



WICKLOW COUNTY COUNCIL

WINTER SERVICE PLAN 2018 - 2019

VERSION 1.00



**TRANSPORTATION, WATER & EMERGENCY SERVICES DIRECTORATE,
WICKLOW COUNTY COUNCIL,
COUNTY BUILDINGS,
WICKLOW TOWN,
CO. WICKLOW.**

October 2018

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1.0 DOCUMENT CONTROL

This document “Wicklow County Council Winter Service Plan 2018 – 2019 defines the methodology by which Wicklow County Council intends to deliver its Winter Maintenance Programme for Winter Season of October 2018 to April 2019.

Any issues relating to the content of this plan should be referred to the Winter Services Manager for their attention.

A condensed non-sensitive version of this document may be made available on the Wicklow County Council website for public information.

Revision	Status	Revision Details	Issue Date
1.00	Draft Issue		12 th October 2018
2.0	Final		

2.0 APPROVAL LIST

This document has been circulated internally to relevant Staff for review prior to final approval.

Role	Name	Signature	Date
A/Director of Services for Transportation, Water & Emergency Services	Michael Geaney		
Senior Engineer	Michael Flynn		
Winter Service Manager	Paul Byrne		

3.0. DISTRIBUTION LIST

3.1 Internal Distribution list

This document shall be circulated to the following internal Staff in Wicklow County Council:-

Issued To	Position	Location
Michael Geaney	A/Director of Services, Transportation, Water & Emergency Services	Station Rd, Wicklow Town
Michael Flynn	Senior Engineer, Roads	Station Rd, Wicklow Town
Helena Dennehy	Senior Executive Officer, Roads	Station Rd, Wicklow Town
Paul Byrne	Winter Service Manager	Station Road, Wicklow
Allyson Minion	Administrative Officer, Roads	Station Rd, Wicklow Town
Michael Flynn	Winter Services Manager	Station Rd, Wicklow Town
Deidre Forde	Duty Engineer	Station Rd, Wicklow Town
Conor Page	Duty Engineer	Station Rd, Wicklow Town
Declan O'Brien	Duty Engineer	Station Rd, Wicklow Town
Aoife Cashman	Health & Safety Officer	Station Rd, Wicklow Town
Declan Geraghty	Baltinglass Municipal Municipal District Engineer	Blessington Area Office
Kevin Scanlon	Wicklow Municipal Municipal District Engineer	Wicklow Area Office
John Bowes	Arklow Municipal Municipal District Engineer	Arklow Area Office
Ruairi O'Hanlon	Greystones Municipal Municipal District Engineer	Greystones Area Office
Dermot Graham	Tinahely Sub - Municipal District Engineer	Tinahely Area Office
Liam Bourke	Bray Municipal Municipal District Engineer	Bray Area Office
Aidan Dempsey	Chief Fire Officer	Bray Fire Station

3.2 External Distribution

Issued To	Position	Organisation
Noel O'Driscoll	Winter Services Manager	Wexford County Council
Pat Harrington	Winter Services Manager	Carlow County Council
Adrian Barrett	Winter Services Manager	Kildare County Council
Tony O'Grady	Winter Services Manager	South Dublin Co.Co.
Seamus Moran	Winter Services Manager	Dun Laoghaire/Rathdown Co. Co.
Fraser Boyd	Operations Manager	M50 Concession Ltd.
Jason Bolger	Winter Services Manager	BAM PPP
Damien Breen	Winter Services Manager	G SJ
S. Smith	Winter Maintenance Manager	TII
P. Maher	Head of Network Operations	TII

4.0 PURPOSE OF SCOPE

The purpose of this document is to identify the processes, procedures and key personnel employed by Wicklow County Council to deliver the winter maintenance programme for County Wicklow for the operative period.

The operative period for 2018- 2019 commences on the **15th of October 2018** and ends on the **30th of April 2019**.

