road	2
44	Left Turn into	Ferry Road	No salt
45	Continue Along	Verdun Road	No salt

46	Right Turn into	Howsman Road	2
47	Left Turn into	Kilmington Road	2
48	Right Turn into	Lonsdale Road	No salt
49	Right Turn into	Castelnau	1
50	Continue Along	Rocks Lane to Mill Hill Road	2
51	Continue Along	Rocks Lane	1
52	Left Turn into	Queens Ride	2
53	Left Turn into	Mill Hill Road	2
54	Left Turn into	Common Road	2
55	Right Turn into	Queens Ride	2
56	Left Turn into	Gypsy Lane	2
57	Right Turn into	Upper Richmond Road West	No salt
58	Right Turn into	Rocks Lane	1
59	Left Turn into	Mill Hill Road	2
60	Continue Along	Station Road	2
61	Left Turn into	Barnes High Street	No salt
62	Continue Along	The Terrace	1
63	Left Turn into	White Hart Lane	1
64	Over	<b>Level Crossing (DO NOT SALT)</b>	<b>NO SALT</b>
65	Continue along	White Hart Lane	1
66	Left Turn into	Priest's Bridge	2
67	Right Turn into	Upper Richmond Road West	No salt
68	Right Turn into	Priest's Bridge	2
69	Left Turn into	White Hart Lane	1
70	Over	<b>Level Crossing (DO NOT SALT)</b>	<b>NO SALT</b>
71	Continue along	White hart Lane	1
72	Left Turn into	Mortlake High Street	1
73	Left Turn into	Sheen Lane	2
74	Over	<b>Level Crossing (DO NOT SALT)</b>	<b>NO SALT</b>
75	Continue along	Sheen Lane	2
76	Straight Over	Sheen Lane to Upper Richmond Road	2
77	Straight Over	Sheen Lane	1
78	Right Turn into	Fife Road	2
79	Right Turn into	Christ Church Road	2
80	Left Turn into	Sheen Lane to Upper Richmond Rd	No salt
81	Left Turn into	Upper Richmond Road West	No salt
82	Right Turn into	Manor Road	No salt
83	Left Turn into	Lower Mortlake Road	No salt
84	Left Turn into	Victoria Villas	2
85	Right Turn into	Dee Road	2
86	Right Turn into	Sheendale Road	2
87	Left Turn into	Lower Richmond Road	No salt
88	Return to	Depot	No salt

## APPENDIX 5

PRE-CAUTIONARY SALTING ROUTE 4 GREEN ROUTE)			
SEQ	DIRECTIONS	STREET NAME	INSTRUCTIONS LANE SPREAD
1		Langhorn Drive	No salt
2	Left Turn into	A316 Chertsey Road	No salt
3	Left Turn into	Meadway	No salt
4	Left Turn into	Staines Road	2
5	Continue Along	The Green	2
6	Continue Along	Heath Road	2
7	Right Turn into	Cross Deep	2
8	Continue Along	Strawberry Vale	2
9	Continue Along	Twickenham Road	2
10	Continue Along	Manor Road	2
11	Continue Along	Kingston Road	2
12	Continue Along	Upper Teddington Road	2
13	Continue Along	High Street Hampton Wick	2
14	Right Turn into	Hampton Court Road	3
15	Straight Over	Hampton Court Bridge	3
16	Turn Around at	Hampton Court Station	3
17	Return Over	Hampton Court Bridge	3
18	Left Turn into	Hampton Court Road	3
19	Continue Along	Thames Street	2
20	Right Turn into	High Street Hampton	2
21	Right Turn into	Church Street	2
22	Right Turn into	Thames Street	No salt
23	Continue Along	Upper Sunbury Road (to Boundary)	2
24	Continue Along	Upper Sunbury Road	No salt
25	Left Turn into	Harfield Road	No salt
26	Left Turn into	Lower Hampton Road	No salt
27	Continue Along	Lower Sunbury Road (to Boundary)	No salt
28	Left Turn into	Lower Sunbury Road	2
29	Left Turn into	Upper Sunbury Road	No salt
30	Right Turn into	Percy Road	2
31	Over	Level Crossing (DO NOT SALT)	No salt
32	Right Turn into	Ashley Road	2
33	Right Turn into	Station Approach	2
34	Right Turn into	Tudor Road (over Bridge)	2
35	Left Turn into	Station Road	2
36	Left Turn into	High Street Hampton	2
37	Continue Along	High Street Hampton Hill	No salt
38	Right Turn into	Hampton Road	2
39	Right Turn into	Queens Road	2
40	Continue Along	Park Road, Teddington	2
41	Continue Along	Sandy Lane	2
42	Continue Along	Park Road, Hampton Wick	2
43	Continue Along	Church Grove	2
44	Left Turn into	High Street, Hampton Wick	2
45	Right Turn into	Lower Teddington Road	2

