

ABERDEEN CITY COUNCIL Roads Winter Service Plan 2018 – 2019



Specification & Operational Plan



OPERATIONS

ROADS OPERATIONS

WINTER SERVICE PLAN

2018-2019

CONTENTS

PART 1: SPECIFICATION

PART 2: OPERATIONAL PLAN

ABERDEEN CITY COUNCIL COMMUNITY, HOUSING & INFRASTRUCTURE

ROADS OPERATIONS

WINTER SERVICE PLAN

2018 - 2019

PART 1 SPECIFICATION

WINTER SERVICE PLAN

PART 1 SPECIFICATION DOCUMENT

1. Policy

- 1.1 The City Council's policy is stated in the report submitted to the Roads Sub-Committee of the Policy and Resources Committee on 19th September 1996 and Policy & Strategy Committee of 5th June 2008.
- 1.2 The Council's policy objectives in relation to winter service is defined as the reduction, as far as practicable, of the effects of adverse weather conditions on the movement of people and vehicles to facilitate safe travel on the more important roads in the City.

2. Priorities and Standards

2.1 General

The Committee agreed that the priorities for treatment and standards of treatment be determined in accordance with the relative importance of any particular road in the Road network, and that the relevant Corporate Director be requested to endeavour to curtail the level of expenditure within the sum provided in the annual budget, bearing in mind the conditions which pertain and the policies set down in the report.

- 2.1.1 Priority 1 routes will be principal roads or other classified roads serving as the main routes of major traffic distributors. Priority 1 routes should also carry heavy traffic flows or serve as major public service bus routes or give access to public service or emergency facilities providing an essential public service. In special circumstances a road which does not meet the above definition may be considered a priority 1 route if it is regularly used and presents special hazards because it is habitually liable to drifting snow or freezing because of altitude or exposure etc. A road need not be considered a priority route at all times.
- 2.1.2 The standard to be aimed at on Priority 1 routes is that these routes should never become impassable to traffic unless there are abnormal conditions. Snow and ice clearance should be started as soon as practical when the need for it becomes apparent. Equipment and resources should be provided and should be capable of being deployed sufficiently quickly to be able to salt for ice or clear a moderate snowfall of up to 50 millimetres depth (2 inches) within two and a half hours of the physical start of operations.
- 2.1.3 There should be, for these routes, a 24 hour a day, 7 day per week availability of crews and equipment with the standby arrangements being such that the response time for an instruction from a responsible officer of the authority to commence winter service operations to the start of snow or ice clearing on site should not be greater than one hour.
- 2.1.4 Consideration will be given to the pre-salting of priority 1 routes on receipt of an adverse weather forecast to prevent the formation of ice or to make the clearing of snow or ice from the surface of the road less difficult.

- 2.1.5 A list of priority one routes should be drawn up. The routes will be collated into convenient lengths to be dealt with by one or more salt stores and the need to keep mileage, which is run empty for reloading to an absolute minimum.
- 2.1.6 The priority 1 routes should be reviewed annually in the late summer/autumn months to take account of changes in the road layout e.g. change from single to dual carriageway or in the light of new development and particularly the opening of new community facilities e.g. schools, health centres or similar, or in the light of changes in the road network and amendments to the routing of Public Transport.
- 2.1.7 Priority 2 routes will be principal and other classified roads not included in the priority 1 list but which serve as main roads or as traffic distributors and which carry medium traffic flows or give access to community or public facilities of a non essential nature.
- 2.1.8 In order to provide an efficient and effective use of labour and plant several of the Priority 2 Routes are included in the Priority 1 routes, the remaining Priority 2 routes will only be treated once the combined Priority 1 & 2 routes have been opened to traffic. The remaining Priority 2 roads will be dealt with on an "Area Response" basis with the allocation of resources to the defined areas being subject to the prevailing weather conditions. Treatment of an Area is not subject to a time for completion due to their size and complexity. Additional resources from external Contractors may be employed to assist in the operation.
- 2.1.9 Priority 3 locations are access roads, service roads, cul de sacs and minor roads where it could be expected that residents and employees etc could make their way with some difficulty in all but abnormal conditions to the nearest higher priority route.
- 2.1.10 The standard for Priority 3 locations would be that they would not normally be treated unless conditions were severe enough to prevent the passage of emergency vehicles, where it was considered in the light of prevailing weather forecasts that the conditions might be expected to persist for some time or that there was an exceptional depth of snow packed snow or ice. In the case of a medical emergency or an event such as a funeral the location in question would be treated. Priority 3 locations due to width of access, or they are dead ends will not always be accessible with normal winter maintenance plant and would not be treated until all routes of a higher priority had been opened to traffic.
- 2.1.11 Non-Aberdeen City Council maintained roads and roads or lanes providing a secondary means of access for service vehicles together with roads on which there are no direct accesses to any habitations would not be treated except in the case of a medical emergency.
- 2.1.12 In extreme weather conditions only, Priority 1 routes will be treated. Should salt stock levels diminish, salt treatment of Areas will be stopped, then Priority 2 routes, until only priority 1 routes are being treated.

2.2 Priorities and Standards – Footways & Cycle Ways

- 2.2.1 The priority with regard to the treatment of footways is that, precedence will be given to those footways in the City for which the Council is responsible and which carry the greatest number of pedestrians. This means the central areas of the City where the shopping and commercial facilities etc are concentrated. Precedence will also be given to footways and gradients, which are so steep, that they would be dangerous when covered with ice or hard packed snow. This may be altered by the duty superintendent or the duty officer depending on the circumstances that are being encountered.
- 2.2.2 The standard to be aimed at for footways on the Priority 1 list is that, these footways should be kept in a safe condition for pedestrians. In "normal" conditions snow or ice clearance should be started as soon as practicable when the need for such treatment becomes apparent. Equipment and resources should be provided and should be capable of being deployed sufficiently quickly to be able to begin treatment of a moderate snowfall between the hours of 07.45 and 15.45 Monday to Friday. At weekends the duty superintendent or the duty officer will determine if additional resources can be sourced.
- 2.2.3 All other footways in the city will be considered to have a lower priority although again precedence will be given to the more heavily trafficked routes, footways in the vicinity of major public services, medical or community facilities providing an essential public service and where numbers of infirm, elderly, accompanied infants and young children are likely to congregate. These footways will be treated only when the Priority 1 routes have been treated and made safe for pedestrian movement and will be dealt with on an Area Response basis with the allocation of resources to the defined areas being subject to the prevailing weather conditions. Treatment of an Area is not subject to a time for completion due to their size and complexity.
 - During forecasts of snow or ice or for periods of snow or ice council employees will be deployed to treat Priority 1 footways and then continue into the Areas, additional resources from external Contractors may be employed to assist in the operation.
- 2.2.4 Other equipment and resources should be deployed to deal with particular situations as conditions dictate, particularly where treatment has not been carried out and there is a public need for such treatment at individual locations, e.g. bus stops, pedestrian crossings, traffic islands and the like.
- 2.2.5 Privately maintained footways will not normally be treated.
- 2.2.6 Cycle ways in the city will be considered to have the same priority as lower priority footways. These cycle ways will be treated only when the Priority 1 routes have been treated and will be dealt with on an Area Response basis in conjunction with the footways in that area. The allocation of resources to the defined areas will be subject to the prevailing weather conditions. Treatment of an Area is not subject to a time for completion due to their size and complexity. In keeping with Priority 3 carriageways, it would be expected that cyclists could make their way with some difficulty in all but abnormal conditions to the nearest higher priority route. A list of the cycle ways to be treated was approved at the EP & I Committee on 12 November 2013 and is included in Appendix C.

2.3 Self Help

- 2.3.1 On lower priority routes both on carriageways, lay-bys and footways, grit bins should be provided where they can be sited without inconvenience or danger to residents and road users. Due to the demand on resources to fill grit bins, it has been decided not to increase the number of grit bins. Alternatively, 1T salt bags will be made available for community use (see 2.3.4). The location of the grit bins can be viewed on the council's web site at: https://maps.aberdeencity.gov.uk/LocalViewWeb/Sites/Gritboxes/
- 2.3.2 Grit bins are maintained and kept filled by the Council so that the salt, salt/sand mixtures are readily available to Council employees, local residents or any other road user should they choose to use the facility. The locations and condition of all grit bins should be reviewed annually in late summer/autumn. It should be noted that whilst making use of grit bins, care should be taken as it is common for them to be used by some members of the public for the disposal of rubbish, such as glass, sharp metal and, in some instances, syringes which could result in injury to the user should they inadvertently come into contact with this material. Hazard warnings should be positioned on the lid of the grit bin
- 2.3.3 It is recommended that all grit bins be highlighted for public use with a telephone number to call allowing members of the public to inform on the location of the empty grit bin.

 Calls will be monitored on a daily basis during the winter and twice daily during periods of snow and ice. Holidays and weekends will be excluded as resources are limited.
- 2.3.4 1 Tonne bags of salt will be issued on request to Community groups for self help winter treatment. These bags will be issued and replenished on condition that they are situated in a secure location which is accessible to the Council delivery lorry. A communal area such as a car park would not be acceptable as the bags will be susceptible to theft and vandalism. Additionally, a number of smaller bags shall be offered to the person requesting the 1 Tonne bag to aid distribution of the salt in the community.
- 2.3.5 Large Community Grit Bins have been located throughout the city these are specifically located to allow rapid replenishment from small lorries during storm conditions. The locations are listed in Appendix (D,a)
- 2.3.6 Individual salt buckets containing approximately 10kg of salt are available from depots. The 10kg is sufficient to treat the footway fronting a property for a number of days.

3. Treatments of Conditions

3.1 Precautionary Salting - Priority 1 routes and locations of particular hazard.

Precautionary treatments should be carried out to as per Appendix (D,b) Column C. This table is based on guidance issued by the Society of Chief Officers of Transportation in Scotland (SCOTS) Winter Service Subgroup.

Column C is appropriate when the Salt Cover is Poor, Traffic Levels are Low/Medium and the Salt Loss due to traffic is Normal.

Precautionary Treatment for Hoar Frost and Ice.

3.1.1 If the road temperature is at or above -2C and the road is damp, salt at a rate of 10 grams per square metre. If the temperature falls between -2C and -5C and the road is damp, salt at 15/20g per square metre. If the road is damp and the temperature is below -5C, salt at 20g per square metre, monitor conditions and retreat if required.

If the road temperature is at or above -2C and the road is wet, salt at a rate of 15 grams per square metre. If the temperature falls between -2C and -5C and the road is wet, salt at 20g per square metre. If the Road is wet and the temperature is below -5C, salt at 20g per square metre, monitor conditions and retreat if required.

When rain is forecast prior to frost/ice, treatment should be timed to commence at the cessation of rainfall subject to being completed within the council's hours of coverage.

3.1.2 When frost/ice is predicted after rain precautionary salting rates should be increased to 20-40 g/sq. m according to the temperatures expected. 20 g/sq. m will operate down to - 2 degrees Celsius, 40 g/sq. m operates to -5 degrees Celsius. Salting should be delayed as long as possible to reduce loss of salt by run-off unless freezing conditions coincide with the rainfall. Road conditions are to be monitored and retreated if required. The situation is to be monitored and retreatment carried out if required.

3.2 <u>Precautionary Treatment for Snow.</u>

- 3.2.2 When continuous snow/freezing rain is forecast precautionary salting rates are to be 20-40 g/sq. m according to the anticipated severity of the snowfall as per Appendix (D,c)
- 3.2.3 The maximum salt spreading rate recommended for melting up to 50mm of fresh snow is 40 g/sq.m. Repeated applications of salt can remove heavy accumulations of snow, however, this approach is not recommended and ploughing should be undertaken as the depth of snow starts to exceeds 10mm. 20g per square metre of salt should be applied in advance of a snowfall to allow the formation of a debonding layer and assist subsequent ploughing. Where more than 50mm of snow has accumulated, compaction by traffic is likely to become problematic.
- 3.2.4 These spread rates are dependent on available salt stocks, during periods of sustained snow salt availability may be restricted due to availability or instructions from outwith the council, and periods of salt conservation may be necessary as per section 7.0)

3.3 Treatment for Ice and Compacted Snow Conditions

When ice or compacted snow has already formed the surface should be treated as be the guidance in Appendix (D,d).

3.3.1 When temperatures drop below -5 degrees Celsius it is advisable to use grit or salt/grit mixtures. The grit used in these circumstances should be single particle size 6mm – 2mm having low fine content. The particles should be angular suitable for an abrasive. Grit shall only be used when absolutely necessary due to additional problems arising, such as sweeping and gully emptying and the subsequent additional costs for waste disposal.

3.4 <u>Updated guidelines on salt spread rates</u>

3.4.1 Appendix H of the Well Managed Highways Code Of Practice for Highway Maintenance Management is primarily concerned with Winter Service Issues.

The Society of Chief Officers of Transportation in Scotland (SCOTS) have produced recommendations on the most appropriate and practical approach to implementing elements of Appendix H. Following consultation with the National Winter Service Research Group (NWSRG), concerning the implementation of Appendix H the SCOTS Winter Subgroup have suggested a number of developments to Appendix H.

Having considered the feedback from the NWSRG on the review of Appendix H the SCOTS Winter Service Subgroup provided advice that Scottish Local Roads Authorities adopt the developments to Appendix H of Well Maintained Highways.

Minimum spread rates of unmodified salt are suggested in Appendix (D,b) treatment matrix for different operational scenarios out-with resilience situations.

Detailed below is the justification provided by the SCOTS Winter Service Subgroup for advising these variations and this is supported by Aberdeen City Council officers.

- Review conclusions based on significant experience of delivering winter service by Scottish local Authorities.
- Review conclusions based on developed best practice within Scottish local Authorities.
- Recognition that going forward that these variations to Appendix H, and the successor document, need to be monitored in relation to the development of equipment, research undertaken and revisions to Appendix H.
- These variations to Appendix H of Well Maintained Highways need to be kept under review by the SCOTS Roads Group/SCOTS Winter Service Subgroup to continue to inform the most appropriate approach to Winter Service to be taken by Scottish Roads Authorities.
- The treatment matrix developed through the SCOTS Winter Sub group is being adopted by Aberdeen City Council and is detailed in Appendix (D,b) along with associated notes.

4. Winter Service Plant

To be effective, salt must be spread evenly at rates to suit prevailing conditions. The spreading equipment supplied should be to BS 1622:1989. The controls of spreading machines are to be calibrated annually and clearly marked for distinct spread rates up to 40g/sq.m.

5. Salt and Grit

- 5.1.1 Salt supplied to various locations throughout the City shall be to BS 3247.
- 5.1.2 Grit for use either neat or in mixtures shall be single sized abrasive or particle size 6mm 2mm having a low fine content. The particles should be angular in shape suitable for an abrasive.
- 5.1.3 Chemical de-icing treatment may to be used at selected locations including the city centre and cycleways.
- 5.1.4 Salt is purchased to restock the storage areas to their maximum stock levels in advance of the season, salt stocks are closely monitored, and restocking orders placed to maintain suitable levels.
- 5.1.5 Salt at storage areas are currently stored uncovered.
- 5.1.6 A guide to appropriate maximum and minimum and resilience stock levels are included in Appendix (D,e).

6. Communications

- 6.6.1 Work has been carried out with the Corporate Communications Team and the Service Design and Development team to provide up to date information on the Council Web Site. The information provided will enable members of the public to check on expected road conditions, confirm main gritting routes and check action currently underway. There is also a section to check the weather and road conditions.
- 6.6.2 City Voice Questionnaire including several questions relating to the general public's satisfaction with Aberdeen City Council's winter performance will be issued to the general public following the 2017 18 winter season. This questionnaire is repeated annually as part of the Roads Asset Management Plan to build up a picture of the trend of public satisfaction related to the severity of the winter weather. It may also indicate areas for improvement or future action within the limitations of the winter budget.

7. Resilience

- 7.1.1 If salt stock levels fall close to the resilience stock levels indicated in Appendix (D,e) the Roads Operations Manager will consider and implement the actions required to maintain traffic flow along the strategic network.
- 7.1.2 In extreme circumstances that may have a major adverse impact on the provision of the winter service the Roads Operations Manager after consultation with the Roads Infrastructure Manager may implement the actions required to maintain traffic flow along the strategic network these may include but are not restricted to:
 - Reduce salt spread rates.
 - Restrict salt spreading to the Priority 1 routes.
 - Move to using salt/grit mixes.
 - Move to using grit only on Secondary routes
 - Grit only to be used on hard packed snow on priority/secondary/cul de sac routes
 - Replenish Grit Bins with grit only
 - Move to using grit only on priority and secondary footway routes

ABERDEEN CITY COUNCIL OPERATIONS ROADS OPERATIONS

WINTER SERVICE PLAN 2018-2019

PART 2 - OPERATIONAL PLAN

WINTER SERVICE DOCUMENT

PART 2 **OPERATIONAL PLAN** 1. Introduction 1.1 Outline Stages of Plan 1.2 1.3 Delegation of Responsibilities 2. 2.1 **Working Arrangements Operating Period** Standby Service 2.2 2.3 **Early Morning Patrols** 2.4 Service Within Working Hours 2.5 Service Outwith Normal Working Hours **Footway Treatment** 2.6 **Footway Readiness** 2.7 2.8 Thawing 2.9 Lifting of Snow from Roads etc 3. Information 3.1 Communications 3.2 Weather Forecasts 3.3 Advice Sheets 3.4 Road Condition Reports 4.1 Availability and Maintenance for 4. Plant Vehicles, Plant etc. 4.2 Operation of Vehicles Salt and Salt/Sand Stocks 5. Materials 5.1 5.2 Use of Materials 6. Assistance from Third Parties 6.1 **Local Authority Services** 6.2 Education 6.3 Parks etc. 7.1 7. **Road Closures** Road Closures 8. Monitoring and Reporting 8.1 Road Treatment Log

Appendices

| Α | En | nerge | ncy | Contacts |
|---|----|-------|-----|----------|
| _ | _ | | | |

- B Duties of Personnel
- C Gritting/Treatment Routes

WINTER SERVICE PLAN - STANDING ORDERS

PART 2 - OPERATIONAL PLAN

1. Introduction

1.1 Outline

The Operational Plan is designed to provide for a twenty-four hour a day, seven days a week service. The plan, which is designed to be flexible enough to cover all foreseeable weather conditions normally experienced in this part of the country, will operate in various phases according to the time of day and weather conditions.

The plan consists of an emergency standby service out with normal working hours, regular routine patrols by specialist gritting and snow clearing vehicles in the early hours of the morning augmented, as necessary, by the use of the Council's normal heavy goods vehicles fitted with demountable snowploughs and/or gritter bodies as appropriate. The Council's own resources can be augmented by hired labour and vehicles and plant from local contractors.

1.2 Stages of the Plan

In deploying the Council's resources and resources from other Services, Superintendents will take into account the priorities drawn up to cover all weather conditions, will seek to ensure that the road network is dealt with in the sequence and to the standards set out in Part 1, Section 2 headed "Priorities and Standards".

Superintendents in planning and executing the Winter Service Operations must give consideration to the needs of all employees to have reasonable periods of rest between periods of duty, however, in extreme and prolonged weather conditions Aberdeen City Council can declare the event an emergency to continue with winter service operations.

1.3 Delegation of Responsibilities

- 1.3.1 The Roads Infrastructure Manager is responsible for the work of the Roads Services throughout the City. The Roads Infrastructure Manager is responsible for formulating the policy objectives with regard to Winter Service operations and ensuring that adequate resources are allocated to meet the objectives and standards set in the Specification Document. The Roads Infrastructure Manager is also responsible for ensuring that the Specification and Operational Plan are continually reviewed in the light of experience and changing circumstances.
- 1.3.2 The Roads Infrastructure Manager in conjunction with the Road Operations Manager will be wholly responsible for ensuring that Winter Service operations are carried out in accordance with the policy of the Council and in accordance with accreditation in Winter Maintenance Quality Assurance under ISO 9001. They will ensure that the Duty Officers and the Superintendents and operators are conversant with the Winter Service Plan and will ensure that the standard of training, etc. of the operatives is sufficiently high to enable them to carry out their allotted tasks. The day to day responsibility for producing the daily Winter Maintenance Advice Sheet may be delegated to the Duty Officer. The

Superintendents shall be provided with the physical resources to enable them to carry out the work within the limitations of the budget and shall have the authority to utilise all the resources available to them on normal works in the event of adverse weather conditions. The day to day responsibility for the organisation and supervision of Winter Service operations may be delegated to the Superintendents.

1.3.3 The Superintendents are wholly responsible to the Roads Infrastructure Manager/Road Operations Manager for the day to day organisation and execution of the Winter Service operations and will take immediate action to implement the Winter Service Plan on receipt of adverse weather advice or in the event of sudden frost or snowfall. The Superintendents have complete authority to set the plan in action without reference to the Roads Infrastructure Manager or Road Operations Manager but shall at all times keep the Management fully advised of the prevailing circumstances with regard to the progress of Winter Service operations and shall seek the advice and assistance of Management in dealing with any augmented work undertaken or conditions outwith the scope of the Winter Service Plan.

2. Working Arrangements

2.1 Operating period

The winter operating period will run from October to April each year.

The core period for continual monitoring will run from early November until Late March. Additional support staff and assistance from other services will run from mid-November until late March, the exact dates will be as detailed below, these dates are subject to change depending on the forecast weather conditions.

2.2 <u>Standby Service – 12/11/2018 to 18/03/2019</u>

A weekly duty rota for drivers and plant operators for both the standby service and for the early morning patrols will be prepared to ensure that all specialist Winter Service vehicles can be manned on a twenty-four hour, seven days a week basis in accordance with the Winter Service Plan.

