



**SOLID WASTE MANAGEMENT
Annual Operations Report
Transfer Stations
2014**



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1.0 INTRODUCTION

The Regional District operates two scaled and six unscaled transfer stations within the CSRD. CSRD transfer stations offer to the public an efficient means to deposit waste in their respective communities for transport to regional refuse disposal sites. All CSRD transfer stations are fenced, staffed and recycling opportunities are available to site users.

2.0 BACKGROUND

The objectives of this report are to provide the Ministry of Environment with an overview of the activities and projects at the refuse transfer sites within the CSRD.

3.0 REGIONAL REFUSE TRANSFER STATION OPERATIONS

In 2014, a number of improvement projects were completed at CSRD transfer stations. Site specific projects are outlined in each transfer station's section. Metal is collected and hauled to landfills for salvaging at five transfer stations and directly salvaged by Richmond Steel at three transfer stations. Wood and yard and garden waste is collected and hauled to regional landfills for chipping at six transfer stations and chipped on site at two transfer stations. Three transfer stations have Re-use centres to allow for useful items to be re-used by the public. All transfer stations are equipped with annually certified fire extinguishers. Fridges, freezers and air conditioners are separated and have all liquids and ozone depleting substances removed before being added to the metal marshalling piles. All transfer stations offer collection of propane tanks and auto batteries with exception of Parson and batteries in Seymour Arm and Trout Lake. In 2014, 2721.6 tonnes of refuse was transported from transfer stations to landfills in the CSRD. This accounts for 8.3% of the regional waste stream.

3.1 SCOTCH CREEK TRANSFER STATION

Scotch Creek transfer station is the Regional District's busiest transfer station facility. The site received 1169.6 tonnes of refuse which accounts for 3.6% of the regional solid waste stream. 43.0% of waste delivered from CSRD transfer stations in 2014 was from Scotch Creek. The amount of refuse collected in 2014 was 2.8% less than in 2013. 287 refuse bins were hauled out of Scotch Creek with an average of 4.08 tonnes of refuse per bin. Scotch Creek transfer station is a scaled facility which contains three 50yd³ lidded roll-off bins collecting refuse material. The site has one 50 yd³ open-top roll-off bin which collected 103.0 tonnes of metal waste, a 0.3% increase over 2013. In 2014, the wood waste bin was used exclusively for yard and garden waste during the CSRD's free organics events which run for six weeks in the spring and six weeks in the fall. This open-top roll-off bin collected 174.5 tonnes of wood waste and 68.9 tonnes of yard and garden waste, an 8.8% decrease over 2013. All solid waste is transported from Scotch Creek to the Salmon Arm refuse disposal site. The site is open seven days a week from June 15 to September 15 to accommodate tourism and five days a week for the rest of the year. The site was inspected four times in 2014 and was found in compliance with all aspects of the contract. Recycling

opportunities are available to residents through Emterra recycling bins. Propane tanks are collected and salvaged by propane supply companies. 9 100lbs. tanks, 352 BBQ tanks and 716 1lbs. disposable tanks were salvaged in 2014. 92 auto batteries were collected from the site in 2014. Ozone depleting substances were removed from 327 units on the site before the units were added the metal recycling bin. A re-use centre is available to divert usable items from the waste stream. Safety railings were installed on all six transfer bays in the fall of 2011 and remain in good condition. Marshalling bays for asphalt shingles and gypsum drywall were constructed in 2012 allowing for these materials to be separated from the waste stream. In 2014, 63.7 tonnes of asphalt shingles and 75.4 tonnes of gypsum drywall were salvaged directly from the site. The yard and garden waste that was separated out of the wood waste stream is incorporated into the composting operation at the Salmon Arm refuse disposal site. Plans for 2015 include continued managing the new marshaled materials and upgrades to the marshalling areas.