46	Continue Along	Broom Road	2
47	Left Turn into	Ferry Road	2
48	Continue Along	High Street Teddington	2
49	Continue Along	Broad Street	2
50	Left Turn into	Queens Road	No salt
51	Left Turn into	Park Road	2
52	Right Turn into	Station Road	2
53	Continue Along	Cromwell Road	2
54	Continue Along	Fairfax Road	2
55	Left Turn into	Kingston Road	No salt
56	Left Turn into	Ferry Road	No salt
57	Continue Along	High Street Teddington	No salt
58	Right Turn into	Waldegrave Road	2
59	Left Turn into	Cross Deep	1
60	Left Turn into	Heath Road	2
61	Left Turn into	The Green	2
62	Continue Along	Hampton Road	2
63	Left Turn into	South Road	2
64	Continue Along	Stanley Road	2
65	Straight Over	Queens Road	No salt
66	Left Turn into	Park Lane	2
67	Left Turn into	Park Road	No salt
68	Left Turn into	The Causeway	
69	Right Turn into	Broad Street	No salt
70	Left Turn into	Waldegrave Road (to Shacklegate Lane)	No salt
71	Left Turn into	Shacklegate Lane	2
72	Right Turn into	Stanley Road / South Road	2
73	Return to	Depot	No salt

**SECONDARY CARRIAGEWAY  
ROUTES - POST SALTING**

APPENIX 6

No	STREET NAME	AREA	
	<b><u>RED ROUTE 1</u></b>		
	Chestnut Ave	Hampton	
	Constance Road	Whitton	
	Clifden Road	Twickeham	
	Cobbertt Road	Whitton	
	Colne Road	Twickeham	
	Cophall Gardens	Twickeham	
	Court Way	Twickeham	
	Cranford Way	Twickeham	
	Dean Road	Hampton	
	Egerton Road	Twickeham	
	Ellerman Avenue	Whitton	
	Fourth Cross Road	Twickeham	
	Fifth Cross Road	Twickeham	
	First Cross Road	Twickeham	
	Gostling Road	Whitton	
	Gothic Road	Twickeham	
	Grove Avenue	Twickeham	
	Hatherop Road	Twickeham	
	Heathfield North	Twickeham	
	Heathfield South	Twickeham	
	Holly Bush Lane	Hampton	
	Holly Road	Twickeham	
	Laurel Avenue	Twickeham	
	Lion Avenue	Twickeham	
	Longford Road	Twickeham	
	Lyndhurst Avenue	Twickeham	
	Mereway Road	Twickeham	
	Montrose Avenue	Whitton	
	Popes Grove	Twickeham	
	PrioryRoad	Whitton	
	Queens Road	Twickeham	
	Rectory Grove	Hampton	
	Rycroft Avenue	Whitton	
	Ripley Road	Hampton	
	Second Cross	Twickenham	
	Sherland Road	Twickenham	
	Springfield Road	Whitton	
	Station Road	Twickenham	
	Station Yard	Twickenham	
	Third Cross Road	Twickenham	

	Tower Road	Twickenham	
	Trafalgar Road	Twickenham	
	Tranmere Road	Whitton	
	Tudor Road	Hampton	
	Warburton Road	Whitton	
	Waverley Avenue	Twickenham	
	Wellesley Road	Twickenham	
	<b><u>PINK ROUTE 2</u></b>		
	Amyand Park Road	Twickenham	
	Ashburnham Road	Ham	
	Back Lane	Ham	
	Beaconsfield Road	St Margarets	
	Bridge Road	St Margarets	
	Broadway	St Margarets	
	Brook Street	St Margarets	
	Church Road	Ham	
	Cole Park Road	Twickenham	
	Ellerker Gardens	Richmond	
	Ferrymoor Way	Ham	
	Friars Lane	Richmond	
	Green Side	Richmond	
	Grena Road	Richmond	
	Ham Close	Ham	
	Ham Common	Ham	
	Ham Gate Avenue	Ham	
	Hartington Road	St Margarets	
	Hill View Road	St Margarets	
	Grove Road	Richmond	
	Kenley Road	St Margarets	
	Kings Street	Richmond	
	Kingsmead	Richmond	
	Manor Gardens	Richmond	
	Manor Park	Richmond	
	Murray Road	Ham	
	Oak Lane	Twickeham	
	Old Palace Lane	Richmond	
	Orleans Road	Twickenham	
	Park Hill	Richmond	
	Parkshot	Richmond	
	Riverside	Richmond	
	Sandycombe Road	St Margarets	
	Sidney Road	St Margarets	
	St Margarets Grove	St Margarets	
	St Mary's Gardens	St Margarets	
	Strafford Road	Ham	
	Stretton Road	Ham	
	Stuart Road	Ham	
	The Embankment	Twickenham	
	The Green	Richmond	
	Townsend Terrace	Richmond	
	Vineyard	Richmond	

	Water Lane	Richmond	
	Wharf Lane	Twickenham	
	Wiggins Lane	Ham	
	Willowbank	Ham	
	Winchester Road	St Margarets	
	<b><u>BLUE ROUTE 3</u></b>		
	Woodville Road	Ham	
	Alderbury Road	Barnes	
	Alexandra Road	Sheen	
	Atwood Avenue	Kew	
	Barnes Avenue	Barnes	
	Beachwood Avenue	Kew	
	Beaumont Avenue	Kew	
	Boileau Road	Barnes	
	Burlington Avenue	Kew	
	Bushwood Road	Kew	
	Carrington road	Richmond	
	Charles Street	Barnes	
	Church Avenue	Sheen	
	Cowley Road	Mortlake	
	Cross Street	Barnes	
	Cumberland Road	Kew	
	Elm Bank Gardens	Barnes	
	Elm Grove Road	Barnes	
	Ennerdale Road	Kew	
	Evelyn Road	Kew	
	First Avenue	Mortlake	
	Fitzwilliam Avenue	Kew	
	Forest Road	Kew	
	Gainsborough Road	Kew	
	Glebe Road	Barnes	
	Glendower Road	Barnes	
	Jocelyn Road	Kew	
	Kew Foot Road	Kew	
	Kilmington Road	Barnes	
	Kings Road	Sheen	
	Leybourne Park	Twickenham	
	Lichfield Road	Kew	
	Lillian Road	Barnes	
	Madrid Road	Barnes	
	Marksbury Avenue	Richmond	
	Maze Road	Kew	
	North Road	Kew	
	North Worples Way	Sheen	
	Nowell Road	Barnes	
	Pagoda Avenue	Kew	
	Park Avenue	Sheen	
	Paynesfield Avenue	Sheen	
	Priory Road	Barnes	
	Queen Elizabeth Walk	Barnes	
	Queens Road	Sheen	