Specialist Winter Service vehicles will be stationed at appropriate depots for immediate use outwith normal working hours. The vehicles will be loaded with neat salt and drivers will be contactable to receive instructions from the Superintendent. A Superintendent will be available to receive telephone calls from the Police or other responsible Officers of the Council, assess road conditions and initiate emergency actions.

On receipt of an emergency call, the Superintendent will assess the situation and, if necessary, will call out the standby crews to treat roads as required, he may at his discretion, alert other Superintendents, as it may be necessary to call out additional drivers and vehicles.

The Superintendents will advise the Night Attendant or the Duty Officer what resources are deployed and the route/areas being treated to allow the Council's web site to be updated.

The standby drivers will report to the Superintendent the road conditions at the area of the particular hazard and in the area generally. The Superintendent will log the telephone call seeking assistance together with the details of any action taken in response to it and any action by way of treating other locations so that there is a permanent record, for inspection, of the extent of Winter Service operations carried out.

2.3 **Early Morning Patrols – 12/11/2018 to 18/03/2019**

The specialist Winter Service vehicles will be operated on early morning patrol service during the winter period. Each vehicle will be driven on a prescribed priority route and treatment will be carried out as instructed for the conditions encountered.

The Superintendent will advise the Night Attendant or the Duty Officer what resources are deployed, and the route/areas being treated to allow the Council's web site to be updated.

Special attention will be given to those locations, which are designated as areas of particular hazard; drivers will report the road conditions on their prescribed route to the Superintendent/Night Attendant both during and on completion of their patrols.

Additionally, the Superintendents may at their discretion, if adverse weather conditions are expected, detail additional operatives to make themselves available for standby duties/early action.

2.4 Service Within Working Hour

2.4.1 If road or weather conditions warrant it, Winter Service operations utilising the specialist vehicles will continue during the course of the working day. In addition to the specialist vehicles, the Superintendents can instruct the use of the Councils normal heavy goods vehicles on Winter Service operations. The vehicles will be fitted with snowploughs and/or gritter bodies according to the road conditions.

The Superintendents will advise the Night Attendant or the Duty Officer what resources are deployed, and the route/areas being treated to allow the Council's web site to be updated.

2.4.2 Daytime 8.00 a.m. - 4.00 p.m. Monday - Friday

The ice detection equipment will be monitored by the Road Services staff. When a change in conditions is displayed at any of the ice detection locations in his area, the Road Operations Manager or his staff will advise the Superintendents who, taking account of all factors known to him, will dispatch a gritting vehicle to inspect and treat conditions at the location as necessary and thereafter proceed to such other locations the Superintendents considers may require treatment.

2.5 Service Outwith Normal Working Hours 03/11/2018 to 16/03/2019

2.5.1 Response will provide an emergency all night service and specialist Winter Service vehicles will be ready for immediate use throughout the winter season.

The vehicles will be loaded with neat salt and drivers will be in attendance at the depot. In addition to the drivers the depot will be manned by a Duty Night Attendant who will receive telephone calls from the Met Office, Police or other responsible Officers of the Council initiating emergency action.

The Duty Officer will continue to monitor the ice detection equipment and forecast and will remain the point of contact for Winter Service along with the Duty Superintendent until the Night Attendant commences work at 20:30.

On receipt of an emergency call, the Duty Night Attendant will despatch a driver to investigate and, if necessary, treat the road surface. Immediately after the driver has dealt with the specific complaint, he will travel to those locations designated as areas of particular hazard in the vicinity of the locus of the complaint and, if necessary, treat the road surface at these locations. He will report to the Duty Night Attendant the road conditions at the areas of particular hazard and in the area generally. The Duty Night

Attendant will log the telephone call seeking assistance together with the details of any locations so that there is a permanent record for inspection by the Duty Superintendent of the extent of Winter Service operations carried out during the night.

Should it appear to the Duty Night Attendant from the number of telephone calls received requesting assistance or from the reports received from drivers that the road conditions are so bad as to require the deployment of more resources than provided by the all night service, he will immediately telephone the Duty Superintendent advising him of the conditions so that the Duty Superintendent may, at his discretion, instruct the call out of additional drivers and vehicles.

- 2.5.2 When an adverse change of conditions is displayed at any of the ice detection locations in the City, the Night Attendant will dispatch a loaded gritter to inspect and treat conditions at the location as necessary and thereafter, taking account of all other known factors, proceed to treat as necessary areas of special hazard. The Duty Night Attendant will log the change in road temperatures together with his actions and details of any locations actioned so that there is a permanent record for inspection by the Duty Superintendent of the extent of Winter Service operations carried out during the night.
- 2.5.3 Over Christmas and New Year a stand by crew will only be available to treat priority 1 carriageways and footways on the days of the 25 26 December and 31 December 2 January inclusive.

2.6 <u>Footway Treatment</u>

The Priority 1 footways for treatment are listed in Appendix C (e).

The standard practice for treating footways will be to use neat salt although discretion is given to Superintendents to use salt/grit mixtures when weather conditions warrant it, and especially when dealing with ice that has formed as a result of the re-freezing of partially thawed snow as per Appendix D, (d)

In clearing a passage for pedestrians, any cleared snow will be left piled at the edge of the footway until resources are available for its removal. Special attention will be given at pedestrian crossings, road junctions where large number of pedestrians cross, bus stops etc where gaps should be left at these locations to allow pedestrians to cross without having to negotiate the heaped snow.

Special care will also be taken to ensure that street gullies are not blocked by piled snow, as this would prevent water draining away at the onset of a thaw.

2.7 Footway Readiness

Recourses for footway treatment are to be allocated on a three-level readiness basis. The readiness level shall be implemented and recorded following discussions between the duty officer and the Roads Operations/Roads Infrastructure Manager.

Green:

Forecast conditions to be below zero for up to 5 consecutive days.

City centre routes to be check by Superintendent each morning with treatment undertaken if required, no other routes to be treated.

Amber:

Forecast conditions of prolonged freezing extending beyond 5 days, snowfall or extensive ice forecast. Frontline staff to be made available for prolonged treatment, assistance from other departments requested as required. If other departments assistance required, they are to be notified when Amber condition is identified.

Grit bins and Community Bins, checked and filled in advance, Footway plant and equipment checked for readiness in advance, Priority 1 Footways and sheltered housing areas considered for treatment.

Additional back office staff requirement to respond to public enquiries.

Red:

Forecast conditions as Amber but with continued heavy snowfall or extreme ice in forecast resulting in a risk to infrastructure.

Action as per Amber, additionally external and supplementary resources from other departments to be mobilised as available.

Treatment to be extended to area footway treatment beyond Priority 1 routes as resources allow.

Full reporting system to be implemented, availability of resources to respond to repair to infrastructure to assessed. Additional back office staff requirement to respond to public enquiries regarding infrastructure damage after thaw develops.

2.8 Thawing

During the thaw, the first responsibility of the Superintendents will be to ensure, as far as practicable, that road channels and verges are cleared in the area of street gullies and cross grips to allow melted snow to drain away. Only after the channels and cross grips have been cleared should an attempt be made to clear the stockpiled snow.

2.9 Lifting of Snow from Roads etc

In extreme conditions after heavy snow falls it may be necessary to lift snow from streets. Snow cleared from the road will only be uplifted in exceptional circumstances, e.g. where existing piled snow is preventing further snow clearance from the road.

3. Information

3.1 Communications

<u>During Office Hours</u> - Mondays to Fridays inclusive, telephone messages will be received by the contact centre.

Outwith Office Hours - Telephone messages to be passed to the Duty Superintendents (Daytime) or the Duty Officer as per rota from 16:00 to 20:30 (Monday to Friday) from 08:00 to 20:30 (Saturday, Sunday & Public Holidays) and to the Night Attendant at West Tullos Depot from 20:30 to 08:00.

3.2 Weather Forecasts

The Council's meteorological advisors will provide information for the duration of the winter period including:-

- a) General Forecasts for the following 36 hours
- b) 2-5-day outlook forecast
- c) Air and road temperatures and a predicted forecast graph

During Office Hours

The Forecast data information is assessed and entered into an advice sheet prepared by the Duty Officer in conjunction with the Duty Superintendent and if required submitted to the Roads Operations Manager for discussion and a decision made as to the required treatment. Roads Operations Manager to be advised of daily action.

The information will also be passed to the Standby Superintendent by the Duty Officer.

Outwith Office Hours and Holidays

It will be the responsibility of the Duty Officer to obtain the weather forecast, consult Superintendent and confirm action. Superintendent to contact the Night Attendant at West Tullos Depot each day shortly after 20:30 hours to appraise him of the situation. If there is a forecast of severe weather the Standby Superintendent should also be informed. Roads Operations Manager to be advised of daily action.

Emergency Weather Forecasts

The Council's meteorological advisors will inform the Duty Officer from 08:00 to 20:30 or the Night Attendant from 20:30 to 08:00 to advise on changes in forecast information. Additional phone numbers should be supplied to the Met Office in case there is difficulty in contacting the Duty Officer or the Night Attendant. The Duty Officer or the night Attendant will advise the Duty Superintendent of changes to the weather forecast which may alter the proposed winter treatment.

3.3 Advice Sheets

3.3.1 Winter Maintenance Advice Sheets

Forecast information and the Winter Maintenance Advice Sheet will be used to assist in decision making. In the absence of any indication or information to the contrary the advice recommendation given on the Advice Sheets should be followed.

3.3.2 Interpretation of Advice Sheets

The Advice Sheets recommendations may not be followed if:

- (a) A clear emergency exists which requires immediate action
- (b) The Road Operations Manager advises differently.
- (c) The actual weather (e.g. as measured by Ice Outstations) is at variance from the forecast such that action taken would need to be significantly different from that advised, e.g. the stepping up of salting from 10 to 20 g/sq. m or equivalent in mixtures, or if the forecast of snow turns out to be rain then reducing or changing the treatment. In this case the meteorological advisors should be contacted, advised of actual weather conditions and new forecast information requested.

3.3.3 Variation from Advice Sheets

A record will be kept of all variations of action from the advised action on the advice sheet. The reason for such a variation will be noted on the advice sheet for record purposes.

3.3.4 General Note

The Council's meteorological advisers are available 24 hours a day and can be contacted at any time by superintendents or staff for advice. They are contracted to supply new weather information when a significant change is forecast and to give advice over the telephone on all meteorological matters. If in any doubt about the actual weather and/or the forecast the rule is contact the meteorological advisers.

3.4 Road Condition Reports

In order that the Roads Infrastructure Manager can be kept advised of the road conditions throughout the City, reports on road conditions will be passed as follows.

The Road Operations Manager will arrange for the daily road condition report and the advice sheet to be completed not later than 0800 and 1600 hours on days of continued action to be recorded on the standard pro-forma and for the information to be forwarded to Roads Infrastructure Manager.

4. Plant

4.1 Availability and Maintenance of Vehicles, Plant etc

All specialist Winter Service vehicles, plant and footway snowploughs require to be maintained and overhauled prior to the commencement of Winter Service operations. All items of Winter Service equipment overhauled shall be on station not later than the end of September in order that calibration works can be carried out to all plant at the same time.

All footway snowploughs shall be on station by the second week in October. All dedicated gritting vehicles shall be calibrated by end of October and signed calibration sheets filed for future reference.

All vehicles, plant and equipment shall be checked to ensure they are fully operational on return to station.

A stand by mechanic will be available at all times during the winter period to carry out routine maintenance and minor repairs allocated to him. Where applicable the six week safety checks on vehicles should be carried out during early morning operations when no action is being carried out, any major defect found during this period will require the vehicle to be taken to Kittybrewster for repair. Fleet Services to provide the Road Operations Manager and the Superintendents with a rota of the mechanics.

4.2 Operation of Vehicles

While it is acknowledged that the drivers of vehicles engaged in Winter Service operations do not operate under normal circumstances, it is nevertheless the driver's duty to take every precaution to avoid accidents.

Once the vehicles are on station and Winter Service operations have begun, it will be the duty of the driver and/or operator for each vehicle and item of plant to check his vehicle daily before starting duty. The inspection shall cover the fuel, oil and water levels and the lights, brakes and tyres, together with all bolts and couplings fixing ploughs, spinners and safety rails.

Any fault revealed by the check shall be immediately reported to the Superintendent who will call out the stand by mechanic to determine whether or not the vehicle is in a fit state to continue with Winter Service operations or whether the vehicle should be withdrawn from service for immediate repair at the Depot or transported to Kittybrewster. In the latter case the Superintendent, in consultation with the Repair Depot Supervisor, shall decide whether or not, depending on the length of time that any repair is likely to take, an alternative vehicle should be made available as a replacement for the unserviceable vehicle.

The amber flashing lights fitted to each vehicle must be kept in operation during gritting and snow clearing operations. In poor visibility, the vehicle's horn should be sounded as necessary, but its use should be kept to a minimum consistent with safe driving and the need to cause as little inconvenience as is possible to residents, particularly during early morning and late night working. Any vehicle engaged in Winter Service operations must

not be driven at speeds in excess of 20 mph in urban areas or where traffic is heavy, the speed should be further reduced to ensure the flying grit/sand does not injure pedestrians or damage other vehicles on the road. A "SPREADING" sign is to be fitted and kept clean on rear of gritting and large snow plough vehicles.

Snow ploughs and scrapers must always be raised above the road surface when passing over sections of road which are clear of snow and ice and drivers should constantly be on the lookout for manhole covers, street tobies or other obstructions such as traffic calming measures which may be standing proud of the road surface.

It is the responsibility of the driver of any vehicle to ensure that the hopper or the platform of this vehicle is not left loaded with salt or salt/sand mixture for more than forty-eight hours. If the salt or salt/sand mixture has not been used for this period of time, the hopper and/or platform should be emptied and immediately refilled with fresh material.

If the vehicle has been driven during heavy rain, the driver should check the salt or salt/sand mixture to ensure that caking has not taken place. If it has, the vehicle should be emptied and immediately refilled with fresh material.

Where mobile phone communication is used the driver must not under any circumstance answer the phone until parked safely and the engine is turned off as per the Council's mobile phone policy. Drivers will be issued with a radio for communication purposes.

5. <u>Materials and Equipment</u>

5.1 Salt and Salt/Sand Stocks

Salt

Stocks of salt will be built up to the predetermined levels indicated in the contract requirements. It will be the responsibility of the salt supplier to maintain the agreed stock levels at all storage points as per the predetermined schedule. It will be the responsibility of the Duty Superintendent and Duty Officer to make a daily update on salt usage and a weekly return of salt receipts and issues to the Road Operation Manager.

Salt/Sand mixtures

Sand will be kept available to be mixed with salt in accordance with the instructions of the Superintendent for that area and will generally consist of one parts sand to one part salt by weight but this mixture may be varied at the discretion of the Superintendents depending upon road and weather conditions.

5.2 Use of Materials

In general, neat salt will be used on all roads. The use of neat salt or of the salt/sand mixture may be varied at the discretion of the Superintendent depending upon road and weather conditions.

It shall be the responsibility of the Superintendents to ensure that all salt stores are allocated a loading shovel and that the stores are manned continuously during periods of extreme weather or when general Winter Service operations are being carried out.

During the spreading of salt, especially in built-up areas, care must be taken to keep salt clear of trees, hedges, shrubs, lawns etc.

Should hard packed snow and ice occur, a trial will be carried out using Ecothaw de-icer and a comparison made with roads and footways treated with salt.

6. Assistance from Third Parties

6.1 <u>Local Authority Services</u>

Other Local Authority Services may undertake the gritting/salting, and/or snow clearing of footways and/or roads in designated areas, by arrangement agreed prior to the onset of winter.

6.2 Education

Winter Service within the City's educational establishments are dealt with under separate arrangements within the Council

6.3 <u>Parks, Cemetery accesses, Crematoria access, Sheltered Housing accesses,</u> <u>Unadopted Footways through Council Housing Areas and Other Council Property</u> accesses

Priority Roads and Footways in these areas will be treated under contract by other Council Services. Operations will normally be carried out during the standard working day and will be co-ordinated by Operations Roads they will be informed of the prevailing conditions and whether they are required to carry out winter service operations outside normal working hours. A standby rota will be produced to cover weekend operations. A list of priority locations are detailed in Appendix C (g).

7. Road Closures

7.1 Road Closures

The closure of a road under severe winter conditions can only be authorised by the Police but operationally the signs could equally well be put out by the Police or Roads Staff. It is absolutely essential that there is consultation and co-operation between the two bodies in the issue of the signs e.g. for a closure instigated by the Police during the night, the Duty be informed as soon as possible and where the closure initiative came from the Roads Staff that the Police be contacted immediately. Duty Officer will be informed by 08:00 of any road closures and openings. If a road is closed signing should be maintained until the road is reopened. Roads Operations Manager or a duty representative will be required to inform Roadworks Coordination and Communications of any road closures.

8 Road Treatment Logs

A "Road Treatment Log" will be kept by each gritter driver to show the times treatment is necessary. The log will also show the road conditions encountered and the approximate tonnage of the material used. These sheets are to be completed daily by the gritter drivers and returned to the Superintendents each day.

ABERDEEN CITY COUNCIL

OPERATIONAL PLAN APPENDICES

A: EMERGENCY CONTACTS

B: DUTIES OF PERSONNEL

GRITTING/TREATMENT

C: GRITTING ROUTES

D: TREATMENT AND STOCK

GUIDANCE

OPERATIONAL PLAN APPENDIX A - EMERGENCY CONTACTS

Office Hours

Call Centre Number 03000 200292

Out with Office Hours

<u>Depots</u> West Tullos 01224 241500

FOR WINTER "CALL-OUTS" PLEASE NOTE

| 24 hours / 7 days | Call Centre Number | 03000 200292 |
|---------------------------|--|------------------------------|
| Duty Staff | | |
| 8:00 a.m 4:00 p.m. | West Tullos Depot Monday to Friday (inclusive) | 01224 241500 |
| Other Emergency Contact | <u>s</u> | |
| Aberdeen City Council | Public Transport Unit | 03000 200292 |
| (8.30 am - 5.00 p.m.) | Building and Works Dept Trades Emergency Service | 03000 200292 |
| | Corporate Communications | 03000 200291 |
| | Roadworks Coordination | 03000 200292 |
| | Urban Traffic Control (Traffic Lights) | 03000 200292 |
| Ambulance Service | Duty Officer Emergency Supervisor | 01224812200 01463 667595 |
| Automobile Association | Break Down Service | 0800 887766 |
| Roadwatch | (From mobiles) 09068884322 | 08457 87766 |
| (From mobiles) | 84322 | |
| BEAR Scotland | Freephone: | 0800 5871107 |
| | Control Room | 0845 4130199 |
| Balfour Beatty | Office hours (Ellon Depot) Winter Service Duty Officer | TBC TBC |
| First Aberdeen | (7.00 am - midnight)Duty Controller (Midnight - 7.00 am)Night Foreman | 01224-219240 01224-219156 |
| Scottish Fire & Rescue | | TBCHarbour |
| Board | 01224 592 | 2571 |
| Lighting Section | Call out/Contact Service Centre | 03000 200292 |
| Met Desk. | Forecasters | TBC |
| Police Scotland | Service Centre | 101 |
| Police Scotland | Regional Centre Emergencies | TBC |
| Network Rail Scottish Con | trol | 0141 3352020 |
| Network Rail Scottish Con | trol Emergencies | 03457 114141 |

| Scottish Hydro Electric | Emergencies (North of Scotland) | 0800 300999 |
|-------------------------|---------------------------------|-----------------------------|
| Scottish Water | | 0845 6008855 |
| Stagecoach Bluebird | Office Hours | 01224 591381 |
| | Outwith Office Hours Or | 01224 587256 01224584677 |
| Vaisala Help Desk | | TBC. |

OPERATIONAL PLAN APPENDIX B - PERSONNEL 1 - DUTIES OF PERSONNEL

Duties of the Gritter Drivers

1. Duty Period: Monday - Saturday Start 04.45am

Sunday and Public Holidays Start 06.00am

In addition, when on standby during period of duty, make himself available for call-out by request, during emergency.

Maximum duty period will be 11 hours (10 hours driving unless a declared emergency and driver fit to drive).

2. Location: At Depot detailed by Duty Superintendent

3. Communication Radio

4. Responsible to the Duty Superintendent

5. Responsibilities

- a) To carry out a First Use Vehicle Check.
- b) Drive gritting vehicle along route as detailed on satellite navigation system or to verbal instructions of Duty Superintendent/Night Attendant, ensuring that carriageways are adequately gritted for the conditions prevailing.
- c) Maintain communication with the Duty Superintendent/Night Attendant advising when treatment of a route/area is started and completed.
 - 1) Provide an update of road and footway conditions when requested
 - 2) Advise duty Superintendent/Night Attendant when required to deviate from programmed route.
- d) During actual gritting and snow clearing operations, the amber flashing beacon must be used. Speeds in excess of 20mph (32kph) are prohibited.
- e) In the event of a breakdown of his vehicle or any incident, which prevents him carrying out his allocated duty, he will advise the Duty Superintendent/Night Attendant by radio and await further instructions.
- f) Complete daily winter maintenance treatment log and other such relevant documentation and pass to the Duty Superintendent/Night Attendant by the end of the next working day
- g) To wash down gritter/spinner after use, clean and tidy the cab and top up fuel.

