

# **Westmeath County Council**



## **WINTER SERVICE PLAN**

**2016 - 2017**

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**A1 Document Control**

Revision	Status	Revision Details	Date

**A2 Approval List**

Role	Name	Signature	Date
Author	Liam Galvin		17/10/2016
Checker	Michael Connolly		
Winter Service Manager	Michael Connolly		
Director of Services for Transportation	Barry Kehoe		

**A3 Distribution List**

Issued To	Organisation / Company	Location
Duty Engineers	Westmeath County Council	Duty Roster
Winter Service Supervisor(s)	Westmeath County Council	See Section A7
Enda Hannify, H and Safety Officer	Westmeath County Council	County Buildings, Mullingar
Stephen Smyth, Winter Maint. Mgr.	TII	Parkgate Street, Dublin 8
Dominic Mullaney,	Department of Transport	
David Turbridy	Longford County Council	Civic Offices, Longford
Charles McCarthy	Offaly County Council	Aras an Chontae, Tullamore
John McGrath	Meath County Council	Civic Offices, Navan
Brendan Jennings	Cavan County Council	Farnham Street, Cavan
Eugene Dwyer	Roscommon County Council	Courthouse, Roscommon
Marian Lewis	Eurolink Ltd.	M4 KEK Motorway
Head of Forecasting	Met Éireann	Glasnevin Hill, Dublin 9
Donal O'Dwyer	Colas Roadbridge JV	Colas Teoranta Limited, Unit 1G, Maynooth Business Campus, Maynooth, Co. Kildare, Ireland
Paul McCool	Westmeath County Council	Mullingar Municipal District
Patrick Nally	Westmeath County Council	Athlone Municipal District

#### A4 Purpose and Scope

The purpose of this document is to identify the processes, procedures and key personnel employed by Westmeath Local Authorities to deliver the winter service on public roads in County Westmeath.

#### A5 Policy

Winter maintenance of public roads involves dealing with severe weather conditions such as icy roads and snow clearance operations. The key aim of Westmeath Local Authorities is to keep major routes safe and as free as possible from hazardous road conditions. The County has a schedule of priority routes which are gritted with salt, each time it is deemed necessary to do so.

The table below details the routes of designated priority included in the winter service operations.

Route Designation	Description	Level of Service
Priority 1	All Motorways, National Primary and National Secondary Roads: M4, M6, N4, N6, N51, N52, N55, N62. Regional Roads R446 and R148 - Inter-urban bus route routes, Urban Roads in the Towns of Mullingar and Athlone.	To be treated during all ice/snow events
Priority 2	Regional Roads: R156, R195, R389, R390, R391 (Horsleap to Donore Cross and adjoining Steamstown School only), R392, R393, R394, R395, R400, R420, R436. Local Roads LP1136, LP1819, LP1820.	To be treated as part of the normal winter service but may have interruptions to treatment in certain severe weather events
Priority 3	Other roads to be treated from time to time as the need arises and within the budgets available.	Not treated as part of the normal winter service but may receive intermittent treatment during certain severe weather events

It should be noted that the following regional road are not included in the schedule of routes which are treated as part of the normal winter service operations;

R391: Dunore Cross to Mullingar

R444: Seeoge to Doon (via Castledaly)

Treatment Route	Priority 1	Priority 2	Priority 3
Mobilisation Time	0.5 hr	0.5 hr	When possible
Treatment Time	2.5 hr	2.5 hrs	When possible

## **A6 Overall Map of the Service Plan Area**

A map of the priority routes is included in Appendix 2.

Cross boundary arrangements in place are as follows:

**In County Westmeath but treated by others:**

- M4 Motorway and N4 Dual Carriageway treated by Colas Roadbridge JV
- M6 Motorway and N6 Dual Carriageway treated by Colas Roadbridge JV
- R400 From Rochfordbridge to Offaly County Boundary: Treated by Offaly County Council
- R389 From Kilbeggan to Offaly County Boundary: Treated by Offaly County Council
- R420 (extension of Clara Road, Moate from M6 Junction 6 to R446): Treated by Offaly County Council

**In adjoining Counties but treated by Westmeath County Council:**

- R446 (Old N6): From Horsleap towards Moate for 7km which is in County Offaly

## **A7 Rosters**

Details of the duty rosters are as follows:

- A Roster of duty engineers has been prepared
- Supervisors on call:  
Martin Murray, General Services Supervisor, Mullingar Municipal District  
Or  
Tom Smyth, General Services Supervisor, Mullingar Municipal District  
  
Pat Hessian, General Services Supervisor, Athlone Municipal District  
Or  
Wesley Burke, General Services Supervisor, Athlone Municipal District  
Or  
Brian Fallon, Foreman, Athlone Municipal District
- Mechanics and fitters; Chris Allen, Garage Foreman called as required.
- Drivers: Roster has been prepared and will be reviewed during the season.