	Ranelagh Avenue	Kew	
	Second Avenue	Mortlake	
	Selwyn Avenue	Kew	
	South Worple Way	Sheen	
	St Hilda's Road	Barnes	
	St Johns Grove	Richmond	
	Stanmore Road	Kew	
	Station Road	Barnes	
	Stillingfleet Road	Barnes	
	Taylor Avenue	Richmond	
	The Avenue	Kew	
	Townmead	Kew	
	Vernon Road	Barnes	
	Vine Road	Barnes	
	Washington Road	Barnes	
	West Park Road	Kew	
	West Temple Sheen	Sheen	
	Westfields Avenue	Barnes	
	Windham Road	Barnes	
	<b><u>GREEN ROUTE 4</u></b>		
	Adelaide Road	Teddington	
	Atbara Road	Teddington	
	Bonser Road	Twickenham	
	Bushy Park Road	Hampton Wick	
	Cambridge Road	Teddington	
	Church Road	Teddington	
	Claremont Road	Teddington	
	Clarence Road	Teddington	
	Clifford Road	Twickenham	
	Clonmel Road	Teddington	
	Connaught Road	Teddington	
	Cromwell Road	Teddington	
	Elmfield Avenue	Teddington	
	Elmtree road	Teddington	
	Fulwell Road	Teddington	
	Grotto Road	Twickenham	
	Heath Gardens	Twickenham	
	Holmesdale Road	Teddington	
	King Edwards Grove	Teddington	
	Kingston Lane	Teddington	
	Langham road	Teddington	
	Munster Road	Teddington	
	Normansfield Avenue	Teddington	
	Orford Gardens	Twickenham	
	Ormond Drive	Hampton	
	Ormond Avenue	Hampton	
	Ormond Crescent	Hampton	
	Popes Avenue	Twickeham	
	Princes Road	Teddington	
	Radnor Gardens	Twickenham	
	Radnor Road	Twickeham	

	Somerset Road	Teddington	
	Spencer Road	Teddington	
	St James's Avenue	Hampton	
	St Mark's Road	Teddington	
	St Winifreds Road	Teddington	
	Station Road	Teddington	
	Teddiington Park	Teddington	
	Teddington Park Road	Teddington	
	Tennyson Avenue	Twickenham	
	Udney Park Road	Twickenham	
	Upper Grotto Road	Twickenham	
	Vicarage Road	Hampton Wick	
	Waldegrave Road	Teddington	
	Walpole Gardens	Teddington	
	Walpole Road	Teddington	

**POST SALTING - PRIMARY FOOTWAY CLEARANCE  
AND SALTING**

**APPENDIX 7**

Brewers Lane - Footpath - George Street To Richmond Green	Ham, Petersham & Richmond
Cholmondeley Walk - Richmond Riverside Path	Ham, Petersham & Richmond
Church Court - Footpath - George Street To Church Walk / Paradise Road	Richmond
Church Lane - Church St To Thames River - The Embankment	Twickenham Riverside
High Street - A311 Wellington Road To Uxbridge Road	Fulwell & Hampton Hill
Church Walk - Footpath - George Street / Church Court To Paradise Road	Ham, Petersham & Richmond
Clarence Street - Kew Road To Parkshot	Ham, Petersham & Richmond
Compass Hill - Richmond Hill To Petersham Road	Ham, Petersham & Richmond
Duke Street - The Green To George Street	Ham, Petersham & Richmond
Eton Street - Old George Street To Paradise Road	Ham, Petersham & Richmond
Friars Lane - The Green To Cholmondeley Walk - River Thames	Ham, Petersham & Richmond
Garrick Close - Richmond Green - Westwards	Ham, Petersham & Richmond
George Street - The Quadrant To Hill Street	Ham, Petersham & Richmond
Golden Court - George Street To The Green	Ham, Petersham & Richmond
Halford Road - A305 Paredise Road To The Vineyard	Ham, Petersham & Richmond
Hill Rise - Richmond Bridge St To Richmond Hill	Ham, Petersham & Richmond
Hill Street - George Street To Bridge Street	Ham, Petersham & Richmond
Kew Road - A316 Twickenham Road To The Quadrant / Richmond Railway Stn	Ham, Petersham & Richmond
King Street - Friars Lane To A307 George Street	Ham, Petersham & Richmond
Lewis Road - A307 Red Lion St To Wakefield Road	Ham, Petersham & Richmond
Little Green - Parkshot To The Green	Ham, Petersham & Richmond
Lower George Street - George Street To Eton Street	Ham, Petersham & Richmond
Old Palace Lane - The Green To Thames River	Ham, Petersham & Richmond
Paradise Road - Sheen Road To Red Lion Street	Ham, Petersham & Richmond
Parkshot - A316 Twickenham Road To Greenside	Ham, Petersham & Richmond
Patten Alley - Footpath - Ormond Road To The Vineyard	Ham, Petersham & Richmond
Paved Court - King Street To The Green	Ham, Petersham & Richmond
Quadrant Road - A307 The Quadrant To Duke Street	Ham, Petersham & Richmond
Retreat Road - Part Private Street At Friars Lane - Southwards	Ham, Petersham & Richmond
The Green - Friars Lane To King Street	Ham, Petersham & Richmond
The Passage - A307 The Quadrant To The Square	Ham, Petersham & Richmond
The Quadrant - A307 Kew Road To A307 George Street	Ham, Petersham & Richmond
The Square - A307 George Street To A307 Sheen Lane	Ham, Petersham & Richmond
Victoria Place - A307 George Street To Red Lion Street	Ham, Petersham & Richmond
Vineyard Passage - Footpath - A305 Paradise Road To The Vineyard	Ham, Petersham & Richmond
Water Lane - A307 Hill Street To Thames River	Ham, Petersham & Richmond
Old Palace Terrace - The Green To King Street	South Richmond
Richmond Bridge - A307 Hill Street To A305 Richmond Road	South Richmond
Richmond Riverside Park - Richmond Riverside Whittaker Avenue	South Richmond
Wakefield Road - Paradise Road / Church Terrace To Castle Yard	South Richmond
Whittaker Avenue - A307 Hill Street - Eastwards - To Thames River	South Richmond
The Causeway - A313 Broad St To Middle Lane	Teddington
Church Street - York Street To Water Lane	Twickenham Riverside

