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Dept. Of Environmental Protection

JAN 19 2011

Southwest District

January 14, 2011

Ms. Susan J. Pelz, P.E. Solid Waste Permitting Florida Department of Environmental Protection Southwest District 13051 N. Telecom Pkwy Temple Terrace, Florida 33637

RE: Southeast County Landfill - Leachate Data Quarterly Report

Dear Ms. Pelz:

In accordance with Specific Condition No. 8 of Permit No. 35435-014-SO, the Solid Waste Management Department (SWMD) is submitting the quarterly Leachate Water Balance summary for the Southeast County Landfill for the quarter ending January 15, 2011.

The data is being submitted as separate monthly reports for October, November, and December 2010. The information includes the leachate level in Pump Station B (PS-B). PS-B was below the 24-inch normal operation level during this quarter except for October 19, 23 and 24, due to bubbler malfunctions. These malfunctions were immediately corrected.

Also attached is the top of the phosphatic clay liner elevation at the Pump Station B Sump.

Please advise should you have any questions concerning the attached submittal.

Sincerery

Patricia V. Berry

Landfill and Environmental Services Section Manager

Solid Waste Management Division

Public Utilities Department

Attachment

xc: Larry Ruiz, SWMD
Cindy Pelley, SWMD
Rich Siemering, HDR
Ron Cope, EPC
Paul Schipfer, EPC

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November 22, 2010

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

JAN 1,9 2011

SOUTHWEST DISTRICT
TAMPA

Ms. Susan J. Pelz, P.E.
Solid Waste Permitting
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Pkwy
Temple Terrace, Florida 33637

RE: Southeast County Landfill - October 2010 Leachate Data

Dear Ms. Pelz:

In accordance with the Hillsborough County Solid Waste Management Department's (SWMD) Leachate Management Plan (LMP) for the Southeast County Landfill (Landfill), the SWMD is providing the Landfill's Water Balance Report for the month of October 2010. In addition, the SWMD is providing the October 2010 field data forms for the Landfill, the daily leachate and collection system evaluation reports and the Year-to-Date Leachate Balance Summary.

This information is being provided to the Florida Department of Environmental Protection (FDEP) and the Hillsborough County Environmental Protection Commission as part of the quarterly Leachate Water Balance report on the Landfill leachate management efforts in accordance with Permit No. 35435-014-SO, Specific Condition No. 8.

As initiated with the April 1996 report, the Landfill leachate information for October 2010 includes an evaluation by SWMD staff of the monthly data. The report includes a figure depicting the leachate levels in Pump Station B (PS-B) and rainfall. PS-B was below the normal operation level of 24 inches except for October 19, 23, and 24 due to bubbler malfunctions. The average depth of leachate in the PS-B sump for the recorded days in October 2010 was 21.4 inches.

Ms. Susan J. Pelz November 22, 2010 Page Two

Please advise should you have any questions concerning the information provided.

Sincerely,

Jahn V. Becy Patricia V. Berry

Landfill and Environmental Services Section Manager

Solid Waste Management Division

Attachments

glfs/lea1010.dep

JAN 19 201

Southwest

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MEMORANDUM

DATE:

November 18, 2010

TO:

Patricia Berry, Section Manager, Solid Waste Management Division

FROM:

SUBJECT:

Larry Ruiz, General Manager III, Solid Waste Management Division Raymond Graves, Sr. Eng. Tech., Solid Waste Management Division

Leachate Water Balance Report Forms for October

Southeast County Landfill, Hillsborough County, Florida

The Solid Waste Management Division (SWMD) staff has compiled and reviewed the leachate management operational data from the Southeast County Landfill Phases I-VI, Sections 7-8, and Section 9. Attached are the Leachate Water Balance Report Form (Table 1), the Leachate Field Data Entry Form (Table 2), and the 2010 Summary (Table 3). Also, attached find Figure 1 showing leachate levels in Pump Station B sump of Phases I-VI and rainfall for the month.

TABLE 1

Day (Column I)

Column I presents the calendar days for the month.

Rainfall (Column II)

Column II presents the average rainfall, in inches, as measured in the field from rainfall stations at the site. This month there was no rainfall at the Southeast County Landfill (SCLF).

MEMORANDUM November 18, 2010 Page 2 of 6

Depth in Pond A (Column III)

Column III presents the daily depth, in feet, of effluent stored in effluent pond (Pond A). The daily depth in Pond A varies as a function of the spray irrigation frequency/duration and effluent hauled from the pond. This month the daily average depth of effluent stored in Pond A was 1.6 feet.

Depth in Pond B (Column IV)

Column IV presents the daily depth, in feet, of effluent or leachate that is stored in the effluent/leachate storage pond (Pond B). The depth in Pond B varies as a function of the evaporation frequency/duration and effluent or leachate hauled from the pond. This month effluent was not stored in Pond B.

Estimated Depth at Pump Station B Sump (PS-B) (Column V)

Column V presents the depth of leachate, in inches, in the PS-B sump. Leachate from Phases I-VI flows to the PS-B sump for removal from the landfill. PS-B then pumps the leachate to Pump Station A (PS-A). Daily depth readings from the PS-B sump are included in this column. This month PS-B was below the normal operation level of 24-inches except for October 19, 23, and 24 due to bubbler malfunctions. The average recorded depth of leachate in the PS-B sump was 21.4 inches.

Leachate Pumped to PS-B from TPS-6 (Column VI)

Column VI presents the quantity of leachate from Phase IV pumped to PS-B by Temporary Pump Station-6 (TPS-6). The quantity of leachate removed by TPS-6 is measured in gallons by an in-line flow meter and is included in the quantity of leachate pumped to the Main Leachate Pump Station (MLPS) from Phases I-VI (Column VII). The average daily amount of leachate pumped from TPS-6 was 17,195 gallons. A total of 533,030 gallons of leachate was pumped this month.

Leachate Pumped to MLPS from Phases I-VI (Column VII)

Column VII presents the daily amount of leachate, in gallons, collected from PS-A and pumped through the MLPS to the 575,000-gallon storage tank at the Leachate Treatment and Reclamation Facility (LTRF) for treatment or disposal. The quantity in column VII also includes the daily amount of leachate, in gallons, pumped from TPS-6. The average daily amount of leachate pumped from PS-A was 28,480 gallons. A total of 882,872 gallons of leachate was pumped this month.

MEMORANDUM November 18, 2010 Page 3 of 6

Leachate Pumped from Sections 7-8 LDS (Column VIII)

Column VIII presents the quantity of leachate removed from the leak detection system (LDS) of Sections 7-8. The quantity is measured by a flow meter before being pumped for removal with Sections 7-8 leachate. The removal rate did not exceed 1,930 gallons per day. This month a total of 588 gallons of leachate was removed from the leak detection system of Sections 7-8.

Leachate Pumped to MLPS from Sections 7-8 (Column IX)

Column IX presents the quantity of leachate collected at Sections 7-8 and pumped to the MLPS. The quantity is measured by a flow meter and includes any leachate removed from the leak detection system of Sections 7-8 (Column VIII). This month a total of 57,253 gallons of leachate was pumped from Sections 7-8.

Leachate Pumped to LTRF from the MLPS (Column X)

Column X presents the total quantity of leachate pumped to the LTRF from Phases I-VI and Sections 7-8. This month a total of 940,232 gallons of leachate was pumped to the LTRF.

Leachate Pumped to LTRF from Section 9 (Column XI)

Column XI presents the daily amount of leachate, in gallons, collected from Section 9 and pumped to the 575,000-gallon storage tank at the Leachate Treatment and Reclamation Facility (LTRF) for treatment or disposal. A total of 40,822 gallons of leachate was pumped this month.

Leachate Pumped from Section 9 LDS (Column XII)

Column XII presents the daily amount of leachate, in gallons, collected from the LDS of Section 9 and pumped to the 575,000-gallon storage tank at the LTRF for treatment or disposal. The removal rate did not exceed 4,651 gallons per day. This month a total of 108 gallons of leachate were removed from the leak detection system.

Leachate in 575,000-Gallon Tank (Column XIII)

Column XIII presents the daily amount of leachate, in gallons, stored in the 575,000-gallon leachate holding tank at the LTRF. The amount of leachate stored in the tank is calculated based on the circumference of the tank and the daily level reading. This month an average of 238,900 gallons of leachate was stored in the tank.

MEMORANDUM November 18, 2010 Page 4 of 6

Effluent in 575,000-Gallon Tank (Column XIV)

Column XIV presents the daily amount of effluent, in gallons, stored in the 575,000-gallon effluent holding tank at the LTRF. The amount of effluent stored in the tank is calculated based on the circumference of the tank and the daily level reading. This month an average of 216,700 gallons of effluent was stored in the tank.

Leachate Treated at LTRF (Column XV)

Column XV presents the daily amount of leachate, in gallons, treated at the LTRF. This month a total of 762,300 gallons of leachate was treated.

Total Leachate Hauled (Column XVI)

Column XVI presents the daily amount of leachate, in gallons, hauled off site. This month a total of 271,013 gallons of leachate was hauled off site.

Leachate Dust Control Sprayed (Column XVII)

Column XVII presents the daily amount of leachate, in gallons, measured from the flow meter at the bypass-loading arm at the leachate storage tank. The leachate is used for dust control in the active area of the landfill. This month leachate was not used for dust control.

Pond A Storage (Column XVIII)

Column XVIII presents the daily amount of effluent, in gallons, stored in Pond A. The daily amount stored in the pond is calculated by using the daily depth of effluent in the Pond A (Column IV). Under normal operating conditions, the daily amount of effluent stored in the pond varies depending upon the daily amount of leachate treated at the LTRF, the daily rainfall, daily effluent hauling operations, daily spray irrigation operations, and the daily amount of effluent used for dust control/evaporation. This month a daily average of 45,500 gallons of effluent was stored in Pond A.

MEMORANDUM November 18, 2010 Page 5 of 6

Pond B Storage (Column XIX)

Column XIX presents the daily amount of effluent, in gallons, stored in Pond B. The daily amount stored in the pond is calculated by using the daily depth of effluent in Pond B (Column IV). Under normal operating conditions, the amount stored in the pond will vary depending upon the daily amount of effluent removed from the pond by the evaporation system, hauled from the pond, used for dust control or evaporated. This month effluent was not stored in Pond B.

Effluent Sprayed at Pond B (Column XX)

Column XX presents the daily amount of effluent, in gallons, sprayed for evaporation at Pond B. The amount evaporated is calculated by using 5 percent of the daily flow meter quantity sprayed at Pond B and it is included in Column XXIV. This month effluent was not sprayed in Pond B.