**Drivers Vehicles & Gritters 2016 2017**

<b><u>Driver</u></b>	<b><u>Make</u></b>	<b><u>No Axles</u></b>	<b><u>Size of Gritter</u></b>	<b><u>Make</u></b>	<b><u>Reg Number</u></b>
<b><u>Driver 1</u></b>	Hino	3 Axle	9 Cubic Metre	Romaquip	08WH839
<b><u>Driver 2</u></b>	Scania	2 Axle	6 Cubic Metre	Romaquip	05WH3635
<b><u>Driver 3</u></b>	Hino	3 Axle	9 Cubic Metre	Romaquip	07WH4634
<b><u>Driver 4</u></b>	Scania	2 Axle	6 Cubic Metre	Romaquip	02SO281
<b><u>Driver 5</u></b>	Hino	3 Axle	9 Cubic Metre	Romaquip	07WH4665
<b><u>Driver 6</u></b>	Scania	3 Axle	9 Cubic Metre	Romaquip	97WH2205
<b><u>Driver 7</u></b>	Scania	2 Axle	6 Cubic Metre	Romaquip	10WH8755
<b><u>Driver 8</u></b>	Scania	3 Axle	9 Cubic Metre	Romaquip	01WH4245
<b><u>Driver 9</u></b>	Scania	3 Axle	9 Cubic Metre	Romaquip	152WH687
<b><u>Spare Vehicle</u></b>	Scania	2 axle	6 Cubic Metre	Romaquip	05WH3634

**Relief Drivers**

Driver 10  
Driver 11  
Driver 12  
Driver 13  
Driver 14

**A8 Contact Details**

Contact details are as follows:

- The Duty Forecaster **01 8065550**
- Technical support for the Bureau Weather Service **0044 121 683 1269**
- Garda stations (24 hour numbers):   Athlone **(090)6498550**, Mullingar **(044)9384011**  
Moate **(090)6466510**

- **Contractors**  
 Eurolink (KEK): C. McGee **087 1307349**, Dave Mackenzie **087 1307346**, Marian Lewis **087 9742006**  
 Colas Roadbridge JV (M4 and M6 Maintenance Contractor): Gerry Stenson **087 2755561**, Liam Preston **087 8333377**, Tom Conway **087 6197941**, Gerry Kelly **(087) 6767877**, Pat Brogan **087 6418439**, Donal O'Dwyer **087 239 7936**
- **Ambulance:** Mullingar **(044)9340221**, Athlone **(090)6475301** or **Dial 999**
- **Fire Department:** Mullingar **(044)9341794**, Athlone **(090) 6472937** OR **Dial 999**

## **A9 Decision Making**

All decisions regarding Winter Maintenance Priority 1 and 2 callouts will be made and advised by the Duty Engineers. The decision to commence treatments shall be based on a number of data sources with due regard to available resources. The data sources which may be used include advance weather forecasts, Vaisala road monitoring system, consultation, site inspection, and decision matrices.

The decision to initiate a callout will be made as early as possible depending on weather conditions so that the treatment can be completed if possible before the development of ice on the road surface.

## **A10 Treatment Matrix**

The following Table is a guide for the Duty Engineer when deciding on the Salt Spread Rate. If using materials other than dry unmodified salt, a modified version of this table should be prepared and included in the Winter Service Plan, based on documented evidence and the specification of suppliers.

### **Treatment Matrix Guide for Dry Unmodified Salt**

<b>Weather Conditions Road Surface Conditions Road Surface Temperature (RST)</b>	<b>Treatment Air Temperature</b>	<b>Salt Spread Rate (gm/m<sup>2</sup>)</b>	<b>Ploughing</b>
Frost or forecast frost RST at or above -2°C		10 Also refer to Note (b)	No
Frost or forecast frost RST below -2°C and above -5°C		20	No
Frost or forecast frost RST below -5°C and above -10°C and dry or damp road conditions		20	No

Weather Conditions Road Surface Conditions Road Surface Temperature (RST)	Treatment Air Temperature	Salt Spread Rate (gm/m <sup>2</sup> )	Ploughing
Frost or forecast frost RST below -5 °C and above -10 °C and wet road conditions (existing or anticipated)		2 runs X 20	No
Light snow forecast (<10mm)		20	No
Forecast for Medium/heavy snow or a freezing rain forecast		2 runs X 20	No
Ice formed	Above -5 °C	20	Not possible
Ice formed	At or below -5 °C	2 runs X 20	Not possible
Snow covering exceeding 30mm		20 to supplement ploughing, up to 40 if temperatures are falling	Required
Snow accumulations due to prolonged falls		20 to 40 to supplement ploughing	Required
Hard packed snow/ice	Above -8 °C	Successive treatments at 20 to 40 (repeat as needed)	Not possible
Hard packed snow/ice	At or below -8 °C	Successive treatments at 20 to 40, supplemented by abrasives (repeat as needed)	Not possible
Sustained low temperatures	Below -10 °C	Refer to Section <b>Error!</b> <b>Reference source not found.</b>	

**Notes:**

- (a) Rate of spread for precautionary treatments may be adjusted to take account of variations occurring along the route such as residual salt, surface moisture (in the air or on the road surface) and traffic density.
- (b) For salt stored outside, it may be necessary to increase the spread rate for precautionary treatment salting from 10gm/m<sup>2</sup> to 15-20gm/m<sup>2</sup>.
- (c) All decisions should be forecast based, recorded and require careful monitoring and review.
- (d) Ice refers to all ice on the road surface, including black ice.