Katharine Road - A310 London Road - Eastwards	Twickenham Riverside
King Street - London Road To A305 Heath Road	Twickenham Riverside
London Road - A305 York St / King St To Arragon Road	Twickenham Riverside
London Road - Arragon Road To Whitton Road	Twickenham Riverside
Richmond Road - A305 York Street To Sion Road	Twickenham Riverside
The Embankment - Church Lane To Wharf Lane	Twickenham Riverside
Water Lane - A305 King Street To Thames River	Twickenham Riverside
York Street - A305 King Street To Richmond Road	Twickenham Riverside
Adelaide Road - Park Road To Teddington Station	Teddington
Alderbury Road - Nowell Road To Stillingfleet Road	Barnes
Amyand Park Road - Amyand Lane To Oak Lane	Twickenham Riverside
Amyand Park Road - Oak Lane To Arragon Road	Twickenham Riverside
Arragon Road - Amyand Park Road To Church Street	Twickenham Riverside
Arragon Road - London Road To Amyand Park Road	Twickenham Riverside
Ashburnham Road - Croft Way To Ferrymoor	Ham, Petersham & Richmond
Ashburnham Road - Ham Street To Ham Close	Ham, Petersham & Richmond
Ashley Road - Milton Road To Percy Road	Hampton
Barnes High Street - Church Road To The Terrace / Lonsdale Road	Barnes
Bell Lane - Church St To The Embankment	Twickenham Riverside
Beverley Path - Footpath - Archway Street To Willow Avenue	Barnes
Blue Anchor Alley - Footpath - Kew Road To Lower Mortlake Road	Ham, Petersham & Richmond
Branstone Road - Ennerdale Road To Kew Road	Kew
Bridge Way - High Street To Cypress Avenue	Whitton
Bridge Street - Hill Street To Richmond Bridge	Ham, Petersham & Richmond
Broad Street - High Street To Hampton Road	Teddington
Carrington Road - Manor Road - Eastwards	Ham, Petersham & Richmond
Castelnau - Clavering Avenue To Trinity Church Road	Barnes
Castelnau - Ferry Road To Rocks Lane	Barnes
Castelnau - Hammersmith Bridge To Clavering Avenue	Barnes
Castle Yard - Lewis Road To Hill Street	Ham, Petersham & Richmond
Church Passage - Church Street / Church Lane To Riverside	Twickenham Riverside
Church Road - A307 Kew Road To Mt Ararat Road	Ham, Petersham & Richmond
Church Road - A313 Broad St To Walpole Road	Teddington
Church Road - Barnes High Street To Castlenau	Barnes
Church Road - Walpole Road To Shacklegate Lane	Teddington
Church Terrace - Paradise Road To The Hermitage	Ham, Petersham & Richmond
Church Walk - Grange Road To Church Road	Barnes
Cobbett Road - Springfield Road To Warburton Road	Heathfield
Court Way - Whitton Road To Egerton Road	St Margarets & North Twickenham
Courtlands Avenue - Mortlake Road - Northwards	Kew
Crown Road - St Margarets Road To Hartington Road	St Margarets & North Twickenham
Drummonds Place - A307 The Quadrant - Eastwards	Ham, Petersham & Richmond
Elm Grove Road - Church Road / Rocks Lane To Rear Access	Barnes
Evelyn Gardens - Kew Road - Eastwards	Ham, Petersham & Richmond
Ferry Road - Castlenau To Byfeld Gardens	Barnes
First Cross Road - A305 The Green To A311 The Green	Twickenham
Flood Lane - Church Lane To Fp From Bell Lane To Church Lane	Twickenham Riverside
Friars Stile Road - Richmond Hill To Onslow Road	Ham, Petersham & Richmond

