

# ENVIRONMENT ACT LICENCE #1089E RR

# BIOSOLIDS DEWATERING, MONITORING, AND DISPOSAL PROGRAMS





#### Water and Waste Department • Service des eaux et des déchets

January 30, 2013

Our Files: 040-17-08-23-01

Don Labossiere
Director, Environmental Compliance and Enforcement
Manitoba Conservation and Water Stewardship
123 Main Street
Winnipeg, Manitoba
R3C 1A5

Dear Mr. Labossiere:

#### RE: ANNUAL COMPLIANCE REPORT FOR ENVIRONMENT ACT LICENCE 1089E RR

Enclosed you will find our annual compliance report which details the City of Winnipeg's Biosolids Dewatering and Disposal Program for 2012. Included in this report are:

- a) details of the 2012 biosolids distribution and monitoring programs
- b) details of the proposed 2013 biosolids distribution program.

If you have any questions concerning the annual report, I may be reached by telephone at 204-986-4807 or by e-mail at <a href="mailto:kkjartanson@winnipeg.ca">kkjartanson@winnipeg.ca</a>.

Yours sincerely,

Original signed by:

K.J.T. Kjartanson, P.Eng. Manager of Environmental Standards

KJTK:rg Enclosure

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# ENVIRONMENT ACT LICENCE #1089E RR

# BIOSOLIDS DEWATERING, MONITORING, AND DISPOSAL PROGRAMS

2012

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#### **EXECUTIVE SUMMARY**

Amended Environment Act Licence #1089E RR, issued on June 14, 2000, requires that the City of Winnipeg monitor its biosolids dewatering and disposal operations and submit an annual report to the regulating authority and various municipalities on or before the 31<sup>ST</sup> of January of each year.

This report summarizes the results of the City's 2012 Biosolids Application Program (WINGRO) and also outlines the proposed plan for the 2013 calendar year.

In 2012, the City produced 13,345 dry-tonnes of anaerobically digested, mechanically dewatered biosolids at its North End Water Pollution Control Centre (NEWPCC). The total solids concentration in the dewatered biosolids averaged 25.7%. The WINGRO program deposited 100% of the biosolids at the Brady Road Landfill. No biosolids were applied to agricultural land in 2012. The interim storage pad was not used in 2012.

We plan to continue disposing of biosolids at the Brady Road Landfill in 2013. We are proposing to pilot a biosolids composting facility at the landfill which would commence in the fall of 2013.

#### **COMPLIANCE REPORT**

Environment Act Licence #1089E was issued to the City of Winnipeg on February 21, 1989 and amended on April 28, 2000 (#1089E R) and on June 14, 2000 (#1089E RR). Licence #1089E RR sets limits, terms and conditions with which the City of Winnipeg must comply in the operation of its mechanical dewatering equipment, the temporary storage of biosolids, and with its disposal onto agricultural land. One of these conditions is that "The applicant shall, on or before the 31st day of January of each year, submit to the Director, with a copy to the Rural Municipality of West St. Paul and to each Municipality in which biosolids have been disposed of, a report..." In keeping with this requirement, the City of Winnipeg hereby submits this compliance report which contains information on its 2012 Biosolids Program.

Licence #1089E RR contains several clauses. This report presents results and/or comments for each of the clauses under which the City has generated pertinent information during the course of conducting its 2012 Biosolids Program. The report also provides information on its proposed Biosolids Program for the twelve months starting January 1, 2013.

The specific requirements of each clause are presented in **bold-faced type** followed by the City's comments.

### **2012 BIOSOLIDS APPLICATION PROGRAMS**

## (a) Dewatering

"The Licensee shall operate and maintain the mechanical dewatering equipment to achieve a level of at least 20 percent solids, by weight after the dewatering process." (Clause 5)

From January 1, 2012 to December 31, 2012 the City produced 13,345 dry-tonnes of mechanically-dewatered biosolids at its NEWPCC facility. Appendix I contains the mechanical dewatering operating records for 2012. In 2012, the total solids in the biosolids averaged 25.7  $\pm$  2.7% (n= 253). The dewatering equipment achieved a total solids content in the biosolids of at least 20 percent by weight on all occasions.