3.2 SKIMIKIN TRANSFER STATION

The Skimikin transfer station was constructed in June, 2005 as the Skimikin refuse disposal site was closed. The site received 853.3 tonnes of refuse which accounts for 2.6% of the regional solid waste stream. 31.5% of waste delivered from CSRD transfer stations in 2014 was from Skimikin. The amount of refuse collected in 2014 was 0.6% more than in 2013. 204 refuse bins were hauled out of Skimikin with an average of 4.18 tonnes of refuse per bin. The Skimikin transfer station is a scaled facility which contains two 50yd³ lidded roll-off bins collecting refuse material. The site has one 50 yd³ open-top roll-off bin which collected 80.8 tonnes of metal waste, a 20.2% decrease over 2013. The site has one open-top roll-off bin which collected 268.6 tonnes of wood waste material, a 4.5% decrease over 2013. In 2014, the asphalt shingle/gypsum drywall split bin was used exclusively for yard and garden waste during the CSRD's free organics events which run for six weeks in the spring and six weeks in the fall. During these events 120.4 tonnes of yard and garden waste was collected. Yard and garden waste is incorporated into composting operations at the Salmon Arm landfill. Combining the yard and garden with the wood waste totals 389.0 tonnes diverted from the waste stream; an 8.3% decrease over 2013. 29.5 tonnes of gypsum drywall and 15.4 tonnes of asphalt shingles were collected and transported to marshalling areas at the Salmon Arm landfill using a divided 50yd³ roll-off bin. All solid waste is transported from Skimikin to the Salmon Arm refuse disposal site. The site was inspected three times in 2014 and was found in compliance with all aspects of the contract. Recycling opportunities are available to residents through Emterra recycling bins. Propane tanks are collected and salvaged by propane supply companies. 142 BBQ tanks were salvaged in 2014. 76 auto batteries were collected from the site in 2014. Ozone depleting substances were removed from 142 units on the site before the units were added the metal recycling bin. A re-use centre is available to divert usable items from the waste stream. Continued monitoring of the methane oxidation beds was performed in collaboration with the University of Calgary.

3.3 GLENEMMA TRANSFER STATION

The Glenemma transfer station received 150.6 tonnes of refuse which accounts for 0.5% of the regional solid waste stream. 5.5% of waste delivered from CSRD transfer stations in 2014 was from Glenemma. The amount of refuse collected in 2014 was 5.4% less than in 2013. 33 refuse bins were hauled out of Glenemma in 2014 with an average of 4.56 tonnes of refuse per bin. The Glenemma transfer station is an unscaled facility which contains two 50yd³ lidded roll-off bins collecting refuse material which are transported to the Salmon Arm refuse disposal site. A 50yd³ roll-off bin is used at the site in the spring and fall to collect yard and garden waste. 2.1 tonnes of yard and garden waste were collected in 2014. Yard and garden waste is incorporated into composting operations at the Salmon Arm landfill. Metal waste is collected at the site and is recovered by Richmond Steel. In 2014, metal was not salvaged in Glenemma. The site was inspected three times in 2014 and was found in compliance with all aspects of the contract. Recycling opportunities are available to area residents through Emterra recycling bins. Ozone depleting substances were removed from 34 units on the site before the units were added to the metal marshaling pile. Plans for 2015 include improving access to the refuse bins for the bin haulers and improvements to the marshalling areas.

3.4 FALKLAND TRANSFER STATION

The Falkland transfer station received 324.6 tonnes of refuse which accounts for 1.0 % of the regional solid waste stream. 11.9 % of waste delivered from CSRD transfer stations in 2014 was from Falkland. The amount of refuse collected in 2014 was 1.6% more than in 2013. 67 refuse bins were hauled out of Falkland in 2014 with an average of 4.85 tonnes of refuse per bin. The Falkland transfer station is an unscaled facility which contains two 50yd³ lidded roll-off bins collecting refuse material which are transported to the Salmon Arm refuse disposal site. Waste marshalling areas are available for metals, wood waste, asphalt shingles, gypsum drywall, and concrete, asphalt, porcelain and brick. In 2014, 20.0 tonnes of metal were salvaged from the site by Richmond Steel. Wood waste and yard and garden waste were separated and stock-piled on site to be chipped for use on site. A re-use centre is available to divert usable items from the waste stream. The site was inspected three times in 2014 and was found in compliance with all aspects of the contract. Recycling opportunities are available to area residents through Emterra recycling bins. Appliances containing ozone depleting substances were stockpiled on site. These units will have the ODS drained before they are added to the metal marshaling pile. Plans for 2015 include improvements to the marshalling pile area of the site.