Garfield Road - A305 York St - Northwards To Cul De Sac End	Twickenham Riverside
Garfield Road - Cul De Sac End To Katherine Road - Garden Area	Twickenham Riverside
Ham Street - Ashburnham Road To Back Lane	Ham, Petersham & Richmond
Hampton Court Bridge - A308 Hampton Court Way To Thames River	Hampton
Hampton Court Road - A308 High Street To Church Street	Hampton
Hampton Court Road - Cdnl Wolsey PH To Greyhound PH (Car Park)	Hampton
Hampton Court Road - Church Grove Hw To High Street	Hampton Wick
Hampton Court Way - A308 Hampton Court Road To Hptn Court Bridge / Thames River	Hampton
Hampton Road - Fifth Cross Road To Sixth Cross Road	Twickenham
Hampton Road - Wellington Road / High Street To Blandford Road	Fulwell & Hampton Hill
Hanworth Road - Powder Mill Lane To Conway Road	Heathfield
Heath Road - A311 The Green To A310 Cross Deep	South Twickenham
Heron Square - A205 Bridge Street And A307 Hill Street	Ham, Petersham & Richmond
High Street - A313 Broad St To Ferry Road	Teddington
High Street - Hampton Court Road To Vicarage Road	Hampton Wick
High Street - Nelson Road To Percy Road	Whitton
High Street - Under Rail Bridge Lower Tedd Road To High Street	Hampton Wick
Horse Fair High St to Kingston Bridge	Hampton Wick
Kew Bridge - Kew Road To Mid Thames River	Kew
Kew Green - Priory Road To Kew Road	Kew
Kew Road - A205 Kew Bridge To Mortlake Road	Kew
Kew Road - Jocelyn Road To A316 Twickenham Road	Twickenham Riverside
Kingston Road - St Marks Road To Conifers Close	Hampton Wick
Library Way - Nelson Road Southwards To Library Toilets Car Park	Whitton
Lonsdale Road - A306 Castlenau To St Hildas Road	Barnes
Lower Mortlake Road - A316 Lower Richmond Road To A316 Twickenham Road	North Richmond
Merthyr Terrace - A306 Castlenau To Trinity Church Passage	Barnes
Mortlake High Street - 150M West Of Avondale Road To White Hart Lane	Mortlake & Barnes Common
Mortlake Road - Kew Road To Cambridgerd - Mortlake Terrace	Kew
Mortlake Station Passage - Sheen Lane To Little St Leonards	East Sheen
North Lane - A313 Broad St To North Place / Middle Lane	Teddington
North Place - A313 Broad St / North Lane - Westwards	Teddington
North Road - Kew Station To High Park Avenue	Kew
Palmerston Road - A316 Chertsey Road / Whitton Road To Chudleigh Road	St Margarets & North Twickenham
Park Lane - Parkshot - Westwards	Ham, Petersham & Richmond
Park Road - A313 Broad Street To The Causeway	Teddington
Park Road - High Street To School Road	Hampton Wick
Penrhyn Crescent - Upper Richmond Road West To Sheen Lane	East Sheen
Petersham Road - A307 Hill Street To Compass Hill	Ham, Petersham & Richmond
Poplar Court Parade - Richmond Road / St Margarets Road	Twickenham Riverside
Powder Mill Lane - A 314 Hanworth Road To Chester Avenue	Heathfield
Priests Bridge - Upper Richmond Road West To Upper Richmond Road West	Mortlake & Barnes Common
Princes Street - A307 Sheen Lane - Northwards	Ham, Petersham & Richmond
Railway Side - White Hart Lane To Railwayside Footpath	Barnes

Railwayside - Footpath - 18 Railwayside To Beverley Path Fp	Barnes
Red Lion Street - A305 Paradise Road To A307 Hill Street	Ham, Petersham & Richmond
Richmond Hill - B321 Hill Rise To Friars Stile Road	Ham, Petersham & Richmond
Richmond Road - St Margarets Road To Willoughby Road	Twickenham Riverside
Sandycombe Road - Broomfield Road To Dudley Road	Ham, Petersham & Richmond
Sheen Lane - Level Crossing To Colston Road	East Sheen
Sheen Road - The Square - Richmond To Kings Road	Ham, Petersham & Richmond
St James Cottages - A305 Paradise Road - Northwards	Ham, Petersham & Richmond
Staines Road - A305 The Green / First Cross Road To Meadway	Twickenham
Stanley Road - Winchendon Road To Gloucester Road	Fulwell & Hampton Hill
Stanton Road - A3003 Barnes High Street To Cleveland Road	Barnes
Station Approach - B353 Sandycombe Road To Railway	Kew
Station Approach - Tudor Road To Ashley Road	Hampton
Station Parade - Sandycombe Road To Kew Station	Kew
Station Road - A3003 Church Road To Essex Court Barnes Station	Barnes
Station Road - A311 High Street To Percy Road	Hampton
Sun Alley - Footpath - A307 Kew Road To Parkshot	Ham, Petersham & Richmond
Terrace Gardens - A3003 Barnes High Street To Grove Road	Barnes
The Green - A305 Heath Road To Staines Road & A311 Hampton Road	South Twickenham
The Green - Surrounding Richmond Green	Ham, Petersham & Richmond
The Towpath - Cholmondeley Walk - Thames Side - Northwds & Southwds	Ham, Petersham & Richmond
Towers Place - A305 Paradise Road / A307 Eton Street	Ham, Petersham & Richmond
Twickenham Road - Parkshot To Kew Road - South Side Of A316	South Richmond
Union Court - The Square To Towers Place	South Richmond
Unnamed Accom Road - Hampton Court - A308 Hampton Court Way	Hampton
Unnamed Accom Road - Wharf Lane - A305 King Street / Wharf Lane - Eastwards	Twickenham Riverside
Unnamed Fp - Bell Lane - The Embankment / Bell Lane To Church Lane	Twickenham Riverside
Unnamed Fp - Clarence St Kew Road - Kew Road To Clarence Street	South Richmond
Unnamed Fp - Lower George Street - Lower George Street - Southwards	South Richmond
Unnamed Fp - Paradise Road - A307 Sheen Road To A305 Paradise Road	Ham, Petersham & Richmond
Unnamed Fp - Station Parade - Station Parade To North Road	Ham, Petersham & Richmond
Unnamed Fp - The Quadrant / Parkshot - The Quadrant To Parkshot	South Richmond
Unnamed Fp - The Square - The Square / The Passage To Princes Street	South Richmond
Unnamed Fp - Worple Way - Sheen Road To Worple Way	South Richmond
Upper Ham Road - Parkleys To A307 Richmond Road	Ham, Petersham & Richmond
Upper Richmond Road West - A205 Clifford Avenue To Priests Bridge	East Sheen
Victoria Road - Park Road / Adelaide Road To Clarence Road	Teddington
Waldegrave Road - Shacklegate Road To Property 189 Inclusive	Teddington
Warrington Road - A305 Paradise Road / Church Terr - Eastwards	Ham, Petersham & Richmond
Waterloo Place - Footpath - Princes Street / The Quadrant	South Richmond
Waterloo Place - Kew Green E Towards Kew Bridge	Kew
Wellington Place - Footpath - Paradise Road / Church Walk Fp To	Ham, Petersham & Richmond