5.0 POLICY

Due to the length of the road network in County Wicklow, it is not feasible to treat all roads in the County during the Winter Season. Accordingly, the treatment of roads by Wicklow County Council during the Winter Service Period is based on a hierarchy of priority, which is defined as follows.

Priority 1 (Red Routes).

These are listed in the table below and consist primarily of routes which are of national importance (N81). These routes will be kept serviceable by Wicklow County Council as far as is reasonably practicable in all weather conditions.

Priority 2 (Blue Routes).

These routes listed below are of regional and local importance and Wicklow County Council will ensure as far as is reasonably practicable that these routes are kept serviceable. However, in extreme and/or prolonged weather events the maintenance of serviceability of Priority 1 Routes will take precedence over Priority 2 Routes at all times.

Priority 3 (Unmarked Routes).

These routes consist of the balance of the regional road network and the local road network. These routes are not normally treated by Wicklow County Council as part of the Winter Service Programme but may (dependent on availability of resources) be treated once Priority 1 and 2 Routes are serviceable. Within Priority 3 emphasis will be placed on roads of higher importance than the balance of the network or roads requiring special treatment due to humanitarian or other relevant issues. These will be assessed at a local level on a case by case basis.

Route Designation	Description	Level of Service
Priority 1	N81	To be treated during all weather events and includes areas where mutually beneficial agreements are in place with neighbouring Local Authorities or other neighbouring Service Providers.
Priority 2	R117, R410, R412, R746, R747, R748, R749, R750 (Part), R751, R752, R753, R754, R755, R756, R757, R758, R759 (Part), R760, R761 (Part), R762, R763, R764, R765, R766, R767, R768, R774, R772 (Part)	To be treated where weather conditions have deteriorated to an extent where 'normal' winter driving precautions are no longer sufficient to maintain public safety. There is no guarantee that these routes will be treated.
Priority 3	All other Regional Routes and locally important roads. This could include certain roads in urban areas.	Not treated as part of the normal winter service but may receive intermittent treatment during certain severe weather events.

It is the policy of Wicklow County Council to carry out Winter Maintenance based on the priority of routes and the Level of Service to be designated under each priority heading.

The mobilisation and treatment times for the route types specified above will be as follows dependent on available resources.

Treatment Route	Priority 1	Priority 2	Priority 3
Mobilisation Time	2 hr	2 hr	When possible
Treatment Time	2 hr	4 hr	When possible

Footpaths

The determination of which footpaths (if any) should be treated will be decided locally and will depend on factors such as weather conditions, proximity to public transport services and the amount of footfall on the footpath concerned. (e.g. commercial town centres and proximity to educational \ religious centres).

6.0 OVERALL MAP OF SERVICE PLAN AREA

Appendix 1 includes overall map of the area covered by the Winter Service Programme. Details included are:-

- The overall extent of the network covered by the Winter Service Plan
- The hierarchy of treatment of routes including Red for Priority 1 and Blue for Priority 2.
- Local Authority boundaries.
- Other Priority 1 Routes treated by third parties as part of their respective Winter Service Programmes.

7.0 RESPONSIBILITIES

7.1 Winter Services Manager

The Winter Services Manager (WSM) is responsible for the overall deliver of Wicklow County Councils response to cold weather events, in particular the winter salting/gritting response. The role overlaps with that of the Machinery Yard Engineer's duties in terms of responsibilities relating the plant, equipment and personnel engaged in winter Maintenance activities.

The WSM is responsible for ensuring the Winter Service Plan is updated as required. The WSM shall ensure all personnel listed in the document are briefed on their roles and responsibilities and that contact details are validated. The Winter Service Plan shall be made available to the public through the Wicklow County Council website.

The WSM shall ensure that all plant and equipment used in winter Maintenance activities is properly maintained and fit for purpose. The WSM shall also arrange calibration of plant and equipment and maintain up to date records of same.

The WSM shall prepare a rota of Duty Engineers for the winter maintenance season. The WSM shall co-ordinate the activities of the Duty Engineers and provide support and training as required.