Duties of the Response Drivers

- 1. Duty period: 04:00 to 15:30 & 15:30 to 03:00
- 2. Location: Tullos Depot and work locations detailed by Superintendent
- 3. Communication Radio
- 4. Responsible to the Duty Superintendent
- 5. Responsibilities
 - a) Complete a First Use Vehicle Check before leaving the depot.
 - b) While he may be involved in routine maintenance work, he must be prepared to react immediately to a call-out request which will be initiated by a radio instruction from the Night Attendant/Duty Superintendent.
 - c) On receipt of a call-out he will proceed to location and deal with the condition, maintaining communication with the Night Attendant/Duty Superintendent advising him when the matter has been dealt with.
 - d) Drive gritting vehicle along route as detailed on satellite navigation system or to verbal instructions of Duty Superintendent, ensuring that carriageways are adequately gritted for the conditions prevailing.
 - e) Relay information back to the Night Attendant/Duty Superintendent on any action taken at the locations, the state of the roads and any action taken at any other locations.
 - f) Deal with all requests from the Night Attendant/Duty Superintendent until return to Depot when he will again resume his other allocated duties.
 - 1) Provide an update of road and footway conditions when requested.
 - 2) Advise Duty Superintendent/Night Attendant when required to deviate from programmed route.
 - g) In the event of a general call-out he will operate in the location advised by the Duty Superintendent/Night Attendant.
 - h) In the event of a breakdown of his vehicle or any incident, which prevents him, carrying out this allotted duty, he will advise the Night Attendant/Duty Superintendent by radio and await further instructions.
 - i) Complete daily winter maintenance treatment log and other such relevant documentation and pass to the Duty Superintendent/Night Attendant at the end of the shift.
 - j) To wash down gritter/spinner after use and clean and tidy the cab and top up of fluids also required.
 - Duties of the Duty Superintendent/Standby Superintendent

1. Duty Period: Duty Superintendent 04:45 – 15:45

06:00 - 16:00 Sundays + Public Holidays

Standby Superintendent 15:45 – 04:45

15:45 – 06:00 Sundays + Public Holidays

2. Location: West Tullos Depot

3. <u>Communication</u>

The Superintendent will be equipped with a mobile phone and a radio for communication.

4. Responsible to the Roads Operations Manager, Operations, Roads.

5. Responsibilities

Overall responsibility for the day to day operations of the Winter Service function.

- On receipt of Winter Maintenance Advice Sheet, initiate appropriate action, utilising Night Attendant as necessary, including advising drivers on spread rates to be applied.
- b) Ensure that gritters, lorries, plant and ancillary equipment are maintained in operational condition and located at the appropriate Depots and that adequate supplies of salt and sand are available.
- c) Ensure that drivers and operators are conversant with operational details.
- d) In the event of severe conditions, which exhaust the capacity of his resources, advise the Road Operations Manager of the short fall in resources.
- e) To react to outside agency's requests and advise them, as necessary, when adverse conditions require their action and render support in plant and labour resources as necessary. Discuss with Roads Operations Manager or Duty Officer where this compromises treatment in the road network.
- f) In the event of the breakdown of a vehicle, report defect to the appropriate workshop.
- g) Complete a daily log of vehicles and plant breakdowns.
- h) To ensure all call-out requests are logged in Log Book indicating time received, time accident dealt with and by which vehicle.
- i) Ensure that drivers logs are maintained, and to ensure that the treatment and spread rates comply with his instruction on a daily or weekly basis.

- j) To advise the Road Operations Manager or the Duty Officer each day not later than 07:00 on the road conditions prevailing and the action taken and to compile a morning stat report each day no later than 07:00 (08:00 on Sundays and public holidays).
- k) If continuing action maintain and complete Continuing Action Form
- During all operations the Superintendent must keep either the Night Attendant or the Duty Officer advised when action is taken on each route/area and also when action ceases. Total resources deployed on each route/area must also be communicated. It is vital that this information is accurate and given timeously in order that the Council's website reflects exactly the action being undertaken on the ground.

Duties of the Duty Officer

- 1. Duty Period: 1 week commencing with issue of midday forecast on Monday morning to completion of morning treatment the following Monday midday
- 2. Location: Duty Officer's Office or Residence as necessary.

3. Communication

The Duty Officer will be equipped with a mobile phone and radio for communication.

- 4. Responsible to the Road Operations Manager, CHI
- 5. Responsibilities

Responsibility for interpreting the daily forecast to produce the daily Winter Maintenance Advice Sheet and ensuring that relevant parties are informed of the proposed action.

- a) On receipt of weather forecast, and telephone contact with Met Office if necessary, decide on appropriate winter treatment and spread rates for the coming afternoon, night shift and following morning. Check updated forecast at 18:00 and amend action plan as necessary with stand by superintendent.
- b) Complete Winter Maintenance Advice Sheet and issue to Duty Superintendent. Duty Superintendent to be contacted by telephone/radio if not available in West Tullos Depot.
- c) Issue Winter Maintenance Advice Sheet to night attendant.
- d) As necessary issue Winter Maintenance Advice Sheet to appropriate parties.
- e) Update Weather Conditions on Council Website on a daily basis.
- f) Update Council Website at the start of each treatment and on completion of each treatment.
- g) Complete the Winter Maintenance Advice Sheet after the following morning's treatment, detailing any change from the proposed action and recording actual temperatures and conditions from the previous 24 hours.
- h) Advise Roads Operations Manager of salt tonnage used on a daily basis.
- i) Consult Roads Operations Manager concerning current salt stock levels and the impact this may have on limiting proposed winter action.

Duties of the Night Attendant

1. Duty period: 8:30 pm to 8.00am

2. Location: West Tullos Depot

3. Communication Telephone and radio

4. Responsible to Duty Superintendent/Stand-by Superintendent/Superintendent

5. Responsibilities

- a) To accept by telephone, all call-out requests from Police Scotland
- b) To log all calls in Log Book indicating time received, time incident dealt with and by which vehicle.
- c) To dispatch drivers, who are in attendance to the requested locations.
- d) In the event of demand significantly exceeding capability, telephone Standby/Duty Superintendent who will assume control and instruct as necessary.
- e) In the event of a report that a vehicle is out of commission,
 - 1) he will use alternative standby vehicle or driver if available
 - 2) if not available, advise Stand-by/Duty Superintendent who will assume responsibility.
- f) Ensure that he receives information and immediately updates the Council's website to reflect the current position on the ground
- g) Monitor weather forecast and graphs and recording actions taken
- h) From 06:30 compile morning status report by 07:00 and distribute to Roads Operations Manager, Duty Superintendent and Duty Officer.

<u>Duties of the Road Operations Manager</u>

1. Duty period: Flexible.

2. Location: Office/Residence.

3. Communication: Telephone and radio

4. Responsible to Roads Infrastructure Manager, Operations, Roads.

5. Responsibilities

- a) Wholly responsible for ensuring that the Superintendents and Operatives are conversant with Winter Maintenance Operations and shall provide the Superintendents with the physical resources to enable them to carry out the objectives and meet the standard set.
- b) Shall have the authority to utilise all the resources of his area, however, deployed on normal works, in the event of extreme conditions.
- c) During working hours, responsible for ensuring the Superintendents are advised of weather forecasts.
- d) Ensuring that stocks of sand and salt are maintained at a sufficient level during the operation period.
- e) Responsible for checking that all Winter Service equipment is overhauled and on station by the end of September each year and reporting omissions, if any.
- f) Responsible for preparing a duty rota for Superintendent and Operatives to ensure that adequate supervision for day to day operations is provided.
- g) Ensure compliance with the Specification Document.

OPERATIONAL PLAN APPENDIX C - GRITTING ROUTES

(a) **NIGHT SHIFT ROUTES**

The following routes are made up of known local spots where icing problems can appear, even when general conditions would not indicate so. The city has been split into two - a north route and a south route.

North Route

| STREET | ТО | DIRECTION |
|-----------------------------|--|-----------------------------------|
| Depot | Craigshaw Drive | Turn Right |
| Craigshaw Drive | Abbotswell Road | Turn Left |
| Abbotswell Road | West Tullos Road | Turn Right |
| West Tullos Road | King George VI Bridge | Turn Right |
| King George VI Bridge | Great Southern Road | Straight On |
| Great Southern Road | Holburn Street | Turn Left |
| Holburn Street | South Anderson Drive | Turn Right |
| South Anderson Drive | Great Western Road | Proceed |
| Great Western Road | North Deeside Road | Turn Left |
| North Deeside Road | Milltimber Brae | Complete & Return |
| North Deeside Road | Malcolm Road | Turn Right |
| Malcolm Road | Johnston Gardens | Turn Right & Turn at Bus Stop |
| Johnston Gardens | Malcolm Road | Turn Right |
| Malcolm Road | Carnie Roundabout | Turn Right |
| Carnie Roundabout | Six Mile Roundabout | Proceed |
| Six Mile Roundabout | Queen's Road Roundabout | Complete & Return |
| Six Mile Roundabout | Kingswells Road | Turn Left |
| Kingswells/ Newhills Road | | Turn Left |
| Newhills Road | Forrit Brae | Turn Right |
| Forrit Brae | A96 | Turn Left |
| A96 | Newhills Road | Turn Left |
| Newhills Road | Kepplestone Road | Straight On |
| Kepplestone Road | Old/Inverurie Road | Turn Left |
| Inverurie Road | A96 | Turn Left |
| A96 | Dyce Drive | Turn Right |
| Dyce Drive | Airport Road | Turn Right |
| Airport Road | A96 Roundabout | Turn round and back to Dyce Drive |
| Dyce Drive | Pitmedden Road | Straight On |
| Pitmedden Road | Victoria Street | Turn Right |
| Victoria Street | Riverview Drive | Turn Left |
| Riverview Drive | Old Meldrum Road - Boundary | Turn Around |
| l - | I control of the cont | |
| Boundary | Victoria Street | Straight On |
| Boundary Victoria Street | Victoria Street Stoneywood Road | Straight On Turn Right |
| - | | |
| Victoria Street | Stoneywood Road | Turn Right |

| Newhills/Kingswells Road | Cults/Kingswells Road | Straight On |
|--------------------------|-----------------------|-------------|
| Cults/Kingswells Road | Kirk Brae | Turn Right |
| Kirk Brae | North Deeside Road | Turn Right |
| North Deeside Road | Baillieswells Road | Turn Right |
| Baillieswells Road | Blacktop | Turn Right |
| Blacktop Road | Countesswells Road | Turn Left |
| Countesswells Road | Seafield Road | Straight On |
| Seafield Road | Anderson Drive | Finish |

South Route

| STREET | ТО | DIRECTION |
|------------------------|---|------------------------|
| Depot | Wellington Road | Turn Right |
| Wellington Road | Charleston Flyover | Turn Around |
| Charleston Flyover | Wellington Road | Straight On |
| Wellington Road | Queen Elizabeth Bridge | Turn Left |
| Queen Elizabeth Bridge | North Esplanade West | Turn Right |
| North Esplanade West | Market Street | Turn Left |
| Market Street | Union Street | Turn Right |
| Union Street | King Street | Straight On |
| King Street | Ellon Road | Straight On |
| Ellon Road | Parkway Roundabout | Straight On |
| Parkway Roundabout | Parkway Road East | Turn Right |
| Parkway Road East | , | Complete & Turn Around |
| Parkway Road East | Parkway | Straight On |
| Parkway | Woodside Road | Turn Right |
| Woodside Road | Denmore Road | Turn Right |
| Denmore Road | B999 Tarves Road | Turn Left |
| B999 Tarves Road | Gourdieburn | Turn Round |
| B999 Tarves Road | Denmore Road | Turn Right |
| Denmore Road | Greenbrae Drive | Turn Right |
| Greenbrae Drive | Dubford Road | Turn Left |
| Dubford Road | Jesmond Drive | Left & Right at Lights |
| Jesmond Drive | Bus Terminus & Return | |
| Jesmond Drive | Scotstown Road | Turn Left |
| Scotstown Road | Whitestripes Road | Turn Left |
| Whitestripes Road | Whitestripes Avenue | Turn Right |
| Whitestripes Avenue | Tillydrone Rd/Avenue | Straight On |
| Tillydrone Rd/Avenue | St Machar Road | Turn Right |
| St Machar Road | Great Northern Road | Turn Round |
| St Machar Road | Tillydrone Avenue | Turn Left |
| Tillydrone Rd/Avenue | Fairview Street | Turn Left |
| Fairview Street | Laurel Drive | Turn Right |
| Laurel Drive | Parkway | Turn Left |
| Parkway | Muggiemoss Road | Turn Right |
| Muggiemoss Road | Old Meldrum Road | Turn Right |
| Old Meldrum Road | Bankhead Road | Turn Left |
| Bankhead Road | Bankhead Avenue | Turn Left |
| Bankhead Avenue | Inverurie Road A96 | Turn Left |
| Inverurie Road A96 | Great Northern Road | Straight On |
| Great Northern Road | Powis Terrace | Straight On |
| Powis Terrace | Powis Place | Straight On |
| Powis Place | Causewayend | Turn Around |
| Causewayend | Powis Place | Straight On |
| Powis Place | Powis Terrace | Straight On |
| Powis Terrace | Great Northern Road | Straight On |
| Great Northern Road | Leslie Road | Turn Left |
| | | |

| Leslie Road | Hilton Street | Straight On |
|------------------------|------------------------|-------------|
| Hilton Street | Rosehill Drive | Turn Right |
| Rosehill Drive | Provost Rust Drive | Straight On |
| Provost Rust Drive | Springhill Road | Turn left |
| Springhill Road | Provost Fraser Drive | Turn left |
| Provost Fraser Drive | Cairncry Road | Straight On |
| Cairncry Road | Westburn Drive | Turn Right |
| Westburn Drive | Westburn Road | Turn Left |
| Westburn Road | Mounthooly Roundabout | Turn Around |
| Mounthooly Roundabout | Westburn Road | Straight On |
| Westburn Road | Lang Stracht | Straight On |
| Lang Stracht | Westburn Road | Straight On |
| Westburn Road | Westburn Drive | Turn Left |
| Westburn Drive | Ashgrove Road West | Turn Left |
| Ashgrove Road West | North Anderson Drive | Turn Left |
| North Anderson Drive | Midstocket | Turn Left |
| Midstocket | Beechgrove Terrace | Turn Right |
| Beechgrove Terrace | Kings Gate | Straight On |
| Kings Gate | Anderson Drive | Straight On |
| Anderson Drive | Queens Road | Turn Left |
| Queens Road | Carden Place | Straight On |
| Carden Place | Skene Street | Straight On |
| Skene Street | Woolmanhill | Straight On |
| Woolmanhill | Skene Square | Turn Left |
| Skene Square | Denburn | Turn Around |
| Denburn | Guild Street | Straight On |
| Guild Street | Market Street | Turn Right |
| Market Street | North Esplanade West | Turn Right |
| North Esplanade West | Queen Elizabeth Bridge | Turn Left |
| Queen Elizabeth Bridge | Wellington Road | Turn Right |
| Wellington Road | Craigshaw Drive | Finish |

(b) **GENERAL GRITTING ROUTES**

The following described routes (numbered 1 - 10) cover all priority routes within the City.

Route 10A is to be treated as a standby route.

Within these routes, priority 1 roads and priority 2 roads are identified separately.

Where elements of priority 2 roads are listed within the priority 1 section, this is to retain the efficiency of the run. In these instances, the priority 2 roads should be included as part of the overall route. However, where heavy treatment is required and snow clearing is being effected, the priority 2 element should be omitted to allow completion of priority 1 routes within the target times.

Throughout, roads, which are shown in bold type are roads to be treated. Roads, which are shown in italics type, are not to be treated (i.e. dead running between).

SUMMARY OF ROUTES

| ROUTE | GENERAL LOCATION |
|-----------|--|
| Route 1 | Mastrick / Northfield |
| Route 2 | Kincorth / Garthdee / Ruthrieston / Mannofield / Holburn |
| Route 3 | Ferryhill / Union Street / Harbour / Beach |
| Route 4 | Torry / Cove |
| Route 5 | City Centre / Tillydrone / Hilton |
| Route 6 | Denburn / Ashgrove / Westburn / Rosemount / George Street Area |
| Route 7 | Bucksburn / Dyce |
| Route 8 | Danestone / Bridge of Don |
| Route 9 | Bucksburn / Kingswells / Lang Stracht / Clinterty |
| Route 10 | Cults / Culter |
| Route 10A | Cults / Culter Bus Routes |

= TRAFFIC CALMING STREET DIRECTION TO Lang Stracht Westbound Springhill Rd Turn Right Springhill Rd **Provost Rust Dr Turn Left Bonnyview Dr Bus Terminus** Turn Round **Provost Rust Dr** Manor Ave **Turn Left** Manor Ave North Anderson Dr Turn Left North Anderson Dr Auchmill Rd Turn Left Auchmill Rd Manor Dr Turn Left **Manor Dr** Logie PI Turn Left Logie PI Manor Ave (via Manor Ter) Turn Right **Manor Ave Provost Rust Dr Turn Left** Provost Rust Dr Smithfield Drive Turn Left Turn Round **Fairlie Street** Provost Rust Dr Turn Left Provost Rust Dr North Anderson Dr Turn Round Provost Rust Dr Granitehill Rd Turn Left Granitehill Rd **Quarry Rd** Turn Right Quarry Rd Byron Sq Turn Left Turn Left Byron Sq Complete Byron Ave Brebner Terr Turn Right Davidson Gdns **Brebner Terr** Straight On Davidson Gdns Terminus Howes Rd Turn Round Davidson Gdns Brebner Terr Straight On **Brebner Terr Byron Ave** Turn Right **Byron Ave Provost Fraser Dr Turn Right** Provost Fraser Dr Turn Round **Springhill Rd Bus Terminus** Provost Fraser Dr North Anderson Dr Turn Round Provost Fraser Dr **Upper Mastrick Way** Turn Left **Upper Mastrick Way** Greenfern Rd Turn Right Greenfern Rd Springhill Rd/+ Terminus Turn Left Springhill Rd Sheddocksley Dr Turn Right Sheddocksley Dr Sheddocksley Rd North End Turn Right Sheddocksley Rd **Sheddocksley Dr Turn Left** Sheddocksley Dr Springhill Rd **Turn Right** Springhill Rd Lang Stracht Turn Right Lang Stracht Skye Rd Turn Right Skye Rd **Arran Ave** Turn Right Arran Ave Lewis Rd **Turn Left** Lewis Rd **Arran Ave Turn Left** Arran Ave Lewis Rd Turn Right

Lang Stracht

Turn Left

Lewis Rd

Route 1 Cont.

| Lang Stracht | Fernhill Dr | Turn Left |
|------------------------------|------------------------------|-------------|
| Fernhill Dr | Greenfern Rd | Turn Right |
| Greenfern Rd | Mastrick Rd | Turn Right |
| Mastrick Rd | North Anderson Dr | Turn Left |
| North Anderson Drive | Provost Fraser Drive | Turn Left |
| Provost Fraser Drive | Kettleshill Crescent | Turn Right |
| Kettlehills Crescent | Deansloch Crescent | Turn Right |
| Deansloch Crescent | Quarry Road | Turn Right |
| Quarry Road | Cummings Park Crescent | Straight On |
| Cummings Park Crescent | Cummings Park Circle | Turn Right |
| Cummings Park Circle | Moir Crescent | Turn Left |
| Moir Crescent | Provost Rust Drive Slip Road | Turn Right |
| Provost Rust Drive Slip Road | Provost Rust Drive | Turn Left |
| Provost Rust Drive | Heathryfold Circle | Turn Right |
| Heathryfold Circle | Complete | |
| Heathryfold Circle | Provost Rust Drive | Turn Left |
| Provost Rust Drive | Granitehill Road | Turn Right |
| Granitehill Road | Marchburn Drive | Turn Right |
| Marchburn Drive | Complete | |
| Marchburn Crescent | Complete | |
| Marchburn Road | Complete | |
| Byron Crescent | Smithyhaugh Road | Turn Left |
| Smithyhaugh Road | Davidson Drive | Turn Left |
| Davidson Drive | Dickson Terrace | Turn Left |
| Dickson Terrace | Springhill Road | Turn Right |
| Springhill Road | Davidson Drive | Turn Right |
| Davidson Drive | Dickson Terrace | Turn Right |
| Dickson Terrace | Springhill Road | Turn Left |
| Springhill Road | Byron Terrace | Turn Right |
| Byron Terrace | Byron Avenue | Turn Right |
| Byron Avenue | Provost Fraser Drive | Turn Left |
| Provost Fraser Drive | Upper Mastrick Way | Turn Right |
| Upper Mastrick Way | Greenfern Road | Turn Right |
| Greenfern Road | Fernhill Drive | Turn Left |
| Fernhill Drive | Arnage Drive | Turn Left |
| Arnage Drive | Mastrick Drive | Turn Right |
| Mastrick Drive | Lang Stracht | Turn Right |
| Lang Stracht | Whitemyres Place | Turn Right |
| Whitemyres Place | Whitemyres Avenue | Turn Left |
| Whitemyres Avenue | Complete | Finish |