Effluent Irrigation (Column XXI)

Column XXI presents the daily amount of effluent, in gallons, used for spray irrigation on top of Phases I-VI. The daily amount of effluent irrigation on Phases I-VI is measured from the flow meter at the irrigation pump station. This month a total of 761,234 gallons of effluent were used for spray irrigation.

Effluent Dust Control Sprayed (Column XXII)

Column XXII presents the daily amount of effluent, in gallons, sprayed for dust control in the active areas of the SCLF. The daily amount of effluent used for dust control, is measured from the flow meter at the bypass-loading arm. This month effluent was not sprayed as dust control.

Total Effluent Hauled (Column XXIII)

Column XXIII presents the daily amount of effluent, in gallons, hauled off site, as measured from the flow meter at the bypass-loading arm. This month a total of 6,004 gallons of effluent were hauled off site.

Total Evaporation (Column XXIV)

Column XXIV presents the daily amount of leachate and effluent, in gallons, that evaporates and therefore will not be returned to the SCLF and/or requires treatment. Evaporation rates of 80 percent and 5 percent evaporation rate for spray in Pond B are assumed. The total evaporation estimated for this month was 609,000 gallons.

MEMORANDUM November 18, 2010 Page 6 of 6

TABLE 2

Table 2 presents data assembled from daily logs compiled by the SWMD staff.

TABLE 3

Leachate Balance Summary

The Leachate Balance Summary (see Table 3) presents a review of inflow and outflow quantities for the LTRF, as well as rainfall and effluent disposal quantities at the landfill. Total inflow quantity to the LTRF was 981,054 gallons. Total outflow quantity from the LTRF was 1,033,313 gallons. The change in storage for the month decreased by 52,259 gallons.

Please advise should you have any questions concerning the information provided.

TABLE L LEACHATE WATER BALANCE REPORT FORM OCTOBER 2010 SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

| 1. | |][] | ÍΛ | Ŋ. | VI | Vπ | VIII | IX | × | XI | XII | XIII | Χīν | XV. | XVI | xvii | .xvni _ | XTX | ×x. | 2001 | XXII | ΧΧΙΙΙ | XXIV |
|---------------|----------------|-------|-----------------|--|--|------------------|----------------------|---|--------------|--------------------|--------------------------|-------------|-----------|------------|----------------|-------------------|---------|------------|--------------|------------|---------------|--|---------------------|
| | | Dopth | Depth | Extrated | Lenchete | Leachete | Leschate | Lesobate | Leachate | Leachate | Lougheto | Leachate | Efflorent | Leachate | - 53.1 | | 20 -40 | | Efflorent | ~ | | ^~ | 72214 |
| | | ia | in | Depth | Pumped . | Pumpod. | Pumped from | Pureped | Pumped | Pumped | Pumped from | in | in. | Treated | Total | Leachate | Pond | Pond | Sprayed | Effluent | Effluegt | Total | |
| - 1 | | Pond | Fond | et | 10 FS-B | to MLPS | Sections 7-8 | to MLPS from | to LTRF from | to LTRF from | Section 9 | 575K | 575K | at | Leschate | Dust Control | A | 8 | Pood | Irrigation | Dust Control | Efflorest | Total |
| - 1 | Rainfell | ٨ | В | PS-B | from 125-6 | from Phases I-VI | LDS | Scotions 7-8 | MPLS | Section 9 | LDS | Yank | Tank | LTRF | Hauted . | (Sprayed) | Storage | Stomage. | В | | (Sprayed) | Hauled | Evaporation |
| Day | (in.) | (C.) | (fL) | (in.) | (gol.) | (gul) | (ganl.) | (gal.) | (gel) | (psl.) | (201.) | (gal.) | (gal.) | (past.) | (gal.) | (gal.) | (gal.) | (ppd) | (sal) | (pal.) | (enl.) | (sal.) | (gal.) |
| | 0.00 | 2.0 | 0.0 | | 25,290 | 38,777 | 22 | 1 | 38,778 | 0 | Ō | 278,000 | 259,000 | 32,200 | 0 | 0 | 51,000 | 0 | | 36,905 | | 7 (| 29,500 |
| 2 | 00.0 | 1.6 | 0.0 | | 18,600 | 27,218 | 22 | | 30,862 | 5,493 | . 1 | 278.000 | 261,000 | 22,000 | 0 | 0 | 44,000 | 0 | 0 | 16,142 | | | 12,900 |
| 3 3 3 5 5 5 | | HH 76 | 0.0 | | Address of the contract of the | 19,819 | 19 | 1,880 | 21.707 | 1,732 | Figure 7 | ⇒ - 278,000 | 264,000 | 22,000 | α | 01.0 | 52,000 | . 0 | . 0 | 3 3 19 | | | |
| - 4 | 0.00 | 2.0 | 0.0 | | 11,265 | 19,819 | 19 | 1,880 | 21,707 | 1,732 | . 8 | 278,000 | 266,000 | 22,000 | 0 | a l | 61,000 | • | 0 | 44,204 | | | 35,400 |
| 5 | 0.00 | 1.5 | 0.0 | . 22.2 | 15,980 | 26,900 | 28 | 4,139 | 31,040 | 1,584 | . 1 | 286,000 | 265,000 | 24,400 | 0 | 0 | 40,000 | 0 | 0 | 46,550 | . 0 | | 37,200 |
| 6 | 0.00 | 1.5 | 0.0 | | _ | 28,815 | . t9 | | | 455 | 0 | 293,000 | 245,000 | 24,800 | 6,016 | . 0 | 40,000 | 0 | 0 | 42,741 | 0 | | |
| . 7 | 0.00 | 1.6 | | | | 20,201 | 13 | | | | 1 | 278,000 | 221,000 | 27,300 | 12,033 | . 0 | .44,800 | 0 | 0 | 35,085 | 0 | 6,004 | |
| 8 | 0.00 | 1.6 | | | 21,835 | 31,233 | 22 | | | 1.098 | 0 | 281,000 | 204,000 | 25,100 | 12,032 | 0 | 44,000 | | 0 | 49,080 | . 0 | | |
| 9 | 0.00 | 1.6 | 0.0 | | | 34,717 | 23 | | | 3,446 | 2 | 281,000 | 180,000 | 24,600 | 0 | 0 | 44,000 | 0 | 0 | | | (| 14,300 |
| | 0.00 | | State of the St | | | 37,892 | | 1 | 32,892 | 2.147 | . 52 - 20 | | 205,000 | 24,500 | . α | Eminion of | 36,000 | | 0 | - C | 0 | er en e | яны |
| 11 | 0.00 | 1.1 | 0.0 | | | 31,891 | 27 | | 31,891 | 2,147 | 0 | 293,000 | 230,000 | 24,700 | 18,048 | 0 | 28,000 | | 0 | | 0 | | |
| 12 | 0.00 | 2.2 | 0.0 | | | 34,935 | | | | 317 | 0 | 293,000 | 202,000 | 26,900 | 18.051 | 0 | 70,000 | 0 | 0 | 58,884 | 0 | | 47,100 |
| 13 | 0.00 | 1.8 | 0.0 | 1 | | 34,840 | - 10 | | | 0 | 0 | 278,000 | 185,000 | 24,300 | 18.047 | o | 52,000 | 0 | 0 | 0 | ٥ | (|) (|
| 14 | 0.00 | 2.3 | 0.0 | | | 33,411 | 1 | 0 | | . 0 | 0 | 266,000 | 182,000 | 24,700 | 18,046 | 0 | 74,000 | ٥ | 0 | 31,883 | 0 | (| 25,500 |
| 15 | 0.00 | 1.7 | 0.0 | | 10,550 | 17,499 | 34 | | - 1 | 3,638 | 13 | 245,000 | 204,000 | 25,100 | 12,031 | ٥ | 48,0001 | | 0 | 28,289 | 0 | . (| 22,600 |
| 16 | 0.00 | 1.8 | 0,0 | | 6,350 | | 44 | | | 0 | . 2 | 223,000 | 189,000 | Z4.300 | 0 | 0 | 52,000 | 0 | | Z\$,529 | 0 | (| 22,800 |
| | issid=lad 0.00 | | ******** | | 29,705 | 34.464 | 20 | | | | 2.11.2 July 19.9 | 4 | 2/2/000 | | 1, 1, 2, 5, 6, | . 0 | 10,000 | ili in a c | 0 | . 0 | 0 | aitmi el Piec | Harris de C |
| 18 | 0.00 | 1.2 | 0.0 | | 19,705 | 34,464 | 20 | | | 2,334 | 9 | | 235,000 | 24,100 | 0 | 0 | 32,000 | 0 | 0 | | 0 | | 1 |
| 19 | 0.00 | 2.0 | 0.0 | | 5,470 | 9,469 | l8 | | | | 6 | 230,000 | 216,000 | 21,400 | 18,061 | 6 | 61,000 | 0 | | | | | 44,400 |
| 20 | 0 00 | 2.0 | 0.0 | | | 19,039 | . 14 | | | .0 | | | 192,000 | 24,000 | 18.061 | . 0 | 61,000 | 0 | | 55,513 | ٥ | Ì | 44,400 |
| 21 | 0.00 | 1,5 | 0.0 | | 2,035 | 2,061 | 14 | | | 3,255 | 4 | 163,000 | 185,000 | 23,400 | 18,106 | . 0 | 40,000 | 0 | | | | | <u> </u> |
| 23 | 0.00 | 2.0 | 0.0 | | 21,200 | 56,264 47,365 | 9 | . 0 | | 305 | . 6 | 178,000 | 185,000 | 23,200 | 18,107 | | 61,000 | 0 | ——— | 52,003 | + | | |
| 245 | 0.00 | | 0.0 | | | 25.463 | 7 mai international | i i e e e e e e e e e e e e e e e e e e | | 0 | 0 | 189,000 | 182,000 | 24,800 | 0 | ٥ | 36,000 | 0 | | | | | 1 |
| 25 | 0.00 | | 90 | | | 25.463 | 23 | | | | ig institute | | 207,000 | n = 24,900 | | 0 | 37.1 | 0 (14.5) | | | 0 | | |
| 26 | 0.00 | 13 | 0.0 | 1 | 18,180 | 31,030 | 31 | | 56.032 | 1,501 | | 189,000 | 233,000 | 24,300 | 18,121 | - 9 | 36,000 | 9 | | | | | <u>'</u> |
| 27 | 0.00 | 1.2 | 0.0 | | | 35,356 | 9 | | 39,939 | | | | 259,000 | 26,400 | . 18,077 | 0 | 36,000 | 0 | | | | | 31,700 |
| 28 | 0.00 | 1.2 | 0.0 | | | 33,871 | 19 | | 37,265 | 2,160 | 4 | 202,000 | 230,000 | 23,300 | 18,047 | 0 | 32,000 | 0 | | | | (| 43,100 |
| 29 | 0.00 | 1.6 | 0.0 | 1 | | | 15 | | 30,626 | 1.196 | | | | 29,000 | 12,034 | | 32,000 | 0 | | 26,630 | 0 | | 21,300 |
| 30 | 00.0 | 1.3 | 0.0 | | 22,020 | 29,270 | i1 | | 32,575 | 1,196 | | 182,000 | 192,000 | 24,400 | 18,095 | | 44,000 | . 0 | | 42,023 | - | 0 | |
| -41'ar | | | . 0.0 | | 24,100 | | | 3,303 | | | | | 775,000 | 24,300 | | 9° 5 1° 10° 1 | 36,000 | 0 | | 0 | 0. | 0 | |
| | | | 10 44 112 2000 | | , , , , , , , , , , , , , , , , , , , | | gar a Marad Ministra | | | Olive Deligibility | 2:97 : 10; 1 : 11:58 NO. | 107,000 | | 19,200 | Statistical C | ar 1544 (8) | 30,000 | | L [2 7 75 10 | in1 | 21:1-11:0 | 10 1. T. 1. C. | 45 (50) 46 (|
| Total | 0.00 | | | | 533,030 | 882,872 | 588 | 57,253 | 940,232 | 40,822 | 108 | | | 762,300 | 271,013 | 0 | | | <u> </u> | 761.234 | -01 | | |
| Daily Average | | 1.6 | 0.0 | 21.4 | | 28,480 | 19 | | 30,330 | 1,317 | | | 216,700 | 102,300 | 271,013 | | 45,500 | 0 | | 761,234 | | 6,004 | 609,000 |
| Mo. Average | | | | | 1,122 | 20,000 | | 1,447 | 30,320 | 1,5.7 | | 230.700 | 2.6,700 | | | О | +5.500 | | 1 | 24.62 | | | 10.222 |
| | | | | | | | | | | | | | | | | U | | | | 24.600 | s balance 200 | 200 | |