The WSM shall monitor stocks of salt and ensure that adequate supplies of salt are maintained throughout the winter service season. The WSM shall also ensure that salt depots are properly maintained and liaise with Municipal District Engineers with regard to the upkeep and maintenance of salt depots.

The WSM shall be responsible for the overall management of Health, Safety and Welfare for all Winter Maintenance operations. Over the course of the 2018/19 season a review of the following items shall be prioritised;

- Documented Risk assessment of gritting routes
- Conduct Audit of gritting operations

- Communication equipment and mobile phone coverage
- Depot improvements including loading equipment
- Lone working policy
- Working time act compliance

The WSM shall provide a weekly update to the SEO roads on Winter Service activities. This update shall provide data for inclusion in the CE's monthly report to Members on council activities.

7.2 Winter Service Duty Engineers

Wicklow County Council maintains a roster of three Duty Engineers who operate the Transport Infrastructure Ireland (TII) Vaisala DSS Manager Weather Prediction System for Wicklow County Council for the winter service season.

It is the Duty Engineer's responsibility to provide advice to the Municipal District Engineers in relation to the treatment of Priority 1 and 2 Roads. This advice is given in accordance with the policies and procedures set out in the Winter Service Plan and is based on the forecasts and information available to the Duty Engineer on the Transport Infrastructure Ireland (TII) Vaisala DSS Manager Weather Prediction Software.

The Duty Engineers normally operate a rota of one week on and two weeks off but this may vary to ensure continuity of Duty Engineer through holiday periods. The rotation time between Duty Engineer duty periods is 9am Monday mornings or as otherwise agreed between Duty Engineers. The roster is agreed between the three Duty Engineers prior to season commencement and senior management and Municipal District Engineers are notified of the roster arrangements. The TII, Met Eireann and neighbouring Local Authorities are also notified of the Duty Engineer Roster. The Roster is contained in Appendix 2.

7.3 Municipal District Engineers

Municipal District Engineers have overall responsibility for the delivery of the Winter Service Programme within their Municipal District in accordance with the policies and procedures set out in the Winter Service Plan. They are also responsible for the operation, maintenance and upkeep of the Road Maintenance Depots within their Municipal District and shall ensure that they have sufficient manpower, machinery and resources to enable them to provide satisfactory service. The Municipal District Engineers shall report any machinery defects to the Winter Service Manager/ Machinery Yard Engineer. The Municipal District Engineer shall instruct the General Service Supervisors as to what treatments are required within their Areas.

7.4 General Service Supervisors.

The General Services Supervisors are responsible for the co-ordination of the Wicklow County Council Winter Service Programme on the ground in their respective areas. They shall act on the instruction of the Municipal District Engineer for their Area in relation to issues relating to the delivery of the Winter Service Programme. General Service Supervisors who have responsibility for salt storage depots will liaise directly with the Duty Engineer responsible for monitoring salt stocks regarding stock levels and replenishing supplies. This will generally be on a weekly basis, but may become more frequent during extreme weather events.

7.5 Drivers

The Municipal District Engineers shall endeavour to ensure that sufficient drivers are available for the satisfactory delivery of the Winter Service Programme within their Municipal District Drivers shall report any machinery or plant defects to the General Service Supervisor upon discovery to

ensure no interruption to delivery of the Winter Service Programme. The General Service Supervisor shall contact the Machinery Yard Engineer and arrange for repair or replacement of defective machinery. The Municipal District Engineers shall agree a Drivers Roster for the Drivers within their Municipal District and submit it to the Duty Engineers before the beginning of each Winter Service Season. They should also notify Duty Engineers of any changes to the Drivers Roster during the Winter Service Season. The Drivers Roster for the 2018-2019 Winter Service Season is contained in Appendix 3.

8.0 CONTACT DETAILS

Contact details for Staff involved in Winter Service Programme delivery for Wicklow County Council are listed in Appendix 4. This information is sensitive and should not be disclosed to third parties.

