

OIA-4104 NOC responses

NOC	Is glyphosate used?	Regularity	How much?	How is it applied?	Any alternatives used?
Auckland Motorway Alliance	Yes	4000ltr purchased in the last financial year. Landscapes are on a maintenance rotation, this application is continuous throughout the year but at different locations. During growth seasons spring to autumn, we have a 6-8 week spray run of the medians and shoulders (dependent on growth). This run is done at night 9pm-5am utilising a computer-controlled spray boom. Boundary lines and furniture are addressed through the same seasonal periods but during the day.	This varies on the application and area: Landscaping is spot sprayed utilising knapsacks. Amount applied will vary depending on ground conditions, growth rate, season, last visit date. The concentration is in accordance with manufacturer's application rates. Spray boom applications (median and shoulders) is 1.4lr per Ha as per supplier's guidelines. This application is computer-controlled.	Through targeted hand application (knapsack) within landscapes. Road side edges (up to 2m) via spray truck. Boundary lines and street furniture via spray ute with spray wand.	Yes: Metsulfuron-methyl - pampus and gorse Picloram paste - stump pasting Oxyfloufen with butyl carbitol - adjuvant to aid glyphosate effectiveness Steam (minimal capacity)
Bay of Plenty East	Yes	4-5 times per year i.e. every 2-3 months, depending on growth	We dilute at the rate of 10lt per 1000lt. We spray at approx. 6-8km per hour. In the areas treated, the onground application rate is 13ml per sqm	Gun and boom mounted on a vehicle	No
Bay of Plenty West - rural areas	Yes	4-5 times a year, every 2-3 months, depending on growth	10lt per 1000lt @ 6-8km with red nozzle application rate is 13ml per sqm	Gun and boom	No
Bay of Plenty West - urban areas	Yes for active growing weeds but not as a prevention	Approx. 8 times per year: 6 times in spring/summer and 2 times in autumn/winter	Roadside: approx. 200ml per sqm (mixed) Gardens: approx. 70ml per sqm (mixed) These volumes are based on standard mixing rate of 1lt glyphosate 360 per 100lt water	Gun and boom	No
Central Otago	Yes	3 times from Sep to Apr	0.3ml per sqm	Gun and boom	No
Central Waikato	Yes	4-5 times/ every 2-3 months depending on growth	10lt per 1000lt @ 6-8km with red nozzle application rate is 13ml per sqm	Gun and boom	Not that I know of in the last 16 years
Coastal Otago	Yes: edge marker posts, culvert inlets and outlets, guardrails, culvert markers, side drains, kerb and channel, planted area (type 7), rest areas, signs, specific areas (e.g. McCormack's Bridge), river beds, pest plants, wilding trees (limited), bridge abutments, structural vegetation control, edge line spray (400mm), waterway aquatic plants	Over the extent of the year we would use glyphosate for up to 30 weeks	Spray rate is normally 5-15lt per Ha of 360g per lt. On expectation, a higher rate may be used	Gun and boom	Using Metsulphron and Tordon on noxious weeds
East Waikato	Yes	4-5 times per year i.e. every 2-3 months, depending on growth	We dilute at the rate of 10lt per 1000lt. We spray at approx. 6-8km per hour. In the areas treated, the onground application rate is 13ml per sqm	Gun and boom mounted on a vehicle	No
Gisborne Northern	Yes	3 times a year: Sep/Oct, Dec/Jan and Apr/May approx.	0.0003lt per sqm	Air induction flat spray jets	No
Gisborne Western	Yes	3 times a year: Sep/Oct, Dec/Jan and Apr/May approx.	0.0003lt per sqm	Air induction flat spray jets	No
Hawkes Bay	Yes	4-5 times a year, every 2-3 months, depending on growth	1.3ml glyosphate per sqm. 10lt per 1000lt	Gun and boom	No
Manawatu - Whanganui East	Yes	Approx. 4 times a year around the whole network at varying times depending on growth patterns and weather	At the label rates for the strength of glyphosate we are currently using, we use 1.3lt per ha which is 0.00013ml per sqm	Air inducted nozzles on a boom and a handgun	No, not currently, due to the lack of alternatives to glyphosate on the market and the cost would be uneconomical at the volumes needed