## Target Spread Rates by Location

Location	Salt Spread Rate
Carriageways	As described in the Treatment Matrix Guide
Hard shoulder or carriageway marginal strips	50% of selected treatment
Porous Surfacing	Plus 25% of selected treatment
Footways, cycle tracks and pedestrian areas	25 gm/m <sup>2</sup>

## A12 Plant, Vehicles and Equipment

The plant, vehicles and equipment available to Westmeath County Council to deliver Winter Service is as follows;

### Trucks and Demountable Salt Spreaders

<u>Truck Make</u>	<u>No Axles</u>	<u>Reg Number</u>	<u>Size of Salt Spreader</u>	<u>Spreader year</u>
Hino	3 Axle	08WH839	9 Cubic Metre	2007
Scania	2 Axle	05WH3635	6 Cubic Metre	2004
Hino	3 Axle	07WH4634	9 Cubic Metre	2008
Scania	2 Axle	02SO281	6 Cubic Metre	2004
Hino	3 Axle	07WH4665	9 Cubic Metre	2009
Scania	3 Axle	97WH2205	9 Cubic Metre	2007
Scania	2 Axle	10WH8755	6 Cubic Metre	2004
Scania	3 Axle	01WH4245	9 Cubic Metre	2007
Marcedes	3 Axle	152WH687	9 Cubic Metre	2001
Scania (spare)	2 Axle	05WH3634	6 Cubic Metre	

Note: Gritters are to be permanently mounted during holiday periods.

## Snow Ploughs and Loading Shovels:

Item	Depot Location	Fitted to
1 No Snow Plough	Athlone Depot	Truck
10 No. Snow Ploughs	Mullingar Depot	Trucks
1 No Snow Plough	Mullingar Depot	Loading Shovel
1 No Loading Shovel	Mullingar Depot	N/A
1 No. JCB (Hired)	Athlone Depot	N/A

## A13 Details of Depots

Map Ref.	Salt Depots	Routes Serviced	Indoor or Outdoor	Max Capacity	Minimum stock levels at:		
					1 <sup>st</sup> Oct	15 <sup>th</sup> Dec	1 <sup>st</sup> Mar
SD 1	Salt Barn at Clonmore, Mullingar	N4,N51, N52,R148, R156, R195,R389 R390,R391, R392, R393, R394, R395,R400, R436 R446(part), LP1136, LP1819, LP1820, Mullingar & Kinnegad Towns	Indoor	1200	1000	1200	800
SD 2	Salt Storage area at Blyry, Athlone	N55, N62, R446 (part), Athlone Town	Outdoor	500	400	500	300
<b>TOTALS</b>				<b>1700</b>	<b>1400</b>	<b>1700</b>	<b>1100</b>

## **A14    Materials and Spares**

### **Salt**

The salt for Winter Service Operations is supplied by the National Roads Authority through a framework agreement for the supply of de-icing materials. Orders for de-icing materials are to be sent to [salt@nra.ie](mailto:salt@nra.ie) and shall be coordinated through Mr. Liam Galvin, Westmeath County Council, Machinery Manager.

### **Fuel**

Fuel for the winter service period is stored in the Machinery Yard Depot in Clonmore, Mullingar. The minimum level of fuel to be maintained is 50% of its capacity. Mr Liam Galvin, Westmeath County Council is responsible for re-ordering of fuel.

### **Spare Parts**

Spare parts for winter service machinery are stored at the Machinery Yard, Clonmore, Mullingar. Mr. Liam Galvin, Machinery Manager is responsible for the ordering of all parts associated with the maintenance or repair of Westmeath County Councils Winter Service Fleet. The Machinery Manager should be contacted immediately in the event of a failure or breakdown of any piece of winter service plant or equipment.