| | = TRAFFIC CALMING | |
|--------------------------|---|-------------------------|
| STREET | ТО | DIRECTION |
| Craigshaw Drive | Wellington Road | Turn Left |
| Wellington Road | Abbotswell Road | Turn Left |
| Abbotswell Road | West Tullos Road | Round R/about/Left |
| West Tullos Road | Wellington Road | Round Roundabout |
| West Tullos Road | Redmoss Road | Turn Left |
| Redmoss Road | To Lochside Academy | Turn Around |
| Redmoss Road | West Tullos Road | Turn Left |
| West Tullos Road | Great Southern Road | Round Roundabout |
| Great Southern Road | Leggart Terrace | Straight On |
| Leggart Terrace | City Boundary | Turn Left |
| Deeside Brae | Complete loop via number 31-43 and Return to Leggart Terrace | Turn Right. |
| Leggart Terrace | A90 | Straight on |
| Great Southern Road | George VI Bridge | Turn Left |
| Great Southern Road | Riverside Drive | Turn Round |
| Great Southern Road | West Tullos Road | Turn Left |
| West Tullos Road | Abbotswell Road | Turn Round |
| West Tullos Road | Great Southern Road | Turn Left |
| Provost Watt Drive | Arbroath Way | Turn Around |
| Provost Watt Drive | Great Southern Road | Turn Around R/About |
| Provost Watt Drive | Abbotswell Crescent | Turn Left |
| Abbotswell Crescent | Redmoss Road | Turn at Redmoss |
| Abbotswell Crescent | Arbroath Way | Turn Left |
| Arbroath Way | Cairngorm Drive | Straight On |
| Cairngorm Drive | Cairngorm Road | Straight On |
| Cairngorm Road | A90 | Turn Left |
| A90 | Nigg Way | Turn Left |
| Nigg Way | Gardener Drive | Turn Left |
| Gardener Drive | Faulds Gate | Straight On |
| Faulds Gate | Provost Watt Drive | Turn Left |
| Provost Watt Drive | Abbotswell Drive | Turn Left |
| Abbotswell Drive | Great Southern Road | Turn Left |
| Bridge of Dee Roundabout | Asda Roundabout | Turn Left |
| Asda Roundabout/A90 | Sainsbury Roundabout | Complete Roundabouts |
| Sainsbury Roundabout | Garthdee Road | Straight on |
| Garthdee Road | Pitfodels Station Road | Turn Right |
| Pitfodels Station Road | North Deeside Road | Turn Left |
| North Deeside Road | Westerton Road | Turn Left |
| Westerton Road | Inchgarth Road | Turn Left |
| Inchgarth Road | Auchinyell Road | Turn Left |
| Auchinyell Road | South Anderson Drive | Turn Round |
| Auchinyell Road | Garthdee Road | Turn Left |
| Garthdee Road | Scott Cassie Circle | Turn Right and complete |
| Scott Cassie Circle | Garthdee Road | Turn Right |
| Garthdee Road | South Anderson Drive | Turn Left |
| South Anderson Drive | Broomhill Road | Turn Right |
| Broomhill Road | Holburn Street | Straight On |

| Holburn Street | Great Southern Road | Turn Right |
|--|---|-----------------------|
| Great Southern Road | Riverside Drive | Turn Right |
| Riverside Drive | Riverside Place HGV | Turn Right |
| Riverside Place HGV | Holburn Street | Turn Left |
| Holburn Street | Bridge of Dee R/about | Turn Left |
| HGV Route | Riverside Place HGV | Turn Left |
| Riverside Place HGV | Holburn Street | Turn Right |
| Holburn Street | Great Western Road | Turn Left |
| Great Western Road | Deeside Drive | Turn Left |
| Deeside Drive Complete | Return to North Deeside Road | Turn Right |
| North Deeside Road | Springfield Road | Turn Left |
| Springfield Road | Craigton Road | Turn Left |
| Craigton Rd/Friarsfield Rd | Kirk Brae & return to top of hill | Turn Left |
| Past Hillhead | Countesswells Road | Turn Left |
| Countesswells Road | Mains of Countesswells to Hillhead | Turn Around |
| Countesswells Road | Countesswells Avenue | Turn Left |
| Countesswells Avenue | return to Countesswells Rd | Turn Left |
| Counteswells Road | Airyhall Avenue | Turn Right |
| Airyhall Avenue | Craigton Road | Turn |
| Airyhall Avenue | Countesswells Road | Turn Right |
| Countesswells Road | Gt Western Road | Turn Right |
| Craigton Road | Springfield Road | Turn Right |
| Springfield Road | Seafield Road | Turn Right |
| Seafield Road | Anderson Drive | Straight on |
| Cromwell Road | Forest Avenue | Turn Right at R/About |
| Forest Avenue | Gt Western Road | Turn Left |
| Gt Western Road | Ashley Road | Turn Left |
| Ashley Road | Union Grove | Turn Right |
| Union Grove | Holburn Street | Turn Right |
| Holburn Street | Willowbank Road | Turn Left |
| Willowbank Rd/Springbank Terr/Wellington Pl | South College Street | Turn Left |
| South College Street | South College Street Via Wapping Street | Straight On |
| South College Street | QE11 Roundabout | Finish |
| | | |

| | = TRAFFIC CALMING | |
|----------------------|---|------------------------|
| STREET | то | DIRECTION |
| Craigshaw Drive | West Tullos Road | Turn Left |
| West Tullos Road | Great Southern Road | Turn Right |
| Great Southern Road | Riverside Drive | Turn Right |
| Riverside Drive | South College Street | Turn Left |
| South College Street | Bridge Street | Straight On |
| Bridge Street | Union Street | Straight On |
| Union Terrace | Rosemount Viaduct | Turn Left |
| Rosemount Viaduct | Skene Street | Turn Left |
| Skene Street | Carden Place | Straight On |
| Carden Place | Queens Cross Roundabout | Complete, Turn Left |
| Albyn Place | Union Street | Straight On |
| Union Street | King Street | Turn Left |
| King Street | East North Street | Turn Right |
| East North Street | Boulevard R/About | Turn |
| East North Street | King Street | Turn Left |
| King Street | Union Street | Turn Right |
| Union Street | Holburn Street | Turn Left |
| Holburn Street | Union Grove Junction | Straight On |
| Holburn Street | Fonthill Road | Turn Left |
| Fonthill Road | Ferryhill Road/Polmuir Rd | Turn Right |
| Polmuir Road | Murray Terrace | Turn Right |
| Murray Terrace | Bright Street | Turn Right |
| Bright Street | Brunswick Place | Turn Right |
| Brunswick Place | Polmuir Road | Turn Left |
| Polmuir Road | Ferryhill Road | Straight On |
| Ferryhill Road | Crown Street | Turn Left |
| Crown Street | Springbank Terrace | Turn Left |
| Springbank Terrace | Bon Accord Street | Turn Right |
| Bon Accord Street | Union Street | Turn Right |
| Union Street | Crown Street | Turn Right |
| Crown Street | Springbank Terrace | Turn Right |
| Springbank Terrace | Albury Road | Turn Left |
| Albury Road | Caledonian Place | Turn Right |
| Caledonian Place | Bon Accord Street | Turn Right |
| Bon Accord Street | Whinhill Road | Straight On |
| Whinhill Road | Gt Southern Road | Turn Left |
| Gt Southern Road | Riverside Drive | Turn Around At R/about |
| Gt Southern Road | Holburn Street | Turn Around At R/about |
| Gt Southern Road | Murray Terrace | Turn Left |
| Murray Terrace | Polmuir Road Via Bright Street/Sycamore PI ace | Turn Right |
| Polmuir Road | Riverside Drive | Turn Left |
| Riverside Drive | QE II Roundabout | Straight On |
| North Esplanade West | Market Street | Turn Left |
| Market Street | Virginia Street | Turn Right |

| Virginia Street | Commerce Street | Turn Left |
|-----------------------------------|---------------------------|--------------------|
| Commerce Street | Beach Boulevard R/Abt | Turn Round |
| Commerce Street | Virginia Street | Turn Right |
| Virginia Street | Market Street | Turn Left |
| Market Street | North Esplanade West | Turn Right |
| North Esplanade West | QE II Roundabout | Turn Around |
| North Esplanade West | Market Street | Turn Left |
| Market Street | Virginia Street | Turn Right |
| Virginia Street | Commerce Street | Straight On |
| Castle Terrace | Miller Street | Straight On |
| Miller Street/St. Clements Street | Wellington Street | Turn Left |
| Wellington Street | York Street | Turn Right |
| York Street | Esplanade | Turn Left |
| Esplanade | King Street | Turn Left |
| King Street | East North Street | Turn Left |
| East North Street | Commerce Street | Straight On |
| Commerce Street | Waterloo Quay | Turn Left |
| Waterloo Quay | Wellington Street | Turn Left |
| Wellington Street | Esplanade | Turn Round |
| Esplanade | Links Road | Turn Right |
| Links Road | Beach Boulevard | Turn Left |
| Beach Boulevard | East North Street R/about | Turn Round |
| Beach Boulevard | Esplanade | Turn Round |
| Beach Boulevard | Links Road | Turn Left |
| Links Road | Urquhart Road | Turn Left |
| Urquhart Road | King Street | Turn Right |
| King Street | Seaforth Road | Turn Right |
| Seaforth Road | Park Road | Turn Right |
| Park Road/Park Street | East North Street R/about | Turn Round |
| Park Street | Constitution Street | Turn Right |
| Constitution Street | Links Road | Turn Left |
| Links Road | Beach Ballroom R/A | Complete Roundabou |
| Links Road | Urquhart Road | Turn Right |
| Urquhart Road | Park Road | Turn Right |
| Park Road/ Golf Road | School Road | Turn Left |
| School Road | King Street | Turn Right |
| King Street | Don Street | Turn Left |
| Don Street | Hillhead Halls | Turn Round |
| Hillhead Halls | King Street | Turn Left |
| King Street/Ellon Road | North Donside Rd | Turn Round |
| Ellon Road | Esplanade | Turn Left |
| Esplanade | York Street | Turn Right |
| York Street | York Place | Turn Left |
| York Place | Waterloo Quay | Turn Right |
| Waterloo Quay | Regent Quay | Straight On |
| Regent Quay | Trinity Quay | Finish |

Route 4 = TRAFFIC CALMING

| | - TRAFFIC CALIVIING | |
|------------------------|---|------------------------------|
| STREET | ТО | DIRECTION |
| Craigshaw Drive | Wellington Road | Turn Right |
| Wellington Road | Nigg Post Office | Complete R/About/Turn Around |
| Wellington Road | Queen Elizabeth South R/About | Complete R/About/Turn Left |
| Queen Elizabeth Bridge | South College St R/About | Turn Around |
| Queen Elizabeth Bridge | South Esplanade West | Turn Left |
| South Esplanade West | Victoria Road | Turn Right |
| Victoria Road | Menzies Road | Turn Right |
| Menzies Road | Wellington Road | Turn Left |
| Wellington Road | A90 | Turn Left |
| A90 | Marywell Roundabout | |
| Marywell Roundabout | Old Stonehaven Road | 3 rd Exit |
| Old Stonehaven Road | Old Wellington Road | Turn Right |
| Old Wellington Road | Business Park | Complete r/aboutStraight on |
| Business Park | Wellington Road | Turn Left |
| Wellington Road | Old Stonehaven Rd before Charleston Flyover | Turn Round |
| Wellington Rd | Wellington Circle | Turn Left |
| Wellington Circle | · · | Complete |
| Wellington Circle | Wellington Rd | Turn Left |
| Wellington Rd | Hareness Road | Turn Right |
| Harness Road | Crawpeel Road | Turn Right |
| Crawpeel Road | Souterhead Road | Turn Right |
| Souterhead Road | Wellington Road | Turn |
| Souterhead Road | Blackness Road | Turn Left |
| Blackness Road | Hareness Road | Turn Left |
| Hareness Road | Crawpeel Road | Turn |
| Hareness Road | Hareness Circle East | Turn Right |
| Hareness Circle | Hareness Road | Turn Right |
| Hareness Road | MInto Road | Turn Left |
| Minto Road | Minto Drive | Turn Left |
| Minto Drive | Minto Avenue | Turn Right |
| Minto Drive | Minto Avenue Minto Drive | Turn Right |
| | | Turn Left |
| Minto Drive | Minto Avenue | |
| Minto Avenue | Hareness Road | Turn Left |
| Hareness Road | Coast Road | Turn Left |
| Coast Road | St Fitticks Road | Turn Left |
| St Fitticks Road | Balnagask Road | Turn Left |
| Balnagask Road | Old Church Road | Turn Left |
| Old Church Road | Girdleness Road | Turn Right |
| Girdleness Road | Wellington Road | Turn Right |
| Wellington Road | Balnagask Road | Turn Right |
| Balnagask Road | Old Church Road | Turn Right |
| Old Church Road | Girdleness Road | Turn Left |
| Girdleness Road | Balnagask Road | Turn Right |
| Balnagask Road | Balnagask Circle | Turn Right |
| Balnagask Circle | Girdleness Road | Turn Right |

| | Route 4 contd | |
|--------------------------|--|-------------|
| Girdleness Road | Balnagask Road | Turn Right |
| Balnagask Road | St Fitticks Road | Turn Left |
| St Fitticks Road | Victoria Road | Turn Left |
| Victoria Road | Menzies Road | Turn Left |
| Menzies Road | Wellington Road | Turn Left |
| Wellington Road | Polwarth Road | Turn Left |
| Polwarth Road | Walker Road | Turn Left |
| Walker Road | Grampian Place | Turn Right |
| Grampian Place | Grampian Road | Turn Right |
| Grampian Road | Polwarth Road | Turn Right |
| Polwarth Road | Walker Road | Turn Right |
| Walker Road | Victoria Road | Turn Right |
| Victoria Road | Grampian Road | Turn Right |
| Grampian Road | Polwarth Road | Turn Left |
| Polwarth Road | Oscar Road | Turn Left |
| Oscar Road | Glenbervie Road | Turn Right |
| Glenbervie Road | Mansefield Road | <u> </u> |
| | | Turn Right |
| Mansefield Road | Balnagask Road | Turn Right |
| Balnagask Road | Tullos Place | Turn Right |
| Tullos Place/Circle | Grampian Place | Turn Left |
| Grampian Place | Grampian Road | Turn Right |
| Grampian Road | Glenbervie Road | Turn Right |
| Glenbervie Road | Oscar Road | Turn Right |
| Oscar Road | Grampian Place | Turn Right |
| Grampian Place | Wellington Road | Turn Left |
| Wellington Road | Langdykes Road | Turn Left |
| Langdykes Road | Earns Heugh Road | Turn Right |
| Earns Heugh Road | Loirston Avenue | Turn Left |
| Loirston Avenue | Loirston Road | Straight on |
| Loirston Road | Unnamed road | Turn Left |
| Unnamed road | Langdykes Rd | Turn Left |
| Langdykes Road | Loirston Road | Turn Left |
| Loirston Road | Cove Road | Turn Right |
| Cove Road | Cove Crescent 2 nd Junction | Turn Left |
| Cove Road Cove Crescent | Cove Road | Turn Left |
| Cove Road | Old Wellington Road | Straight On |
| Cove Road | Old Stonehaven Road | Turn Left |
| Old Stonehaven Road | Old Wellington Road | Turn Right |
| Old Wellington Road | Cove Road | Turn Right |
| Cove Road | Charleston Road | Turn Left |
| Charleston Road | End of Road | Turn Round |
| School Slip Road | Charleston Road | Turn Left |
| Charelston Road | Cove Road | Turn Left |
| Cove Road | Earns Heugh Road | Turn Left |
| Earns Heugh Road | Langdykes Road | Turn Right |
| Langdykes Road | Coast Road | Turn Left |
| Coast Road | Hareness Road | 1 |
| East Tullos Ind. Estate | 2 | Finish |
| | | |

| | Route 5 | |
|--|-----------------------|-------------|
| | = TRAFFIC CALMING | |
| STREET | ТО | DIRECTION |
| Depot | South Esplanade West | Turn Right |
| South Esplanade West | Victoria Road | Turn Left |
| Victoria Road | Victoria Bridge | Straight On |
| Victoria Bridge | Guild Street | Turn Left |
| Guild Street | Wapping Street | Turn Right |
| Wapping Street | Rennies Wynd | Turn Right |
| Rennies Wynd | Guild Street | Turn Left |
| Guild Street | Market Street | Turn Left |
| Market Street | Union Street | Turn Right |
| Union Street | Broad Street | Turn Left |
| Broad Street | Queens Street | Turn Right |
| Queens Street | Arts Centre | Turn Round |
| Queens Street | Broad Street | Turn Right |
| Broad Street | Little John Street | Turn Right |
| Little John Street | Mealmarket Street | Straight On |
| Mealmarket Street | King Street | Turn Left |
| King Street | Mounthooly Way | Turn Left |
| Mounthooly Way | Mounthooly R/about | Turn Left |
| Mounthooly R/about | Nelson Street | Turn Left |
| Nelson Street | King Street | Turn Right |
| King Street | St. Clair Street | Turn Right |
| St Clair Street | West North Street | Turn Right |
| West North Street | Mounthooly Roundabout | Turn Round |
| West North Street | King Street | Straight On |
| East North Street | Boulevard Roundabout | Turn Round |
| East North Street | King Street | Straight on |
| West North Street | Mounthooly R/about | Turn Right |
| Mounthooly Way | King Street | Turn Left |
| King Street | St. Machar Drive | Turn Left |
| St. Machar Drive | Great Northern Road | Turn Round |
| St. Machar Drive | King Street | Turn Round |
| St. Machar Drive | Great Northern Road | Turn Right |
| Great Northern Road | Haudigan Roundabout | Turn Around |
| Great Northern Road | Powis Terrace | Straight on |
| Powis Terrace | Powis Place | Turn Left |
| Powis Place | Mounthooly Roundabout | Turn Left |
| Mounthooly Roundabout | Kings Crescent | Turn Left |
| Kings Crescent | Spital | Straight On |
| Spital | College Bounds | Straight On |
| College Bounds/High Street | St Machar Drive | Turn Left |
| St Machar Drive | Tillydrone Avenue | Turn Right |
| Tillydrone Avenue/Road/ Third Don | A90 Roundabout | Turn Round |
| Crossing Third Don Crossing/ Tillydrone Road | Hayton Road | Turn Right |
| Hayton Road | Donbank Terrace | Turn Right |
| Donbank Terrace | Gordon Mills Road | Turn Right |
| | 23.4011 111110 11044 | |

| Gordon Mills Road | Tillydrone Road | Turn Right |
|-------------------------------------|---|----------------------|
| Tillydrone Road | Papermill Drive | Turn Left |
| Papermill Drive | Bus terminus and back to Tillydrone Road | Turn Left |
| Tillydrone Road/Avenue/Bedford Road | Powis Terrace | Turn Left |
| Powis Terrace/Place | Mounthooly Roundabout | Turn Round |
| Powis Place | Powis Terrace | Turn Right |
| Powis Terrace | Clifton Road | Turn Left |
| Clifton Road | North Anderson Drive | Turn Left |
| North Anderson Drive | Hilton Drive | Turn Left |
| Hilton Drive | Six Roads/ Cairncry Road | Turn Right |
| Cairncry Road | North Anderson Drive | Turn Left |
| North Anderson Drive | Foresterhill Road | Turn Left |
| Foresterhill Road | Ashgrove Road West | Turn Left |
| Ashgrove Road West | Westburn Drive | Turn Left |
| Westburn Drive | Six Roads/Rosehill Drive | 2 nd Left |
| Rosehill Drive | North Anderson Drive | Turn Around |
| Rosehill Drive | Hilton Avenue | Turn Left |
| Hilton Avenue | Hilton Drive | Turn Left |
| Hilton Drive | Manor Avenue | Through Bus Gate |
| Manor Avenue | Logie Terrace | Turn Right |
| Logie Terrace | Logie Place | Turn Right |
| Logie Place | Manor Terrace | Turn Right |
| Manor Terrace | Manor Avenue | Turn Left |
| Manor Avenue | Hilton Drive | Through Bus Gate |
| Hilton Drive | Hilton Avenue | Turn Left |
| Hilton Avenue | Clifton Road | Turn Left |
| Clifton Road | Hilton Road | Turn Left |
| Hilton Road | Hilton Drive | Turn Right |
| Hilton Drive | N. Anderson Drive | Turn Left |
| N Anderson Drive | Hilton Road | Turn Left |
| Hilton Road | Hilton Drive | Turn Right |
| Hilton Drive | Six Roads/Hilton Street | Turn Left |
| Hilton Street | Clifton Road | Straight on |
| Leslie Road | Great Northern Road | Turn Round |
| Leslie Road | Six Roads/ Back Hilton Road | Turn Left |
| Back Hilton Road | Belmont Road | Turn Left |
| Belmont Road | Powis Terrace | Turn Right |
| Powis Terrace | George Street | Straight on |
| George Street | St. Andrews Street(Bus Lane) | Turn Left |
| St. Andrews Street | Loch Street | Turn Right |
| Loch Street | Berry Street | Turn Left |
| Berry Street | Gallowgate | Turn Right |
| Gallowgate | Little John Street | Finish |

Route 6 = TRAFFIC CALMING

| | = TRAFFIC CALMING | |
|--------------------------|--------------------------------|----------------|
| STREET | ТО | DIRECTION |
| Wapping Street | Denburn Dual Carriageway | Turn Left |
| Denburn Dual Carr | Woolmanhill Roundabout | Turn Round |
| Woolmanhill Roundabout | Giratory System | Complete |
| Denburn Dual Carriageway | Woolmanhill Roundabout | Straight Ahead |
| Woolmanhill Roundabout | Skene Square | Turn Round |
| Skene Square | Woolmanhill Roundabout | Turn Round |
| Woolmanhill Roundabout | Skene Square | Straight Ahead |
| Skene Square | Caroline Place | Straight On |
| Caroline Place | Berryden Road | Straight On |
| Berryden Road | Belmont Road | Straight on |
| Belmont Road | Powis Terrace | Turn Left |
| Powis Terrace | Ashgrove Road | Turn Left |
| AshGrove Road | Ashgrove Road West | Straight On |
| Ashgrove Road West | North Anderson Drive | Turn Left |
| North Anderson Drive | Westburn Road | Turn Left |
| Westburn Road | Westburn Drive | Turn Left |
| Westburn Drive | Ashgrove Road West | Turn Left |
| Ashgrove Road West | CornhillRoad | Turn Left |
| Cornhill Road | Westburn Drive | Turn Right |
| Westburn Drive | Westburn Road | Turn Left |
| Westburn Road | Mounthooly Roundabout | Turn Right |
| Mounthooly | Gallowgate | Turn Left |
| Gallowgate | Upperkirkgate | Turn Right |
| Upperkirkgate | Schoolhill | Straight on |
| Schoolhill | Rosemount Viaduct | Straight on |
| Rosemount Viaduct | South Mount Street | Straight on |
| South Mount Street | Rosemount Place | Turn Right |
| Rosemount Place | Maberley Street | Straight On |
| Maberley Street | Spring Garden | Straight On |
| Spring Garden | Gallowgate | Turn Left |
| Gallowgate | Hutcheon Street via Mounthooly | Turn Left |
| Hutcheon Street | Mount Street | Turn Left |
| Mount Street | Rosemount Place | Turn Right |
| Rosemount Place | Argyl Place | Turn Right |
| Argyl Place | Westburn Road | Turn Left |
| Westburn Road | Camperdown Road | Turn Left |
| Camperdown Road | Mid-Stocket Road | Turn Right |
| Mid-Stocket Road | Harcourt Road | Turn Right |
| Harcourt Road | Westburn Road | Turn Left |
| Westburn Road | Raeden Park Road | Turn Left |
| Raden Park Road | Midstocket Road | Turn Left |
| Mid-Stocket Road | Camperdown Road | Turn Left |
| Camperdown Road | Westburn Road | Turn Left |
| Westburn Road | North Anderson Drive | Turn Left |