### (b) Storage

"The Licensee shall only store biosolids at the temporary storage facility in circumstances when agricultural land is not accessible for direct biosolids disposal (Clause 6)" and "the Licensee shall ensure that the biosolids are removed from the temporary storage facility for application to agricultural land as soon as the agricultural land is available (Clause 7)."

In 2012, the storage pad was not used to provide interim storage for any mechanically-dewatered biosolids. The WINGRO program deposited 100% of the annual biosolids production at the Brady Road Landfill.

## (c) Monitoring Results

"The Licensee shall conduct a monitoring program in accordance with Appendix "B" to this licence" (Clause 21) and present "the results of analysis of biosolids, soil, and surface water runoff, where the biosolids are applied as well as odour complaint investigations concerning biosolids storage and application" (Clause 22 (c)).

Table 1 contains the results of analyses conducted on samples of biosolids in fulfilment of the monitoring requirements stipulated in Licence #1089E RR. Ditchwater samples were not collected in 2012 because biosolids were not applied to any fields in 2011. Appendix I contains the mechanical dewatering operating records for 2012.

Although no formal odour complaints associated with the WINGRO Program were received in 2012, we experienced an increase in the number of odour complaints in 2011 and 2012 at the Brady Road Landfill due to our acceptance of biosolids on a daily basis. Due to the increased odour complaints, the City is developing strategies to mitigate the odour including measures such as covering the material with straw or trenching.

TABLE 1 2012 Biosolids Quality

| Sample | Date      | Total Cd   | Total Cr   | Total Cu   | Total Ni   | Total Pb   | Total Zn   | Total P   | NH3-N     | TKN       | pН      | Specific Conductance | Total Solids |
|--------|-----------|------------|------------|------------|------------|------------|------------|-----------|-----------|-----------|---------|----------------------|--------------|
| Number | Sampled * | (mg/Kg-Cd) | (mg/Kg-Cr) | (mg/Kg-Cu) | (mg/Kg-Ni) | (mg/Kg-Pb) | (mg/Kg-Zn) | (mg/Kg-P) | (mg/Kg-N) | (mg/Kg-N) | (units) | (dS/m)               | (%)          |
| 1      | 1-Jan-12  | 2.2        | 95         | 525        | 45.9       | 37.7       | 650        | 23,100    | 13,600    | 27,500    | 6.01    | 11.6                 | 22.7         |
| 2      | 15-Jan-12 | 2.6        | 221        | 652        | 64.2       | 48.6       | 1,060      | 25,700    | 12,900    | 30,900    | 5.95    | 11.4                 | 24.5         |
| 3      | 29-Jan-12 | 1.9        | 221        | 600        | 53.6       | 48.1       | 1,400      | 20,800    | 13,100    | 32,200    | 5.95    | 11.3                 | 25.0         |
| 4      | 12-Feb-12 | 1.9        | 248        | 621        | 43.1       | 48.7       | 2,750      | 23,800    | 13,300    | 33,500    | 5.91    | 10.8                 | 25.7         |
| 5      | 26-Feb-12 | 2.4        | 194        | 735        | 56.9       | 49.2       | 1,860      | 24,400    | 11,800    | 25,700    | 6.06    | 10.0                 | 26.4         |
| 6      | 11-Mar-12 | 1.9        | 137        | 502        | 53.3       | 49.6       | 1,020      | 16,900    | 10,100    | 35,700    | 6.13    | 9.1                  | 30.0         |
| 7      | 25-Mar-12 | 1.7        | 208        | 455        | 51.2       | 71.3       | 929        | 15,000    | 9,610     | 37,800    | 6.42    | 7.8                  | 33.5         |
| 8      | 8-Apr-12  | 2.7        | 188        | 977        | 52.1       | 77.0       | 1,310      | 14,600    | 10,700    | 37,400    | 6.27    | 9.3                  | 29.4         |
| 9      | 22-Apr-12 | 2.6        | 139        | 664        | 71.2       | 67.6       | 989        | 15,500    | 11,300    | 38,000    | 6.15    | 10.1                 | 28.5         |
| 10     | 6-May-12  | 3.6        | 153        | 980        | 87.1       | 84.3       | 1,890      | 17,300    | 12,100    | 34,400    | 6.02    | 10.0                 | 27.1         |
| 11     | 20-May-12 | 2.9        | 125        | 955        | 63.3       | 78.9       | 2,920      | 15,700    | 11,600    | 35,500    | 6.08    | 8.8                  | 28.2         |
| 12     | 3-Jun-12  | 3.7        | 138        | 876        | 85.5       | 106.0      | 2,510      | 16,900    | 10,500    | 32,400    | 6.12    | 8.2                  | 27.4         |
| 13     | 17-Jun-12 | 4.5        | 128        | 718        | 57.2       | 89.1       | 1,560      | 15,300    | 12,900    | 32,900    | 6.20    | 9.4                  | 27.4         |
| 14     | 1-Jul-12  | 9.8        | 122        | 735        | 51.5       | 91.1       | 1,740      | 15,300    | 13,800    | 33,500    | 6.29    | 10.0                 | 24.1         |
| 15     | 15-Jul-12 | 5.9        | 139        | 915        | 61.0       | 77.9       | 2,480      | 17,500    | 10,000    | 26,000    | 6.42    | 11.2                 | 22.5         |
| 16     | 29-Jul-12 | 2.8        | 122        | 864        | 67.5       | 67.9       | 1,890      | 15,800    | 12,600    | 31,200    | 6.03    | 11.8                 | 24.8         |
| 17     | 12-Aug-12 | 3.0        | 118        | 805        | 66.5       | 77.6       | 1,840      | 15,600    | 11,900    | 30,700    | 6.09    | 12.8                 | 25.7         |
| 18     | 26-Aug-12 | 2.0        | 59         | 770        | 55.4       | 68.4       | 4,730      | 18,600    | 12,400    | 32,600    | 6.08    | 12.5                 | 24.9         |
| 19     | 9-Sep-12  | 2.0        | 89         | 756        | 70.0       | 59.5       | 3,630      | 17,800    | 12,700    | 31,800    | 6.05    | 12.1                 | 24.5         |
| 20     | 23-Sep-12 | 2.5        | 102        | 886        | 50.8       | 325.0      | 2,580      | 17,100    | 12,000    | 27,800    | 6.15    | 10.9                 | 22.6         |
| 21     | 7-Oct-12  | 2.3        | 121        | 762        | 86.1       | 312.0      | 1,720      | 18,200    | 11,200    | 33,600    | 5.98    | 13.0                 | 23.4         |
| 22     | 21-Oct-12 | 3.4        | 125        | 954        | 83.0       | 282.0      | 1,740      | 23,900    | 11,300    | 25,600    | 6.14    | 10.3                 | 24.8         |
| 23     | 4-Nov-12  | 4.1        | 99         | 667        | 70.4       | 140.0      | 1,130      | 17,800    | 11,200    | 32,800    | 5.98    | 10.6                 | 26.1         |
| 24     | 18-Nov-12 | 4.3        | 115        | 830        | 64.9       | 112.0      | 1,060      | 20,000    | 11,200    | 31,700    | 6.05    | 10.9                 | 25.6         |
| 25     | 2-Dec-12  | 4.1        | 104        | 823        | 69.0       | 106.0      | 1,270      | 19,900    | 13,400    | 32,900    | 6.13    | 12.7                 | 24.6         |
| 26     | 16-Dec-12 | 3.9        | 104        | 723        | 60.3       | 83.4       | 1,020      | 23,000    | 14,000    | 32,900    | 7.29    | 10.6                 | 24.5         |
|        |           |            |            |            |            |            |            |           |           |           |         |                      |              |
|        | Average:  | 3.3        | 139        | 760        | 63.1       | 102.3      | 1,834      | 18,673    | 11,970    | 32,192    | 6.15    | 10.7                 | 25.9         |
|        | Maximum:  | 9.8        | 248        | 980        | 87.1       | 325.0      | 4,730      | 25,700    | 14,000    | 38,000    | 7.29    | 13.0                 | 33.5         |
|        | Minimum:  | 1.7        | 59         | 455        | 43.1       | 37.7       | 650        | 14,600    | 9,610     | 25,600    | 5.91    | 7.8                  | 22.5         |

<sup>\*</sup> Indicates starting date for year 2012 biweekly composite samples

### (d) Distribution Program

"details of the biosolids distribution program carried out during the previous calendar year, including the description of the location of the land on which the biosolids were applied and the dry weight of biosolids distributed per hectare." (Clause 22 (a))

Of the 13,345 dry-tonnes of mechanically-dewatered biosolids produced at the NEWPCC from January 1, 2012 to December 31, 2012, 100% were disposed at the Brady Road Landfill.

### 2013 PROPOSED BIOSOLIDS APPLICATION PROGRAMS

"details of the biosolids application program proposed to be carried out during the oneyear period following the issuance of the report, including a description of the locations of the land on which application will be carried out, the proposed dates of application, and the proposed dry weight of biosolids per hectare of agricultural land". (Clause 22 (b))

In the 2013 WINGRO application year, which runs from January 1, 2013 to December 31, 2013, the City plans no land application at the present time and plans to dispose of all biosolids at the Brady Road Landfill.

The City received approval by Manitoba Conservation on April 30, 2012 to divert 20% of biosolids from the landfill to a pilot scale composting facility located within Brady Road Landfill. Although the completion of the pilot biosolids facility is scheduled for October 2013, the completion of the project will be highly weather dependent. At the end of the two year pilot study we will be submitting a report on the composting project and if the project is successful, a long term disposal plan will be submitted to Manitoba Conservation for approval.

## APPENDIX I

## **OPERATING RECORDS**

for

**MECHANICAL DEWATERING OF BIOSOLIDS** 

Monthly Hauling Report For the Month 01/2012

|                |  |         | Incorporated (T)   |         |
|----------------|--|---------|--------------------|---------|
|                |  |         | Spread<br>(T)      | 1 1 1   |
|                |  |         | Dry Rate<br>(Tkm)  |         |
| ht             |  |         | Wet Rate<br>(Tkm)  |         |
| Dry Weight (T) | 52.11<br>54.25<br>54.25<br>51.24<br>51.24<br>51.24<br>51.24<br>51.24<br>52.28<br>52.28<br>52.28<br>52.28<br>52.28<br>52.28<br>52.28<br>52.28   | Summary | Distance<br>(km)   |         |
| t Solids       | 88888888888888888888888888888888888888   |         | Weight<br>(T)      |         |
| Wet Weight (T) | 219.88<br>243.32<br>242.82<br>242.82<br>193.04<br>241.50<br>144.50<br>237.56<br>214.64<br>119.34<br>119.34<br>214.72   |         | Wet Weight Dry (T) | 4502.54 |
| Destination    | サルト 1 年 2 日 2 日 2 日 2 日 2 日 2 日 2 日 2 日 2 日 2  |         | Destination        | -0      |
| Source         | NEWPCC |         |                    | #2 0-0  |
| Day            | 000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>00  |         | Source             | NEWPCC  |

|  |         | Incorporated (T)  |   |
|--|---------|-------------------|---|
|  |         | Spread (T)        | 1 |
|  |         | Dry Rate<br>(Tkm) |   |
| t)   |         | Wet Rate<br>(Tkm) |   |
| Dry Weight (T) (T) 46.62 34.92 35.55 34.92 35.55 34.92 30.11 84 49.54 49.54 40.26 42.13  | Summary | Distance<br>(km)  |   |
| 08<br>100<br>4 4 4 4 4 4 4 4 6 6 6 6 6 6 6 6 6 6 6 6   |         | Weight<br>(T)     |   |
| Wet Weight (T) 192.66 144.28 142.76 215.68 240.92 217.18 167.36 119.02 217.18 289.16 289.16 289.16 289.16 262.94 262.36 166.36 167.18  |         | Wet Weight Dry 1  | 3739.30                                 |
| Destination  Desti |         | Destination       | -0-0                                    |
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| D 000000000000000000000000000000000000   |         | Source            | NEWPCC                                  |

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|--|---------|--------------------|---|
|  |         | Spread (T)         | H 00 40 40 40 40 FF FF FF   |
|  |         | Dry Rate<br>(Tkm)  |   |
| T  |         | Wet Rate<br>(Tkm)  |   |
| Dry Weight (T)   | Summary | Distance<br>(Jm)   |   |
| Solids<br>(%)<br>225.1<br>226.0<br>226.1<br>230.7<br>331.3<br>331.3<br>333.2<br>333.3<br>333.3<br>333.3<br>333.3   |         | Weight<br>(T)      |   |
| Net Weight (T) (T) 235.88 219.32 216.80 291.34 235.88 362.48 189.20 217.30 244.10 193.62 92.41.48 24 |         | Wet Weight Dry (T) | 4562.66   |
| Destination  Stination  Octination  Octina |         | Destination        | -0.   |
| SOULCE NEWPCC NEWCO NEWPCC NEW |         |                    | C #2 0-0  |
| Day<br>01<br>02<br>05<br>05<br>06<br>07<br>07<br>08<br>22<br>22<br>23<br>23<br>30<br>30  |         | Source             | NEWPCC  |

Monthly Hauling Report For the Month 04/2012

|  |         | Incorporated (T)   |         |
|--|---------|--------------------|---------|
|  |         | Spread<br>(T)      |         |
|  |         | Dry Rate<br>(Tkm)  |         |
| п  |         | Wet Rate<br>(Tkm)  |         |
| Dry Weight (T) (T) 86.21 72.25 72.25 73.13 13 24 44.04 81.99 99 99 99 99 99 99 99 99 99 99 99 99   | Summary | Distance<br>(km)   |         |
| 08) 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8  |         | Weight<br>(T)      |         |
| Wet Weight (T) 258.10 216.32 166.48 199.52 143.46 266.92 114.28 120.56 215.98 217.94 117.56 144.36 143.34 172.08   |         | Wet Weight Dry (T) | 3438.08 |
| Destination  Destination  Destination  The property of the pro |         | Destination        | -0-0    |
| SOUICE NEWPCC NEWCO NEWPCC NEW |         |                    | #2      |
| Day<br>002<br>003<br>004<br>110<br>113<br>123<br>120<br>120<br>233<br>30<br>30   |         | Source             | NEWPCC  |

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|   |         | Incorporated (T)        | 1 |
|---|---------|-------------------------|---|
|   |         | Spread (T)              | 1 |
|   |         | Dry Rate<br>(Tkm)       |   |
| ч   |         | Wet Rate<br>(Tkm)       |   |
| Dry Weight (T) (T) 53.48 70.64 70.10 67.97 66.83 55.41 68.31 57.03 37.26 55.47 55.47 57.99 77.90 78.90  | Summary | Distance<br>(km)        |   |
| \$01;ds<br>(%)<br>27.7.6<br>227.3<br>227.7.6<br>28.3<br>28.3<br>28.3<br>30.3<br>30.3<br>30.3  |         | Weight (T)              |   |
| Wet Weight (T) 193.78 258.76 260.58 240.18 213.90 241.46 242.82 242.82 242.82 242.82 242.82 242.82 242.82 242.82 242.82 258.80 258.80 258.80 258.80 258.80 258.80 258.80 258.80 258.80 258.80 258.80 258.80 258.80  |         | Wet Weight Dry V<br>(T) | 4632.96                                 |
| Destination  Lination  Lin  |         | Destination             | -0-                                     |
| SOUPCE<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEW |         |                         | #2 0                                    |
| D 0000011111100000000000000000000000000   |         | Source                  | NEWPCC                                  |

| Report  | 012      |
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| Re      | 6/20     |
| Hauling | Month 06 |
| thly    | the      |
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|                   |  |         | Incorporated (T)   |         |
|-------------------|--|---------|--------------------|---------|
|                   |  |         | Spread<br>(T)      |         |
|                   |  |         | Dry Rate<br>(Tkm)  |         |
| ÷i.               |  |         | Wet Rate<br>(Tkm)  |         |
| Dry Weight<br>(T) | 88 4 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6   | Summary | Distance<br>(km)   |         |
| Solids (%)        | 08222222222222222222222222222222222222   |         | Weight (T)         |         |
| Wet Weight (T)    | 280.42<br>194.50<br>217.48<br>310.96<br>188.60<br>140.26<br>70.02<br>70.02<br>215.80<br>2215.80<br>2210.86<br>220.08<br>220.08<br>220.08<br>240.74<br>163.74<br>163.74   |         | Wet Weight Dry (T) | 3831.10 |
| Destination       | 1 年来 本本  |         | Destination        | -0-     |
| Source            | NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC |         |                    | #2 0    |
| Day               | 000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>00  |         | Source             | NEWPCC  |

| Report | 7/2012 |
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| ing    | 0.7    |
| Hauli  | Month  |
| thly   | the    |
| Mon    | For    |

|   |         | Incorporated (T)   |         |
|---|---------|--------------------|---------|
|   |         | Spread<br>(T)      |         |
|   |         | Dry Rate<br>(Tkm)  |         |
| π   |         | Wet Rate<br>(Tkm)  |         |
| Dry Weight (T)  | Summary | Distance<br>(km)   |         |
| Solids<br>22422<br>22422<br>2233.8<br>2233.9<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0<br>221.0   |         | Weight<br>(T)      |         |
| Wet Weight (T)  196.62 292.34 220.80 120.05 120.02 116.10 144.50 224.80 204.80 214.20 171.70 248.80 224.28 224.28 224.28  |         | Wet Weight Dry (T) | 4376.20 |
| Destination  Destination  Destination  The property of the pro  |         | Destination        | -0-     |
| SOURCE<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPCC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NEWPC<br>NE |         |                    | # 2     |
| Day<br>03<br>005<br>005<br>006<br>009<br>111<br>113<br>114<br>118<br>119<br>119<br>119<br>119<br>119<br>119<br>119<br>119<br>119  |         | Source             | NEWPCC  |

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|  |         | Incorporated (T)                 |
|--|---------|----------------------------------|
|  |         | Spread Inc<br>(T)                |
|  |         | Dry Rate<br>(Tkm)                |
| t t  |         | Wet Rate<br>(Tkm)                |
| Dry Weight (T) 48.41 38.56 47.40 76.89 25.78 26.35 26.35 26.35 33.27 25.20 26.35 36.55 37.76 35.58   | Summary | Distance<br>(km)                 |
| 801ids<br>(%)<br>23.3<br>23.7<br>223.7<br>225.5<br>225.3<br>225.3<br>225.3<br>225.3<br>225.0<br>225.3<br>225.3<br>225.3<br>225.3<br>225.3<br>225.3<br>225.3<br>225.3<br>225.3<br>225.3<br>225.3<br>225.3<br>225.3<br>225.3<br>225.3  |         | Weight (T)                       |
| Wet Weight (T)  203.38  162.70  195.04  293.48  94.22  243.54  218.20  97.54  120.62  97.54  120.62  145.30  145.30  145.30  |         | Wet Weight Dry<br>(T)<br>3736.58 |
| Destination  Destination  Destination  The property of the pro |         | Destination<br>#2 0-0-           |
| Source NEWPCC NEWCO NEWPCC NEW |         |                                  |
| Day<br>01<br>02<br>03<br>07<br>07<br>10<br>113<br>114<br>115<br>122<br>22<br>22<br>23<br>23<br>33<br>31  |         | Source                           |

|  |         | Incorporated (T)   |         |
|--|---------|--------------------|---------|
|  |         | Spread (T)         |         |
|  |         | Dry Rate<br>(Tkm)  |         |
| п  |         | Wet Rate<br>(Tkm)  |         |
| Dry Weight (T) (T) (T) (T) (T) 35.24 24.52.24 25.073 35.95 35.95 35.95 35.95 35.95 35.95 35.95 35.95 35.95 35.95 35.95 35.95 35.73 37.73   | Summary | Distance<br>(km)   |         |
| 00<br>11.9   |         | Dry Weight (T)     |         |
| Wet Weight (T) 247.18 148.08 99.28 146.12 195.12 195.12 186.40 116.88 137.61 167.78 269.72 247.86 292.08 247.18 2247.18 2247.18 164.74   |         | Wet Weight Dry (T) | 3745.59 |
| Description of the state of the |         | Destination        | -0      |
| SOULCE NEWPCC NE |         |                    | #2 0-0  |
| Day 004 005 004 005 005 005 005 005 005 005  |         | Source             | NEWPCC  |

Monthly Hauling Report For the Month 09/2012

| Report  | 0/2012  |  |
|---------|---------|--|
| Hauling | Month 1 |  |
| Monthly | For the |  |
|         |         |  |
|         |         |  |
|         |         |  |

|  |         | Incorporated (T)           |
|--|---------|----------------------------|
|  |         | Spread (T)                 |
|  |         | Dry Rate<br>(Tkm)          |
| ц  |         | Wet Rate<br>(Tkm)          |
| Dry Weight (T)  66.82 66.82 66.84 65.80 61.59 64.14 44.14 44.14 44.29 57.43 57.43 68.50 57.43 67.24 67.24  | Summary | Distance<br>(km)           |
| 8  |         | Dry Weight (T)             |
| Wet Weight (T)   |         | Wet Weight Dry (T) 5797.93 |
| Destriction of the property of |         | Destination<br>#2 0-0-     |
| Source NEWPCC NEWCO NEWPCC NEW |         |                            |
| Day<br>001<br>003<br>003<br>004<br>006<br>007<br>007<br>008<br>008<br>008<br>008<br>008<br>008<br>008<br>008   |         | Source                     |

| Dry Weight (T) | 35.02<br>45.02<br>40.39<br>40.72<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72.13<br>72 | Summary |
|----------------|--|---------|
| Solids<br>(%)  | 44400000000000000000000000000000000000   | ,       |
| Wet Weight (T) | 144.10<br>167.68<br>221.00<br>221.00<br>244.82<br>172.56<br>199.36<br>120.74<br>131.96<br>131.96<br>193.48<br>148.00<br>146.84   |         |
| Destination    | 1  |         |
| Source         | NEWPCC  |         |
| Day            | 00000000000000000000000000000000000000   |         |

Monthly Hauling Report For the Month 11/2012

Incorporated (T) Spread (T) Dry Rate (Tkm) Wet Rate (Tkm) Wet Weight Dry Weight Distance (T) (Am) 4403.48 Destination #2 0-0-Source NEWPOC

|   |         | Incorporated (T)   | 1       |
|---|---------|--------------------|---------|
|   |         | Spread             |         |
|   |         | Dry Rate<br>(Tkm)  |         |
| at<br>T   |         | Wet Rate<br>(Tkm)  |         |
| Dry Weight (T)  | Summary | Distance<br>(km)   |         |
| 08) (8) (8) (8) (8) (8) (8) (8) (8) (8) (   |         | Weight (T)         |         |
| Wet Weight (T)  |         | Wet Weight Dry (T) | 4037.94 |
| Destination Destination Destination  ##2 0-0  |         | Destination        | -0      |
| SOUFCE NEWPCC |         |                    | #2 0-0  |
| Day<br>003<br>004<br>005<br>005<br>007<br>111<br>113<br>113<br>114<br>117<br>118<br>118<br>119<br>31  |         | Source             | NEWPCC  |

Monthly Hauling Report For the Month 12/2012



Water and Waste Department • Service des eaux et des déchets