## Appendix 1 – Treatment Route Cards

### Route No. WH1

**Depot:** SD 1: Clonmore, Mullingar (Reload or top up SD 2: Blyry, Athlone)

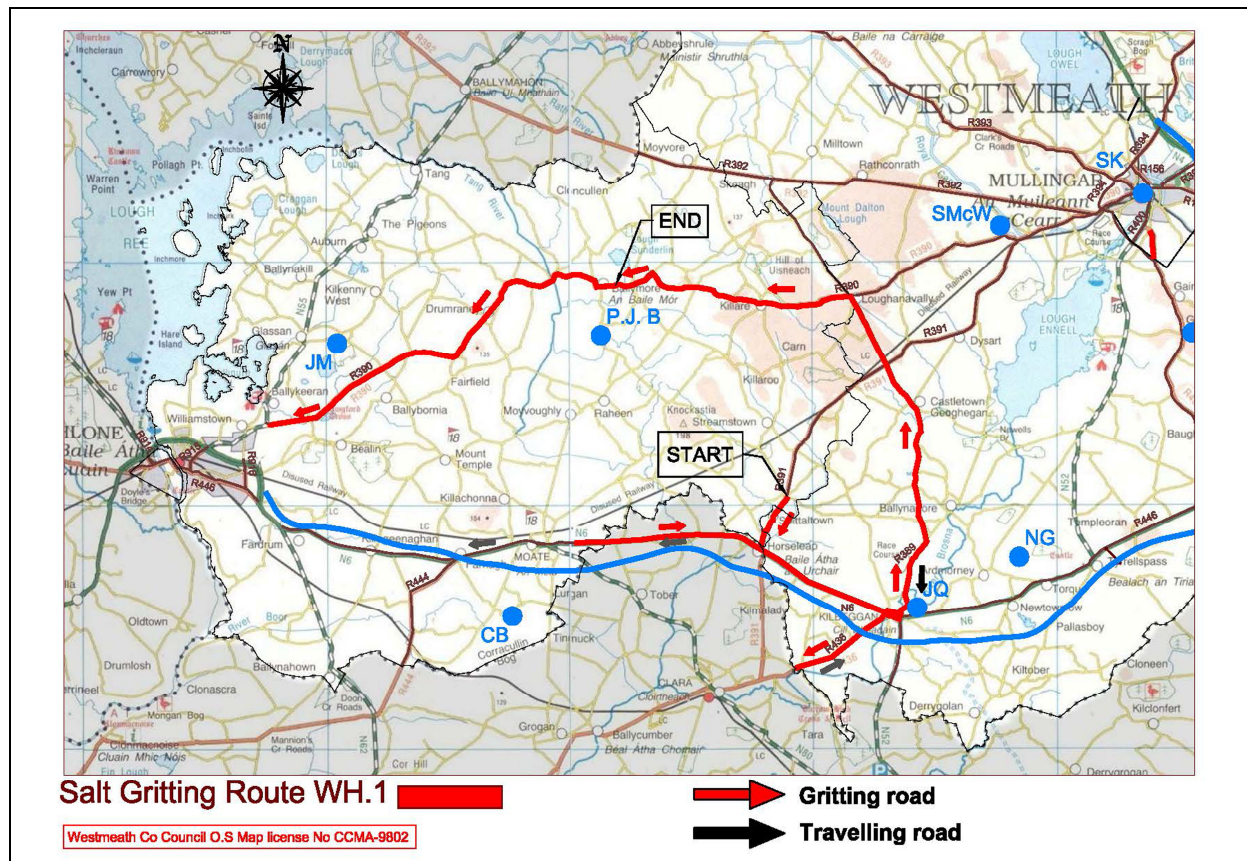
**Drivers:** Driver 1

**Vehicle:** 13 tonnes salt, Reg. No. 08 WH 839

**Route Length:** 66.4 km

**Average spread width for the route:** 7 m

**Route Tonnage at 10 / 20 / 40 gms/m<sup>2</sup>:** 4.6 / 9.3/ 18.6 tonnes



# ROUTE CARD FOR PRECAUTIONARY TREATMENT ROUTE No. WH1

Road	From	To	Action	Free run (km)	Spreading Distance (km)	Average Speed (km/hr)	Time (mins)
L1240	Route Start Point	Streamstown	Travel	11.5	--	40	17
L1240/R391	Speed Limit at School	Speed Limit on R391 at School	Salt	--	0.3	30	1
R391	Streamstown	Donore Cross Roads	Travel	2.0	--	40	3
R391	Donore Cross Roads	Junction R446 at Horseleap	Salt	--	2.5	40	4
R446	Junction R446 at Horseleap	Moate, Roundabout Dublin Road	Travel	13	0	55	14.2
R446	Roundabout Dublin Road Moate	Roundabout at Kilbeggan	Salt	0	14	60	14.0
R446	Roundabout at Kilbeggan	Junction with Clara Road	Travel	0.7	0	30	1.4
R436	Junction with R446 at Kilbeggan	County Bdy with Offaly	Salt	0	2	50	2.4
R436	County Bdy with Offaly	Clara and back to Kilbeggan	Travel	3	0	50	6.6
R389	Kilbeggan	Loughnavalley	Salt	0	19	50	22.8
R390	Loughnavalley	Junction of R390 with N55 at Ballykeeran	Salt	0	28.6	60	28.6
<b>Totals</b>				<b>30.2</b>	<b>66.4</b>		<b>115</b>
<b>Route Efficiency</b>				<b>68.7 %</b>			