3.5 MALAKWA TRANSFER STATION

The Malakwa transfer station received 106.6 tonnes of refuse which accounts for 0.3% of the regional solid waste stream. 3.9% of waste delivered from CSRD transfer stations in 2014 was from Malakwa. The amount of refuse collected in 2014 was 7.2% less than in 2013. 22 refuse bins were hauled out of Malakwa in 2014 with an average of 4.84 tonnes of refuse per bin. The Malakwa transfer station is an unscaled facility which contains two 50 yd³ lidded roll-off bins

collecting refuse material which was transported to the Salmon Arm refuse disposal site. Waste marshalling areas are available for metal and wood waste. 20.6 tonnes of metal was salvaged by Richmond Steel. 160m³ of wood waste and 60m³ of yard and garden waste was separated and stock-piled on site and chipped by a grinding contractor for use on site. The site was inspected three times in 2014 and was found in compliance with all aspects of the contract. Recycling opportunities are not available to area residents at the site but are available in the community through Emterra recycling bins. Appliances containing ozone depleting substances were stockpiled on site. These units will have the ODS drained before they are added to the metal marshaling pile. Plans for 2015 include improvements to the marshalling pile area of the site.

3.6 PARSON TRANSFER STATION

The Parson transfer station received 12.5 tonnes of refuse which accounts for 0.04% of the regional solid waste stream. 0.5% of waste delivered from CSRD transfer stations in 2014 was from Parson. The amount of refuse collected in 2014 was 21.4% less than in 2013. 3 refuse bins were hauled out of Parson in 2014 with an average of 4.16 tonnes of refuse per bin. The Parson transfer station is an unscaled facility which contains one 50 yd³ lidded roll-off bin collecting refuse material which is transported to the Golden refuse disposal site. In 2012, two 50 yd³ lidded roll-off bins were added to the site for the collection of metal and wood and yard and garden waste which is hauled to the Golden refuse disposal site. 3.4 tonnes of metal waste and 3.1 tonnes of wood/yard and garden waste was collected in 2014. The site was inspected two times in 2014 and was found in compliance with all aspects of the contract. Ozone depleting substances were removed from 7 units on the site before the units were added the metal recycling bin. Recycling opportunities are available to area residents through Emterra recycling bins.

3.7 TROUT LAKE TRANSFER STATION

The Trout Lake transfer station received 35.4 tonnes of refuse which accounts for 0.1% of the regional solid waste stream. 1.3% of waste delivered from CSRD transfer stations in 2014 was from Trout Lake. The amount of refuse collected in 2014 was 19.9% more than in 2013. 10 refuse bins were hauled out of Trout Lake in 2014 with an average of 3.54 tonnes of refuse per bin. The Trout Lake transfer station is an unscaled facility which contains two 40 yd³ lidded roll-off bins collecting refuse material which are transported to the Revelstoke refuse disposal site. Metal waste and wood waste was collected and stock-piled at the site and is transported to the Revelstoke refuse disposal site. 10.9 tonnes of metal waste and 12.7 tonnes of wood waste were separated at the site in 2014. The site was inspected once in 2014 and was found in compliance with all aspects of the contract. Recycling opportunities are available to area residents through Emterra recycling bins.

3.8 SEYMOUR ARM TRANSFER STATION

The Seymour Arm transfer station received 69.0 tonnes of refuse which accounts for 0.2% of the regional solid waste stream. 2.5% of waste delivered from CSRD

2014

transfer stations in 2014 was from Seymour Arm. The amount of refuse collected in 2014 was 5.9% less than in 2013. 17 refuse bins were hauled out of Trout Lake in 2014 with an average of 4.06 tonnes of refuse per bin. The Seymour Arm transfer station is an unscaled facility which contains two 50 yd³ lidded roll-off bins collecting refuse material which are transported to the Salmon Arm refuse disposal site. 14.6 tonnes of metal waste was collected at the site and transported to the Salmon Arm refuse disposal site. Ozone depleting substances were removed from 98 units on the site before the units were added the metal recycling pile. Propane tanks are collected and salvaged by propane supply companies. 49 100lbs. tanks, 137 BBQ tanks and 342 1lbs. disposable tanks were salvaged in 2014. The site was inspected one time in 2014 and was found in compliance with all aspects of the contract. Recycling opportunities are available to area residents through Emterra recycling bins.

4.0 CONCLUSION

The CSRD operates transfer stations to service areas of the district with small populations where landfills are not feasible. The CSRD will continue to upgrade these facilities as well as provide more recycling and re-use options to residents in 2015. Transferring waste to centralized landfills is the most environmentally and economically sound solution to meet the waste management goals of the regional district.