9.0 SUPPLEMENTARY RESOURCES

Wicklow County Council has identified a number of private hire contractors that have various agricultural type spreaders, excavators, snow plough attachments and loading shovels for use as required. The calling in of such supplementary resources is on a case - by – case basis as circumstances dictate. The use of private hire contractors will generally be directed towards priority 2 and 3 Routes while Wicklow County Council resources are focused on Priority 1 Routes.

Wicklow County Council may also utilise a number of private hauliers in order to transport de-icing material from various ports to depots in County Wicklow.

10.0 TII DECISION MATRIX

The guidelines on the decision matrix for the Duty Engineers is as follows:-

Road Surface Temperature	Precipitation	Predicted Road Conditions		
		Wet	Wet Patches	Dry
May fall below 1°C	No rain No hoar frost No fog	Salt before frost	Salt before frost (see note a)	No action likely, monitor weather (see note a)
Expected to fall below 1°C	No rain No hoar frost No fog		Salt before frost (see note b)	
	Expected hoar frost Expected fog			
	Expected rain before freezing	Salt after rain stops (see note c)		
	Expected rain during freezing	Salt before frost, as required during rain and after rain stops (see note d)		
	Possible rain Possible hoar frost Possible fog	Salt before frost	Monitor weather conditions	
Expected Snow		Salt before snow fall		
The decision to undertake precautionary treatments should be, if appropriate, adjusted to take account of residual salt or surface moisture. All decisions should be evidence based, recorded and require careful monitoring and review.				

Notes:

- (a) Particular attention should be given to the possibility of water running across carriageways and other running surfaces e.g. surface water off adjacent fields after heavy rains washing off salt previously deposited. Such locations should be closely monitored and may require treating in the evening and morning and possibly other occasions. Ideally, the source of the run-off should be diverted from the roadway.
- (b) When a weather warning contains reference to expected hoar frost, considerable deposits of frost can occur. Hoar frost usually occurs in the early morning and is difficult to cater for because of the probability that any salt deposited on a dry road too soon before its onset, may be dispersed before it can become effective. Careful monitoring is required under this forecast condition that should ideally be treated just as the hoar frost is forming. Such action is usually not practicable and salt may have to be deposited on a dry road prior to but as close as possible to the expected time of the condition. Hoar frost may also be forecast at other times of the day, in which case the timing of salting operations should be adjusted accordingly.
- (c) If under these conditions, rain has not ceased by early morning, crews should be called out and action initiated as rain ceases.
- (d) Under these circumstances rain will freeze on contact with running surfaces and full precautionary treatment should be provided even on dry roads. This is a most serious condition and should be monitored closely and carefully throughout the danger period.

11.0 TII TREATMENT MATRIX

The Treatment Guide for using Dry Unmodified Salt to treat road surfaces is as follows:-

Weather Conditions Road Surface Conditions Road Surface Temperature (RST)	Treatment Road Surface Temperature	Salt Spread Rate (gm/m ²)	Ploughing
Frost or forecast frost RST at or above -2°C		10 to 20 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
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		

Notes:

- 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.
- For salt stored outside, it may be necessary to increase the spread rate for precautionary treatment salting from 10gm/m² to 15-20gm/m².
- All decisions should be forecast based, recorded and require careful monitoring and review.
- 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	<u>Plus</u> 25% of selected treatment
Footways, cycletracks and pedestrian areas	25 gm/m ²

12.0 PLANT, VEHICLES AND EQUIPMENT

Wicklow County Council operates a fleet of 10 trucks with fully demountable gritting units and snow ploughs to deliver the Winter Service Programme. Wicklow County Council also owns 6 loading shovels to service the gritters in the various Depots. Details of all plant are contained in the Tables in Appendix 5.

13.0 WINTER SERVICE DEPOTS

The delivery of the Wicklow County Council Winter Service Programme is undertaken from a number of Depots and distributed around the County. The details of the Depot locations and capacities are listed in the following Table. A Map showing the location of the Salt Depots along with the co-ordinates and contact information for each Depot are contained in Appendix 6.