## Appendix 1 (contd.)

### Route No. WH2

**Depot:** SD 2: Blyry, Athlone

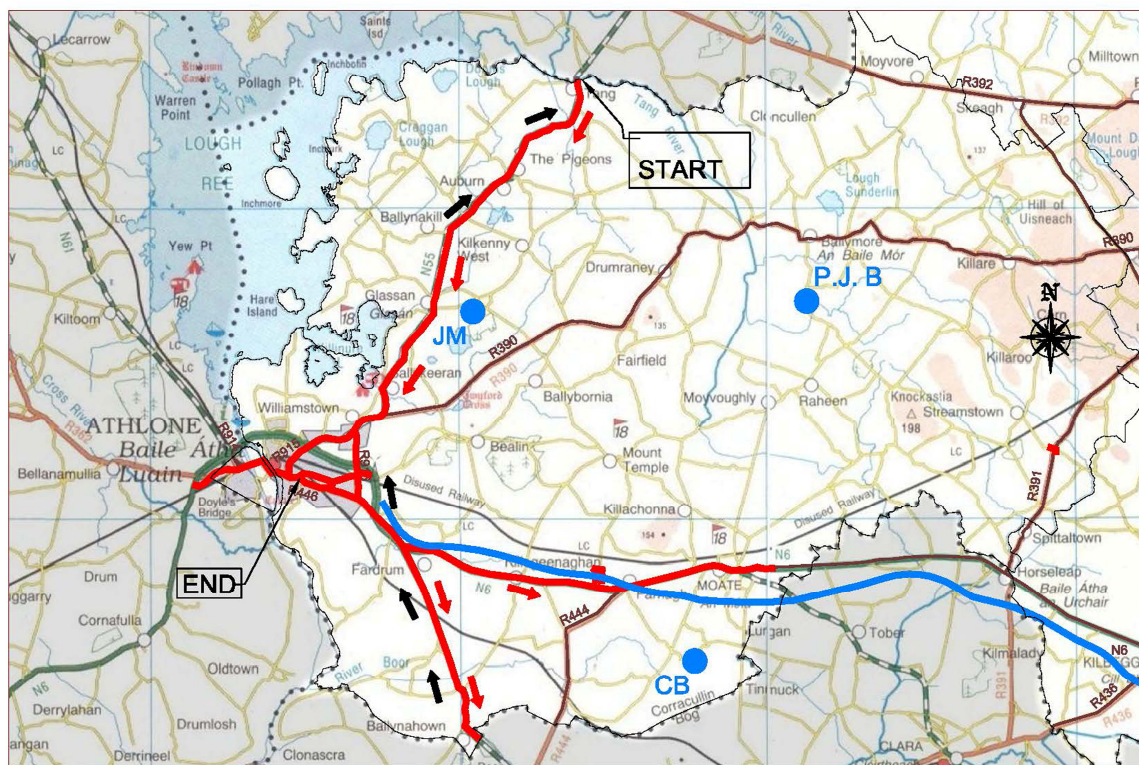
**Drivers/Teams:** Driver 2

**Vehicle:** 9 tonnes, 05 WH 3635

**Route Length:** 55.9 km

**Average spread width for the route:** 8 m

**Route Tonnage at 10 / 20 / 40 gms/m<sup>2</sup>:** 4.5 / 8.9 / 17.9 tonnes



**Salt Gritting Route WH.2**

Westmeath Co Council O.S Map license No CCMA-9802

Red arrow: Gritting road  
Black arrow: Travelling road

## ROUTE CARD FOR PRECAUTIONARY TREATMENT ROUTE No. WH2

Road	From	To	Action	Free run (km)	Spreading Distance (km)	Av. Speed (km/hr)	Time (mins)
L5463+ L5464+ N55	Route start point	County Boundary at Tang via Auburn Cross	Travel	9.3	--	45	<b>15.9</b>
N55+R915 + L4012	Co. Boundary at Tang	John Broderick Street, Athlone	Salt	--	18.5	50	22.2
L4012	John Broderick Street, Athlone	Junction with R446	Travel	0.2	--	20	0.6
R446	Junction John Broderick St	County Boundary at Baylough	Salt	--	2.9	25	<b>10.0</b>
R446	Co. Boundary at Baylough	Junction with Roscommon Rd	Travel	1.1	--	25	2.6
R914	Junction with Roscommon Rd	Roundabout on Roscommon Rd	Salt	--	0.7	20	2.1
R914 + R446	Roundabout on Roscommon Rd	Junction with Magazine Road	Travel	0.8	--	20	2.4
L4013 + L4014 + LPPP4017 +L4016	Junction with R446	Junct with R446 @ St Peter's Sq via Connaught St	Salt	--	1.0	25	2.4
R446	Junct with R446 at St Peters Sq	Custume Place	Travel	0.3	--	20	0.9
North Gate Street	Custume Place	Athlone Hospital	Salt	--	0.4	25	1.0
Station Road	Athlone Hospital	Crescent Junction	Salt	--	0.4	25	1.0
Gleeson Street	Crescent Junction	R446 Junction at J Broderick St.	Travel	0.2	--	20	0.5
R446	Junction with John Broderick Street	Creggan Roundabout	Salt	--	3.2	35	5.5
N62 (ARR)	Creggan Roundabout	South end of N62 (at M6 Jnt.)	Salt	--	0.6	30	1.2
N62 (ARR)	South end of N62 (at M6 Jnt.)	Creggan Roundabout	Salt	--	0.6	30	1.2
N62+R446	Creggan Roundabout	Moate, Dublin Rd Roundabout	salt	--	14.7	60	14.7
Moate Town	Newtown/ Station Road	Lake Road/ Windmill road	Travel & Salt	3	1.7	30	<b>6.5</b>
R446	Junction with Windmill Road, Moate	R446/N62 Junction Fardrum	Travel	10	--	60	10.0
N62	R446Junction at Fardrum	Co Bdy Offaly at Ballinahown	Salt	--	6.4	50	<b>10.7</b>
N62	Ballinahown: Co	R446 Wash-hse	Travel	9.1	--	50	10.9

	Boundary Offaly	Roundabout					
R916	R446 Wash-hse Roundabout	Garrycastle Bridge	Salt	--	0.8	35	1.4
Retreat Rd L1008+L4009	Garrycastle Bridge	Dublin Rd (incl. Auburn Heights)	Salt	--	2.8	35	<b>7.8</b>
R446	Junction of Retreat Road	Junction with Killyon Hill	Travel	1.0	--	40	1.5
Killyon Hill	Junction with R446	Junction with Retreat Road	Salt	--	0.3	30	0.6
L1008	Retreat Rd Jnt at Killyon Hill	R916 Garrycastle Bridge	Travel	0.8	--	40	1.2
R916	Garrycastle Bridge	N55 Cornamaddy Roundabout	Salt	--	0.9	50	1.1
<b>Totals</b>				<b>35.8</b>	<b>55.9</b>		<b>135.9</b>
<b>Route Efficiency</b>				<b>61%</b>			