- Notes:

 1. NR = No Records, NA = Nor Available.

 2. Yaltow in bold are estimated; values in italic mo substitute for missing data and are based on everaged values.

 3. Daily average is calcolated by dividing the total by the subset days measured in the month.

 4. Monthly average calculated by dividing the total by the number of days of the month.

 5. Column II, Tenor is less than 0.01 inches and is not included in total.

 6. Columns III and IV, field measured at staff gatages.

- 7. Column V, PPS-B sensor reading plus 9 incluse.
 8. Column VIII & IX, Section 7-8 lank detection pumped into Section 7 leachate surep riser.
 9. Column XIII and XIV: calculated from depth in 575,000 gal, tuals.
 10. Columns VI-XII, XVVXVII, and XXV-XXIII, quantities from 8 flow maters.
 11. Column XXII includes 80% of the deaty values from Columns XVII, XXI, and XXII plus 5% of the deaty values from columns XXII.

TABLE 2. FIELD DATA ENTRY FORM OCTOBER 2010 SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

| A | В | С | D | Е | F | G | н | ŗ | Ј | K. | L | м | Ν. | . 0 | P | a | 8 | ę | т | T. | v | |
|--------|----------|--------------------------|-------------|-------------|------------------------|-----------|-----------|--------------------------|--------------|---------|----------|------------|----------------------|---------------|---------------------------|----------|-----------------|-------------------|------------------------|--|--------------|---------------------|
| 1 | ì | i - | 1 | | | | | 1 | | 7 | Pond B | | Effluent | Depth in | Depth in | Leachate | `` | | Leachate | | | W Effluent |
| 1 | | Flow Meter | Flow Meter | Reading | Section 9 | Section 9 | Section 9 | Sections 7-8 | Sections 7-8 | Pond B | Effluent | Pood A | Spray | 575K Tank | 575K Tank | Treated | Leachar | c Hauled | Dust Control | Efficen | Hauled | Dust Control |
| 1_ | Rainfall | | Pump Sta, A | PS-B | Pump 1 | Pump 2 | LDS | Pump | LDS | Depth . | Sprayed | Depth | Irrigation | Leachate | Effluent | at LTRF | Contractor | County | (Sprayed) | Contractor | County | |
| Day | | (ggl.) | (gal.) | (in.) | (gal,) | (gal.) | (gal.) | (gal.) | (gal.) | (ft.) | {gal} | (ft.) | (gal.) | (fL) | (fL) | (sal.) | (gal.) | (gal.) | (sal.) | (gal.) | (eal.) | (Sprayed) (gal) |
| 1 | 0.00 | 21,295,970 | 5,238,831 | 13.1 | 1,796,649 | 1,322,258 | 1,341 | 2,516,635 | 210 | 0,0 | 0.0 | 2,0 | 36,905 | 9.67 | 9.00 | 32,180 | 0 | o | 0 | 0 | 0 | (pzii) |
| 3 | 0.00 | 21,314,570 | | 13.7 | 1,796,649 | 1,327,751 | 1,342 | 2,520,278 | 232 | 0.0 | 0.0 | 1.6 | 16,142 | 9.67 | 9.08 | 21,973 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1-3 | 0.00 | 21,325,835 | | 13.8 | 1,797,656 | 7,328,476 | ny 350 | 2,522,158 | :::25⊁ ний. | 0.0 | 0.0 | 1.8 | 16.14 0 11 12 | 20 9.7 | 9.2 | 21.973 | - 15 OL 1 | 0 | 12 100 | Section 1 | The Garage | 1054 |
| 3 | | 21,337,100 | | 13.8 | 1,798,663 | 1,329,201 | 1,358 | 2,524,038 | 270 | 0.0 | 0.0 | 2.0 | 44,204 | 9.67 | 9.25 | 21,974 | . 0 | 0 . | 0 | 0 | Ö | 0 |
| 6 | 0.00 | 21,353,080 | | 13.2 | 1,798,663 | 1,330,785 | 1,359 | 2,528,177 | 298 | 0.0 | 0:0 | 1.5 | 46,550 | 9.92 | 9.25 | 24,379 | 0 | 0 | 0 | 0 | - | 0 |
| 7 | 0.00 | 21,371,070 | | 13.6 | 1,798,663 | 1,331,240 | 1,359 | 2,528,177 | 317 | 0,0 | 0.0 | 1.5 | 42,741 | 10.17 | 8.50 | 24,793 | 0 | 6,016 | 0 | ó | 0 | 0 |
| 8 | . 0.00 | 21,384,075 | | 13.2 | 1,798,663 | 1,331,954 | 1,360 | 2,532,520 | 330 | 0.0 | 0.0 | 1.6 | 35,085 | 9.67 | 7.67 | 27,320 | 0 | 12,033 | 0 | 0 | 6,004 | 0 |
| 1 9 | 0.00 | | | 12.5 | 1,798,663 | 1,333,052 | 1,360 | 2,532,520 | 352 | 0.0 | 0.0 | 1.6 | 49,080 | 9.75 | 7.08 | 25,100 | 0 | 12,032 | · 0 | 0 | o | 0 |
| 10 | | 21,427,890 21,419,100 | | 13.6 | 1,798,663 | 1,336,498 | 1,362 | 2,532,520 | 375 | 0,0 | 0.0 | 1.6 | 17,822 | 9.75 | 6.25 | 24,610 | 0 | 0 | 0 | 0 | 0 | 0 |
| 1 17 | 0.00 | | 5,511,334 | | -1,799,681 | 1.337,628 | | 2,532,520°° | ≠02 | 0.0 | 0.0 | # J. P. 12 | 1000 | 10.0 | 2 Z.L | 24.622 | ., O: : ; t | # O - □ | Liver Open | :::::::::::::::::::::::::::::::::::::: | . 0 | F-20- |
| 12 | 0.00 | 21,470.310 | 5,546,269 | 13.9 | 1,800,698 | 1,338,757 | 1,362 | 2,532,520 | 428 | 0.0 | 0.0 | 1.1 | 0 | 10.17 | 8.00 | 24,680 | 0 | 18,048 | 0 | 0 | 0 | 0 |
| 13 | 0.00 | 21,520,420 | | 13.2 | 1,800,710 | 1,339,062 | 1,362 | 2,532,520 | 448 | 0,0 | 0.0 | 2.2 | 58,884 | 10.17 | 7.00 | 26,900 | 0 | 18,051 | . 0 | ٥ | 0 | 0 |
| 14 | 0.00 | 21,520,420 | 5,581,109 | 9.0 14.5 | 1,800,710 | 1,339,062 | 1,362 | 2,532,520 | 458 | 0.0 | 0,0 | 1.8 | . 0 | 9.67 | 6.42 | 24,325 | 0 | 18,047 | 0 | 0 | 0 | 0 |
| 1 | 0.00 | 21,555,430 | 5,632,019 | 14.1 | 1,800,710 | 1,339,062 | 1,362 | 2,532,520 | 459 | 0,0 | 0.0 | 2.3 | 31,883 | 9,25 | 6.33 | 24,652 | 0 | 18,046 | 0 | 0 | 0 | 0 |
| 16 | 0.00 | 21,561,780 | 5,641,958 | 12.7 | 1,804,130 1,804,130 | 1,339,280 | 1,375 | 2,532,520 | 493 | 0,0 | 0.0 | 1.7 | 28,289 | 8.50 | 7:08 | 25,100 | 0 | 12,031 | o | . 0 | 0 | 0 |
| 17 | | 21,381,485 | 5.676.422 | 10.9 | 1.804.940 | 1,339,280 | 1,377 | 2,532,520 | 537 | 0.0 | 0.0 | 1.8 | 28,529 | 7.75 | 6.58 | 24,347 | a | 0 | Ō | • | 0 | 0 |
| 18 | 0.00 | 21,601,190 | 5,710,886 | 9.1 | 1,805,750 | 1,342,327 | 1,395 | 2,532,520 E 2,532,520 | 577 577 | 0.0 | | 1.5 | 9.0 | 8:2. pg: | 73.5 | 25,022 | : 1 ta 0 | 16 (0 11) | 200 | 0 | (Ozi i. | 0 - |
| 19 | 0.00 | 21,606,660 | 5,720,355 | 23.0 | 1,805,750 | 1,342,327 | 1,401 | 2,532,520 | 595 | 0.0 | 0.0 | 2.0 | 0 | 8,58 | 8.17 | 24,115 | 0 | 0 | ۰ | . 0 | ٥ | 0 |
| 20 | 0,00 | 21,617,435 | 5,739,394 | 7.3 | 1,805,750 | 1,342,327 | 1,401 | 2,532,520 | 609 | 0.0 | 0.0 | 2:0 | 55,447 | 8.00 | 7.50 | 21,391 | 0 | 18,061 | 0 | . 0 | 0 | 0 |
| 21 | 0.00 | 21,619,470 | 5,741,455 | 8.4 | 1,805,750 | 1,345,582 | 1,405 | 2,532,520 | 623 | 0.0 | 0.0 | 1.5 | 55,513 | 7.17 5.67 | 6.67 | 24,019 | 0. | 18,061 | 0 | . 0 | . 0 | 0 |
| 22 | 0.00 | 21.640.670 | | 8.8 | 1,805,750 | 1,345,887 | 1.411 | 2,532,520 | 632 | 0.0 | 0.0 | 2.0 | 52,003 | 6.17 | | 23,358 | 0 | 18,106 | 0 | 0 | 0 | 0 |
| 23 | 0.00 | 21.665.130 | 5,845,104 | 24.1 | 1,805,750 | 1,345,887 | 1,411 | 2,532,520 | 640 | 0.0 | 0.0 | 1.4 | 32,003 | 6.58 | 6.42 | 23,237 | 0 | 18,107 | 00 | 0 | 0 | 0 |
| 24 | 0.00 | 21,666,650 | | 13.5 | 1.805.750 | 1.347.688 | 1417 | 5 2 532 520 | · · · 663 | 0.0 | 0.0 | r (yet | Ballit Ozlada | 5.6 | 0,33 | 24,753 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 | 0.00 | 21,668,170 | 5,896,029 | 6,8 | 1,805,750 | 1,349,488 | 1,422 | 2,532,520 | 686 | 0.0 | 0.0 | 1.3 | 0 | 6.58 | 8.08 | 24.258 | | | | 0 | 0. | frings:00% from |
| 26 | 0.00 | 21,686,350 | 5,927,059 | 13.4 | 1,805,750 | 1,349,488 | 1.422 | 2,557,522 | 717 | 0.0 | 0.0 | 1.3 | 39,623 | 7.25 | 9 00 | 26,380 | 0 | 18,121 | 0 | 0 | 0 | 0 |
| 27 | 0.00 | 21,710,950 | 5,962,415 | 13.1 | 1,805,750 | 1.349.488 | 1,422 | 2,562,105 | 726 | G.0 | 0.0 | 1.2 | 53,881 | 7.00 | 800 | 23,306 | 0 | 18,077 18,047 | 0 | 0 | 0 | 0_ |
| 28 | 0.00 | 21.738,090 | 5,996,286 | I2.4 | 1,807,720 | 1,349,678 | 1.426 | 2,565,495 | 745 | 0.0 | 0.0 | 1.2 | 26,630 | 6,83 | 7.42 | 25,026 | 0 | 12,034 | | 0 | 0 | 0 |
| 29 | 0.00 | 21,757,590 | 6,023,548 | 12.8 | 1,808,916 | 1,349,678 | 1,439 | 2,568,846 | 760 | 0.0 | 0.0 | 1.6 | 42,023 | 6.50 | 6.92 | 24,400 | 0 . | 18,095 | 0 | 0 | 0 | 0 |
| 30 | 0.00 | 21,779,610 | 6,052,818 | 0.0 | 1,808,916 | 1,349,678 | 1,447 | 2.572.151 | 771 | 0.0 | 0.0 | 1.3 | 0 | 6.33 | 6.67 | 24,888 | 0 | 19/032 | | 0 | 0 | 0 |
| 31 | | 21.803,710 | 6.082.926 | 6.3 | 1.808.916 | 1:350,813 | | 2,573,887 | 776 | -0.61 | - σ.σ. | 1.3 | On the | | 75 | 24,225 | | 0 12 10 14 14 | kuji princije i minimi | U U U | 0 | 0 |
| Totals | 0.00 | | | | | | | | | | 0 | | 761 234 | | and the second section is | 762,226 | 0 | 271,013 | O CONTRACTOR | | 6.004 | Philipped Carry (1) |
| | | | | | | | | | | | | | | | 170 | . 04,440 | | 2/1/013 | V | V2000 | | /idw 11/02/10) |