Summary Details of Winter Service Depots

REF	Salt Depot Address	Route Serviced	Capacity (Tonnes)	Stock on the 11 th October 2017 (Tonnes)
WW01	Killadreenan, Newtownmountkennedy, Wicklow	Priority 2	750	700
WW02	Baltinglass Area Depot, Kiltegan Road, Baltinglass	Priority 1 – N81 & Priority 2	600	400
WW03	Blessington Area Depot, Naas Road, Blessington	Priority 1 – N81 & Priority 2	1000	500
WW04	Ballingate, Carnew	Priority 2 -	800	100
WW05	Raheen, Roundwood	Priority 2 -	400	300
WW06	Ballygahan, Avoca, Co. Wicklow	Priority 2 -	500	200
TOTAL			4,050	2200

14.0 MATERIALS AND SPARES

14.1 Salt

Wicklow County Council will be assigned an allocation, by the TII, of salt for use on National Roads (N81) for the current operative period. A further allocation of salt will be made available, by the Department of Transport, for use on Regional and Local Roads for the same period. Both these allocations will be made based on tonnage of salt used in previous seasons. The salt provided under both these allocations has been procured by the TII and the DTTaS, under National Framework Agreements. The Duty Engineers are responsible for reporting salt consumption on a weekly basis to the TII, via the web based National Salt Management System. The Duty Engineers also co-ordinate the ordering and collection of salt allocated under the two allocations to the Winter Service Depots.

14.2 Grit

In the event of snowfall being predicted, Wicklow County Council will arrange the delivery of 2 – 6 mm crushed stone grit to various Winter Service and other Depots throughout the County. If prolonged snow is expected, the routes to quarries will be kept serviceable to ensure continuity of supply. The supply of grit will be to facilitate the mixing with salt, if necessary, or the treatment of footpaths and lower priority routes. Certain locations have been identified in each area where stock piles of grit will be held and made available for local communities to treat roads which we do not have the resources to treat. Decisions on the provision and supply of grit will be made in each Municipal District on a case-by-case basis.

14.3 Fuel & Plant

Fuel for trucks is supplied directly at local fuel distribution depots. Donkey Engines are also filled at the Machinery Yard. The Machinery Yard supervisor is responsible for ordering and maintaining supply.

The Machinery Yard in Wicklow County Council holds spares for vehicles.

The Machinery Yard in Wicklow County Council holds spares for gritters and snow blades.

15.0 MMarC AREA - GSJ CONSORTIUM AND BAM PPP

The TII Motorway Maintenance & Renewals Contract (MMaRC) Network A contractor, Globalvia Sacyr Jons (GSJ) share a Priority 1 (refer to Map) route, the M11/N11 with BAM PPP. GSJ and BAM PPP have agreed between themselves the boundary points of their Winter Service Areas along the M11/N11. This is generally located between Junctions 17 and 18. Both organisations Duty Engineers communicate their decisions to Wicklow County Councils Duty Engineers on a daily basis.

APPENDIX 1 – WINTER SERVICE MAP

APPENDIX 2 – WICKLOW COUNTY COUNCIL DUTY ENGINEERS ROSTER

Winter Service Duty Engineers' Roster for the Period 15th October 2018 to 28th April 2019

Week starting Monday	Duty Engineer's Initials	Week starting Monday	Duty Engineer's Initials	Week starting Monday	Duty Engineer's Initials	Week starting Monday	Duty Engineer's Initials
15/10/2018	DOB	03/12/2018	CP	21/01/2019	DF	11/03/2019	DOB
22/10/2018	CP	10/12/2018	DF	28/01/2019	DOB	18/03/2019	CP
29/10/2018	DF	17/12/2018	DOB	04/02/2019	CP	25/03/2019	DF
05/11/2018	DOB	24/12/2018	CP	11/02/2019	DF	01/04/2019	DOB
12/11/2018	CP	31/12/2018	DF	18/02/2019	DOB	08/04/2019	CP
19/11/2018	DF	07/01/2019	DOB	25/02/2019	CP	15/04/2019	DF
26/11/2018	DOB	14/01/2019	CP	04/03/2019	DF	22/04/2019	CP