**Time includes 5 no. 3 minutes for turning and these are shown in bold**



### ROUTE CARD FOR PRECAUTIONARY TREATMENT ROUTE No. WH3

Road	From	To	Action	Free run (km)	Spreading Distance (km)	Average Speed (km/hr)	Time (mins)
R446 + N52	Route start point	Tyrellspass N52/M6 Interchange	Travel	4.1	--	30	8.2
N52	M6 Interchange at Tyrellspass	N52: Marlinstown Roundabout	Salt	--	18.7	50	22.4
N52	Marlinstown Roundabout	N52/M6 Marlinstown Interchange	Travel	0.3	--	30	0.6
M4	Marlinstown Interchange	The Downs Junction 14	Travel	6.4	--	60	6.4
R156	The Downs Junction 14	Raharney	Salt	--	12.6	50	15.1
R156	Raharney	The Downs Junction 14	Travel	12.6	--	60	12.6
N4	The Downs Junction 14	McNeads Bridge Junction 13	Travel	1.4	--	50	1.7
R148	McNeads Bridge Junction 13	Kinnegad Chip shop	Salt	-	8.1	50	9.7
R148, R161 R446,	Kinnegad + link Road & Town	Rochfortbridge	Salt	--	16.2	50	19.4
R400	Rochfortbridge	M6 Rochfordbridge Interchange	Salt	--	1.6	30	3.2
R400	M6 Rochfordbridge Interchange	Rochfortbridge	Travel	1.6	--	30	3.2
R446	Rochfortbridge	Kilbeggan R/About East end	Salt	--	14.6	50	17.5
<b>Totals</b>				<b>26.4</b>	<b>71.8</b>		<b>120.0</b>
<b>Route Efficiency</b>				<b>73%</b>			



**Route No. WH4**

**Route Tonnage at 10 / 20 / 40 gms/m<sup>2</sup>:** 4.6/ 9.3 /18.5 tonnes



 Gritting road  
 Travelling road

## ROUTE CARD FOR PRECAUTIONARY TREATMENT ROUTE No. WH4

Road	From	To	Action	Free run (km)	Spreading Distance (km)	Average Speed (km/hr)	Time (mins)
	Route Start Point	Co. Boundary with Meath R195 (Oldcastle Road)	Travel	1.6	--	30	<b>6.2</b>
R195	Co. Boundary with Meath (Oldcastle Road)	Castlepollard	Salt	--	6.7	40	10.1
R395	Castlepollard	Delvin & round town	Salt	--	17.4	50	20.9
N51	Delvin	Meath County Boundary	Salt	--	8.0	50	<b>12.6</b>
N51	Meath County Boudary	Delvin	Travel	8.0	--	50	9.6
N52	Delvin	Meath County Boundary North of Clonmellon	Travel	11.4	--	50	<b>16.7</b>
N52	Meath County Boundary North of Clonmellon	Roundabout at N4 Junction Mullingar	Salt	--	29.6	60	29.6
<b>Totals</b>				<b>21.0</b>	<b>61.7</b>		<b>105.7</b>
<b>Route Efficiency</b>				<b>74.6%</b>			

Time includes 3 x 3 minutes for turning and these are shown in bold.