Victoria Place	
Wensleydale Road - Shops - Station Approach To No 13 Fronting Shops	Hampton
Westfields - White Hart Lane / Railwayside Fp - Southwards	Barnes
Westfields Avenue - White Hart Lane To Long Walk Fp	Barnes
Wharf Lane - A305 King Street To Thames River	Twickenham Riverside
White Hart Lane - A3003 Mortlake High Street To Level Crossing	Barnes
White Hart Lane - Level Crossing To Priests Bridge	Mortlake & Barnes Common
Whitton Road - A310 London Road To Latham Road	St Margarets & North Twickenham
Whitton Road - Chudleigh Road To A316 Chertsey Road	St Margarets & North Twickenham
Whitton Road - Latham Road To Chudleigh Road	St Margarets & North Twickenham
Whitton Road - Shopfronts - Shopfronts 95 To 97 & 94 To 98 Plus 30M Chudleigh Road	St Margarets & North Twickenham
rocks lane a306 Castlenau to Ranelagh Ave	Barnes

## Secondary Route for Post Salting Footpaths

Appendix 8

No:	Street Name	Area	Date
1	Adelaide Rd	Teddington, Hampton	
2	Amyand Park Rd	Twick and St Mags	
3	Beaumont Ave	Ham and Kew	
4	Albany Passage (Including Side Passages)	Richmond	
5	Burlington Ave	Ham and Kew	
6	Carrington Rd	Richmond	
7	Clifden Rd	Twick and St Mags	
8	Clonmel Rd	Teddington, Hampton	
9	Cobbett Rd	Twick and Whitton	
10	Colne Rd	Twick and Whitton	
11	Constance Rd	Twick and Whitton	
12	Court Way	Twick and Whitton	
13	Cromwell Rd	Teddington, Hampton	
14	Cross Street,	Barnes	
15	Cumberland Rd	Ham and Kew	
16	Dean Rd	Hampton	
17	Egerton Rd	Twick and Whitton	
18	Elerker Gardens	Richmond Area	
19	Elm Bank Gardens,	Barnes	
20	Ennerdale Rd	Ham and Kew	
21	Evelyn Rd	Ham and Kew	
22	Ferry Rd,	Barnes	
23	Fifth Cross Rd	Twick and Whitton	
24	Forest Rd,	Kew	
25	FRIARS Stile Road	Richmond Area	
26	Glebe Rd.	Barnes	
27	Gothic Road	Twick and Whitton	
28	Grena Rd	Richmond Area	
29	Ham Close	Ham and Kew	
30	Hartington Rd	Twick and St Mags	
31	Kent Road.	Kew	
32	Kew Rd	Ham and Kew	
33	Kilmington Rd,	Barnes	
34	Kingston Lane	Teddington, Hampton	
35	Lillian Road,	Barnes	
36	Lion Rd	Twick and Whitton	
37	Little Green	Richmond Area	
38	Little Green	Richmond Area	
39	Longford Rd	Twick and Whitton	
40	Manor Park	Richmond Area	
41	Manor Gardens	Richmond Area	
42	Mereway Rd	Twick and Whitton	
43	Normansfield Ave	Teddington, Hampton	
44	North Rd	Ham and Kew	