Duty Engineer's Name & Initials	Office Phone No	Office Fax No	Office E-mail Address	Out of hours number
Deidre Forde (DF)	0404 20100	0404 69144	oradtran@wicklowcoco.ie	01 2916117
Declan O'Brien (DOB)	0404 20100	0404 69144	roadtran@wicklowcoco.ie	012916117
Conor Page (CP)	0404 20100	0404 69144	roadtran@wicklowcoco.ie	01 2916117

Send to: CAFO, Met. Éireann, Glasnevin Hill, Dublin 9. Attention: Duty SMO. E-mail: forecasts@met.ie

Copy to: Ms. Margaret Claffey, Transport Infrastructure Ireland, Parkgate Business Centre, Parkgate Street, Dublin 8. E-mail: margaret.claffey@TII.ie

APPENDIX 3 - DRIVER'S ROSTER

Drivers Roster					
Area	Driver(s)	Period	Area	Driver(s)	Period
Baltinglass Municipal District <i>(N81 & Baltinglass Route)</i>	Michael Coleman Derek Kavanagh	October 2018 – April 2019	Arklow Municipal District <i>(Arklow/Avoca Route)</i>	Sean Dunne James O'Byrne	October 2018 – April 2019
Baltinglass Municipal District <i>(N81 & Blessington Route)</i>	Pat Keogh Paddy Teevans	October 2018 – April 2019	Arklow Municipal District <i>(Aughrim Route)</i>	Andrew Byrne Declan Mulhall	October 2018 – April 2019
Baltinglass Municipal District <i>(Tinahely Route)</i>	Martin Doyle Paddy Murphy	October 2018 – April 2019	Wicklow Municipal District <i>(Ashford Route)</i>	Francis Crean Vincent Duffy Alan Doyle	October 2018 – April 2019
Greystones Municipal District <i>(Greystones Route)</i>	Leslie Carstairs Vincent Keogh	October 2018 – April 2019	Wicklow Municipal District <i>(Roundwood Route)</i>	John O'Connor Paudie Byrne	October 2018 – April 2019
Relief Drivers	Mark Byrne	October 2018 – April 2019	Bray Municipal District <i>(Enniskerry Route)</i>	David Green Wesley Armstrong	October 2018 – April 2019

Emergency Services

<i>Ambulance Service</i>		999 or 112
<i>Fire Service</i>		999 or 112
<i>Bray Fire Service</i>		01-2861534
<i>Gardai</i>		999 or 112
<i>Bray Garda Station</i>		01-6665300
<i>Civil Defence</i>		0404-67402

Technical Support

<i>Met Eireann</i>		01-8065550
<i>Vaisala Helpdesk</i>		0044-(0)121-6831269
<i>Kildare NRDO (Salt Procurement)</i>	Chris Hoban	045-898199

APPENDIX 5 - PLANT; VEHICLES AND EQUIPMENT

Description (List each piece of equipment on its own line, & its registration plate, if applicable)	Depot Location	Capacity	Date Calibrated	Date Serviced	Date of next Calibration	Date of next Service
Truck No. 18: SPREADER: 6m ³ Romaquip S/Steel PLOUGH: Romaquip S/Steel	Yard	6m ³	Dec-16	Oct-17	Dec-17	Oct-18
Truck No. 15: SPREADER: 6m ³ Romaquip S/Steel PLOUGH: Romaquip S/Steel	Tinahely (N81)	6m ³	Dec-16	Oct-17	Dec-17	Oct-18
Truck No.17: SPREADER: 6m ³ Romaquip S/Steel PLOUGH: Romaquip S/Steel	Blessington (N81)	6m ³	Dec-16	Oct-17	Dec-17	Oct-18
Truck No. 9: SPREADER: 6m ³ Romaquip S/Steel PLOUGH: Romaquip S/Steel	Blessington (N81 Reserve)	6m ³	Dec-16	Oct-17	Dec-17	Oct-18
Truck No. 1: SPREADER: 5m ³ Econ PLOUGH: Romaquip	Killadreenan (Bray)	5m ³	Dec-16	Oct-17	Dec-17	Oct-18
Truck No. 200: SPREADER: 6m ³ Romaquip S/Steel PLOUGH: Romaquip	Blessington (N81)	6m ³	Dec-16	Oct-17	Dec-17	Oct-18