## Route No. WH5

**Depot:** S.D. 1: Clonmore, Mullingar

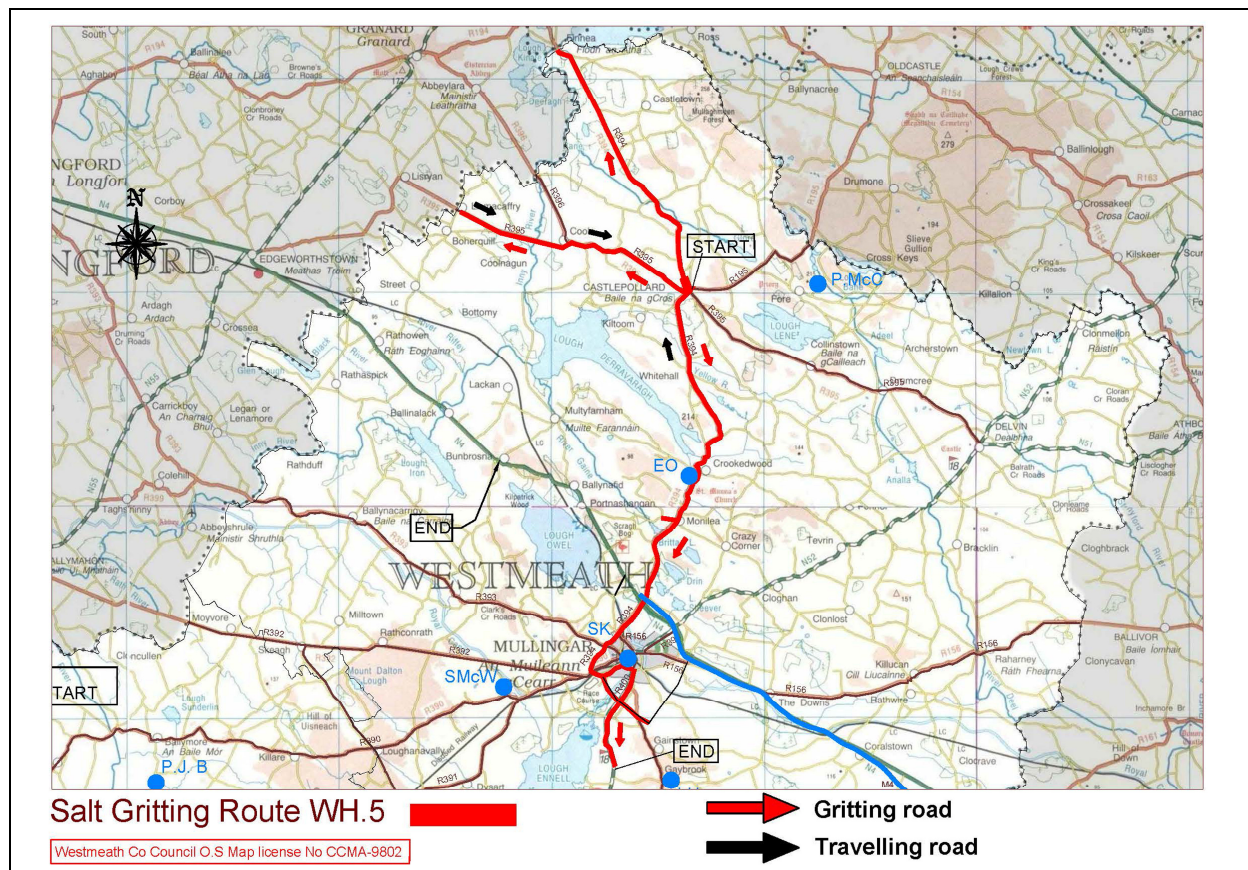
**Drivers/Teams:** Driver 5

**Vehicle:** 13.5 tonnes, 07 WH 4665

**Route Length:** 59.1 km

**Average spread width for the route:** 7.0 m

**Route Tonnage at 10 / 20 / 40 gms/m<sup>2</sup>:** 4.1 / 8.3 / 16.5 tonnes





## ROUTE CARD FOR PRECAUTIONARY TREATMENT ROUTE No. WH5

Road	From	To	Action	Free run (km)	Spreading Distance (km)	Average Speed (km/hr)	Time (mins)
R394	Route Start Point	Castlepollard	Travel	8.9	--	40	13.4
R394	Castlepollared	Finnea Village	Salt	--	15.0	50	<b>21</b>
R394	Finnea Village	Castlepollared	Salt	15.0	--	50	18
R395	Castlepollard	Co. Boundary with Longford at Lismacaffry	Salt	--	12.2	50	<b>17.6</b>
R395	Co. Boundary with Longford at Lismacaffry	Castlepollard	Travel	12.2	--	50	14.6
Castlepollard Town	Castlepollard	Maragon Factory	Salt	--	1.0	30	2
R394	Castlepollard	Taughman	Salt	--	15.0	50	18
L	Taughman Village	Towards Owen Quarry	Salt	--	0.3	40	0.5
L	Owen's Quarry	Taughman	Travel	0.3	--	40	<b>3.5</b>
R394/L2906	Taughman	Belvedere via main Clonmore Industrial Estate Road	Salt	--	14.1	50	16.9
N52	Belvedere	Tullaniskey Roundabout	Travel	3.0	-	60	3
R394	Tullaniskey Roundabout	WCC Machinery Yard	Salt	--	1.5	40	2.2
<b>Totals</b>				<b>39.4</b>	<b>59.1</b>		<b>130.7</b>
<b>Route Efficiency</b>				<b>60%</b>			