Route 6 Cont.

| North Anderson Drive | Mid-Stocket Road | Turn Left |
|-----------------------|-----------------------------------|----------------------|
| Mid-Stocket Road | Beechgrove Terrace | Turn Right |
| Beechgrove Terrace | Queens Road via Kings Gate | Turn Left |
| Queens Road | Springfield Road | Turn Right |
| Springfield Road | Craigiebuckler Avenue | Turn Right |
| Craigiebuckler Avenue | Hazledene Road via Bus Terminus | Turn Right |
| Hazledene Road | Queens Road | Turn Right |
| Queens Road | Forest Avenue | Turn Right |
| Forest Avenue | Union Grove | Turn Left |
| Union Grove | St.Swithin Street | Turn Left |
| St. Swithin Street | Queens Road | Straight On |
| Fountainhall Road | Kingsgate | Turn Left |
| Kingsgate | Forest Road | Turn Left |
| Forest Road | Queens Road | Turn Left |
| Queens Road | Fountainhall Road | Turn Left |
| Fountainhall Road | Desswood Place | Turn Right |
| Desswood Place | Albert Street via Whitehall Place | Turn Right |
| Albert Street | Victoria Street | Turn Right |
| Victoria Street | Alford Place | Turn Left |
| Alford Place | Rose Street Via Union Street | Turn Left |
| Rose Street | Esslemount Avenue | Straight On |
| Esslemount Avenue | Rosemount Place | Turn Left |
| Rosemount Place | Craigie Loanings | Turn Left |
| Craigie Loanings | Whitehall Place | Turn Left |
| Whitehall Place | Leadside Road | Straight On |
| Leadside Road | Rosemount Viaduct | Turn Right |
| Rosemount Viaduct | Skene Street | Turn Left |
| Skene Street | Woolmanhill Roundabout | 2 nd Left |
| John Street | Loch Street | Turn Right |
| Loch Street | Berry Street Roundabout | Turn Round |
| Berry Street | St Andrews Street | Turn Left |
| St .Andrews Street | George Street | Straight On |
| St. Andrews Street | Charlotte Street | Turn Right |
| Charlotte Street | Maberley Street | Turn Right |
| Maberley Street | George Street | Turn Right |
| George Street | St. Andrews Street | Turn Right |
| St. Andrews Street | Charlotte Street | Straight On |
| St. Andrews Street | Blackfriars Street | Turn Left |
| Blackfriars Street | Rosemount Viaduct | Finish |

ROUTE 7

| | = TRAFFIC CALMING | |
|-----------------------|--------------------------|-------------|
| STREET | TO | DIRECTION |
| Bucksburn Depot | Bankhead Ave | Turn Right |
| Bankhead Ave | Bankhead Rd | Turn Left |
| Bankhead Rd | Greenburn Dr | Turn Left |
| Greenburn Dr | A96 | Turn Left |
| A96 | A947 via McDonalds | Turn Left |
| A947 | Old Stoneywood Road | Turn Left |
| Old Stoneywood Road | Greenburn Dr | Turn Right |
| Greenburn Dr | Bankhead Road | Turn Left |
| Bankhead Road | Old Meldrum Road | Turn Left |
| Old Meldrum Road | A947 | Turn Left |
| A947 | A96 R/About | Turn Left |
| A96 | Old Meldrum Road | Turn Left |
| Old Meldrum Rd | Gilbert Road | Turn Left |
| Gilbert Road | A96 | Turn Left |
| A96 | Old Meldrum Road | Turn Left |
| Old Meldrum Rd | Malcolm Rd | Turn Left |
| Malcolm Rd | A96 | Turn Left |
| A96 | Oldmeldrum Rd | Turn Left |
| Old Meldrum Rd | A947 Stoneywood Rd | Turn Left |
| A947 Stoneywood Rd | A96/A947 R/About | Turn Around |
| A947 Stoneywod Rd Etc | Parkhill Bridge | Turn Around |
| COMPLETE 3 ROUNI | DABOUTS ON ROUTE | |
| A947 Parkhill Bridge | Riverview Dr - North R/A | Turn Left |
| Riverview Drive | Netherview Avenue | Turn Right |
| Netherview Avenue | Dyce Academy | Turn Round |
| Dyce Academy | Netherview Avenue | Turn Right |
| Netherview Avenue | Asda Terminus | Turn Round |
| Asda Terminus | Netherview Avenue | Straight On |
| Netherview Avenue | Balloch Way | Turn Right |
| Balloch Way | Riverview Drive | Turn Right |
| Riverview Drive | Wellheads Road | Turn Left |
| Wellheads Road | Burnside Road | Turn Right |
| Burnside Road | Burnside Drive | |
| Burnside Drive | Wellheads Road | Turn Right |
| Wellheads Road | Burnside Road | Turn Left |
| Burnside Road | Wellheads Road | Turn Right |
| Wellheads Road | Riverview Drive | Turn Left |
| Riverview Drive | Stoneywood Road | Turn Left |
| Stoneywood Road | Old Stoneywood Road | Turn Around |
| Stoneywood Road | Farburn Terrace | Turn Left |
| Farburn Terrace | Cordyce View | Turn Left |
| Cordyce View | Foinavon Circle | Turn Around |
| Cordyce View | Farburn Terrace | Turn Right |
| Farburn Terrace | Wellheads Drive | |
| Wellheads Drive | Wellheads Cres South Jcn | Turn Left |
| | Posito 7 Cont | 1 2010 |

Route 7 Cont.

| Wellheads Cresc | Wellheads Drive | Turn Left |
|-------------------------------------|---|-------------|
| Wellheads Drive | Dyce Drive | Turn Left |
| Dyce Drive | A96 T Junction | Turn Left |
| A96 | Bankhead Avenue roundabout | Turn Round |
| A96 | Dyce Drive | Turn Right |
| Dyce Drive | Airport Road | Turn Left |
| Airport Road (Treat Main Lanes) | A96 Roundabout | Turn Round |
| Airport Road (Treat Main Lanes) | Dyce Drive | Turn Right |
| Dyce Drive (treat R turn lane) | A96 T Junction | Turn Right |
| A96 | Link Road | Turn Right |
| Airport Road (Treat filter lanes) | Dyce Drive | Straight On |
| Argyll Road | Turn at roundabout & back to Dyce Drive | Straight on |
| Airport Road (Treat filter lanes) | A96 Roundabout | Turn Left |
| A96 | Dyce Drive | Turn Left |
| Dyce Drive (Treat filter lane only) | Airport Road | Straight on |
| Dyce Drive (from link road) | A947 | Turn Right |
| A947/Victoria St | Pitmedden Rd | Turn Right |
| Pitmedden Rd | Kirton Avenue North Jcn | Turn Right |
| Kirton Avenue | Pitmedden Road | Turn Right |
| Pitmedden Road | Dyce Drive | Straight on |
| Dyce Drive | Bendauch Road | Turn Right |
| Bendauch Rd/Caskieben Rd | A96 | Turn Left |
| A96 Inverurie Rd | Airport Road | Turn Left |
| Airport Road Road to Dyce Drive | Kirkhill Industrial Estate Roads | Turn Left |
| Kirkhill Ind Estate Roads | | Complete |
| Howe Moss | | Complete |

Route 8 = TRAFFIC CALMING

| | = TRAFFIC CALMING | |
|---|--|-------------------------|
| STREET | ТО | DIRECTION |
| Bucksburn Depot | Greenburn Drive | Turn Right |
| Greenburn Drive | Stoneywood Road | Turn Right |
| Stoneywood Road | Oldmeldrum Road | Turn Left |
| Oldmeldrum Road | Mugiemoss Road | Turn Left |
| Mugiemoss Road | Parkway | Turn Left |
| Parkway | Laurel Drive | Turn Right |
| Laurel Drive | Gordon Brae | Turn Left |
| Gordon Brae | Fairview Street | Turn Left |
| Fairview Street | Laurel Drive | Turn Left |
| Laurel Drive | Fairview Brae | Turn Left |
| Fairview Brae | Fairview Street | Turn Right |
| Fairview Street | Gordon Brae | Turn Right |
| Gordon Brae | Laurel Drive | Turn Left |
| Laurel Drive | Laurel Place | Turn Right |
| Laurel Place | Laurel Braes | Turn Right |
| | Laurel Braes Laurel Place | Turn Right Turn Left |
| Laurel Braes/Laurel Wynd/Laurel Braes | | |
| Laurel Place | Laurel Drive | Turn Right |
| Laurel Drive | Gordon Brae | Turn Left |
| Gordon Brae | Parkway R/about | Straight On |
| Whitestripes Avenue | Jesmond Drive | Turn Left |
| Jesmond Drive | Ashwood Terminus | Turn Round |
| Jesmond Drive | Lee Cres. North | Turn Right |
| | Jesmond Drive | Turn Right |
| Jesmond Drive | Newburgh Drive East | Turn Left |
| Newburgh Drive East | Jesmond Drive | Turn Left |
| Jesmond Drive | Scotstown Road | Turn Right |
| Scotstown Road | Ellon Road | Turn Left |
| Ellon Road | Parkway East | Turn Right |
| Parkway East | Park & Ride Terminus | Turn Round |
| Park & Ride Terminus | Parkway East Rabout | Straight On |
| Claymore Drive | Parkway East Rabout | Turn Right |
| Claymore Drive | Exploration Drive | Turn Right |
| Exploration Drive | Claymore Drive | Turn Right |
| Claymore Drive | Parkway East Rabout | Straight On |
| Parkway East | Ellon Road | Turn Left |
| Ellon Road | North Donside Road | |
| | | Turn Right |
| North Donside Road | Scotstown Road | Turn Left |
| Scotstown Road | Balgownie Road | Turn Right |
| Balgownie Road | Balgownie Drive | Turn Left |
| Balgownie Drive | Bus Terminus | Turn around |
| Delevere in Drive | | |
| Balgownie Drive | Grandholm Drive | Turn Left |
| Grandholm Drive (Crossing Gordon Brae) | | Turn Left |
| <u> </u> | Grandholm Drive | |
| Grandholm Drive (Crossing Gordon Brae) | Grandholm Drive Grandholm Crescent | Turn Left |
| Grandholm Drive (Crossing Gordon Brae) Grandholm Crescent | Grandholm Drive Grandholm Crescent Grandholm Drive | Turn Left Turn Right |

Route 8 Cont.

| Scotstown Road | Parkway Roundabout | Turn Round |
|----------------------|----------------------|-------------|
| Scotstown Road | Braehead Way | Turn Right |
| Braehead Way | Bodachra Road | Turn Left |
| Bodachra Road | Balgownie Road | Turn Right |
| Balgownie Road | Parkway | Turn Left |
| Parkway | Whitestripes Avenue | Turn Right |
| Whitestripes Avenue | Whitestripes Road | Turn Left |
| Whitestripes Road | Scotstown Road | Turn Right |
| Scotstown Road | Parkway | Turn Round |
| Scotstown Road | Dubford Road | Turn Right |
| Dubford Road | Bus Terminus | Turn Round |
| Dubford Road | Dubford Crescent | Turn Right |
| Dubford Crescent | Dubford Road | Turn Left |
| Dubford Road | Greenbrae Drive | Turn Right |
| Green brae Drive | Denmore Road | Turn Right |
| Denmore Road | Woodside Road | Turn Right |
| Woodside Road | Parkway | Turn Right |
| Parkway | Broadfold Road | Turn Left |
| Broadfold Road | Ellon Road | Turn Left |
| Ellon Road | Parkway | Turn Left |
| Parkway | Woodside Road | Turn Right |
| Woodside Road | Denmore Road | Turn Right |
| Denmore Road | Greenbrae Drive | Straight On |
| Denmore Road | B999 | Turn Right |
| B999 | A90 R/about | Turn Round |
| B999 | Potterton | Turn Round |
| B999 | Shielhill Road | Turn Right |
| Shielhill Road | Scotstown Road | Turn Left |
| Scotstown Road | Jesmond Drive | Turn Right |
| Jesmond Drive | Jesmond Avenue | Turn Left |
| Jesmond Avenue | Whitestripes Avenue | Turn Left |
| Whitestripes Avenue | Parkway | Turn Round |
| Whitestripes Avenue | Valentine Road | Turn Right |
| Valentine Road | Jesmond Avenue North | Turn Left |
| Jesmond Avenue North | Whitestripes Avenue | Straight On |
| Whitestripes Road | Upper Persley | Turn Left |
| Upper Persley | Laurel Drive R/about | Finish |
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| | = TRAFFIC CALMING | |
|---|---|--|
| STREET | то | DIRECTION |
| Depot | A96 | Straight On |
| Sclattie Park | Kepplehills Road | Turn Right |
| Kepplehills Road | Newhills Avenue | Turn Left |
| Newhills Avenue | Netherhills Avenue | Turn Left |
| Netherhills Avenue | Kepplehills Road | Turn Right |
| Kepplehills Road | Inverurie Road | Turn Right |
| Inverurie Road | A96 | Turn Left |
| A96 | Howes Road via roundabout | Turn Right |
| Howes Road | Police Station | Turn Right |
| Police Station | Inverurie Road | Turn Left |
| Inverurie Road | A96 | Turn Left |
| A96 | Sclattie Park | Turn Left |
| Sclattie Park | Kepplehills Drive | Turn Right |
| | Kepplehills Road | Turn Right |
| Kepplehills Road/Newhills Road | Forrit Brae | Turn Right |
| Forrit Brae | A96 | Turn Left |
| A96 | Chapel Brae | Turn Left |
| Chapel Brae | End of the road, turn and return to A96 | Turn Right |
| A96 Inverurie Rd | Park and Choose slip road | Turn Left |
| Treat Park and choose inc slip road and | Exit Via Airport Road | Turn Right |
| turning area | | |
| Airport Road | A96 | Turn Left |
| A96 | Forrit Brae | Turn Right |
| Forrit Brae | Chapel of Stoneywood Road | Turn Right |
| Chapel of Stoneywood Road | Kirkwood Drive | Turn Right into Park and Ride at Prime Four |
| Park and Ride | Treat bus turning area, high level parking | Rurn Right |
| | areas, high level access road and lower level access road return to upper level and exit onto C89C opposite Kirkwood Drive (Key needed for barrier) | |
| C89C | A944 Roundabout | Turn Round |
| A944 Roundabout | Kingswood Drive | Turn Right |
| Kingswood Drive | Kingswells Avenue | Turn Right |
| Kingswell Avenue | Kingswells Crescent | Turn Left |
| Kingswells Crescent | Kingswood Drive | Turn Right |
| Kingswood Drive | Kingswells Drive | Turn Left |
| Kingswells Drive | Kingswood Drive | Turn Left |
| Kingswood Drive | Insert Road At Shops | Turn Right |
| Inset Road | Kingswell Avenue | Turn Left |
| Kingswell Avenue | Kingswood Drive | Turn Right |
| Kingswood Drive | Newhills Road | Turn Right |
| Newhills Road | Kingswells Crescent | Turn Right |
| Kingswells Crescent | Kingswood Drive | Turn Left |
| Kingswood Drive | Fairley Road | Turn Left |

| Fairley Road | A944 | |
|------------------------|-------------------------|-------------|
| A944 Roundabout | Maidencraig Roundabout | Turn Left |
| Maidencraig R/about | North Anderson Drive | Turn Right |
| North Anderson Drive | Kingsgate | Turn Right |
| Kingsgate | Summerhill Road | Turn Right |
| Summerhill Road | Lang Stracht | Turn Left |
| Lang Stracht | Stronsay Drive | Turn Left |
| Stronsay Drive | Kingsgate | Turn Left |
| Kingsgate | Summerhill Road | Turn Left |
| Summerhill Road | Summerhill Terrace | Turn Left |
| Summerhill Terrace | Eday Road | Straight On |
| Eday Road | Bressay Brae | Turn Round |
| Bressay Brae | Rousay Drive | Turn Left |
| Rousay Drive | Lang Stracht | Turn Left |
| Lang Stracht | Maidencraig Roundabout | Turn Round |
| Maidencraig R/about | Cockers Farm Entrance | Turn Round |
| Cockers Farm Entrance | Kingswells via Bus Gate | Turn Left |
| Fairley Road | A944 Roundabout | Turn Right |
| A944 Roundabout | Borrowstone Turning | Turn Right |
| Borrowstone Turning | Accommodation Road | Turn Right |
| Accomodation Road/B979 | A96 | Turn Left |
| A96 | Blackburn R/about | Turn Left |
| Blackburn R/about | | |
| Tulloch Road | Forrit Brae | Finish |