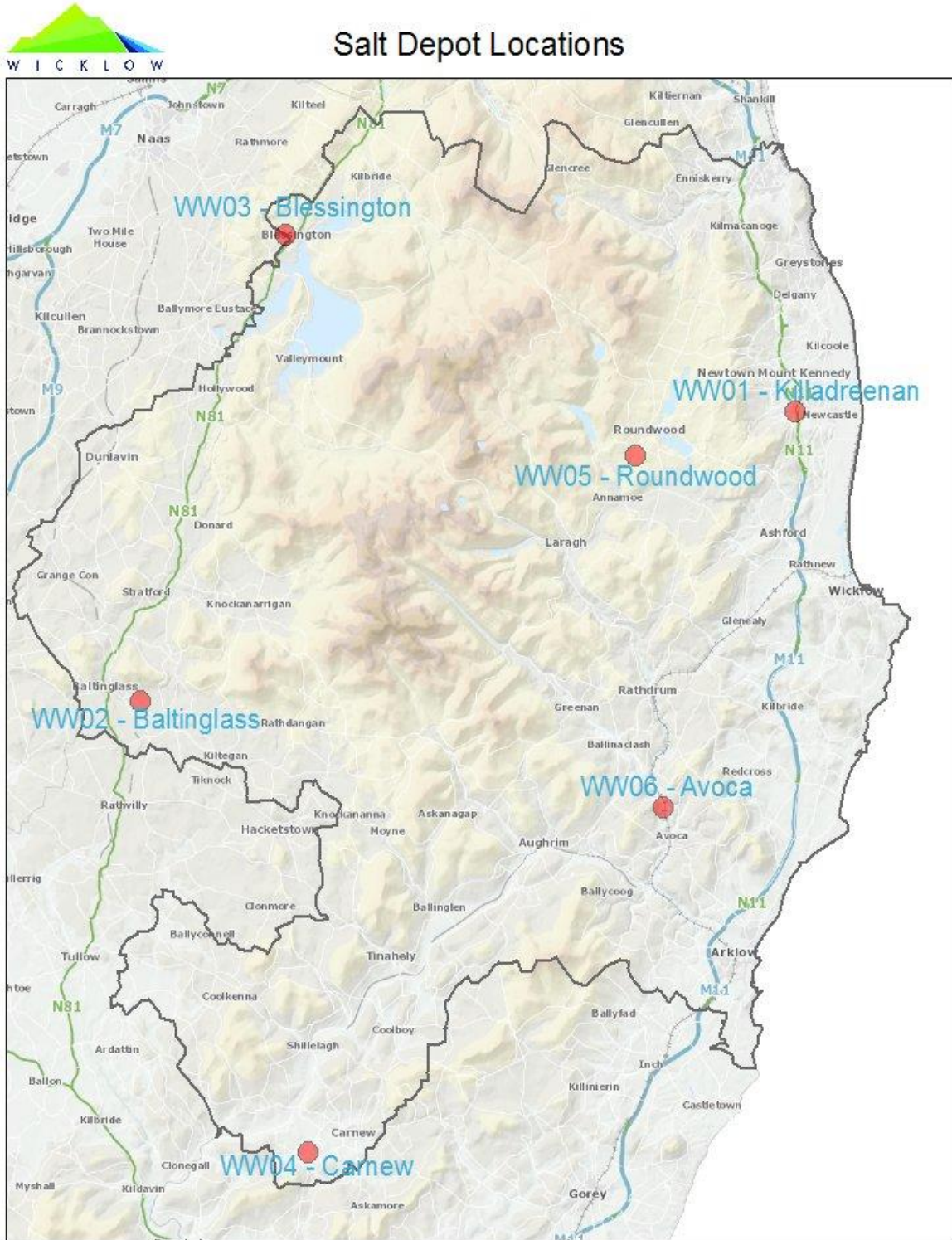
Description (List each piece of equipment on its own line, & its registration plate, if applicable)	Depot Location	Capacity	Date Calibrated	Date Serviced	Date of next Calibration	Date of next Service
Truck No. 203: SPREADER: 6m ³ Romaquip S/Steel PLOUGH: Romaquip	Roundwood	6m ³	Dec-16	Oct-17	Dec-17	Oct-18
Truck No.6: SPREADER: 6m ³ Romaquip S/Steel PLOUGH: Howie	Avoca (Arklow / Avoca)	6m ³	Dec-16	Oct-17	Dec-17	Oct-18
Truck No.201: SPREADER: 9m ³ Romaquip PLOUGH: Howie	Avoca (Aughrim)	9m ³	Dec-16	Oct-17	Dec-17	Oct-18
Truck No. 8: SPREADER: 6m ³ Romaquip S/Steel PLOUGH: Romaquip	Killadreenan (Greystones)	6m ³	Dec-16	Oct-17	Dec-17	Oct-18
Truck No. 202: SPREADER: 9m ³ Romaquip S/Steel PLOUGH: Romaquip S/Steel	Machinery Yard (Reserve)	9m ³	Dec-16	Oct-17	Dec-17	Oct-18
Truck No. 2: SPREADER: 5m ³ Econ PLOUGH: Romaquip	Killadreenan (Wicklow)	5m ³	Dec-16	Oct-17	Dec-17	Oct-18