**Time includes 3 no. 3 minutes for turning and these are shown in bold**

## Appendix 1 (contd.)

### Route No. WH6

**Depot:** SD 1: Clonmore, Mullingar

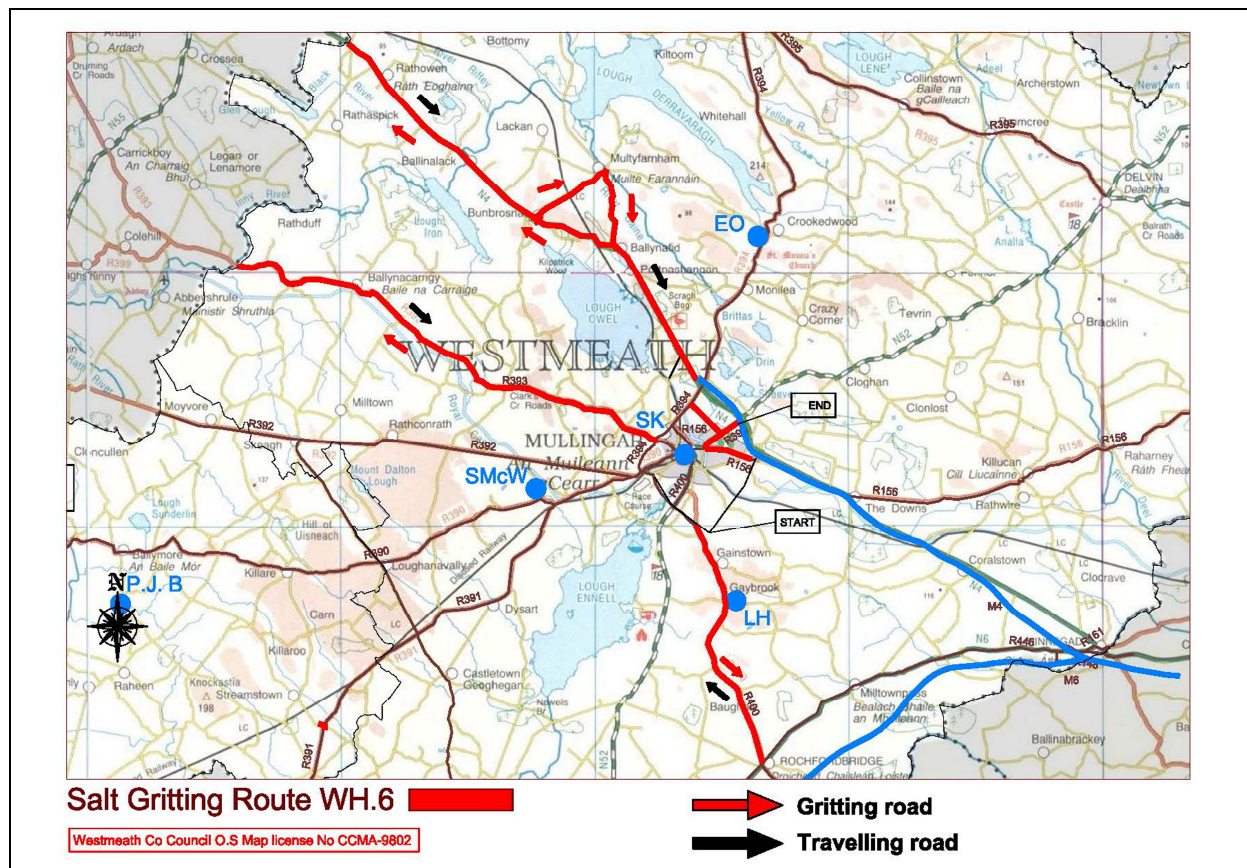
**Drivers/Teams:** Driver 6

**Vehicle:** 13.5 tonnes, 01 WH 4245

**Route Length:** 61.1 km

**Average spread width for the route:** 9 m

**Route Tonnage at 10 / 20 / 40 gms/m<sup>2</sup>:** 5.5 / 11.0 / 22.0 tonnes



# ROUTE CARD FOR PRECAUTIONARY TREATMENT ROUTE No. WH6

Road	From	To	Action	Free run (km)	Spread Distance (km)	Average Speed (km/hr)	Time (mins)
R400	Route Start Point	Rochfordbridge R400/R446 Jnt	Salt	--	6.5	45	<b>11.7</b>
R400	Rochfordbridge R400/R446 Jnt	Gainstown	Travel	10.5	--	50	12.6
R400	Gainstown	Junction R394 at Tullaniskey	Salt	--	4.0	50	4.8
R394	Junction with R400	Tullaniskey Roundabout	Travel	1.3	--	50	1.6
N52	Tullaniskey Roundabout	Roundabout at Marlinlstown	Travel	3.8	--	50	4.6
R390	Marlinstown Roundabout	Dublin Bridge Delvin Road	Salt	--	2.4	40	3.6
L1002 Delvin Road	Dublin Bridge	N4 Junction	Salt	--	1.7	50	2.0
L1002	N4 Junction	Jnt Robinstown link road	Travel	1.0	--	50	1.2
Robinstown Link Road	Junction with N52	R'about R394 C,pollard Road	Salt	--	1.8	40	2.7
R394	Roundabout on C,pollard Road	N4 C'pollard Road Junction	Travel	1.5	--	40	2.3
N4	C'pollard Road Junction	West End Dual Carriageway	Travel	1.5	--	60	1.5
N4	West End Dual Carriageway	Longford County Boundary	Salt	--	19.7	60	<b>22.7</b>
N4	Co. Boundary	Bunbrosna	Travel	10.1	--	60	10.1
L1820	Bunbrosna	Multifarnham	Salt	--	4.0	40	6.0
Multifarnham Village	To National School	And Crookedwood Road	Salt	--	1.0	30	<b>5.0</b>
L1819	Multifarnham	Ballinafid	Salt	--	3.0	40	4.5
N4	Ballinafid	Lough Owel	Travel	4.0	--	60	4.0
N4	Lough Owel	West End Dual Carriageway	Salt	--	2.0	60	2.0
N4 + R394	West End of Dual Carriageway	Roundabout on C-Link at Ballinacarrigy Rd	Travel	5.0	--	50	6.0
R393	Roundabout on R394	Ballynacargy	Salt	--	15	50	18
<b>Totals</b>				<b>38.7</b>	<b>61.1</b>		<b>126.8</b>
<b>Route Efficiency</b>				<b>61.2%</b>			

Time includes 3 no. 3 minutes for turning and these are shown in bold



# ROUTE CARD FOR PRECAUTIONARY TREATMENT ROUTE No. WH7

Road	From	To	Action	Free run (km)	Spreading Distance (km)	Average Speed (km/hr)	Time (mins)
R390	Route Start Point	Grange Roundabout	Travel	5.4	--	40	8.1
R392 + Part R390	Grange Roundabout	Longford County Boundary	Salt	--	20.0	55	21.8
R392	Longford County Boundary	Skeagh Cross: Junction with R389	Travel	6	--	60	<b>9</b>
R389	Skeagh Cross: Junction with R392	Loughnavalley: Junction with R390	Salt	--	6	55	6.5
R390	Loughnavalley: Junction with R389	Dublin Bridge, Mullingar	Salt	--	14.0	50	<b>19.8</b>
R390	Dublin Bridge, Mullingar	Nugents Corner	Travel	1.0	--	30	2
	R390: Nugents Corner	Sanders Bridge	Salt	--	0.9	30	1.8
	Sanders Bridge	Beehives & Ballinderry Hill	Salt	--	1.2	30	2.4
	Old Rochfordbridge Road	Lynn Road	Salt	--	0.3	30	0.6
R400	Lynn Road	Roundabout at Greyhound Stadium	Travel	1.1	--	40	1.7
	Roundabout at Greyhound Stadium	Mullingar Town: Incl. Auburn Rd Mount Street Castle Street Mary street Bishops Gate St. Green Road Ballinacarrigy Rd Old Longford Road to Gaelscoil	Salt	--	8.0	25	19.2
<b>Totals</b>				<b>13.5</b>	<b>50.4</b>		<b>92.9</b>
<b>Route Efficiency</b>				<b>78.9%</b>			

Time includes 2 no. 3 minutes for turning shown in bold above