45	North Worple Way,	Sheen	
46	Oak Lane	Twick and St Mags	
47	Orleans Rd	Twick and St Mags	
48	Park Ave	Sheen Area	
49	Parkshot	Richmond Area	
50	Popes Ave	Twick and St Mags	
51	Popes Grove	Twick and St Mags	
52	Priory Rd,	Kew	
53	Queen Elizabeth Walk,	Barnes	
54	Richmond Hill	Richmond Area	
55	Ripley Road	Hampton	
56	Shaftsbury Rd	Ham and Kew	
57	Sheen Road	Richmond Area	
58	Somerset Rd	Teddington, Hampton	
59	South Worple way	Sheen Area	
60	St James Avenue (Windmill to end only)	Hampton	
61	St Marks Rd	Teddington, Hampton	
62	St Marys Grove	Richmond Area	
63	Stanley Rd ( South rd to Hampton Rd )	Teddington, Hampton	
64	Station Rd	Twick and Whitton	
65	Station Rd	Twick and Whitton	
66	Stillingfleet Rd.	Barnes	
67	Strafford Rd	Twick and St Mags	
68	Strathmore Rd	Teddington, Hampton	
69	The Green	Richmond Area	
70	The Vineyard	Richmond Area	
71	Tower Rd	Twick and St Mags	
72	Townmead Road,	Kew	
73	Trafalgar Road	Twick and Whitton	
74	Townshend Road	Richmond Area	
75	Townshend Terrace	Richmond Area	
76	Victoria Rd	Teddington, Hampton	
77	Waldergrave Park	Teddington, Hampton	
78	Wellesley Rd	Twick and St Mags	
79	West Park Rd	Ham and Kew	
80	West Temple Sheen	Sheen Area	
81	Westfields Ave	Barnes	
82	Winchester Rd	Twick and St Mags	
83	Windham Rd	Ham and Kew	
84	Woodville Rd	Ham and Kew	

**CARRIAGEWAY AND FOOTWAY - POST SALTING STEEP GRADIENTS**

**APPENDIX 9**

<b>ID</b>	<b>STREET NAME</b>	<b>Area</b>	<b>ID</b>	<b>STREET NAME</b>	<b>Area</b>
	Hertford Avenue	Sheen		Albert Road	Richmond
	Bertwyn Road	Sheen		Audley Road	Richmond
	Christ Church Road	Sheen		Broadhurst Close	Richmond
	Coval Road	Sheen		Cambrian Road	Richmond
	Deanhill Road	Sheen		Cardigan Road	Richmond
	Derby Road	Sheen		Chisholm Road	Richmond
	East Sheen Avenue	Sheen		Elleker Gardens	Richmond
	Gilpin Avenue	Sheen		George Square	Richmond
	Observatory Road	Sheen		Greville Road	Richmond
	Orchard Rise	Sheen		Grove Road	Richmond
	Palewell Common Drive	Sheen		Halford Road	Richmond
	Palewell Park	Sheen		Hobart Place	Richmond
	Palmerston Road			Houblon Road	Richmond
	Park Drive	Sheen		Kingsmead	Richmond
	Richmond Park Road	Sheen		Lancaster Park	Richmond
	Sheen Common Drive	Sheen		Lower Grove Road	Richmond
	Sheen Gate Gardens	Sheen		Marlborough Road	Richmond
	Stanley Road	Sheen		Montague Road	Richmond
	Sunbury Avenue	Sheen		Mount Ararat	Richmond
	Temple Sheen	Sheen		Onslow Avenue	Richmond
				Onslow Road	Richmond
				Park Hill	Richmond
				Princes Road	Richmond
				Pyrland Road	Richmond
				Queens Crescent	Richmond
				Queen's Road	Richmond
				Worple Way	Richmond

## **APPENDIX 10**

### **LOCATIONS FOR 'RISK OF ICE' WARNING SIGNS (Dia 554.2)**

Hampton Court Road – Hampton Court Bridge Roundabout to Church Street

Petersham Road by Nightingale Lane

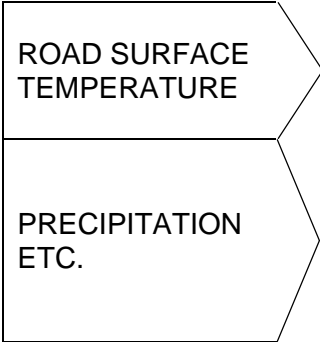
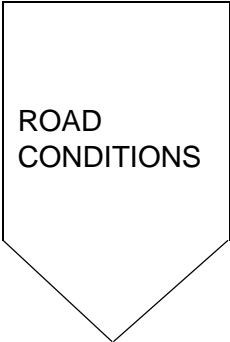
Star & Garter Hill

### **LOCATIONS FOR SALT BINS**

Hampton Court Road opposite Taggs Island

Petersham Road outside The Rose of York PH

# Decision Making Procedure



May fall Below freezing	Expected to fall below freezing – See Note (5)				
No rain	No rain	Expected hoar frost	Expected rain	Expected rain	Possible rain
No hoar frost	No hoar frost	Expected fog	<u>before</u> freezing	<u>during</u> freezing	Possible hoar frost
No fog	No fog				Possible fog

Wet
Wet Patches
Dry
Pre-salted within last 24 hours with no rain since

1	1	1	3 See Note (3)	1 & 4 See Note (4)	4
2 See Note (1)	2 See Note (1)	2 & 4 See Note (2)	3 See Note (3)	1 & 4 See Note (4)	5
6 See Note (1)	6 See Note (1)	4 See Note (2)	3 See Note (3)	1 & 4 See Note (4)	5
6 See Note (1)	6 See Note (1)	6 See Note (1)	3 See Note (3)	4 See Note (4)	5

## **ACTION**

- 1 Salt early evening.
- 2 Salt wet patches early evening.
- 3 Salt after rain stops.
- 4 Salt early morning.
- 5 Supervisor inspect early morning.
- 6 No action.