Notes:

- NR = No Records, NA = Not Available.
 NR = No Records, NA = Not Available.
 Values in bold are estimated; values in italic are substitute for missing data and are based on averaged values.
- 3 Column IV includes quantities from leak detection system.

| Type of Cover | Phases I-VI acres | Sections 7-8 | Section 9 acres |
|---------------|----------------------|--------------|--------------------|
| Open | 5 | 0 1 | 0 |
| Intermediate | 134.4 | 19.3 | 15 |
| Final | . 23 | 0 | 0 |
| Not Opened | . 0 | 0 | 0 |

Column B, trace is less than 0.01 inches.
 Columns C, D, F, G, H, I, J, L, N, Q, R-V and W are quantities from flow meters.
 Columns K and M measured from staff gages in each pond.

TABLE 3. LEACHATE BALANCE SUMMARY SOUTHEAST COUNTY LANDFILL HILLSBOROUGH COUNTY, FLORIDA YEAR-2010

| | | | Leachate A | rriving at LTRF | | Lea | chate Leaving LT | RF | | Effluent Disposal | · · · · · · · · · · · · · · · · · · · | Inflo | w/Outflow For I | TRF |
|-----------|----------|-----------------|----------------|------------------|------------------|----------------|------------------|------------|-----------|-------------------|---------------------------------------|--------------|-----------------|----------------------|
| 1 | | Leachate Hauled | Leachate | Leachate | Leachate | Totai Leachate | Leachate | Leachate | Total | Effluent | Effluent | Total Inflow | Total Outflow | Change |
| | Rainfall | to LTRF from | from Section 9 | from Section 7-8 | from Phases I-VI | Hauled | Dust Control | Treated at | Effluent | Dust Control | Irrigation | to | from | in |
| I | | HHLF/TRLF | Pumped to LTRF | Pumped to LTRF | Pumped to LTRF | from LTRF | (Sprayed) | LTRF | Hauled | (Sprayed) | | LTRF | LTRF | Storage ³ |
| Month | (in.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) |
| January | 3.50 | . 0 | 31,114 | 73,231 | 794,265 | 223,008 | 1,500 | 625,400 | 24,397 | 44,971 | 463,698 | 898,610 | 849,908 | 48,702 |
| February | 2.51 | 0 | 47,150 | 109,806 | 771,075 | 337,419 | 0 | 560,600 | 6,489 | 45,071 | 483,052 | 928,031 | 898,019 | 30,012 |
| March | 17.66 | 0 | 56,034 | 86,576 | 813,346 | 372,562 | Ō | 608,600 | 0 | 137,050 | 455,821 | 955,956 | 981,162 | -25,207 |
| April | 3.04 | 0 | 57,944 | 71,442 | 812,598 | 337,294 | 0 | 643,200 | 6,011 | 65,856 | 719,336 | 941,984 | 980,494 | -38,510 |
| May | 1.66 | 0 | 43,699 | 37,397 | 779,316 | 234,292 | 0 | 644,000 | 0 | 266,910 | 33 8,7 59 | 860,413 | 878,292 | -17,879 |
| June | .7.43 | 0 | 60,719 | 20,449 | 740,158 | 318,992 | . 0 | 602,600 | 242,614 | 120,108 | 184,585 | 821,326 | 921,592 | -100,266 |
| July | 8.79 | 0 | 54,193 | 128,891 | 877,301 | 428,135 | 0 | 622,000 | 473,967 | 78,063 | 278,792 | 1,060,385 | 1,050,135 | 10,250 |
| August | 12.08 | 0 | 47,349 | 168,177 | 934,303 | 283,236 | 0 | 779,500 | 211,111 | 93,055 | 215,125 | 1,149,829 | 1,062,736 | 87,093 |
| September | 4.12 | . 0 | 51,415 | 129,137 | 1,084,207 | 624,322 | . 0 | 741,400 | 48,503 | 246,211 | 836,304 | 1,264,759 | 1,365,722 | -100,963 |
| October | 0.00 | 0 | 40,930 | 57,253 | 882,872 | 271,013 | . 0 | 762,300 | 6,004 | 0 | 761,234 | 981,054 | 1,033,313 | -52,259 |
| November | | | | | | | | | | | | | | |
| December | | | | | | | | | | | | | | |
| | | | 1 | | | | | | | | | | | |
| YID Total | 50,89 | 0 | 490,545 | 882,358 | 8,489,441 | 3,430,273 | 1,500 | 6,589,600 | 1,019,096 | 1,097,295 | 4,736,706 | 9,862,345 | 10,021,373 | -159,028 |

Note:

- 1. If the bypass at the effluent pond is ever used to pump effluent back to the LTRF, this table must be modified.

 2. Leachate from the Hillsborough Heights and Taylor Road landfills is being hauled to the Faulkenburg Road Wastewater Treatment Facility.
- 3. Change in storage represents total inflow to LTRF minus total outflow from LTRF.

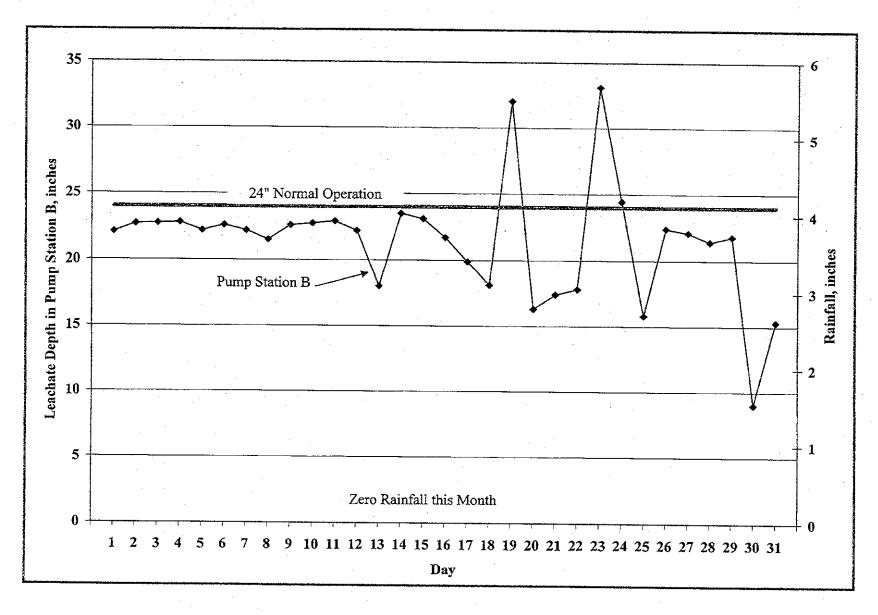


Figure 1. Leachate Levels in Pump Station B and Rainfall for October 2010.