*All additional equipment required is locally sourced based on local needs from plant hire specialists

Snowploughs & Loading Shovels	Depot Location	Fitted to	Date Serviced	Date of next Service
Teleporters:				
MANITOU 1233 M8108500	BLESSINGTON	N/A	Oct-17	Oct-18
MANITOU 1233 M8108501	BALTINGLASS	N/A	Oct-17	Oct-18
MANITOU 1233 M8108502	MACHINERY YARD	N/A	Oct-17	Oct-18
MANITOU 1233 M8108503	NEWTOWN	N/A	Oct-17	Oct-18
Other Loaders:				
JCB2CX M8108552	ROUNDWOOD	N/A	Oct-17	Oct-18
JCB2CX M8108553	MACHINERY YARD	N/A	Oct-17	Oct-18

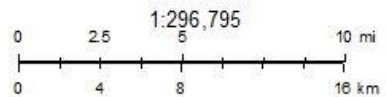
APPENDIX 6 - WINTER SERVICE DEPOTS

Ref*	Salt Depot	GPS Coords	Depot Supervisor Name	Out of hours	Indoor Capacity (Tonnes)	Outdoor Capacity (Tonnes)	Depot Storage Capacity (Tonnes)
WW01	Killadrennan	53.0728, -6.09429	John O'Gorman	(01) 291 6117	600	150	750
WW02	Baltinglass	52.9323, -6.68094	Seamus O'Halloran GSS	(01) 291 6117	0	600	600
WW03	Blessington	53.1704, -6.5447	Martin Keogh GSS	(01) 291 6117	0	1,000	1,000
WW04	Carnew	52.7143, -6.49985	Pat Scott GSS	(01) 291 6117	0	800	800
WW05	Roundwood	53.0524, -6.23787	Seamus Timmons GSS	(01) 291 6117	0	400	400
WW06	Avoca	52.8715, -6.21997	Liam Lott GSS	(01) 291 6117	0	500	500
TOTAL							4,050



December 14, 2017

— Wicklow Border



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