Marlborough	Yes	4-5 times a year as required	2.lit per hectare	Spray nozzle	
North Canterbury	Yes	1st application in Sep-Oct, 2nd application in Feb-Mar	0.6lt per sqm diluted. 0.2115g ai per sqm	With a calibrated robotic truck-mounted spray boom	Yes. Active ingredients are Triclopyr, Picloram, Aminopyralid, Metsulfuron-Methyl, Terbutylazine and Hexazinone. All are used
Northland	Yes	Verge spraying: In the last 12 months there were 3 rotations of routine verge sprays - late winter/spring, summer and late summer/autumn. Spot spraying: Targeted pest plant spraying, i.e. pampas and arundo, throughout the year as required	Verge spraying: 0.1974g per sqm per application, 0.5922g per sqm per 12 months (3 applications) Spot spraying: 0.376g per sqm	Gun and boom	For targeted pest plant control: Metsulfuron-methyl at 0.012g per sqm applied by hand gun Picloram/triclopyr at 0.025-0.075g per sqm applied by hand gun
South Canterbury	Yes	1st application in Aug-Sep, 2nd application in Feb-Mar	0.6lt per sqm diluted. 0.2115g ai per sqm	With a calibrated robotic truck-mounted spray boom	Yes. Active ingredients are Triclopyr, Picloram, Aminopyralid, Metsulfuron-Methyl, Terbutylazine and Hexazinone. All are used. None of the alternatives are applied as an alternative to glyphosate
Southland	Yes	3-4 times from Sep to Apr	5.4kg per Ha per year of active ingredient application rate of 0.0005kg per sqm per year	Applied by either boom, hand wand or knapsack	Metsulphron is used for noxious weed spraying
Taranaki NOC	Yes	Nov, Jan/Feb, Jul/Aug – Roughly depending on weather patterns. Could change, but roughly three times a year.	7.5ml per Litre of water and very roughly 6m2 per Lt.	Handgun	Alternative Herbicides or pesticides are used when dealing with particular pest vegetation such as Gorse and using Tordon, which is not glyphosate based.
Tasman (Nelson & Golden Bay)	Yes, currently used around marker pegs, street furniture, guard rails, water channels and culvert inlets and outlets	Each area can vary due to the growth. Golden Bay area is kept to a minimum of 3 times (spring, summer and a follow up before winter). Gardens and landscape areas are maintained monthly due to sheltered areas for weeds to germinate (8 - 10 times per year). SH network spraying 4 times per year. This again starts in spring with extra spray before Christmas followed by 2 spray rounds the following year	1.5ml per sqm (this is the recommended rate of this product)	Landscape areas are maintained by knapsack (hand control) and roadside spraying is carried out by boom trucks specifically designed for this application	This contract has a resource consent to adhere to while applying herbicides and is limited to the use of other herbicides
Wellington	Yes	4 times a year around the whole network at varying times, depending on growth patterns and weather	At the label rates for the strength of glyphosate we are currently using, we use 1.3lt per ha which is 0.00013ml per sqm	Air inducted nozzles on a boom and a handgun	No
West Coast	Yes	100% of Edge Marker Posts, bridge end marker posts, sign posts and barriers are treated once per year between August and December. 50% of these features require a second treatment within the same 12 months - usually 6 to 8 month post 1st treatment. This is usually due to the micro climate in the area. 100% of water tables are treated providing no water present and weed growth greater than 100mm tall in the water table. This happens between August and May as water levels allow	0.14ml of concentrate is applied per square meter. This is diluted in 50mls of water	Glyphosate is a soluble concentrate mixed into water and applied using a measured spray system. Activation of the spray nozzle and extent/ duration of spraying is controlled by an automated system that ensures early spraying or over-spray is prevented	No
West Waikato North	Yes	At least twice a year depending on growth generally during summer. Dictated by wind strength < 10 knots, and direction.	0.00015ml per sqm	Boom	Meturon at 0.0026g per sqm. Organo at 0.00002ml per sqm