BOARD OF COUNTY COMMISSIONERS
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Victor D. Crist
Ken Hagan
Al Higginbotham
Lesley "Les" Miller, Jr.
Sandra L. Murman
Mark Sharpe

Office of the Interim County Administrator Michael S. Merrill Dept. Of Environmental Protectio,

JAN 19 2011

Southwest DistricTATORS
ADMINISTRATORS

Lucia E. Garsys
Eric R. Johnson
Edith M. Stewart
J. Eugene Gray, Acting
Sharon D. Subadan, Interim
Mark J. Thornton, Interim

January 12, 2011

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION JAN 1,9 2011 SOUTHWEST DISTRICT TAMPA

Ms. Susan J. Pelz, P.E.
Solid Waste Permitting
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Pkwy
Temple Terrace, Florida 33637

RE: Southeast County Landfill - November 2010 Leachate Data

Dear Ms. Pelz:

In accordance with the Hillsborough County Solid Waste Management Department's (SWMD) Leachate Management Plan (LMP) for the Southeast County Landfill (Landfill), the SWMD is providing the Landfill's Water Balance Report for the month of November 2010. In addition, the SWMD is providing the November 2010 field data forms for the Landfill, the daily leachate and collection system evaluation reports and the Year-to-Date Leachate Balance Summary.

This information is being provided to the Florida Department of Environmental Protection (FDEP) and the Hillsborough County Environmental Protection Commission as part of the quarterly Leachate Water Balance report on the Landfill leachate management efforts in accordance with Permit No. 35435-014-SO, Specific Condition No. 8.

As initiated with the April 1996 report, the Landfill leachate information for November 2010 includes an evaluation by SWMD staff of the monthly data. The report includes a figure depicting the leachate levels in Pump Station B (PS-B) and rainfall. PS-B was below the normal operation level of 24 inches during the month of November 2010. The average depth of leachate in the PS-B sump for the recorded days in November 2010 was 22.4 inches.

Ms. Susan J. Pelz January 12, 2011 Page Two

Please advise should you have any questions concerning the information provided.

Sincerely,

Latrice V. Berry

Landfill and Environmental Services Section Manager

Solid Waste Management Division

Attachments

glfs/leal110.dep



BOARD OF COUNTY COMMISSIONERS Kevin Beckner Victor D. Crist Ken Hagan Al Higginborham Lesley "Les" Miller, Jr. Sandra L. Murman Mark Sharpe

Office of the County Administrator Michael S. Merrill

ADMINISTRATORS Lucia E. Garsvs Eric R. Johnson Edith M. Stewart J. Eugene Gray, Acting Sharon D. Subadan, Interim Mark J. Thornton, Interim

MEMORANDUM

DATE:

December 29, 2010

TO:

Patricia Berry, Section Manager, Solid Waste Management Division

FROM: JULY Larry Ruiz, General Manager III, Solid Waste Management Division

Raymond Graves, Sr. Eng. Tech., Solid Waste Management Division

Leachate Water Balance Report Forms for November

Southeast County Landfill, Hillsborough County, Florida

The Solid Waste Management Division (SWMD) staff has compiled and reviewed the leachate management operational data from the Southeast County Landfill Phases I-VI, Sections 7-8, and Section 9. Attached are the Leachate Water Balance Report Form (Table 1), the Leachate Field Data Entry Form (Table 2), and the 2010 Summary (Table 3). Also, attached find Figure 1 showing leachate levels in Pump Station B sump of Phases I-VI and rainfall for the month.

TABLE 1

Day (Column I)

Column I presents the calendar days for the month.

Rainfall (Column II)

Column II presents the average rainfall, in inches, as measured in the field from rainfall stations at the site. This month there was 0.85 inches of rainfall at the Southeast County Landfill (SCLF).

MEMORANDUM December 29, 2010 Page 2 of 6

Depth in Pond A (Column III)

Column III presents the daily depth, in feet, of effluent stored in effluent pond (Pond A). The daily depth in Pond A varies as a function of the spray irrigation frequency/duration and effluent hauled from the pond. This month the daily average depth of effluent stored in Pond A was 2.2 feet.

Depth in Pond B (Column IV)

Column IV presents the daily depth, in feet, of effluent or leachate that is stored in the effluent/leachate storage pond (Pond B). The depth in Pond B varies as a function of the evaporation frequency/duration and effluent or leachate hauled from the pond. This month effluent was not stored in Pond B.

Estimated Depth at Pump Station B Sump (PS-B) (Column V)

Column V presents the depth of leachate, in inches, in the PS-B sump. Leachate from Phases I-VI flows to the PS-B sump for removal from the landfill. PS-B then pumps the leachate to Pump Station A (PS-A). Daily depth readings from the PS-B sump are included in this column. This month PS-B was below the normal operation level of 24-inches. The average recorded depth of leachate in the PS-B sump was 22.4 inches.

Leachate Pumped to PS-B from TPS-6 (Column VI)

Column VI presents the quantity of leachate from Phase IV pumped to PS-B by Temporary Pump Station-6 (TPS-6). The quantity of leachate removed by TPS-6 is measured in gallons by an in-line flow meter and is included in the quantity of leachate pumped to the Main Leachate Pump Station (MLPS) from Phases I-VI (Column VII). The average daily amount of leachate pumped from TPS-6 was 18,690 gallons. A total of 560,700 gallons of leachate was pumped this month.

Leachate Pumped to MLPS from Phases I-VI (Column VII)

Column VII presents the daily amount of leachate, in gallons, collected from PS-A and pumped through the MLPS to the 575,000-gallon storage tank at the Leachate Treatment and Reclamation Facility (LTRF) for treatment or disposal. The quantity in column VII also includes the daily amount of leachate, in gallons, pumped from TPS-6. The average daily amount of leachate pumped from PS-A was 27,691 gallons. A total of 830,725 gallons of leachate was pumped this month.

MEMORANDUM December 29, 2010 Page 3 of 6

Leachate Pumped from Sections 7-8 LDS (Column VIII)

Column VIII presents the quantity of leachate removed from the leak detection system (LDS) of Sections 7-8. The quantity is measured by a flow meter before being pumped for removal with Sections 7-8 leachate. The removal rate did not exceed 1,930 gallons per day. This month a total of 99 gallons of leachate was removed from the leak detection system of Sections 7-8.

Leachate Pumped to MLPS from Sections 7-8 (Column IX)

Column IX presents the quantity of leachate collected at Sections 7-8 and pumped to the MLPS. The quantity is measured by a flow meter and includes any leachate removed from the leak detection system of Sections 7-8 (Column VIII). This month a total of 48,246 gallons of leachate was pumped from Sections 7-8.

Leachate Pumped to LTRF from the MLPS (Column X)

Column X presents the total quantity of leachate pumped to the LTRF from Phases I-VI and Sections 7-8. This month a total of 879,102 gallons of leachate was pumped to the LTRF.

Leachate Pumped to LTRF from Section 9 (Column XI)

Column XI presents the daily amount of leachate, in gallons, collected from Section 9 and pumped to the 575,000-gallon storage tank at the Leachate Treatment and Reclamation Facility (LTRF) for treatment or disposal. A total of 28,521 gallons of leachate was pumped this month.

Leachate Pumped from Section 9 LDS (Column XII)

Column XII presents the daily amount of leachate, in gallons, collected from the LDS of Section 9 and pumped to the 575,000-gallon storage tank at the LTRF for treatment or disposal. The removal rate did not exceed 4,651 gallons per day. This month a total of 131 gallons of leachate were removed from the leak detection system.

Leachate in 575,000-Gallon Tank (Column XIII)

Column XIII presents the daily amount of leachate, in gallons, stored in the 575,000-gallon leachate holding tank at the LTRF. The amount of leachate stored in the tank is calculated based on the circumference of the tank and the daily level reading. This month an average of 168,300 gallons of leachate was stored in the tank.

MEMORANDUM December 29, 2010 Page 4 of 6

Effluent in 575,000-Gallon Tank (Column XIV)

Column XIV presents the daily amount of effluent, in gallons, stored in the 575,000-gallon effluent holding tank at the LTRF. The amount of effluent stored in the tank is calculated based on the circumference of the tank and the daily level reading. This month an average of 239,400 gallons of effluent was stored in the tank.

Leachate Treated at LTRF (Column XV)

Column XV presents the daily amount of leachate, in gallons, treated at the LTRF. This month a total of 732,300 gallons of leachate was treated.

Total Leachate Hauled (Column XVI)

Column XVI presents the daily amount of leachate, in gallons, hauled off site. This month a total of 205,153 gallons of leachate was hauled off site.

Leachate Dust Control Sprayed (Column XVII)

Column XVII presents the daily amount of leachate, in gallons, measured from the flow meter at the bypass-loading arm at the leachate storage tank. The leachate is used for dust control in the active area of the landfill. This month leachate was not used for dust control.

Pond A Storage (Column XVIII)

Column XVIII presents the daily amount of effluent, in gallons, stored in Pond A. The daily amount stored in the pond is calculated by using the daily depth of effluent in the Pond A (Column IV). Under normal operating conditions, the daily amount of effluent stored in the pond varies depending upon the daily amount of leachate treated at the LTRF, the daily rainfall, daily effluent hauling operations, daily spray irrigation operations, and the daily amount of effluent used for dust control/evaporation. This month a daily average of 71,600 gallons of effluent was stored in Pond A.

MEMORANDUM December 29, 2010 Page 5 of 6

Pond B Storage (Column XIX)

Column XIX presents the daily amount of effluent, in gallons, stored in Pond B. The daily amount stored in the pond is calculated by using the daily depth of effluent in Pond B (Column IV). Under normal operating conditions, the amount stored in the pond will vary depending upon the daily amount of effluent removed from the pond by the evaporation system, hauled from the pond, used for dust control or evaporated. This month effluent was not stored in Pond B.

Effluent Sprayed at Pond B (Column XX)

Column XX presents the daily amount of effluent, in gallons, sprayed for evaporation at Pond B. The amount evaporated is calculated by using 5 percent of the daily flow meter quantity sprayed at Pond B and it is included in Column XXIV. This month effluent was not sprayed in Pond B.

Effluent Irrigation (Column XXI)

Column XXI presents the daily amount of effluent, in gallons, used for spray irrigation on top of Phases I-VI. The daily amount of effluent irrigation on Phases I-VI is measured from the flow meter at the irrigation pump station. This month a total of 701,368 gallons of effluent were used for spray irrigation.

Effluent Dust Control Sprayed (Column XXII)

Column XXII presents the daily amount of effluent, in gallons, sprayed for dust control in the active areas of the SCLF. The daily amount of effluent used for dust control, is measured from the flow meter at the bypass-loading arm. This month effluent was not sprayed as dust control.

Total Effluent Hauled (Column XXIII)

Column XXIII presents the daily amount of effluent, in gallons, hauled off site, as measured from the flow meter at the bypass-loading arm. This month a total of 42,031 gallons of effluent were hauled off site.

Total Evaporation (Column XXIV)

Column XXIV presents the daily amount of leachate and effluent, in gallons, that evaporates and therefore will not be returned to the SCLF and/or requires treatment. Evaporation rates of 80 percent and 5 percent evaporation rate for spray in Pond B are assumed. The total evaporation estimated for this month was 561,000 gallons.

MEMORANDUM December 29, 2010 Page 6 of 6

TABLE 2

Table 2 presents data assembled from daily logs compiled by the SWMD staff.

TABLE 3

Leachate Balance Summary

The Leachate Balance Summary (see Table 3) presents a review of inflow and outflow quantities for the LTRF, as well as rainfall and effluent disposal quantities at the landfill. Total inflow quantity to the LTRF was 907,623 gallons. Total outflow quantity from the LTRF was 937,453 gallons. The change in storage for the month decreased by 29,830 gallons.

Please advise should you have any questions concerning the information provided.

TABLE 1. LEACHATE WATER BALANCE REPORT FORM NOVEMBER 2010 SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

| 1 | п | Ш | IV | v | VI | VII | VIII | IX | Х | XI | XII | XIII | XIV | XV | ΙVΧ | XVII | XVIII | XIX | XX | XXI | XXII | XXIII | XXIV |
|---------------|----------|-------|-------|-----------|------------|------------------|--------------|--------------|--------------|--------------|-------------|----------|----------|----------|----------|--------------|---------|---------|----------|------------|--------------|------------|-----------|
| | | Depth | Depth | Estimated | Leachate | Leachate | Leachate | Leachate | Leachate | Leachate | Leachate | Leachate | Effluent | Leachate | | | | | Effluent | | | | |
| | | in | in | Depth | Pumped | Pumped | Pumped from | Pumped | Pumped | Pumped | Pumped from | in | in | Treated | Total | Leachate | Pond | Pond | Sprayed | Effluent | Effluent | Total | |
| | | Pond | Pond | at | to PS-B | to MLPS | Sections 7-8 | to MLPS from | to LTRF from | to LTRF from | Section 9 | 575K | 575K | at | Leachate | Dust Control | Α | В | Pond | Irrigation | Dust Control | Effluent | Total |
| | Rainfall | Λ | В | PS-B | from TPS-6 | from Phases I-VI | LDS | Sections 7-8 | MPLS | Section 9 | LDS | Tank | Tank | LTRF | Hauled | (Sprayed) | Storage | Storage | В | | (Sprayed) | Hauled | Evaporati |
| Day | (in.) | (ft.) | (fL) | (in.) | (gal.) | (gal) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal) | (gal) | (gal.) | (gal.) | (gal) | (gal.) |
| 1 | 0.00 | 1.3 | 0.0 | 21.6 | 48.200 | 60,216 | 10 | 3,471 | 63,706 | 2,270 | 19 | 192,000 | 238,000 | 26,400 | 12,076 | 0 | 36,000 | 0 | 0 | 24,689 | 0 | (| 0 19.8 |
| 2 | 0.33 | 1.7 | 0.0 | 21.5 | 23,600 | 29,183 | 5 | 0 | 29,183 | 2,923 | 0 | 187,000 | 216,000 | 24,300 | 6,051 | 0 | 48.000 | 0 | 0 | 0 | 0 | 6,004 | |
| 3 | 0.17 | 2.5 | 0.0 | 20.5 | 24,940 | 31,277 | 5 | 4,500 | 35,777 | 41 | 0 | 197,000 | 202,000 | 24,200 | 0 | 0 | 83,000 | 0 | 0 | 27.936 | 0 | (| 0 22.3 |
| 4 | 0.10 | 2.0 | 0.0 | 21.1 | 21,640 | 32,499 | 6 | 1 | 32,500 | 790 | 0 | 202,000 | 225,000 | 34,300 | 18,083 | 0 | 61,000 | 0 | 0 | 0 | 0 | (| 0 |
| 5 | 0.00 | 2.0 | 0.0 | 23.3 | 17,330 | 33,720 | 0 | 4,171 | 37,892 | 1,707 | 1 | 206,000 | 250,000 | 17,200 | 18,051 | 0 | 61,000 | 0 | 0 | 0 | 0 | (| 0 |
| 6 | 0.00 | 2.5 | 0.0 | 21.7 | 29,630 | 35,765 | 10 | 1 | 35,766 | 0 | 0 | 202,000 | 245,000 | 25,100 | 0 | 0 | 83,000 | 0 | 0 | 0 | 0 | (| 0 |
| 7 | 0.00 | 2.9 | 0.0 | 22.6 | 20,610 | 24,104 | 0 | 0 | 24,116 | 2,234 | 12 | 203,000 | 247,000 | 23,300 | 0 | 0 | 103,000 | 0 | 0 | 0 | 0 | (| 0 |
| 8 | 0.00 | 3.3 | 0.0 | 23.4 | 20.610 | 24,104 | 0 | 0 | 24,116 | 2,234 | 12 | 204,000 | 250,000 | 23,300 | 18,054 | 0 | 123,000 | 0 | 0 | 52.698 | 0 | (| 0 42.2 |
| 9 | 0.00 | 2.5 | 0.0 | 23.1 | 24,950 | 31,260 | 0 | 0 | 31,261 | 0 | 1 | 192,000 | 250,000 | 22,300 | 18,109 | 0 | 83,000 | | | 58,756 | 0 | (| 0 47,0 |
| 10 | 0.00 | 1.8 | 0.0 | 23.5 | 24,230 | 30,330 | 0 | 0 | 30,334 | 0 | 4 | 180,000 | 254,000 | 24,000 | 12,062 | 0 | 52,000 | 0 |) (| 16,634 | 0 | (| 0 13,3 |
| 11 | 0.00 | 2.0 | 0.0 | 23.5 | 23,135 | 28,511 | 0 | 7,182 | 35,702 | 0 | 9 | 185,000 | 254,000 | 25,200 | 0 | 0 | 61,000 | 0 | 0 | 25,805 | | (| 0 20,6 |
| 12 | 0.00 | 2.0 | 0.0 | 22.1 | 12.495 | 17,879 | 1 | 0 | 17,887 | 2,676 | 8 | 180,000 | 257,000 | 26,100 | 0 | 0 | 61,000 | 0 |) (| 25.612 | 0 | (| 0 20.5 |
| 13 | 0.00 | 1.8 | 0.0 | 23.1 | 20,650 | 26,929 | 0 | 4,573 | 31,502 | 2,447 | 0 | 187,000 | 259,000 | 24,900 | 0 | 0 | 52,000 | 0 |) (| 20,390 | 0 | | 0 16,3 |
| 14 | 0.00 | 2.2 | 0.0 | 23.1 | 22,115 | 28,495 | 0 | 4 | 28,499 | 275 | 1 | 191,000 | 260,000 | 25,400 | 0 | 0 | 70,000 | 0 |) (| 0 | 0 | Contract (| 0 |
| 15 | 0.00 | 2.5 | 0.0 | 23.0 | 22,115 | 28,495 | 0 | 4 | 28,499 | 275 | 1 | 194,000 | 261,000 | 25,400 | 12,071 | 0 | 83,000 | 0 |) (| 51,412 | 0 | | 0 41,1 |
| 16 | 0.25 | 1.9 | 0.0 | 22.0 | 26,230 | 35,784 | 0 | 0 | 35,788 | 1,291 | 4 | 189,000 | 264,000 | 24,900 | 18,117 | 0 | 57,000 | 0 | (| 0 | 0 | | 0 |
| 17 | 0.00 | 2.8 | 0.0 | 23.2 | 12.440 | 22,251 | 0 | 0 | 22,251 | 0 | 0 | 168,000 | 242,000 | 33,100 | 18,151 | 0 | 98,000 | |) (| 0 | 0 | | 0 |
| 18 | 0.00 | 3.4 | 0.0 | 22.4 | 11,020 | 22,251 | 0 | 6,487 | 28,741 | 44 | 3 | 156,000 | 240,000 | 15,900 | 18,118 | 0 | 129,000 | |) (| 55,668 | 0 | | 0 44.5 |
| 19 | 0.00 | 2.3 | 0.0 | 23.3 | 27,830 | 33,277 | 0 | 0 | 33,280 | 0 | 3 | 144,000 | 264,000 | 25,000 | 18,093 | 0 | 74,000 | (|) (| 49.149 | 0 | | 0 39,3 |
| 20 | 0.00 | 2.3 | 0.0 | 23.7 | 8,320 | 11,044 | 8 | 4,258 | 15,312 | 187 | 10 | 130,000 | 245,000 | 24,500 | 0 | 0 | 74,000 | (|) (| 50,813 | 0 | | 0 40,7 |
| 21 | 0.00 | 2.3 | 0.0 | 22.9 | 16,715 | 24,456 | 0.0 | 0 | 24,461 | 2,528 | 5 | 131,000 | 246,000 | 24,500 | 0 | 0 | 74,000 | (| | 0 | 0 | | 0 |
| 22 | 0.00 | 2.3 | 0.0 | 22.1 | 16,715 | 24,456 | 0.0 | 0 | 24,461 | 2,528 | 5 | 132,000 | 247,000 | 24,500 | 0 | 0 | 74,000 | (|) (| 51.857 | 0 | 12,010 | |
| 23 | 0.00 | 2.0 | 0,0 | 22.0 | 15.435 | 23,896 | 5 | 4,050 | 27,947 | 58 | 1 | 137,000 | 223,000 | 25,100 | 0 | 0 | 61,000 | (|) (| 0 | 0 | 18,013 | _ |
| 24 | 0.00 | 2.6 | 0.0 | 21.4 | 12.375 | 23,611 | 5 | 0 | 23,619 | 0 | 8 | 137,000 | 204,000 | 24,900 | 6,037 | 0 | 88,000 | (|) (| 49,490 | 0 | 6,00 | 39.0 |
| 25 | 0.00 | 2.5 | 0.0 | 21.7 | 11,340 | 25,446 | 9 | 2,186 | 27,644 | 1,971 | 13 | 137,000 | 206,000 | 24,900 | 0 | 0 | 83,000 | (| 1 | 0 | 0 | | 0 |
| 26 | 0.00 | 2.3 | 0.0 | 22.0 | 11,340 | 25,446 | 5 | 2,186 | 27,644 | 1,971 | 13 | 137,000 | 209,000 | 25,100 | 0 | 0 | 74,000 | (|) (| 50,561 | 0 | | 0 40,4 |
| 27 | 0.00 | 2.0 | 0.0 | 21.5 | 11.390 | 26,805 | (| | 26,805 | C | 0 | 144,000 | 202,000 | 24,500 | 0 | 0 | 61,000 | (|) (| 20,916 | 0 | | 0 16.7 |
| 28 | 0.00 | 1.8 | 0.0 | 21.9 | 8,625 | 23,395 | 10 | 0 | 23,396 | 36 | 1 | 139,000 | 226,000 | 25,200 | 0 | 0 | 52,000 | (| | 0 | 0 | | 0 |
| 29 | 0.00 | 1.6 | 0.0 | 22.2 | 8.625 | 23,395 | 10 | | 23,396 | 36 | 1 | 134,000 | 250,000 | 24,800 | 6,043 | 0 | 44,000 | (| - | 30,146 | | | 0 24.1 |
| 30 | 0.00 | 1.6 | 0.0 | 22.0 | 6,050 | 22,447 | (| 5,172 | 27,619 | 0 | | 132,000 | 247,000 | 14,000 | 6,037 | 0 | 44,000 | (| 0 | 38,836 | 0 | | 0 31,1 |
| | | | | | | | | | | | | | | | | | | | | | | | - |
| | | | | | | | | | | | | | | | | - 1 | | | | | | | |
| otal | 0.85 | | | | 560,700 | 830,725 | 99 | 48,240 | 879,102 | 28,521 | 131 | | | 732,300 | 205,153 | 0 | | | | 701.368 | 0 | 42,03 | 31 561.0 |
| Daily Average | | 2.2 | 0.0 | 22.4 | 18,690 | 27,691 | | 1,608 | 29,303 | 951 | 4 | 168,300 | 239,400 | | | | 71,600 | | 0 | | | | |
| Ao. Average | | | | | | | | | | | | | | | | 0 | | | | 23,400 | 0 | 1,40 | 00 18,7 |

- Notes

 1. NR = No Records, NA = Not Available.

 2. Values in hold are estimated, values in talic are substitute for missing data and are based on averaged values.

 3. Daily average is calculated by drividing the total by the actual days measured in the month.

 4. Monthly average calculated by drividing the total by the number of days of the month.

 5. Column II, Trace is less than 0.01 inches and is not included in total.

 6. Columns III and IV, field measured at staff gauges

- 7. Column V, PPS-B sensor reading plus 9 inches.
 8. Columns VIII & IX, Section 7-8 leak detection pumped into Section 7 leachate sump riser.
 9. Column XIII and XIV, calculated from depth in 575,000 gal. tanks.
 10. Columns VI-XII, XY-XVII, and XX-XXIII, quantities from flow meters.
 11. Column XXIV includes 80% of the daily values from Columns XVII, XXI, and XXII plus 5% of the daily values from column XX.

TABLE 2. FIELD DATA ENTRY FORM NOVEMBER 2010 SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

| Α | В | C | D | Е | F | G | Н | I | J | K | L | M | N | 0 | P | 0 | R | S | T | U | V | W |
|--------|----------|------------|-------------|---------|-----------|-----------|-----------|--------------|--------------|--------|----------|--------|------------|-----------|-----------|------------------|------------|-----------|--------------|------------|---------------|-------------------|
| | | | | | | | | | | | Pond B | | Effluent | Depth in | Depth in | Leachate | | | Leachate | | | Effluent |
| 1 1 | | Flow Meter | Flow Meter | Reading | Section 9 | Section 9 | Section 9 | Sections 7-8 | Sections 7-8 | Pond B | Effluent | Pond A | Spray | 575K Tank | 575K Tank | Treated | Leachate | | Dust Control | Effluent | | Dust Control |
| | Rainfall | TPS-6 | Pump Sta. A | PS-B | Pump 1 | Pump 2 | LDS | Pump | LDS | Depth | Sprayed | Depth | Irrigation | Leachate | Effluent | at LTRF | Contractor | County | (Sprayed) | Contractor | County | (Sprayed) |
| Day | (in.) | (gal.) | (gal.) | (in.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (ft.) | (gal) | (ft.) | (gal.) | (ft.) | (ft.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal) |
| 1 | 0.00 | 21,827,810 | 6,113,034 | 12.6 | 1,808,916 | 1,351,948 | 1,466 | 2,575,622 | 781 | 0.0 | 0.0 | 1.3 | 24,689 | 6.67 | 8.25 | 26,374 | 12,076 | 0 | 0 | 0 | 0 | 0 |
| 2 | 0.33 | 21,851,410 | 6,142,217 | 12.5 | 1,808,916 | 1,354,871 | 1,466 | 2,575,622 | 786 | 0.0 | 0.0 | 1.7 | 0 | 6.50 | 7.50 | 24,319 | 6,051 | 0 | 0 | 6,004 | 0 | 0 |
| 3 | 0.17 | 21,876,350 | 6,173,494 | 11.5 | 1,808,916 | 1,354,912 | 1,466 | 2,580,122 | 791 | 0.0 | 0.0 | 2.5 | 27,936 | 6.83 | 7.00 | 24,228 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 0.10 | 21,897,990 | 6,205,993 | 12.1 | 1,809,706 | 1,354,912 | 1,466 | 2,580,123 | 797 | 0.0 | 0.0 | 2.0 | 0 | 7.00 | 7.83 | 34,298 | 18,083 | 0 | 0 | 0 | 0 | 0 |
| 5 | 0.00 | 21,915,320 | 6,239,713 | 14.3 | 1,811,413 | 1,354,912 | 1,467 | 2,584,294 | 797 | 0.0 | 0.0 | 2.0 | 0 | 7.17 | 8.67 | 17,211 | 18,051 | 0 | 0 | 0 | 0 | 0 |
| 6 | 0.00 | 21,944,950 | 6,275,478 | 12.7 | 1,811,413 | 1,354,912 | 1,467 | 2,584,295 | 807 | 0.0 | 0.0 | 2.5 | 0 | 7.00 | 8.50 | 25,122 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 0.00 | 21,965,560 | 6,299,582 | 13.6 | 1,812,125 | 1,356,434 | 1,479 | 2,584,295 | 807 | 0.0 | 0.0 | 2.9 | 0 | 7.0 | 8.6 | 23,298 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 0.00 | 21,986,170 | 6,323,686 | 14.4 | 1,812,837 | 1,357,956 | 1,491 | 2,584,295 | 807 | 0.0 | 0.0 | 3.3 | 52,698 | 7.08 | 8.67 | 23,299 | 18,054 | 0 | 0 | 0 | 0 | 0 |
| 9 | 0.00 | 22,011,120 | 6,354,946 | 14.1 | 1,812,837 | 1,357,956 | 1,492 | 2,584,295 | 807 | 0.0 | 0.0 | 2.5 | 58,756 | 6.67 | 8.67 | 22,258 | 18,109 | 0 | 0 | 0 | 0 | 0 |
| 10 | 0.00 | 22,035,350 | 6,385,276 | 14.5 | 1,812,837 | 1,357,956 | 1,496 | 2,584,295 | 807 | 0.0 | 0.0 | 1.8 | 16,634 | 6.25 | 8.83 | 23,985 | 12,062 | 0 | 0 | 0 | 0 | 0 |
| 11 | 0.00 | 22,058,485 | 6,413,787 | 14.5 | 1,812,837 | 1,357,956 | 1,505 | 2,591,477 | 807 | 0.0 | 0.0 | 2.0 | 25,805 | 6.42 | 8.83 | 25,210 26,087 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | 0.00 | 22,070,980 | 6,431,666 | 13.1 | 1,812,837 | 1,360,632 | 1,513 | 2,591,477 | 808 | 0.0 | 0.0 | 2.0 | 25,612 | 6.25 | 9.00 | 24.888 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | 0.00 | 22,091,630 | 6,458,595 | 14.1 | 1,812,837 | 1,363,079 | 1,513 | 2,596,050 | 808 | 0.0 | 0.0 | 1.8 | 20,390 | 6.6 | 9.00 | 25,350 | 0 | 0 | 0 | 0 | 0 | 0 |
| 14 | 0.00 | 22,113,745 | 6,487,090 | 14.1 | 1,812,837 | 1,363,354 | 1,514 | 2,596,054 | 808 808 | 0.0 | 0.0 | 2.5 | 51,412 | 6.75 | 9.08 | 25,350 | 12.071 | 0 | 0 | 0 | 0 | 0 |
| 15 | 0.00 | 22,135,860 | 6,515,584 | 14.0 | 1,812,837 | 1,363,628 | 1,514 | 2,596,058 | 808 | 0.0 | 0.0 | 1.9 | 0 | 6.58 | 9.17 | 24.871 | 18,117 | 0 | 0 | 0 | 0 | 0 |
| 16 | 0.25 | 22,162,090 | 6,551,368 | 13.0 | 1,812,942 | 1,364,814 | 1,518 | 2,596,058 | 808 | 0.0 | 0.0 | 2.8 | 0 | 5.83 | 8.42 | 33.070 | 18.151 | 0 | 0 | 0 | 0 | 0 |
| 17 | 0.00 | 22,174,530 | 6,573,619 | 14.2 | 1,812,942 | 1,364,814 | 1,518 | 2,596,038 | 808 | 0.0 | 0.0 | 3.4 | 55.668 | 5.42 | 8.33 | 15.910 | 18,118 | 0 | 0 | 0 | 0 | 0 |
| 18 | 0.00 | 22,185,550 | 6,595,870 | 14.3 | 1,812,948 | 1,364,852 | 1,521 | 2,602,545 | 808 | 0.0 | 0.0 | 2.3 | 49,149 | 5.00 | 9.17 | 24,991 | 18,093 | 0 | 0 | 0 | 0 | 0 |
| 19 | 0.00 | 22,213,380 | 6,640,191 | 14.7 | 1,813,135 | 1,364,852 | 1,524 | 2,606,803 | 816 | 0.0 | 0.0 | 2.3 | 50,813 | 4.50 | 8.50 | 24,526 | 0 | 0 | 0 | 0 | 0 | 0 |
| 21 | 0.00 | 22,221,700 | 6,664,647 | 13.9 | 1,813,133 | 1,366,710 | 1,539 | 2,606,803 | 814 | 0.0 | 0.0 | 2.3 | 0 | 4.5 | 8.5 | 24.526 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22 | 0.00 | 22,255,130 | 6,689,103 | 13.1 | 1,814,476 | 1,368,567 | 1,543 | 2,606,803 | 812 | 0.0 | 0.0 | 2.3 | 51,857 | 4.58 | 8.58 | 24,527 | 0 | 0 | 0 | 12,010 | 0 | 0 |
| 23 | 0.00 | 22,233,130 | 6.712.999 | 13.0 | 1,814,476 | 1,368,625 | 1,544 | 2,610,853 | 817 | 0.0 | 0.0 | 2.0 | 0 | 4.75 | 7.75 | 25,068 | 0 | 0 | 0 | 18,012 | 0 | 0 |
| 24 | 0.00 | 22,270,363 | 6.736.610 | 12.4 | 1,814,476 | 1,368,625 | 1.552 | 2.610.853 | 822 | 0.0 | 0.0 | 2.6 | 49,490 | 4.75 | 7.08 | 24,899 | 6,037 | 0 | 0 | 6,005 | 0 | 0 |
| 25 | 0.00 | 22,294,280 | 6,762,056 | 12.7 | 1.815.068 | 1,370,004 | 1.565 | 2,613,039 | 831 | 0.0 | 0.0 | 2.5 | 0 | 4.8 | 7.2 | 24,922 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | 0.00 | 22,305,620 | 6.787.501 | 13.0 | 1,815,660 | 1,371,383 | 1,577 | 2,615,225 | 840 | 0.0 | 0.0 | 2.3 | 50,561 | 4.75 | 7.25 | 25,055 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 | 0.00 | 22,303,020 | 6,814,306 | 12.5 | 1,815,660 | 1,371,383 | 1.577 | 2,615,225 | 846 | 0.0 | 0.0 | 2.0 | 20,916 | 5.00 | 7.00 | 24,526 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 | 0.00 | 22,325,635 | 6.837.701 | 12.9 | 1,815,660 | 1.371.419 | 1.578 | 2,615,225 | 856 | 0.0 | 0.0 | 1.8 | 0 | 4.8 | 7.8 | 25,200 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 | 0.00 | 22,334,260 | 6,861,096 | 13.2 | 1.815,660 | 1,371,455 | 1,578 | 2,615,225 | 866 | 0.0 | 0.0 | 1.6 | 30,146 | 4.67 | 8.67 | 24,832 | 6,043 | 0 | 0 | 0 | 0 | 0 |
| 30 | 0.00 | 22,340,310 | 6,883,543 | 13.6 | 1,815,660 | 1,371,455 | 1,578 | 2,620,397 | 866 | 0.0 | 0.0 | 1.6 | 38,836 | 4.58 | 8.58 | 13,965 | 6,037 | 0 | 0 | 0 | 0 | 0 |
| - | 2.00 | | | | | | | | | | | | | | | | | SECTION 1 | | 14 1/1 0 | X2*********** | |
| Totals | 0,85 | | | | | | | | | | 0 | | 701,368 | | | 732,166 | 205,153 | 0 | 0 | 42,031 | 0 | ls (idw 12/03/10) |