= TRAFFIC CALMING

| North Deeside Rd Milltimber Brae South Deeside Rd Turn Aroun Milltimber Brae North Deeside Rd Turn Right North Deeside Rd Springfield Rd Turn Left Springfield Rd Queen's Rd Queen's Rd Auziehead R/About Queen's Rd/Skene Rd (inc Bus Terminus) Crematorium Rd Turn Left Skene Rd Six Mile Junction Vaisepfield Turn Right Audiencraig R/About via Iow slip road Cults-Kingswells Rd Balacktop Rd Baillieswells Rd North Deeside Rd Kirk Brae Back to Loanhead/Blacktop Blacktop Rd Bilshopdams Rd Six Mile junction Turn Left North Deeside Rd Mill of Brotherfield Turn Right Bishopdams Rd Cairnie R/About North Deeside Rd Turn Right New junction at B979 Malcolm Rd North Deeside Rd Turn Right | Linn Moor Road | Finish |
|--|---------------------------------------|-------------|
| North Deeside Rd Milltimber Brae South Deeside Rd Turn Aroun Milltimber Brae North Deeside Rd Turn Right North Deeside Rd Springfield Rd Turn Left Springfield Rd Queen's Rd Queen's Rd Auziehead R/About Queen's Rd/Skene Rd (inc Bus Terminus) Crematorium Rd Turn Left Skene Rd Six Mile Junction Vaisepfield Turn Right Audiencraig R/About via Iow slip road Cults-Kingswells Rd Balacktop Rd Baillieswells Rd North Deeside Rd Kirk Brae Back to Loanhead/Blacktop Blacktop Rd Bilshopdams Rd Six Mile junction Turn Left North Deeside Rd Mill of Brotherfield Turn Right Bishopdams Rd Cairnie R/About North Deeside Rd Turn Right New junction at B979 Malcolm Rd North Deeside Rd Turn Right | Return to Linn Moor Rd | |
| North Deeside Rd Milltimber Brae South Deeside Rd Turn Aroun Milltimber Brae North Deeside Rd Turn Right North Deeside Rd Springfield Rd Turn Left Springfield Rd Queen's Rd Queen's Rd Queen's Rd/Skene Rd (inc Bus Terminus) Crematorium Rd Car Park and Return to A944 Turn Left Skene Rd Six Mile Junction Six Mile Junction Jessiefield Maidencraig R/About via low slip road Cults-Kingswells Rd Baillieswells Rd North Deeside Rd Kirk Brae Blacktop Rd Blacktop Rd Blacktop Rd Blacktop Rd Blacktop Rd Mill of Brotherfield Blacktop Rd Bishopdams Rd Six Mile Junction Blacktop Rd Turn Left Cairnie R/About North Deeside Rd Turn Left Cairnie R/About North Deeside Rd Turn Right North Deeside Rd North Deeside Rd Turn Right | Easter Anguston Rd | Turn Around |
| North Deeside Rd Milltimber Brae South Deeside Rd Turn Aroun Milltimber Brae North Deeside Rd Turn Right North Deeside Rd Springfield Rd Turn Left Springfield Rd Queen's Rd Queen's Rd Gueen's Rd/Skene Rd (inc Bus Terminus) Crematorium Rd Car Park and Return to A944 Turn Left Skene Rd Six Mile Junction via top slip road Turn Right Jessiefield Maidencraig R/About via low slip road Cults-Kingswells Rd Baillieswells Rd Turn Left Morth Deeside Rd North Deeside Rd Turn Left Kirk Brae Back to Loanhead/Blacktop Blacktop Rd Bishopdams Rd Six Mile Junction Bishopdams Rd Car Park and Return to A944 Turn Left Skene Rd Six Mile Junction via top slip road Turn Aroun Six Mile Junction Jessiefield Turn Right Turn Left Baillieswells Rd Turn Left Baillieswells Rd Turn Left North Deeside Rd Turn Left Kirk Brae Back to Loanhead/Blacktop Blacktop Rd Mill of Brotherfield Turn Right Bishopdams Rd Six Mile Junction Turn Left Cairnie R/About North Deeside Rd North Deeside Rd Turn Left Contlaw Rd Contlaw Rd Contlaw Rd Turn Left Contlaw Rd/Culterhouse Rd End of cut section of Culterhouse Road North Deeside Rd Turn Right North Deeside Rd North Deeside Rd Turn Right North Deeside Rd Turn Right North Deeside Rd Turn Right | TO BE TREATED IF REQUIRED | |
| North Deeside Rd Milltimber Brae South Deeside Rd Turn Aroun Milltimber Brae North Deeside Rd Turn Right North Deeside Rd Springfield Rd Turn Left Springfield Rd Queen's Rd Queen's Rd Queen's Rd Gueen's Rd Hazlehead R/About Turn Left Crematorium Rd Crematorium Rd Turn Left Skene Rd Six Mile Junction via top slip road Turn Right Jessiefield Maidencraig R/About via Iow slip road Cults-Kingswells Rd Baillieswells Rd Baillieswells Rd North Deeside Rd Kirk Brae Back to Loanhead/Blacktop Blacktop Rd Bishopdams Rd Bishopdams Rd Six Mile Junction Cairnie R/About North Deeside Rd End of cut section of Culterhouse Road North Deeside Rd Turn Right North Deeside Rd North Deeside Rd Turn Right | North Deeside Rd | Turn Right |
| North Deeside Rd Milltimber Brae South Deeside Rd Turn Aroun Milltimber Brae North Deeside Rd Turn Aroun Milltimber Brae North Deeside Rd Turn Right North Deeside Rd Springfield Rd Turn Left Springfield Rd Queen's Rd Queen's Rd Hazlehead R/About Straight Or Queen's Rd/Skene Rd (inc Bus Terminus) Crematorium Rd Car Park and Return to A944 Turn Left Skene Rd Six Mile Junction via top slip road Turn Aroun Six Mile Junction Jessiefield Maidencraig R/About via low slip road Cults-Kingswells Rd Daillieswells Rd Turn Left Baillieswells Rd North Deeside Rd Kirk Brae Back to Loanhead Blacktop Blacktop Rd Bla | Malcolm Rd | Turn Right |
| North Deeside Rd Milltimber Brae South Deeside Rd Turn Aroun Milltimber Brae North Deeside Rd Turn Right North Deeside Rd Springfield Rd Turn Left Springfield Rd Queen's Rd Queen's Rd Hazlehead RiAbout Straight Or Queen's Rd(inc Bus Terminus) Crematorium Rd Car Park and Return to A944 Turn Left Skene Rd Six Mile Junction via top slip road Turn Right Jessiefield Maidencraig RiAbout via low slip road Cults-Kingswells Rd Ballieswells Rd North Deeside Rd Kirk Brae Blacktop Rd Turn Left Cairnie Roundabout Turn Left Cairnie RiAbout North Deeside Rd North Deeside Rd Contlaw Rd Contlerhouse Road North Deeside Rd Turn Right Contlaw Rd Contlaw Rd Contlerhouse Road Turn Right | New junction at B979 | Turn Left |
| North Deeside Rd Milltimber Brae South Deeside Rd Turn Aroun Milltimber Brae North Deeside Rd Turn Aroun Milltimber Brae North Deeside Rd Turn Right North Deeside Rd Springfield Rd Turn Left Springfield Rd Queen's Rd Queen's Rd Queen's Rd Hazlehead R/About Straight Or Queen's Rd/Skene Rd (inc Bus Terminus) Crematorium Rd Car Park and Return to A944 Turn Left Skene Rd Six Mile Junction via top slip road Turn Right Jessiefield Maidencraig R/About via low slip road Cults-Kingswells Rd Baillieswells Rd Baillieswells Rd North Deeside Rd Kirk Brae Blacktop Rd Blacktop R | North Deeside Rd | Turn Right |
| North Deeside Rd Milltimber Brae South Deeside Rd Turn Aroun Milltimber Brae North Deeside Rd Turn Right North Deeside Rd Springfield Rd Turn Left Springfield Rd Queen's Rd Queen's Rd Hazlehead R/About Straight Or Queen's Rd/Skene Rd (inc Bus Terminus) Crematorium Rd Six Mile Junction Six Mile Junction Cults-Kingswells Rd Baillieswells Rd Baillieswells Rd Mill of Brotherfield Kirk Brae Blacktop Rd Bishopdams Rd Bishopdams Rd Bishopdams Rd North Deeside Rd Turn Left | nd of cut section of Culterhouse Road | Turn Right |
| North Deeside Rd Milltimber Brae South Deeside Rd Turn Right Milltimber Brae South Deeside Rd Turn Aroun Milltimber Brae North Deeside Rd Turn Right North Deeside Rd Springfield Rd Turn Left Springfield Rd Queen's Rd Queen's Rd Hazlehead R/About Straight Or Queen's Rd/Skene Rd (inc Bus Terminus) Crematorium Rd Car Park and Return to A944 Turn Left Skene Rd Six Mile Junction via top slip road Turn Aroun Six Mile Junction Jessiefield Maidencraig R/About via Iow slip road Cults-Kingswells Rd Blacktop Rd Baillieswells Rd North Deeside Rd Turn Left North Deeside Rd Kirk Brae Back to Loanhead/Blacktop Blacktop Rd Bishopdams Rd Six Mile junction Turn Left Cairnie R/About North Deeside Rd Turn Left Cairnie R/About Turn Left Turn Right Rick Brae Turn Left Turn Right Rick Brae Turn Right Turn Right | Contlaw Rd/Culterhouse Rd | Turn Round |
| North Deeside Rd Milltimber Brae South Deeside Rd Turn Right Milltimber Brae North Deeside Rd Turn Right North Deeside Rd Springfield Rd Springfield Rd Queen's Rd Queen's Rd Turn Left Queen's Rd Hazlehead R/About Straight Or Queen's Rd/Skene Rd (inc Bus Terminus) Crematorium Rd Car Park and Return to A944 Turn Left Skene Rd Six Mile Junction via top slip road Turn Right Jessiefield Maidencraig R/About via Iow slip road Cults-Kingswells Rd Blacktop Rd Baillieswells Rd North Deeside Rd Kirk Brae Back to Loanhead/Blacktop Blacktop Rd Bishopdams Rd Six Mile junction Furn Right Crematorium Rd Turn Left Turn Right Turn Right Turn Left Rick Brae Turn Left Turn Left Turn Right Turn Left Rick Brae Turn Left Turn Right Turn Left Turn Right Turn Left Rick Brae Turn Left Turn Right Turn Left Turn Right Turn Left | North Deeside Rd | Turn Left |
| North Deeside Rd Milltimber Brae South Deeside Rd Turn Aroun Milltimber Brae North Deeside Rd Turn Right North Deeside Rd Springfield Rd Springfield Rd Queen's Rd Queen's Rd Queen's Rd Gueen's Rd (inc Bus Terminus) Crematorium Rd Car Park and Return to A944 Turn Left Skene Rd Six Mile Junction Six Mile Junction Jessiefield Maidencraig R/About via Straight on low slip road Cults-Kingswells Rd Blacktop Rd Baillieswells Rd North Deeside Rd Kirk Brae Blacktop Rd Blacktop Rd Blacktop Rd Blacktop Rd Blacktop Rd Mill of Brotherfield Turn Right Turn Left Straight on low slip road Turn Left Blacktop Rd Turn Left North Deeside Rd Turn Left Kirk Brae Turn Left Kirk Brae Blacktop Rd Mill of Brotherfield Turn Right Turn Left | Cairnie R/About | |
| North Deeside Rd Milltimber Brae South Deeside Rd Turn Right North Deeside Rd North Deeside Rd Turn Right North Deeside Rd Springfield Rd Springfield Rd Queen's Rd Queen's Rd Queen's Rd Gueen's Rd/Skene Rd (inc Bus Terminus) Crematorium Rd Car Park and Return to A944 Turn Left Skene Rd Six Mile Junction via top slip road Turn Right Jessiefield Maidencraig R/About via Straight on low slip road Cults-Kingswells Rd Blacktop Rd Baillieswells Rd North Deeside Rd Kirk Brae Blacktop Rd Blacktop Rd Blacktop Rd Mill of Brotherfield Turn Right Turn Left | - | Turn Left |
| North Deeside Rd Milltimber Brae South Deeside Rd Turn Right Milltimber Brae South Deeside Rd Turn Aroun Milltimber Brae North Deeside Rd Turn Right North Deeside Rd Springfield Rd Turn Left Springfield Rd Queen's Rd Turn Left Queen's Rd Queen's Rd/Skene Rd (inc Bus Terminus) Crematorium Rd Car Park and Return to A944 Turn Left Skene Rd Six Mile Junction via top slip road Turn Right Jessiefield Maidencraig R/About via Iow slip road Cults-Kingswells Rd Maillieswells Rd North Deeside Rd North Deeside Rd Kirk Brae Turn Left | • | |
| North Deeside Rd Milltimber Brae South Deeside Rd Turn Right Milltimber Brae North Deeside Rd Turn Right North Deeside Rd Springfield Rd Turn Left Springfield Rd Queen's Rd Queen's Rd Hazlehead R/About Straight Or Queen's Rd/Skene Rd (inc Bus Terminus) Crematorium Rd Car Park and Return to A944 Turn Left Skene Rd Six Mile Junction via top slip road Turn Right Jessiefield Maidencraig R/About via Iow slip road Cults-Kingswells Rd Baillieswells Rd North Deeside Rd Kirk Brae Turn Left | Blacktop Rd | Turn Right |
| North Deeside Rd Milltimber Brae South Deeside Rd Turn Aroun Milltimber Brae North Deeside Rd Turn Right North Deeside Rd Springfield Rd Springfield Rd Turn Left Springfield Rd Queen's Rd Queen's Rd Queen's Rd/Skene Rd (inc Bus Terminus) Crematorium Rd Car Park and Return to A944 Turn Left Skene Rd Six Mile Junction via top slip road Turn Right Turn Right Turn Left Maidencraig R/About via Iow slip road Cults-Kingswells Rd Maillieswells Rd North Deeside Rd Turn Left Turn Left Turn Left Turn Right Turn Left | | |
| North Deeside Rd Milltimber Brae South Deeside Rd Turn Aroun Milltimber Brae North Deeside Rd Turn Right North Deeside Rd Springfield Rd Springfield Rd Queen's Rd Queen's Rd Queen's Rd/Skene Rd (inc Bus Terminus) Crematorium Rd Car Park and Return to A944 Turn Left Skene Rd Six Mile Junction via top slip road Cults-Kingswells Rd Milltimber Brae Turn Right Turn Left Turn Left Turn Left Turn Left Turn Right Turn Left Turn Left | | |
| North Deeside Rd Milltimber Brae South Deeside Rd Turn Aroun Milltimber Brae North Deeside Rd Turn Right North Deeside Rd Springfield Rd Turn Left Springfield Rd Queen's Rd Queen's Rd Hazlehead R/About Queen's Rd/Skene Rd (inc Bus Terminus) Crematorium Rd Car Park and Return to A944 Turn Left Skene Rd Six Mile Junction via top slip road Turn Right Jessiefield Maidencraig R/About via Iow slip road Cults-Kingswells Rd Milltimber Brae Turn Right Turn Right Turn Left Turn Right | • | |
| North Deeside Rd Milltimber Brae South Deeside Rd Turn Aroun Milltimber Brae North Deeside Rd Turn Right North Deeside Rd Springfield Rd Springfield Rd Queen's Rd Queen's Rd Hazlehead R/About Queen's Rd/Skene Rd (inc Bus Terminus) Crematorium Rd Car Park and Return to A944 Turn Left Skene Rd Six Mile Junction via top slip road Milltimber Brae Turn Right Turn Left Turn Left Turn Left Skene Rd Six Mile Junction via top slip road Turn Right | <u>-</u> | Turn Left |
| North Deeside Rd Milltimber Brae South Deeside Rd Turn Aroun Milltimber Brae North Deeside Rd Turn Right North Deeside Rd Springfield Rd Springfield Rd Turn Left Springfield Rd Queen's Rd Queen's Rd Hazlehead R/About Straight Or Queen's Rd/Skene Rd (inc Bus Terminus) Crematorium Rd Car Park and Return to A944 Turn Left Skene Rd Six Mile Junction via top slip road Turn Right Turn Left Maidencraig R/About via Straight on | Cults-Kingswells Rd | Turn Left |
| North Deeside Rd Milltimber Brae South Deeside Rd Turn Aroun Milltimber Brae North Deeside Rd Turn Right North Deeside Rd Turn Right North Deeside Rd Springfield Rd Turn Left Springfield Rd Queen's Rd Queen's Rd Hazlehead R/About Straight Or Queen's Rd/Skene Rd (inc Bus Terminus) Crematorium Rd Car Park and Return to A944 Skene Rd Six Mile Junction Jessiefield Turn Right | Jessiefield | Straight on |
| North Deeside Rd Milltimber Brae South Deeside Rd Turn Aroun Milltimber Brae North Deeside Rd Turn Right North Deeside Rd Springfield Rd Springfield Rd Turn Left Springfield Rd Queen's Rd Queen's Rd Hazlehead R/About Queen's Rd/Skene Rd (inc Bus Terminus) Crematorium Rd Car Park and Return to A944 Turn Left Skene Rd Six Mile Junction via top slip road Turn Aroun | | |
| North Deeside Rd Milltimber Brae South Deeside Rd Turn Aroun Milltimber Brae North Deeside Rd Turn Right North Deeside Rd Springfield Rd Springfield Rd Cueen's Rd Queen's Rd Queen's Rd/Skene Rd (inc Bus Terminus) Crematorium Rd Milltimber Brae Turn Aroun North Deeside Rd Turn Left Springfield Rd Queen's Rd Turn Left Crematorium Rd Turn Left Turn Left Turn Left Turn Left Turn Left | | Turn Around |
| North Deeside Rd Milltimber Brae South Deeside Rd Turn Aroun Milltimber Brae North Deeside Rd Turn Right North Deeside Rd Springfield Rd Springfield Rd Springfield Rd Queen's Rd Queen's Rd Queen's Rd (inc Bus Turn Left Crematorium Rd Turn Left Turn Left Turn Left Turn Left Turn Left | | |
| North Deeside RdMilltimber BraeTurn RightMilltimber BraeSouth Deeside RdTurn ArounMilltimber BraeNorth Deeside RdTurn RightNorth Deeside RdSpringfield RdTurn LeftSpringfield RdQueen's RdTurn LeftQueen's RdHazlehead R/AboutStraight Or | Terminus) | |
| North Deeside RdMilltimber BraeTurn RightMilltimber BraeSouth Deeside RdTurn ArounMilltimber BraeNorth Deeside RdTurn RightNorth Deeside RdSpringfield RdTurn LeftSpringfield RdQueen's RdTurn Left | - | Straight On |
| North Deeside Rd Milltimber Brae Turn Right Milltimber Brae South Deeside Rd Turn Aroun Milltimber Brae North Deeside Rd Turn Right North Deeside Rd Springfield Rd Turn Left | . • | |
| North Deeside RdMilltimber BraeTurn RightMilltimber BraeSouth Deeside RdTurn ArounMilltimber BraeNorth Deeside RdTurn Right | | |
| North Deeside Rd Milltimber Brae Turn Right | | Turn Right |
| North Deeside Rd Milltimber Brae Turn Right | Milltimber Brae | Turn Around |
| Total Doorse 10 | North Deeside Rd | Turn Right |
| Malcolm Rd North Deeside Rd Turn Left | Malcolm Rd | Turn Left |
| Johnston Gdns Bus Terminus return Malcolm Rd Turn | | - |
| Malcolm Rd Johnston Gdns Turn Right | Malcolm Rd | Turn Right |
| Culter Depot Malcolm Rd Turn Right | Culter Depot | Turn Right |
| STREET TO DIRECTION | STREET | DIRECTION |

Route 10A

| | = TRAFFIC CALMING | | |
|------------------------------|---|------------------------|--|
| STREET | ТО | DIRECTION | |
| CULTER | | | |
| Culter Depot | School Rd | | |
| School Rd | Bucklerburn Wynd | Turn Round | |
| School Rd | Coronation Rd | Turn Left | |
| Coronation Rd | North Deeside Rd | Complete Health Centre | |
| | | Turn Left | |
| | | | |
| MILLTIMBER | PROCEED TO MILLTIMBER | | |
| Contlaw Brae | Monearn Gardens | Turn Right | |
| Monearns Gardens | Milltimber School | Turn Round | |
| Monearn Gardens | Contlaw Brae | Turn Right | |
| Contlaw Brae | Colthill Circle | Turn Right | |
| Colthill Circle | Binghill Crescent | Turn Left | |
| Binghill Crescent | Binghill Drive | Turn Right | |
| | • | Turn Right | |
| Binghill Drive | The Meadows | | |
| The Meadows | Binghill Road | | |
| Binghill Road | North Deeside Road | Turn Left | |
| | | | |
| | PROCEED TO CULTS | | |
| CULTS | | | |
| North Deeside Rd | Quarry Rd | Turn Left | |
| Quarry Rd | Earlswell Rd complete entrance to Cults Primary | Turn Left | |
| Earlswell Rd | Hillview Cres | Turn Left | |
| Hillview Cres | Cults Avenue | Turn Right | |
| Cults Avenue | North Deeside Road | Turn Left | |
| North Deeside Road | St Devenick's Place | Turn Right | |
| St Devenick's Place | Deeview Road South | Turn Left | |
| Deeview Road South | Inchgarth Road | Turn Left | |
| Inchgarth Road | Primrosehill Road | Turn Left | |
| Primrosehill Road | Primrosehill Avenue | Turn Right | |
| Primrosehill Avenue | Inchgarth Road | Turn Left | |
| Inchgarth Road | Westerton Road | Turn Left | |
| Westerton Road | North Deeside Road | Turn Left | |
| North Deeside Road | Abbotshall Road | Turn Right | |
| Abbotshall Road | Friarsfield Road | | |
| | PROCEED TO NETHERBY ROAD | | |
| Netherby Road | Hillview Road | Turn Right | |
| Hillview Road | Hillview Drive | Turn Left | |
| Hillview Drive | Hillview Crescent | Turn Left | |
| Hillview Crescent | Cairnlee Avenue East/Terrace | Straight on | |
| Cairnlee Avenue East/Terrace | Baillieswells Road | Turn Left | |
| Baillieswells Road | Cairn Road | Turn Left | |
| Cairn Road | North Deeside Road | Turn Left | |
| North Deeside Road | Quarry Road | Turn Left | |
| Quarry Road Manse Road | Manse Road Cairn Road | Turn Left Finish | |
| WIGHTSE KODU | Califi Ruau | ГШЫ | |

(c) TRACTOR ROUTE

In order to cover car parks, steep hills and other specific locations/pedestrian areas, the following route will be operated by tractor from Tullos Depot.