## **NOTES TO ACTION TABLE**

- 1 Particular attention should be given to the possibility of water running across carriageways e.g. off adjacent fields after heavy rain, washing off salt previously deposited. Such locations should be kept under scrutiny and may require treating in the evening and morning, and possibly on other occasions.
- 2 When a road danger warning contains reference to expected hoar frost considerable deposits will usually occur. Hoar frost usually occurs in the early morning and is difficult to cater for because of the probability that any salt deposited on a dry road too soon before the onset may be dispersed before it can become effective. Particular vigilance is required under this forecasted condition which is ideally treated just as the hoar frost is forming. Such action is usually not practicable and salt may have to be deposited on a dry road before the condition forms. Hoar frost may be forecast to occur at other times in which case the timing of the salting operations should be adjusted accordingly.
- 3 If, Under those conditions, rain has not ceased by early morning, crews must be called out and action should be initiated as rain ceases (Action 5).
- 4 Under these circumstances rain will freeze on contact with the road surface and full pre-salting must take place even on dry roads. Constant vigilance must be maintained throughout the danger period.
- 5 Warnings are often qualified by altitudes in which case differing action may be required from each depot.

**SPREADER VEHICLES**

<b>FLEET NUMBER</b>	<b>MAKE &amp; MODEL</b>	<b>REGISTRATION NUMBER</b>	<b>GROSS WEIGHT (kg)</b>	<b>TARE WEIGHT (kg)</b>	<b>MAX. PAYLOAD (kg)</b>
446	Leyland	W626XJE	7490	4470	3020
447	Leyland	W664XJE	7490	4470	3020
448*	Leyland	W863RBN	7490	4560	2930
449	Leyland	W837RBN	7490	4560	3020
450*	Leyland	W803CRN	14000	6680	7320

\* Fitted with plough attachment

<b>LOADING SHOVELS</b>		
	<b>MAKE &amp; MODEL</b>	<b>REGISTRATION NUMBER</b>
	VOLVO L45F	N/A
	CAT 930H	N/A

## WINTER SERVICE 2011/2012

### WEEKLY SUMMARY OF WEATHER FORECASTS

WEEK ENDING:

DATE	DAY	TIME	CONDITION INDICATOR	MIN. ROAD TEMP	ACTION TAKEN		COMMENTS
					Yes	No	
	Mon	11.00					
	Mon	17.00					
	Mon	23.00					
	Tues	03.00					
	Tues	11.00					
	Tues	17.00					
	Tues	23.00					
	Wed	03.00					
	Wed	11.00					
	Wed	17.00					
	Wed	23.00					
	Thurs	03.00					
	Thurs	11.00					
	Thurs	17.00					
	Thurs	23.00					
	Fri	03.00					
	Fri	11.00					
	Fri	17.00					
	Fri	23.00					
	Sat	03.00					
	Sat	11.00					
	Sat	17.00					
	Sat	23.00					
	Sun	03.00					
	Sun	11.00					
	Sun	17.00					
	Sun	23.00					
	Mon	03.00					
				Signature:			

# WINTER SERVICE 2011/2012

## PRECAUTIONARY SALTING RECORD

DATE:

NUMBER:

ACTION SUMMARY (circle):      FULL PATTERN      ISOLATED AREAS      SUPERVISOR INSPECTION ONLY

TIME OF CALL OUT:

RATE OF SPREAD:

FLEET No.	CALL SIGN	DRIVER	ROUTE	TIME OUT OF DEPOT	RETURN TIME TO DEPOT	Max.GVW (kg)	Act. GVW (kg)	TARE (kg)	Tonnage of SALT used	COMMENTS
446						7490				
447						7490				
448						7490				
449						7490				
450						14000				
			Foot bridges							
Shovel			N/A	N/A	N/A	TOTAL SALT USED:				

Weather Forecast:

Actual Weather Conditions:

Condition Indicator:

Min, Road Temp:

Signature:

# WINTER SERVICE 2011/2012

## ROAD TEST OF SPREADER VEHICLES

Driver's Name: \_\_\_\_\_

Date: \_\_\_\_\_

Registration No: \_\_\_\_\_

Fleet No: \_\_\_\_\_

Check list legend \*



Satisfactory



Requires attention



Not Checked

### DAILY CHECK LIST

Ref.	Items to be checked	*	Action taken	Initials	Ref.	Items to be checked	*	Action taken	Initials
1	Fuel				9	Windscreen Wipers			
2	Oil				10	Mirrors and Windows			
3	Water				11	Licence displayed			
4	Tyres				12	Cleanliness inside cab			
5	Lights				13	Cleanliness outside cab			
6	Direction indicators				14	Bodywork			
7	Brakes				15				
8	Hydraulic oil level				16				

### WEEKLY ROAD TEST and ADDITIONAL CHECK LIST

Ref.	Items to be checked	*	Action taken	Initials	Ref.	Items to be checked	*	Action taken	Initials
17	Check that the conveyor belt operates on manual and auto				18	Check for damage to conveyor belt and spinner disc.			
19	Road test of vehicle (minimum 5 miles)				20				

Start mileage: \_\_\_\_\_

Finish Mileage: \_\_\_\_\_

General Remarks: \_\_\_\_\_

Driver's signature: \_\_\_\_\_



# WINTER SERVICE 2011/2012

## DAILY INSPECTION OF WATER LEAKS

DUTY DRIVER: S BROWN J HARRISON G BARHAM N  
CRANFIELD

DATE:

	REF No.	LOCATION OF WATER LEAK	SALT USED	SIGNS ERECTED	SITE CLEARED ( )	TIME ON SITE	REMARKS
1							
2							
3							
4							
5							
6							
7							
8							
9							
10							

Sheet ..... of .....

Signature: