

INFORME DE OPERACIONES DEL RELLENO SANITARIO EL INGA ESTACIONES DE TRANSFERENCIA NORTE Y SUR

EMPRESA PÚBLICA METROPOLITANA DE GESTIÓN INTEGRAL DE RESIDUOS SÓLIDOS

OCTUBRE - 2014

1.1 RESIDUOS SÓLIDOS URBANOS INGRESADOS AL RELLENO SANITARIO

| oct-14 | | | |
|--------------|----------------|-----------------|--------------------------------------------|
| FECHA | DISTRITO (Ton) | RUMIÑAHUI (Ton) | TOTAL RSU QUE INGRESAN A DISPOSICION (Ton) |
| 01-oct-14 | 2,000.72 | 89.11 | 2,089.83 |
| 02-oct-14 | 1,690.99 | 93.84 | 1,784.83 |
| 03-oct-14 | 1,715.06 | 100.07 | 1,815.13 |
| 04-oct-14 | 1,911.38 | 81.79 | 1,993.17 |
| 05-oct-14 | 854.37 | 91.42 | 945.79 |
| 06-oct-14 | 1,633.10 | 105.06 | 1,738.16 |
| 07-oct-14 | 2,427.80 | 103.70 | 2,531.50 |
| 08-oct-14 | 1,992.30 | 116.30 | 2,108.60 |
| 09-oct-14 | 1,758.21 | 86.70 | 1,844.91 |
| 10-oct-14 | 1,567.88 | 104.70 | 1,672.58 |
| 11-oct-14 | 1,740.75 | 83.90 | 1,824.65 |
| 12-oct-14 | 880.97 | 97.50 | 978.47 |
| 13-oct-14 | 1,748.69 | 128.40 | 1,877.09 |
| 14-oct-14 | 2,986.55 | 110.20 | 3,096.75 |
| 15-oct-14 | 2,021.28 | 111.10 | 2,132.38 |
| 16-oct-14 | 1,760.34 | 90.60 | 1,850.94 |
| 17-oct-14 | 1,762.08 | 117.00 | 1,879.08 |
| 18-oct-14 | 1,925.28 | 66.40 | 1,991.68 |
| 19-oct-14 | 908.85 | 107.80 | 1,016.65 |
| 20-oct-14 | 1,630.90 | 116.31 | 1,747.21 |
| 21-oct-14 | 2,528.01 | 115.90 | 2,643.91 |
| 22-oct-14 | 2,084.02 | 114.70 | 2,198.72 |
| 23-oct-14 | 1,812.41 | 103.00 | 1,915.41 |
| 24-oct-14 | 1,864.38 | 117.41 | 1,981.79 |
| 25-oct-14 | 1,997.76 | 64.80 | 2,062.56 |
| 26-oct-14 | 891.60 | 101.20 | 992.80 |
| 27-oct-14 | 1,724.10 | 127.00 | 1,851.10 |
| 28-oct-14 | 2,525.26 | 119.70 | 2,644.96 |
| 29-oct-14 | 2,036.45 | 89.20 | 2,125.65 |
| 30-oct-14 | 1,851.45 | 115.00 | 1,966.45 |
| 31-oct-14 | 1,860.19 | 122.80 | 1,982.99 |
| TOTAL | | | 57,195.91 |

1.2 RESIDUOS SÓLIDOS URBANOS INGRESADOS A LAS ESTACIONES DE TRANSFERENCIA NORTE Y SUR

| PERIODO | | ESTACION DE TRANSFERENCIA NORTE | | | ESTACION DE TRANSFERENCIA SUR | |
|-----------------|--------|---------------------------------|-----------------|------------------|-------------------------------|------------------|
| octubre | | | | | | |
| AÑO | Día | TRANSPORT ADO (TON) | RECICLADO (TON) | INGRESO (TON) | TRANSPORT ADO (TON) | INGRESO (TON) |
| 2014 | mié-01 | 951.26 | 5.70 | 955.39 | 795.06 | 809.92 |
| | jue-02 | 957.57 | 21.54 | 997.41 | 642.10 | 634.99 |
| | vie-03 | 977.15 | 25.90 | 981.14 | 744.23 | 756.16 |
| | sáb-04 | 980.86 | 8.16 | 981.41 | 801.17 | 758.26 |
| | dom-05 | 399.95 | - | 398.88 | 337.59 | 314.25 |
| | lun-06 | 953.85 | 40.61 | 1,008.41 | 714.46 | 781.52 |
| | mar-07 | 1,287.12 | 14.42 | 1,361.55 | 986.58 | 1,005.07 |
| | mié-08 | 993.64 | 18.97 | 945.75 | 747.94 | 758.85 |
| | jue-09 | 927.39 | 10.13 | 972.23 | 712.03 | 680.47 |
| | vie-10 | 833.22 | 1.04 | 814.97 | 722.57 | 708.66 |
| | sáb-11 | 880.30 | - | 875.71 | 708.94 | 775.89 |
| | dom-12 | 422.20 | - | 442.83 | 423.99 | 366.99 |
| | lun-13 | 1,016.28 | 26.58 | 1,187.47 | 815.01 | 928.73 |
| | mar-14 | 1,597.21 | 55.48 | 1,557.73 | 1,176.41 | 1,167.43 |
| | mié-15 | 960.28 | 28.26 | 952.99 | 821.38 | 752.45 |
| | jue-16 | 983.27 | 39.49 | 1,046.41 | 731.92 | 716.52 |
| | vie-17 | 987.31 | 16.52 | 991.10 | 702.53 | 763.66 |
| | sáb-18 | 975.08 | - | 949.40 | 743.94 | 747.58 |
| | dom-19 | 509.13 | - | 472.13 | 386.17 | 312.06 |
| | lun-20 | 963.58 | 27.51 | 1,052.88 | 688.53 | 763.91 |
| | mar-21 | 1,406.64 | 20.95 | 1,452.63 | 1,063.97 | 1,104.27 |
| | mié-22 | 1,059.25 | 15.26 | 1,018.77 | 829.55 | 753.16 |
| | jue-23 | 963.24 | 29.51 | 1,027.10 | 652.75 | 683.49 |
| | vie-24 | 980.20 | 8.21 | 972.12 | 771.29 | 792.39 |
| | sáb-25 | 1,049.47 | - | 1,068.96 | 793.27 | 805.82 |
| | dom-26 | 460.95 | - | 443.95 | 392.02 | 315.14 |
| | lun-27 | 955.85 | 9.97 | 1,028.36 | 714.53 | 844.94 |
| | mar-28 | 1,390.21 | 29.84 | 1,449.60 | 1,034.03 | 1,035.13 |
| | mié-29 | 1,026.76 | 13.81 | 1,002.05 | 834.98 | 774.22 |
| | jue-30 | 976.37 | 41.85 | 1,031.43 | 747.97 | 711.82 |
| | vie-31 | 995.13 | 31.81 | 992.58 | 754.51 | 767.79 |
| TOTAL | | 29,820.72 | 541.52 | 30,433.34 | 22,991.42 | 23,091.54 |
| PROMEDIO | | 961.96 | 17.47 | 981.72 | 741.66 | 744.89 |

1.3 DESECHOS HOSPITALARIOS

| N° DIAS TRABAJADOS | FECHA | TONELADAS INGRESADAS | TONELADAS TRATADAS |
|------------------------|------------|----------------------|--------------------|
| 1 | 01/10/2014 | 10.43 | 10.44 |
| 2 | 02/10/2014 | 9.70 | 10.44 |
| 3 | 03/10/2014 | 10.76 | 11.72 |
| 4 | 06/10/2014 | 16.48 | 14.40 |
| 5 | 07/10/2014 | 10.00 | 11.70 |
| 6 | 08/10/2014 | 10.50 | 13.10 |
| 7 | 09/10/2014 | 9.70 | 9.60 |
| 8 | 10/10/2014 | 9.80 | 10.00 |
| 9 | 13/10/2014 | 15.00 | 13.10 |
| 10 | 14/10/2014 | 9.40 | 11.80 |
| 11 | 15/10/2014 | 10.30 | 7.70 |
| 12 | 16/10/2014 | 8.70 | 11.50 |
| 13 | 17/10/2014 | 10.50 | 10.90 |
| 14 | 20/10/2014 | 17.60 | 14.70 |
| 15 | 21/10/2014 | 11.20 | 12.20 |
| 16 | 22/10/2014 | 10.20 | 10.40 |
| 17 | 23/10/2014 | 9.90 | 11.90 |
| 18 | 24/10/2014 | 12.10 | 11.70 |
| 19 | 27/10/2014 | 16.90 | 10.70 |
| 20 | 28/10/2014 | 10.30 | 16.10 |
| 21 | 29/10/2014 | 10.90 | 9.90 |
| 22 | 30/10/2014 | 9.70 | 12.90 |
| 23 | 31/10/2014 | 10.60 | 10.80 |
| TOTAL | | 260.67 | 267.70 |
| PROMEDIO DIARIO | | 11.45 | 11.62 |

1.4 VOLÚMENES INGRESADOS Y TRATADOS DE LIXIVIADO

| RESUMEN DEL MES DE OCTUBRE VOLUMENES DE LAS PISCINAS Y VOLUMENES TRATADOS | | | | | | | | | |
|---------------------------------------------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------------|-------------------------------------|--------------------------------------|--------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------|------------------------------------------------|
| FECHA | VOLUMEN ACUMULADO, m ³ | INGRESO POR CUBETOS | PLANTA PTL | PLANTA MBR | PLANTA VSEP | TRATAMIENTO | VARIABLES DE OPERACIÓN | | |
| | | VOLUMEN INGRESADO, m ³ | VOLUMEN PRE-TRATADO, m ³ (2) | VOL TRATADO OSMOSIS, m ³ | VOLUMEN TRATADO VSEP, m ³ | VOL TOTAL TRATADO: OSMOSIS + VSEP m ³ | VOLUMEN INGRESA POR AGUA LLUVIA + AGUA LIMPIA m ³ (3) | VOLUMEN SALIDA POR ASPERSION Y EVAPORACION EN PISCINAS (2) | VOLUMEN DE SALIDA POR ASPERSION EN CUBETOS (1) |
| 1-oct-14 | 87,144.29 | 537.11 | 0.00 | 91.55 | 0.00 | 91.55 | 0.00 | 127.79 | 56.27 |
| 2-oct-14 | 87,194.17 | 526.20 | 0.00 | 84.78 | 199.75 | 284.53 | 0.00 | 127.79 | 64.00 |
| 3-oct-14 | 87,265.96 | 498.74 | 0.00 | 46.45 | 170.31 | 216.76 | 0.00 | 127.79 | 82.40 |
| 4-oct-14 | 87,159.23 | 396.48 | 0.00 | 72.56 | 214.06 | 286.62 | 0.00 | 127.79 | 88.80 |
| 5-oct-14 | 87,236.36 | 498.55 | 0.00 | 100.10 | 123.66 | 223.76 | 0.00 | 127.79 | 69.87 |
| 6-oct-14 | 87,329.85 | 366.12 | 0.00 | 79.31 | 38.31 | 117.62 | 16.78 | 127.79 | 44.00 |
| 7-oct-14 | 87,308.17 | 335.67 | 0.00 | 71.18 | 163.93 | 235.11 | 44.74 | 127.79 | 39.20 |
| 8-oct-14 | 87,489.86 | 454.36 | 0.00 | 59.43 | 157.03 | 216.46 | 117.45 | 127.79 | 45.87 |
| 9-oct-14 | 87,574.13 | 428.62 | 0.00 | 27.63 | 198.46 | 226.09 | 55.93 | 127.79 | 46.40 |
| 10-oct-14 | 88,748.71 | 423.90 | 0.00 | 8.17 | 24.16 | 32.33 | 961.99 | 127.79 | 51.20 |
| 11-oct-14 | 89,414.44 | 443.97 | 0.00 | 8.09 | 188.65 | 196.74 | 618.02 | 127.79 | 71.73 |
| 12-oct-14 | 89,431.68 | 458.45 | 0.00 | 8.08 | 234.14 | 242.22 | 0.00 | 127.79 | 71.20 |
| 13-oct-14 | 89,748.32 | 521.78 | 0.00 | 4.55 | 0.00 | 4.55 | 0.00 | 127.79 | 72.80 |
| 14-oct-14 | 89,851.35 | 543.76 | 0.00 | 13.29 | 221.78 | 235.07 | 0.00 | 127.79 | 77.87 |
| 15-oct-14 | 90,032.28 | 529.42 | 0.00 | 0.00 | 174.84 | 174.84 | 0.00 | 127.79 | 45.87 |
| 16-oct-14 | 90,191.84 | 526.52 | 0.00 | 4.34 | 170.56 | 174.90 | 0.00 | 127.79 | 64.27 |
| 17-oct-14 | 90,839.07 | 538.55 | 0.00 | 16.66 | 204.20 | 220.86 | 534.13 | 127.79 | 76.80 |
| 18-oct-14 | 91,197.61 | 610.47 | 0.00 | 17.69 | 173.06 | 190.75 | 148.21 | 127.79 | 81.60 |
| 19-oct-14 | 91,608.05 | 600.72 | 0.00 | 6.88 | 159.52 | 166.40 | 176.18 | 127.79 | 72.27 |
| 20-oct-14 | 92,034.78 | 507.65 | 0.00 | 19.30 | 13.02 | 32.32 | 95.08 | 127.79 | 15.89 |
| 21-oct-14 | 92,262.89 | 588.66 | 0.00 | 15.36 | 217.40 | 232.76 | 0.00 | 127.79 | 0.00 |
| 22-oct-14 | 92,466.35 | 532.91 | 0.00 | 6.50 | 192.21 | 198.71 | 16.78 | 127.79 | 19.73 |
| 23-oct-14 | 92,688.11 | 557.15 | 0.00 | 22.60 | 178.06 | 200.66 | 11.19 | 127.79 | 18.13 |
| 24-oct-14 | 93,554.64 | 619.98 | 0.00 | 9.77 | 91.30 | 101.07 | 475.40 | 127.79 | 0.00 |
| 25-oct-14 | 93,763.47 | 654.83 | 0.00 | 8.61 | 255.98 | 264.59 | 11.19 | 127.79 | 64.80 |
| 26-oct-14 | 94,059.01 | 665.17 | 0.00 | 11.19 | 165.85 | 177.04 | 0.00 | 127.79 | 64.80 |
| 27-oct-14 | 94,418.99 | 551.19 | 0.00 | 7.44 | 119.82 | 127.26 | 128.64 | 127.79 | 64.80 |
| 28-oct-14 | 94,981.58 | 714.05 | 0.00 | 13.99 | 190.98 | 204.97 | 246.09 | 127.79 | 64.80 |
| 29-oct-14 | 95,296.75 | 637.47 | 0.00 | 10.46 | 141.62 | 152.08 | 22.37 | 127.79 | 64.80 |
| 30-oct-14 | 95,535.67 | 594.75 | 0.00 | 18.39 | 176.32 | 194.71 | 0.00 | 127.79 | 33.33 |
| 31-oct-14 | 95,735.90 | 556.03 | 0.00 | 0.00 | 179.99 | 179.99 | 16.78 | 127.79 | 64.80 |
| TOTAL | | 16,419.23 | 0.00 | 864.35 | 4,738.97 | 5,603.32 | 3,696.96 | 3,961.46 | 1,698.30 |
| PROMEDIO | 90,760.11 | 529.65 | 0.00 | 27.88 | 152.87 | 180.75 | 119.26 | 127.79 | 54.78 |

(1) VOLUMEN DE LIXIVIADO DEL SISTEMA DE ASPERSION EN LOS CUBETOS DE DISPOSICION. VOLUMEN TOMANDO EN CUANTA HORAS DE BOMBEO

(2) VALOR TEORICO TOMANDO EN CUENTA ALTITUD, PLUVIOSIDAD, RADIACION SOLAR DEL RSQ

(3) VALOR DE PLUVIOSIDAD TOMADO DEL PLUVIOMETRO DE EMMAPS INSTALADO EN EL RSQ

(3) VALOR DE AGUA QUE INGRESA AL SISTEMA PARA LAVADO DE LAS PLANTAS DE TRATAMIENTO DE LIXIVIADO

 DIAS DE OPERACIÓN DE CONTRATISTA GASGREEN

Ing. John Bonifaz Toapanta
COORDINADOR TÉCNICO DE RESIDUOS ORDINARIOS