Farquhar Road / Farquhar Avenue
Abbey Road / Baxter Street/ Mansfield Road / Glenbervie Road
St Nicholas Street / Correction Wynd / St Nicholas Lane
Summer Street Car Park
Jack's Brae
Summer Street from Skene Road to Skene Terrace
Gallowgate Car Park
Kittybrewster Car Park
AECC (Park and Ride)
Castlegate / Market Stance
Virginia Street / Mearns Street Car Park

(d) **SNOW CLEARANCE AREAS**

After priority routes have been cleared, when lying snow persists this will be tackled on an area basis in accordance with the following areas.

| 1. | BUCKSBURN | West of Auchmill Rd Dual Carriageway Section | | |
|----|---------------------|---|--|--|
| | | South of Bankhead Road Railway Bridge and Greenburn Drive | | |
| 2. | DYCE | North of Bankhead Road Railway Bridge and Greenburn Drive | | |
| 3. | BRIDGE OF DON | North of Bridge of Don, | North of Bridge of Don, and North of Brig o' Balgownie | |
| 4. | KINGSWELLS | | | |
| | | AREAS BOUNDED BY | _ | |
| 5. | NORTHFIELD | NORTH | Heathryfold Housing Scheme | |
| | | SOUTH | Provost Fraser Drive | |
| | | EAST | North Anderson Drive | |
| | | WEST | Howes Road | |
| 6. | WOODSIDE | NORTH | River Don | |
| | | SOUTH | Rosehill Drive / Back Hilton Road | |
| | | EAST | Great Northern Road / Powis Terrace | |
| | | WEST | North Anderson Drive | |
| 7. | SEATON / TILLYDRONE | NORTH | River Don | |
| | | SOUTH | St Machar Drive - School Road | |
| | | EAST | Beach Esplanade | |
| | | WEST | Donbank Terrace, Don Street / Great | |
| 8. | MASTRICK | NORTH | Northern Road Provost Fraser Drive | |
| | | SOUTH | Lang Stracht | |
| | | EAST | North Anderson Drive | |
| | | WEST | Sheddocksley Housing Scheme | |
| 9. | CORNHILL / CAIRNCRY | NORTH | Rosehill Drive / Back Hilton Road | |
| | | SOUTH | Westburn Road / Hutcheon Street | |

| North Anderson Drive St Machar Drive School Road | | | EAST | George Street / Powis Terrace |
|--|-----|------------------------|-------|-------------------------------|
| SOUTH | | | WEST | North Anderson Drive |
| EAST | 10. | OLD ABERDEEN | NORTH | St Machar Drive / School Road |
| EAST | | | SOUTH | |
| 11. ST. CLEMENTS NORTH Nelson Street / Urquhart Road / Hutcheon Street | | | EAST | |
| SOUTH Regent Quay / Waterloo Quay | | | WEST | Powis Terrace/George Street |
| SOUTH Regent Quay / Waterloo Quay | | | | |
| SOUTH Regent Quay / Waterloo Quay EAST Beach Esplanade WEST Mount Street / South Mount Street / Rosemount Viaduct / Schoolhill / St Lang Stracht SOUTH Skene Road/Queen's Road EAST Anderson Drive WEST A944 Lang Stracht 13. MIDSTOCKET / KINS GATE NORTH Westburn Road SOUTH Queen's Road / Carden Place / Skene Street EAST Mount Street / South Mount Street WEST Anderson Drive 14. CENTRAL AREA NORTH Skene Street/Schoolhill SOUTH Willowbank Road / Springbank Terrace/Guild Street EAST St Nicholas Street/Market Street WEST Rose Street/Holburn Street 15. HAZLEHEAD / BRAESIDE NORTH Skene Road / Queen's Road SOUTH North Deeside Road / Grat Western Road EAST Anderson Drive WEST Woodlands / Craigton Road 16. HOLBURN / BROOMHILL NORTH Queen's Road / Carden Place SOUTH Holburn Street EAST Rose Street/Holburn Street WEST Woodlands / Craigton Road 16. HOLBURN / BROOMHILL NORTH Queen's Road / Carden Place SOUTH Holburn Street EAST Rose Street WEST South Anderson Drive WEST South Riverside Drive / North Esplanade West EAST Market Street WEST Holburn Street 17. FERRYHILL NORTH Willowbank Road / Springbank Terrace / Guild Street Riverside Drive / North Esplanade West EAST Market Street WEST Holburn Street SOUTH Riverside Drive / North Esplanade West | 11. | ST. CLEMENTS | NORTH | |
| WEST Mount Street / Rosemount Viaduct / Schoolhill / St Lang Stracht 80UTH Skene Road/Queen's Road EAST Anderson Drive WEST A944 Lang Stracht 13. MIDSTOCKET / KINS GATE NORTH Westburn Road SOUTH Queen's Road / Carden Place / Skene Street EAST Mount Street / South Mount Street EAST Mount Street / South Mount Street WEST Anderson Drive 14. CENTRAL AREA NORTH Skene Street/Schoolhill SOUTH Willowbank Road / Springbank Terrace/Guild Street SOUTH Willowbank Road / Springbank Terrace/Guild Street SI Nicholas Street/Market Street WEST Rose Street/Holburn Street 15. HAZLEHEAD / BRAESIDE NORTH Skene Road / Queen's Road EAST Anderson Drive WEST Woodlands / Creigton Road 16. HOLBURN / BROOMHILL NORTH Queen's Road / Carden Place SOUTH Holburn Street EAST Rose Street WEST South Anderson Drive 17. FERRYHILL NORTH Queen's Road / Springbank Terrace / Guild Street SOUTH Riverside Drive / North Esplanade West EAST Market Street WEST Holburn Street SOUTH Riverside Drive / North Esplanade West Riverside Drive / North Esplanade West Market Street WEST Holburn Street 18. TORRY NORTH South Esplanade West / East / Greyhope Road | | | SOUTH | |
| Rosemount Viaduct / Schoolhill / St Lang Stracht | | | EAST | Beach Esplanade |
| 12. WOODEND / SUMMERHILL NORTH Skene Road/Queen's Road EAST Anderson Drive WEST A944 Lang Stracht 13. MIDSTOCKET / KINS GATE ROOTH Westburn Road SOUTH Queen's Road / Carden Place / Skene Street Mount Street / South Mount Street / South Mount Street west Anderson Drive 14. CENTRAL AREA NORTH Skene Street/Schoolhill SOUTH Willowbank Road / Springbank Terrace/Guild Street St Nicholas Street/Market Street WEST Rose Street/Holburn Street 15. HAZLEHEAD / BRAESIDE NORTH Skene Road / Queen's Road SOUTH North Deeside Road / Great Western Road Anderson Drive 16. HOLBURN / BROOMHILL NORTH Queen's Road / Carden Place FERST Rose Street WEST Woodlands / Craigton Road 16. HOLBURN / BROOMHILL NORTH Queen's Road / Carden Place SOUTH Holburn Street SOUTH Holburn Street FERST Rose Street WEST South Anderson Drive 17. FERRYHILL NORTH Willowbank Road / Springbank Terrace / Guild Street SOUTH Riverside Drive / North Esplanade West Riverside Drive / North Esplanade West WEST Holburn Street 18. TORRY NORTH South Esplanade West / East / Greyhope Road | | | WEST | |
| SOUTH Skene Road/Queen's Road EAST Anderson Drive WEST A944 Lang Stracht 13. MIDSTOCKET / KINS GATE NORTH Westburn Road SOUTH Queen's Road / Carden Place / Skene Street Mount Street / South Mount Street EAST Mount Street / South Mount Street WEST Anderson Drive 14. CENTRAL AREA NORTH Skene Street/Schoolhill SOUTH Willowbank Road / Springbank Terrace/Guild Street EAST St Nicholas Street/Market Street WEST Rose Street/Holburn Street 15. HAZLEHEAD / BRAESIDE NORTH Skene Road / Queen's Road SOUTH North Deeside Road / Great Western Road Anderson Drive WEST Woodlands / Craigton Road 16. HOLBURN / BROOMHILL NORTH Queen's Road / Carden Place SOUTH Holburn Street EAST Rose Street WEST South Anderson Drive 17. FERRYHILL NORTH Willowbank Road / Springbank Terrace / Guild Street SOUTH Riverside Drive / North Esplanade West FAST Market Street NORTH Riverside Drive / North Esplanade West EAST Market Street Holburn Street SOUTH Riverside Drive / North Esplanade West FAST Market Street WEST Holburn Street | 12. | WOODEND / SUMMERHILL | NORTH | |
| 13. MIDSTOCKET / KINS GATE NORTH Westburn Road SOUTH Queen's Road / Carden Place / Skene Street EAST Mount Street / South Mount Street WEST Anderson Drive 14. CENTRAL AREA NORTH Skene Street/Schoolhill SOUTH Willowbank Road / Springbank Terrace/Guild Street EAST St Nicholas Street/Warket Street WEST Rose Street/Holburn Street WEST Rose Street/Holburn Street 15. HAZLEHEAD / BRAESIDE NORTH Skene Road / Queen's Road SOUTH North Deeside Road / Great Western Road EAST Anderson Drive WEST Woodlands / Craigton Road 16. HOLBURN / BROOMHILL NORTH Queen's Road / Carden Place SOUTH Holburn Street EAST Rose Street WEST South Anderson Drive 17. FERRYHILL NORTH Willowbank Road / Springbank Terrace / Guild Street SOUTH Riverside Drive / North Esplanade West EAST Market Street WEST Holburn Street EAST Market Street WEST Holburn Street SOUTH Riverside Drive / North Esplanade West EAST Market Street WEST Holburn Street EAST Market Street WEST Holburn Street WEST Holburn Street EAST Market Street WEST Holburn Street | | | SOUTH | Skene Road/Queen's Road |
| 13. MIDSTOCKET / KINS GATE | | | EAST | Anderson Drive |
| SOUTH Queen's Road / Carden Place / Skene Street Mount Street / Shene Street/Schoolhill / South / Millowbank Road / Springbank Terrace/Guild Street / Mount Deside Road / Great Western Road / Anderson Drive / Mount Deside Road / Great Western Road / Anderson Drive / Mount Deside Road / Carden Place / Mount Deside Road / Springbank Terrace / Mount Deside Road / Springbank Terrace / Guild Street / Mount Deside Road / Springbank Terrace / Guild Street / Mount Street / Mount Deside Road / Mount Deside Road / Mount Deside Road / Springbank Terrace / Mount Deside Road / Springbank Terrace / Mount Deside Road / Mount Desi | | | WEST | A944 Lang Stracht |
| Street Mount Street / South Mount Street WEST Anderson Drive 14. CENTRAL AREA NORTH Skene Street/Schoolhill SOUTH Willowbank Road / Springbank Terrace/Guild Street St Nicholas Street/Market Street WEST Rose Street/Holburn Street NORTH Skene Road / Queen's Road EAST Anderson Drive WEST Woodlands / Craigton Road 16. HOLBURN / BROOMHILL NORTH EAST WEST Woodlands / Craigton Road 16. HOLBURN / BROOMHILL NORTH EAST Rose Street WEST South Anderson Drive 17. FERRYHILL NORTH Willowbank Road / Springbank Terrace / Guild Street Riverside Drive / North Esplanade West Riverside Drive / North Esplanade West EAST Market Street WEST Holburn Street South Esplanade West / East / Greyhope Road | 13. | MIDSTOCKET / KINS GATE | NORTH | Westburn Road |
| EAST Mount Street / South Mount Street WEST Anderson Drive 14. CENTRAL AREA NORTH Skene Street/Schoolhill SOUTH Willowbank Road / Springbank Terrace/Guild Street EAST St Nicholas Street/Market Street WEST Rose Street/Holburn Street 15. HAZLEHEAD / BRAESIDE NORTH Skene Road / Queen's Road SOUTH North Deeside Road / Great Western Road EAST Anderson Drive WEST Woodlands / Craigton Road 16. HOLBURN / BROOMHILL NORTH Queen's Road / Carden Place SOUTH Holburn Street EAST Rose Street WEST South Anderson Drive WEST South Anderson Drive 17. FERRYHILL NORTH Willowbank Road / Springbank Terrace / Guild Street SOUTH Riverside Drive / North Esplanade West EAST Market Street WEST Holburn Street SOUTH Riverside Drive / North Esplanade West EAST Market Street WEST Holburn Street SOUTH Splanade West / East / Greyhope Road | | | SOUTH | |
| 14. CENTRAL AREA NORTH Skene Street/Schoolhill SOUTH Willowbank Road / Springbank Terrace/Guild Street EAST St Nicholas Street/Market Street WEST Rose Street/Holburn Street 15. HAZLEHEAD / BRAESIDE NORTH Skene Road / Queen's Road EAST North Deeside Road / Great Western Road EAST Woodlands / Craigton Road 16. HOLBURN / BROOMHILL NORTH Queen's Road / Carden Place SOUTH Holburn Street EAST Rose Street WEST South Anderson Drive 17. FERRYHILL NORTH Willowbank Road / Springbank Terrace / Guild Street SOUTH Riverside Drive / North Esplanade West EAST Market Street WEST Holburn Street 18. TORRY NORTH South Esplanade West / East / Greyhope Road | | | EAST | |
| SOUTH Willowbank Road / Springbank Terrace/Guild Street EAST St Nicholas Street/Market Street WEST Rose Street/Holburn Street 15. HAZLEHEAD / BRAESIDE NORTH Skene Road / Queen's Road EAST Anderson Drive WEST Woodlands / Craigton Road 16. HOLBURN / BROOMHILL NORTH Queen's Road / Carden Place SOUTH Holburn Street EAST Rose Street WEST South Anderson Drive 17. FERRYHILL NORTH Willowbank Road / Springbank Terrace / Guild Street SOUTH Riverside Drive / North Esplanade West EAST Market Street WEST Holburn Street SOUTH Riverside Drive / North Esplanade West EAST Market Street WEST Holburn Street SOUTH Esplanade West / East / Greyhope Road | | | WEST | Anderson Drive |
| Terrace/Guild Street St Nicholas Street/Market Street WEST Rose Street/Holburn Street 15. HAZLEHEAD / BRAESIDE NORTH Skene Road / Queen's Road SOUTH North Deeside Road / Great Western Road Anderson Drive WEST Woodlands / Craigton Road 16. HOLBURN / BROOMHILL NORTH Queen's Road / Carden Place SOUTH Holburn Street EAST Rose Street WEST South Anderson Drive 17. FERRYHILL NORTH Willowbank Road / Springbank Terrace / Guild Street SOUTH Riverside Drive / North Esplanade West EAST Market Street WEST Holburn Street 18. TORRY NORTH South Esplanade West / East / Greyhope Road | 14. | CENTRAL AREA | NORTH | Skene Street/Schoolhill |
| EAST St Nicholas Street/Market Street WEST Rose Street/Holbum Street 15. HAZLEHEAD / BRAESIDE NORTH Skene Road / Queen's Road SOUTH North Deeside Road / Great Western Road EAST Anderson Drive WEST Woodlands / Craigton Road 16. HOLBURN / BROOMHILL NORTH Queen's Road / Carden Place SOUTH Holburn Street EAST Rose Street WEST South Anderson Drive 17. FERRYHILL NORTH Willowbank Road / Springbank Terrace / Guild Street SOUTH Riverside Drive / North Esplanade West EAST Market Street WEST Holburn Street 18. TORRY NORTH South Esplanade West / East / Greyhope Road | | | SOUTH | |
| 15. HAZLEHEAD / BRAESIDE NORTH Skene Road / Queen's Road SOUTH North Deeside Road / Great Western Road EAST Anderson Drive WEST Woodlands / Craigton Road 16. HOLBURN / BROOMHILL NORTH Queen's Road / Carden Place SOUTH Holburn Street EAST Rose Street WEST South Anderson Drive 17. FERRYHILL NORTH Willowbank Road / Springbank Terrace / Guild Street SOUTH Riverside Drive / North Esplanade West EAST Market Street WEST Holburn Street 18. TORRY NORTH South Esplanade West / East / Greyhope Road | | | EAST | |
| SOUTH Road / Great Western Road / Anderson Drive WEST Woodlands / Craigton Road 16. HOLBURN / BROOMHILL NORTH Queen's Road / Carden Place SOUTH Holburn Street EAST Rose Street WEST South Anderson Drive 17. FERRYHILL NORTH Willowbank Road / Springbank Terrace / Guild Street SOUTH Riverside Drive / North Esplanade West EAST Market Street WEST Holburn Street 18. TORRY NORTH South Esplanade West / East / Greyhope Road | | | WEST | Rose Street/Holburn Street |
| Road Anderson Drive WEST Woodlands / Craigton Road 16. HOLBURN / BROOMHILL RORTH SOUTH Holburn Street EAST Rose Street WEST South Anderson Drive 17. FERRYHILL NORTH Willowbank Road / Springbank Terrace / Guild Street SOUTH Riverside Drive / North Esplanade West EAST WEST Holburn Street SOUTH Riverside Drive / North Esplanade West Holburn Street SOUTH South EAST West Holburn Street NORTH South Esplanade West / East / Greyhope Road | 15. | HAZLEHEAD / BRAESIDE | NORTH | Skene Road / Queen's Road |
| EAST Woodlands / Craigton Road 16. HOLBURN / BROOMHILL NORTH Queen's Road / Carden Place SOUTH Holburn Street EAST Rose Street WEST South Anderson Drive 17. FERRYHILL NORTH Willowbank Road / Springbank Terrace / Guild Street SOUTH Riverside Drive / North Esplanade West EAST Market Street WEST Holburn Street 18. TORRY NORTH South Esplanade West / East / Greyhope Road | | | SOUTH | |
| 16. HOLBURN / BROOMHILL NORTH Queen's Road / Carden Place SOUTH Holburn Street EAST Rose Street WEST South Anderson Drive 17. FERRYHILL NORTH Willowbank Road / Springbank Terrace / Guild Street SOUTH Riverside Drive / North Esplanade West EAST Market Street WEST Holburn Street 18. TORRY NORTH South Esplanade West / East / Greyhope Road | | | EAST | |
| SOUTH Holburn Street EAST Rose Street WEST South Anderson Drive 17. FERRYHILL NORTH Willowbank Road / Springbank Terrace / Guild Street SOUTH Riverside Drive / North Esplanade West EAST Market Street WEST Holburn Street 18. TORRY NORTH South Esplanade West / East / Greyhope Road | | | WEST | Woodlands / Craigton Road |
| EAST Rose Street WEST South Anderson Drive 17. FERRYHILL NORTH Willowbank Road / Springbank Terrace / Guild Street SOUTH Riverside Drive / North Esplanade West EAST Market Street WEST Holburn Street 18. TORRY NORTH South Esplanade West / East / Greyhope Road | 16. | HOLBURN / BROOMHILL | NORTH | Queen's Road / Carden Place |
| WEST South Anderson Drive 17. FERRYHILL NORTH Willowbank Road / Springbank Terrace / Guild Street SOUTH Riverside Drive / North Esplanade West EAST Market Street WEST Holburn Street 18. TORRY NORTH South Esplanade West / East / Greyhope Road | | | SOUTH | Holburn Street |
| 17. FERRYHILL NORTH Willowbank Road / Springbank Terrace / Guild Street Riverside Drive / North Esplanade West EAST Market Street WEST Holburn Street 18. TORRY NORTH South Esplanade West / East / Greyhope Road | | | EAST | Rose Street |
| SOUTH Guild Street Riverside Drive / North Esplanade West EAST Market Street WEST Holburn Street 18. TORRY NORTH South Esplanade West / East / Greyhope Road | | | WEST | South Anderson Drive |
| SOUTH Riverside Drive / North Esplanade West EAST Market Street WEST Holburn Street 18. TORRY NORTH South Esplanade West / East / Greyhope Road | 17. | FERRYHILL | NORTH | |
| WEST Holburn Street 18. TORRY NORTH South Esplanade West / East / Greyhope Road | | | SOUTH | |
| 18. TORRY NORTH South Esplanade West / East / Greyhope Road | | | EAST | Market Street |
| Greyhope Road | | | WEST | Holburn Street |
| | 18. | TORRY | NORTH | |
| | | | SOUTH | |

| | | EAST | Greyhope Road / Coast Road |
|-----|-----------------------|-------|--|
| | | WEST | Wellington Road |
| 19. | MANNOFIELD / GARTHDEE | NORTH | North Deeside Road/Great Western |
| | | SOUTH | Road Garthdee Road |
| | | EAST | South Anderson Drive |
| | | WEST | Pitfodels Station Road |
| 20. | KINCORTH | NORTH | South Deeside Road / Great Southern |
| | | SOUTH | Road Wellington Road (Charleston) |
| | | EAST | Wellington Road |
| | | WEST | City Boundary |
| 21. | COVE | NORTH | Tullos Industrial Estate |
| | | SOUTH | City Boundary |
| | | EAST | Sea |
| | | WEST | Wellington Road |
| 22. | CULTS/BIELDSIDE | NORTH | Countesswells Road |
| | | SOUTH | River Dee |
| | | EAST | Craigton Road / Pitfodels Station Road |
| | | WEST | Hillhead Road |
| 23. | MILLTIMBER | NORTH | A944 |
| | | SOUTH | River Dee |
| | | EAST | Hillhead Road |
| | | WEST | Contlaw Road |
| 24. | CULTER | NORTH | City Boundary |
| | | SOUTH | River Dee |
| | | EAST | Contlaw Road |
| | | WEST | Anguston Road |
| | | | |

(e) **FOOTWAY ROUTES**

Location of Plant and Resources (Footways)

| <u>Area</u> | | <u>Plant</u> | <u>Depot</u> |
|-------------|-------------------------|----------------|--------------|
| 1. | Bucksburn | 1 Kubota | Bucksburn |
| 2. | Dyce | Shared area 1 | |
| 3. | Bridge of Don | 3 Kubota | Bucksburn |
| 4. | Kingswells | 1 Kubota | Bucksburn |
| 5. | Northfield | 2 Kubota | Mastrick |
| 6. | Woodside | Shared area 13 | |
| 7. | Seaton / Tilllydrone | 1 Kubota | Bucksburn |
| 8. | Mastrick | 2 Kubota | Mastrick |
| 9. | Cornhill / Cairncry | 1 Kubota | Tullos |
| 10. | Old Aberdeen | Shared Area 7 | |
| 11 | St Clements | Shared Area 14 | |
| 12 | Woodend / Summerhill | 1 Kubota | Tullos |
| 13 | Midstocket / Kings Gate | 1 Kubota | Tullos |
| 14 | Central Area | 2 Kubota | Tullos |
| 15 | Hazelhead / Braeside | Shared area 19 | |
| 16 | Holburn / Broomhill | Shared Area 14 | |
| 17 | Ferryhill | Shared Area 20 | |
| 18 | Torry | Shared Area 21 | |
| 19 | Mannofield / Garthdee | 1 Kubota | Tullos |
| 20 | Kincorth | 1 Kubota | Tullos |
| 21 | Cove | 1 Kubota | Tullos |
| 22 | Cults / Bieldside | 1 Kubota | Culter |
| 23 | Milltimber | 1 Kubota | Culter |
| 24 | Culter | 1 Kubota | Culter |
| | | | |

Priorities in Treatment

When working in above locations, priority to be given to those areas, as part of an area response steep gradients, and to City Centre Routes 1 and 2, in particular.

The footways within Areas 1 to 24 will be treated on an area by area basis. However, within each specific area, the footways indicated in the following footway sections will be given priority within that area.

CITY CENTRE FOOTWAY PRIORITY 1 GRITTING ROUTE 1

Commence Bridge of Dee Roundabout at Holburn Street

Holburn Street East F/P to Riverside Terrace

Drive to Holburn Street at Fonthill Road

Holburn Street East F/P to Union Street

Union Street South F/P to Bridge Street

Bridge Street West F/P to Guild Street

Bridge Street East F/P to Union Street

Union Street South F/P to Market Street

Market Street West F/P to North Esplanade West

Market Street East F/P to Union Street

Union Street South F/P to Castle Street

Castle Street South F/P to King Street

King Street East F/P to Nelson Street

King Street West F/P to Castle Street

Castle Street North F/P to Broad Street

Broad Street East F/P to Schoolhill

Schoolhill North F/P to Rosemount Viaduct

Rosemount Viaduct North F/P to South Mount Street

South Mount Street East F/P to Rosemount Place

Rosemount Place North F/P to Argyll Place

Rosemount Place South F/P to South Mount Street

South Mount Street West F/P to Rosemount Viaduct

Rosemount Viaduct South F/P to Union Terrace

Union Terrace West F/P to Union Street

Union Terrace East F/P to Schoolhill

Schoolhill South F/P to Broad Street

Broad Street West F/P to Union Street

Union Street North F/P to Holburn Street

Holburn Street West F/P to Union Grove

Union Grove North F/P to Forest Avenue

Union Grove South F/P to Holburn Street

Holburn Street West F/P to Nellfield Place

Drive to Holburn Street/Riverside Terrace

Holburn Street West F/P to Bridge of Dee Roundabout

CITY CENTRE FOOTWAY PRIORITY 1 GRITTING ROUTE 2

Drive Rose Street

Rose Street West F/P to Thistle Street

Thistle Street South F/P to Albert Street

Thistle Street North F/P to Rose Street

Rose Street West F/P to Esslemont Avenue

Esslemont Avenue West F/P to Rosemount Place

Esslemont Avenue East F/P to Rose Street

Rose Street East F/P to Union Street

Drive to Chapel Street/Union Street Junction

Chapel Street West F/P to Huntly Street

Huntly Street South F/P to Rose Street

Drive to Huntly Street/Chapel Street Junction

Chapel Street East F/P to Union Street

Drive to Union Street/Bon Accord Street Junction

Bon Accord Street West F/P to Fonthill Road

Bon Accord East F/P to Union Street

Drive to Union Street/Crown Street Junction

Crown Street West F/P to Ferryhill Road

Ferryhill Road North F/P to Bon Accord Street

Ferryhill Road South F/P to Crown Street

Crown Street East F/P to Union Street

Drive to Windmill Brae North F/P to Bath Street

Windmill Brae South F/P to Crown Street

Drive to Bridge Street/Link Brae Junction

Link Brae South F/P

Drive to Guild Street/Bridge Street Junction

Guild Street North F/P to Market Street

Trinity Quay North F/P to Marischal Street

Drive to West North Street Littlejohn Street Junction

Littlejohn Street South F/P

Drive to Gallowgate Upper Kirkgate Junction

Gallowgate West F/P to Berry Street

Berry Street South F/P to Loch Street

Loch Street South F/P to George Street

George Street West F/P to John Street

John Street South F/P to North St Andrew Street

John Street North F/P to George Street

George Street West F/P to Hutcheon Street

George Street East F/P to Loch Street

Loch Street North F/P to Berry Street

Berry Street North F/P to Gallowgate

Gallowgate East F/P to Littlejohn Street

Littlejohn Street North F/P

| AREA | PRIORITY FOOTWAYS |
|--------------------------|---|
| 1. BUCKSBURN | Kepplehills Road Sclattie Park Sclattie Circle Hopetoun Grange Howes View Bankhead Road Oldmeldrum Road |
| 2. DYCE | Victoria Street (Riverview Dr to Gladstone Pl.) Dyce Shopping Centre |
| 3. BRIDGE OF DON | Newburgh Road Jesmond Drive (Middleton Rd to Whitestripes Way) Braehead Way Bodachra Road Harehill Road Cairnfold Road Danestone Terrace Scotstown Gardens Ellon Road (Bridge of Don to Broadfold Road) |
| 5. NORTHFIELD | Lintmill Terrace Quarry Road (at shops) Byron Avenue (at shops) Moir Green (at shops) |
| 7. SEATON / TILLYDRONE | King Street (School Road to High Flats) School Road Tillydrone Avenue Tillydrone Terrace Wingate Road Dempsey Terrace Conningham Gardens |
| 8. MASTRICK | Greenfern Road (at shops) |
| 9. CORNHILL / CAIRNCRY | Cornhill Road (Ashgrove Rd to Westburn Rd) Berryden Road Rosehill Drive (at shops) |
| 11. ST. CLEMENTS | Boulevard (Roundabout to Railway Bridge) |
| 12. WOODEND / SUMMERHILL | Eday Drive Eday Road (Eday Dr to Stronsay Dr) |

| | Summerhill Shopping Centre |
|---------------------------|--|
| 15. HAZLEHEAD / BRAESIDE | Countesswells Road (at shops) Springfield Road (Countesswells to Airyhall) Great Western Road (Morningside Rd to South Anderson Drive) |
| 17. FERRYHILL | South Crown Street Albury Place |
| 18. TORRY | Menzies Road (at shops corner of Grampian Place and Victoria Rd end) Grampian Place (Menzies Rd to Walker Rd) Victoria Road (Menzies Rd to Mansfield Rd) Mansfield Road Glenbervie Road Abbey Place Rockall Road Ladywell Place Brimmond Place Battock Place Oscar Place |
| 19. MANNOFIELD / GARTHDEE | Morrison Drive Ivanhoe Walk Talisman Walk Deeside Gardens Deeside Drive Deeside Crescent |
| 22. CULTS / BIELDSIDE | Abbotshall Road Kirk Brae North Deeside Road (South Avenue to Cults Hotel) Cults Avenue Hillview Crescent Quarry Road Cairn Road Baillieswells Road North Deeside Road (at Bieldside Shops) |
| 23. MILLTIMBER | Contlaw Brae Monearn Gardens |

| 24. CULTER | Malcolm Road |
|------------|---|
| | North Deeside Road (Malcolm Rd to Cairn Rd) |
| | School Road |
| | Towerview Road |
| | Coronation Road |
| | Cairn Road |
| | |

(f) STEPS/RAMPS FOR SPECIAL ATTENTION

Priority One

Commerce Street to Castlehill Steps/Ramp

Crown Terrace to Bridge Street

Green to Union Street

Mounthooly

Steps

Skene Terrace to North Silver Street

Virginia Street to Castle Terrace

Virginia Street to Marischal Street

Union Street - Correction Wynd

Steps

Priority Two

Auchmill Road Steps

Bankhead Road to A947 Steps/Ramp

Beach Boulevard to Castlehill Terrace Steps
Beach Boulevard to Hanover Street Steps
Belmont Street – Denburn Road (Patagonian Court) Steps
Gilbert Road Underpass (both sides) Ramps

Great Northern Road to Deer Road Steps / Ramps
Greenburn Underpass (both sides) Steps/Ramps

Ivanhoe Walk Steps

Kepplehills Road Steps at Shops

Mansfield Road Steps
Morningside Road to Deeside Gardens Steps

St Johns Road to A947 Steps/Ramp
Sclattie Park 3 Sets Steps

Talisman Walk Steps

(g) **CYCLEWAYS**

The Westhill path (from City boundary to Hazlehead Roundabout)

The Shell path

Cycle paths along Stoneywood Road (section of National Cycle Network)

Cove Road to Duthie Park where cycleway is part of a shared footpath

Wellheads Drive cycle path where cycleway is part of a shared footpath

Cycle paths along Wellington Road where cycleway is part of a shared footpath

(h) PARKS, CEMETERY ACCESSES, CREMATORIA ACCESS, SHELTERED HOUSING ACCESSES, UNADOPTED FOOTWAYS THROUGH COUNCIL HOUSING AREAS AND ACCESS TO OTHER COUNCIL PROPERTY

The following are lists from the above categories which should be given priority treatment.

1. Accesses to all sheltered housing complexes:

| Multi Storey Sheltered: | | | | | | |
|-------------------------|-----------------------------|------------------|--|--|--|--|
| Area 5 & 8 | Area 6,7 & 9 | Area 16, 18 & 20 | | | | |
| Granitehill House | Ashgrove Court/Gillespie | Balmoral Court | | | | |
| Regensburg Court | Castleton Court | Brimmond Court | | | | |
| Smithfield Court | Clifton Court | Gairn Court | | | | |
| | Donview House | | | | | |
| | Fullerton Court | | | | | |
| | Hilton Court | | | | | |
| | Lord Hays Court | | | | | |
| | Meadow Court | | | | | |
| | Murray Court | | | | | |
| | Seaton House | | | | | |
| | Seaview House | | | | | |
| | St Clements Court | | | | | |
| | Stewart Park Court | | | | | |
| | Woodhill Court | | | | | |

| Area 5 & 8 | Area 6,7,9 & 11 | Area 16, 18, 19 & 20 |
|----------------------|---------------------------|----------------------|
| Berrymoss Court | Aberdon Court | Balnagask Cottages(1 |
| Charlie Devine Court | Bede House Court | Balnagask Cottages(2 |
| Clashieknowe | Constitution Court | Craigton Park |
| Denmore Court/V.S. | Dominies Court | Denseat Court |
| Fairley Den | Loch Court | Janesfield Manor |
| Gray Court | Short Loanings | Margaret Clyne Court |
| Hamewith | South Constitution Street | Mark Bush Court |
| Kingswood Court | Stocket Grange | Provost Hogg Court |
| Lewis Court | · · | Rorie Court |
| Merrivale | | Thorngrove Court |
| Parkhill Court | | |
| Quarryhill Court | | |
| Taransay Court | | |

2. Accesses to following Social Work Properties

| Area 5 & 8 | Area 6,7 & 9 | Area 15, 18, & 20 |
|---------------------------|-----------------------|------------------------|
| Quarry Centre, Cumming's | | Kincorth Social Work |
| Park Crescent | | Office, Fauld's Row |
| Mastrick Social Work | Rosehill Centre, 202 | Pitfodels House, North |
| Office, Greenfern Road | Ashgrove Road West | Deeside Road, Cults |
| Williamson Family Centre, | Croft House, Oldcroft | Craigton Road Day |
| Mastrick Close | Place | Centre, Craigielea |
| | | Gardens |
| Community Special Needs | Aberdon House, | Deeside Family Centre, |
| Group, 2 Croft Road | Coningham Road, | Girdleness Road |
| | Tillydrone | |
| Burnside Day Centre, | | |
| Mastrick Drive | | |

3. Accesses to the following Cemeteries and Crematoria:

| Area 2 & 6 | Area 12,18,19,& 24 |
|----------------|------------------------|
| Dyce | Hazlehead Crematorium |
| Grove Cemetery | Culter Church Cemetery |
| _ | Springbank Cemetery |
| | Nigg Church Cemetery |
| | Hazlehead Cemetery |

4. Accesses to the following Shopping Centres

| Area 5 & 8 | Area 7 & 9 | Area 20 | |
|--------------|-----------------------------|--------------------|--|
| Byron Square | Hayton Road | Provost Watt Drive | |
| Greenfern | Tillydrone | Kincorth | |
| Cummingspark | Foresterhill Road, Cornhill | | |

5. Accesses to restaurants, where open, toilets, steps and ramps within the City Council's parks and garden

| Area 13 | Area 17 |
|---------------|---------------------------|
| Westburn Park | Duthie Park (From Polmuir |
| | Road Entrance) |

With the exception of the specific locations detailed above, all other areas in the above categories will receive priority 2 treatment.

The following Multi Storey Blocks are part of the list which will receive priority 2 treatment:

OPERATIONAL PLAN APPENDIX D – STOCK AND TREATMENT GUIDANCE

(a) Community Grit Bins.

Small quantities of salt (for use on the public roads and footpaths) are available free of charge to members of the public, subject to them supplying a suitable container and shovel, from the community grit bins sited at the following location. Some locations to be finalised.

| Community | Address of Community Bin Location. | Detailed location |
|--------------------|---|---|
| Dyce | Riverview Drive, Dyce, Aberdeen, AB217NG | Asda Car Park – Next to recycling facilities |
| Bridge of Don | Laurel Drive, Bridge Of Don, AB228HB | Tesco Car Park – Next to recycling facilities |
| Springhill Road | Springfield Rd, Aberdeen AB15 7RF | Airyhall Library – Next to recycling facilities |
| Garthdee | Garthdee Rd, Aberdeen AB10 7QA | Asda Car Park – Next to recycling facilities |
| Torry | Girdleness Road | Layby opposite 223 Girdleness Road |
| Kidd Street | Frontage of flats | |
| Crown | Near St John's Place, junction. | |
| Terrace | | |
| Justice Street | Near Recycling point | |
| Seaton Drive | Near King Street Junction | |
| Golf Road | Near Aulton Pavilion. | |
| Cove | TBC | |
| Tillydrone | TBC | |
| Northfield | TBC | |
| Matrick | TBC | |
| Hilton | TBC | |
| Rosemount | TBC | |
| Peterculter | TBC | |
| Kingswells | Park and Ride | |
| Craibstone | Park and Ride | |
| Bridge of Don | Park and Ride | |
| | | |

(b) - Decision Making Treatment Matrix - Precautionary Treatments

WINTER TREATMENT SPREAD RATE MATRIX SCOTS WINTER SERVICE SUBGROUP ADVICE

| | | Variation of Well Maintained Highways Appendix H - September 2013 | | | | | |
|-----------------|--|---|---|--|--|--|---|
| Salt Type | Precautionary Treatment for frost / ice | Column C Poor Cover medium Traffic Normal Loss | Poor Cover medium Traffic High Loss | Fair Cover medium Traffic Normal Loss | Fair Cover medium Traffic High Loss | Column K Good Cover medium Traffic Normal Loss | Good Cover medium Traffic High Loss |
| Dry Salt | RST at or above -2 Degrees and damp road | <mark>10</mark> (8) | 10(8) | 10(8) | 10(8) | 10(8) | 10(8) |
| Pre-wet Salt | conditions Table H9 of Code - where the road surface is dry | 10(8) | 10(8) | 10(8) | 10(8) | 10(8) | 10(8) |
| Treated Salt | no action is needed even when conditions are below zero | 10(7) | 10(7) | 10(7) | 10(7) | 10(7) | 10(7) |
| Dry Salt | | <mark>15(</mark> 13) | 20(16) | 10 or 15(11) | 15(13) | 10(8) | 10 |
| Pre-wet Salt | RST at or above -2 Degrees and wet road conditions | 15(12) | 15(14) | 10(10) | 15(12) | 10(8) | 10(9) |
| Treated Salt | | 10(10) | 10 or 15(11) | 10(8) | 10(10) | 10(7) | 10(7) |
| Dry Salt | RST below -2 deg C and above -5 deg C and damp road conditions | 15 or 20(17) | 20 | 10 or 15(14) | 20(17) | 10 or 15(11) | 15(13) |
| Pre-wet Salt | | 15 or 20(16) | 20(18) | 15(14) | 15(16) | 15(11) | 15(12) |
| Treated Salt | | 15(12) | 15(14) | 10 or 15 (11) | 15(12) | 10(8) | 10(10) |
| Dry Salt | RST below -2 deg C and above -5 deg C and wet road conditions | 1 x 20 then monitor & treat as required(2x1 7) | 1 x 20 then monitor & treat as requ'ed(2x20) | 1 x 20 then monitor & treat as requ'ed(2x28) | 1 x 20 thenmonitor&treatas requ'ed(2x17) | 20(20) | 1 x 20 then monitor & treat as required(25) |

| Pre-wet Salt | | 1 x 20 then monitor & treat as required(2x1 6) | 1 x 20 then monitor & treat as requ'ed(2x18) | 1 x 20 then monitor & treat as requ'ed (27) | 1 x 20 then monitor & treat as requ'ed(31) | 1 x 20 then monitor & treat as requ'ed(21 | 1 x 20 then monitor & treat as required(24) |
|-----------------|--|---|---|--|--|--|--|
| Treated Salt | | 1 x 20 then monitor & treat as required(24) | 1 x 20 then monitor & treat as requ'ed(28) | 1 x 20 then monitor & treat as requ'ed (21) | 1 x 20 then monitor & treat as requ'ed(24) | 1 x 20 then monitor & treat as requ'ed(16 | 1 x 20 then monitor & treat as required(19) |
| Dry Salt | | 1 x 20 then monitor & treat as required(2x1 6) | 1 x 20 then monitor & treat as requ'ed(2x19) | 1 x 20 then monitor & treat as requ'ed(27) | 1 x 20 thenmonitor&treatas requ'ed(2x16) | 20 | 1 x 20 then monitor & treat as required(24) |
| Pre-wet Salt | RST at or below -5 deg C and above -10 deg C and damp road conditions | 1 x 20 then monitor & treat as required(2x1 6) | 1 x 20 then monitor & treat as requ'ed(2x18) | 1 x 20 then monitor & treat as requ'ed(27) | 1 x 20 then monitor & treat as requ'ed(31) | 1 x 20 then monitor & treat as requ'ed(21 | 1 x 20 then monitor & treat as required(24) |
| Treated Salt | | 1 x 20 then monitor & treat as required(23) | 1 x 20 then monitor & treat as requ'ed(27) | 1 x 20 then monitor & treat as requ'ed (20) | 1 x 20 then monitor & treat as requ'ed(23) | 1 x 20 then monitor & treat as requ'ed(15 | 1 x 20 then monitor & treat as required(18) |
| Dry Salt | | 1 x 20 then monitor & treat as required(32) | 1 x 20 then monitor & treat as requ'ed(2x39) | 1 x 20 then monitor & treat as requ'ed(2x27) | 1 x 20 thenmonitor&treatas requ'ed(2x32) | 1 x 20 thenmonit or&treatas requ'ed(2x 20) | 1 x 20 then monitor & treat as required(2x24) |
| Pre-wet Salt | RST below -5 deg C and above -10 deg C and wet road conditions | 1 x 20* then monitor & treat as required(2x3 1) | 1 x 20 then monitor & treat as requ'ed(2x36) | 1 x 20 then monitor & treat as requ'ed2x(27) | 1 x 20 then monitor & treat as requ'ed(2x31) | 1 x 20 then monitor & treat as requ'ed(2x 21) | 1 x 20 then monitor & treat as requ'ed(2x24) |
| Treated Salt | | 1 x 20 then monitor & treat as req'red(2x23) | 1 x 20 then monitor & treat as requ'ed(2x27) | 1 x 20 then monitor & treat as requ'ed(2x20) | 1 x 20 then monitor & treat as requ'ed(2x23) | 1 x 20 then monitor & treat as requ'ed(30 | 1 x 20 then monitor & treat as required(2x18) |

Key:

() = Appendix H recommendations

- a. The treatment matrix assumes no residual de-icing material on the carriageway. The presence of residual de-icing material will be taken into account and spread rates adjusted in preparing proposed action plans. Evidence of residual salt should be based on IPS sensor/camera feedback or visual inspection.
- b. Particular attention should be given to possibility of water running across carriageways and other surfaces e.g., off adjacent fields after heavy rains, washing off previously deposited salt. Such locations should be closely monitored and may require further treatments
- c. If rain is forecast to fall on frozen surfaces then treatment should take place on the dry roads prior to the commencement of the rain and again during the rainfall until temperatures are above 0°C, subject to being completed within the council's hours of cover.

d. Salt is less effective when road temperatures are below -5° C. However salt and grit may be used on sheet ice or hard-packed snow when temperatures are exceptionally low. Where hard packed snow and ice have formed and cannot be removed by ploughing, a salt sand mix can be used in successive treatments at a spread rate of 20 – 40 g/sqm. This aids vehicle traction and acts to break up the snow and ice.

(c) <u>Precautionary Treatment Matrix for Snow Conditions</u>

| Salt Type | Precautionary Treatments Before Snow or Freezing rain | Light or Medium Traffic | Heavy Traffic | |
|--------------|---|------------------------------------|--------------------|--|
| Dry Salt | Light Chow | 20g/m ² | 20g/m ² | |
| Pre-wet Salt | Light Snow Forecast <10mm | 20g/m ² | 20g/m ² | |
| Treated Salt | Forecast < Torrini | 15g/m ² | 15g/m ² | |
| Dry Salt | Moderate/Heavy | 20g/m ² | 40g/m ² | |
| Pre-wet Salt | Snow Forecast | 20g/m ² | 40g/m ² | |
| Treated Salt | >10mm | 15g/m ² | 30g/m ² | |
| Dry Salt | Freezing rain Forecast | 1 x20g/m ² then monitor | | |
| Pre-wet Salt | | 1 x20g/m ² then monitor | | |
| Treated Salt | FUIECasi | 1 x15g/m ² then monitor | | |
| | | | | |

(d) Reactive Treatment Matrix for Ice and Compacted Snow Conditions

| Non – Precautionary/Reactive Treatments of Snow/Ice | | | | | |
|---|--------------------------------|---|--|--|--|
| During snowfall | Salt - 20g/m ² | | | | |
| Thin layers of Ice < 1mm RST above -5C | Salt - 20g/m ² | | | | |
| Thin layers of Ice < 1mm RST below -5C | Salt - 20g/m ² | Consider using Mixtures – 20-40g of Sand/Salt | | | |
| Thin layers of compacted snow/ice up to 5mm thickness. | Mixtures – 20-40g of sand/salt | | | | |
| Layer of compacted snow/ice greater than 5mm thickness. | Mixtures – 20-40g of sand/salt | Consider using sand only. | | | |

(e) Appropraite Salt and Grit Stock Levels

Salt stocks
Winter Period
Core Winter Period
Days Resilience (Overall Winter Period)
Days resilience (Core Winter Period)

1st October to 30th March 1st November to 1 March 9 days 15 days

| | Non-Win | Non-Winter stock | | Non-Core Winter Period | | Core Winter Period | |
|-----------|---------|------------------|------|------------------------|------|--------------------|--|
| Depot | Min | Max | Min | Max | Min | Max | |
| Tonnage | | | | | | | |
| Bucksburn | 2000 | 4000 | 3000 | 10000 | 3500 | 10000 | |
| Tullos | 0 | 250 | 400 | 1000 | 500 | 1000 | |
| Culter | 0 | 100 | 250 | 500 | 250 | 750 | |
| Total | 2000 | 4350 | 3650 | 11500 | 4250 | 11750 | |

Application of resilience measures to be considered at the following stock levels.

| All depots | Non-Winter stock | Non-Core Winter Period | Core Winter Period |
|------------|------------------|------------------------|--------------------|
| Tonnes | N/A | 2690 | 4485 |

The service is to have access to 200 tonnes of grit during the core winter period.

Mutual aid in salt supply and other aspects of winter service and contingency arrangements in advance, are in place through the Salt Cell Group. The 32 Scottish Councils are represented on this group through SCOTS, SOLACE and COSLA. Salt Cell is monitoring salt restock for winter 2018/19.