projects\balance\2009\01-09bal.xls (jdw 12/03/10)

Notes:

- NR = No Records, NA = Not Available.
- Values in bold are estimated; values in italic are substitute for missing data and are based on averaged values
- 3 Column IV includes quantities from leak detection system.

| Type of Cover | Phases I-VI acres | Sections 7-8 acres | Section 9 acres |
|---------------|----------------------|-----------------------|--------------------|
| Open | 0 | 0 | 5 |
| Intermediate | 139.4 | 19.3 | 10 |
| Final | 23 | 0 | 0 |
| Not Opened | 0 | 0 | 0 |

- Column B, trace is less than 0.01 inches.
 Columns C, D, F, G, H, I, J, L, N, Q, R-V and W are quantities from flow meters.
- 6. Columns K and M measured from staff gages in each pond.

TABLE 3. LEACHATE BALANCE SUMMARY SOUTHEAST COUNTY LANDFILL HILLSBOROUGH COUNTY, FLORIDA YEAR-2010

| | | | Leachate A | riving at LTRF | | Lea | chate Leaving LT | RF_ | | Effluent Disposal | · | Infle | w / Outflow For I | TRF |
|-----------|----------|-----------------|----------------|------------------|------------------|----------------|------------------|------------|-----------|-------------------|------------|--------------|--|----------------------|
| | | Leachate Hauled | Leachate | Leachate | Leachate | Total Leachate | Leachate | Leachate | Total | Effluent | Effluent | Total Inflow | Total Outflow | Change |
| | Rainfall | | from Section 9 | from Section 7-8 | from Phases I-VI | Hauled | Dust Control | Treated at | Effluent | Dust Control | Irrigation | to | from | in |
| | | HHLF/TRLF | Pumped to LTRF | Pumped to LTRF | Pumped to LTRF | from LTRF | (Sprayed) | LTRF | Hauled | (Sprayed) | ì | LTRF | LTRF | Storage ³ |
| Month | (in.) | (gal.) | (gal.) | (gal,) | (gal.) | (gai.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) |
| January | 3.50 | 0 | 31,114 | 73,231 | 794,265 | 223,008 | 1,500 | 625,400 | 24,397 | 44,971 | 463,698 | 898,610 | 849,908 | 48,702 |
| February | 2.61 | 0 | 47,150 | 109,806 | 771,075 | 337,419 | 0 | 560,600 | 6,489 | 45,071 | 483,052 | 928,031 | 898,019 | 30,012 |
| March | 7.66 | 0 | 56,034 | 86,576 | 813,346 | 372,562 | 0 | 608,600 | 0 | 137,050 | 455,821 | 955,956 | 981,162 | -25,207 |
| April | 3.04 | 0 | 57,944 | 71,442 | 812,598 | 337,294 | 0 | 643,200 | 6,011 | 65,856 | 719,336 | 941,984 | 980,494 | -38,510 |
| May | 1.66 | 0 | 43,699 | 37,397 | 779,316 | 234,292 | 0 | 644,000 | 0 | 266,910 | 338,759 | 860,413 | 878,292 | -17,879 |
| June | 7.43 | 0 | 60,719 | I | 740,158 | 318,992 | 0 | 602,600 | 242,614 | 120,108 | 184,585 | 821,326 | 921,592 | -100,266 |
| July | 8.79 | 0 | 54,193 | 128,891 | 877,301 | 428,135 | 0 | 622,000 | 473,967 | 78,063 | 278,792 | 1,060,385 | 1,050,135 | 10,250 |
| August | 12.08 | 0 | 47,349 | " | 934,303 | 283,236 | 0 | 779,500 | 211,111 | 93,055 | 215,125 | 1,149,829 | 1,062,736 | 87,093 |
| September | 4.12 | 0 | 51,415 | 129,137 | 1,084,207 | 624,322 | 0 | 741,400 | 48,503 | 246,211 | 836,304 | 1,264,759 | 1,365,722 | -100,963 |
| October | 0.00 | 0 | 40,930 | | 882,872 | 271,013 | 0 | 762,300 | 6,004 | 0 | 761,234 | 981,054 | 1,033,313 | -52,259 |
| November | 0.85 | 0 | 28,652 | | 830,725 | 205,153 | 0 | 732,300 | 42,031 | 0 | 701,368 | 907,623 | 937,453 | -29,830 |
| December | | | | | | <u> </u> | | | | | | | | |
| | | | | | | | | ļ | <u> </u> | | _ | | | |
| YTD Total | 51.74 | | 519,197 | 930,604 | 9,320,166 | 3,635,426 | 1,500 | 7,321,900 | 1,061,127 | 1,097,295 | 5,438,074 | 10,769,968 | 10,958,826 | -188,858 |

Note:

- 1. If the bypass at the effluent pond is ever used to pump effluent back to the LTRF, this table must be modified.
- 2. Leachate from the Hillsborough Heights and Taylor Road landfills is being hauled to the Faulkenburg Road Wastewater Treatment Facility.
- 3. Change in storage represents total inflow to LTRF minus total outflow from LTRF.

Summary-2010.xls

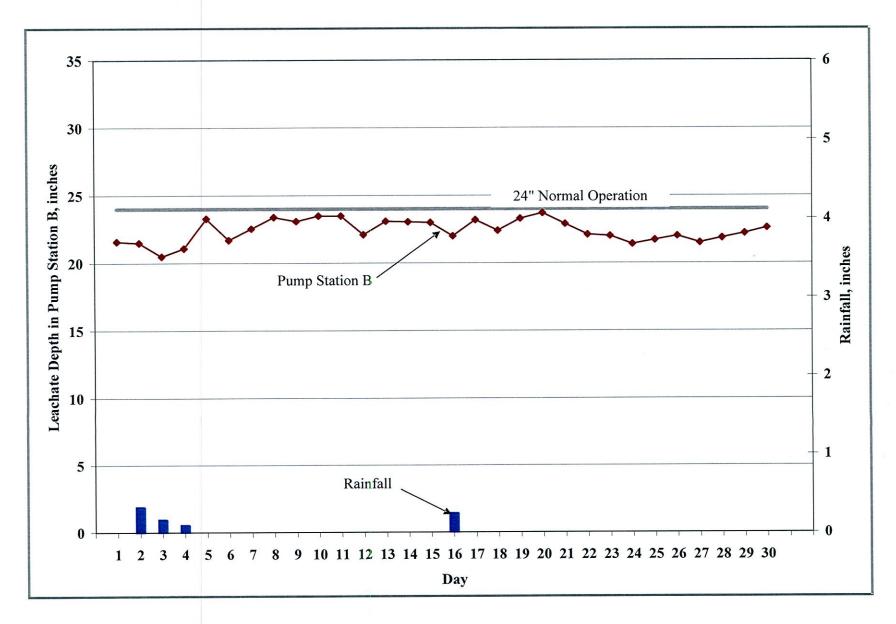


Figure 1. Leachate Levels in Pump Station B and Rainfall for November 2010.



BOARD OF COUNTY COMMISSIONERS
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Ken Hagan
Al Higginbotham
Lesley "Les" Miller, Jr.
Sandra L. Murman
Mark Sharpe

Office of the Interim County Administrator Michael S. Merrill **ADMINISTRATORS**

Lucia E. Garsys Eric R. Johnson Edith M. Stewart J. Eugene Gray, Acting Sharon D. Subadan, Interim Mark J. Thornton, Interim

January 14, 2011



Ms. Susan J. Pelz, P.E.
Solid Waste Permitting
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Pkwy
Temple Terrace, Florida 33637

RE: Southeast County Landfill - December 2010 Leachate Data

Dear Ms. Pelz:

In accordance with the Hillsborough County Solid Waste Management Department's (SWMD) Leachate Management Plan (LMP) for the Southeast County Landfill (Landfill), the SWMD is providing the Landfill's Water Balance Report for the month of December 2010. In addition, the SWMD is providing the December 2010 field data forms for the Landfill, the daily leachate and collection system evaluation reports and the Year-to-Date Leachate Balance Summary.

This information is being provided to the Florida Department of Environmental Protection (FDEP) and the Hillsborough County Environmental Protection Commission as part of the quarterly Leachate Water Balance report on the Landfill leachate management efforts in accordance with Permit No. 35435-014-SO, Specific Condition No. 8.

As initiated with the April 1996 report, the Landfill leachate information for December 2010 includes an evaluation by SWMD staff of the monthly data. The report includes a figure depicting the leachate levels in Pump Station B (PS-B) and rainfall. PS-B was below the normal operation level of 24 inches during the month of December 2010. The average depth of leachate in the PS-B sump for the recorded days in December 2010 was 22.2 inches.

Ms. Susan J. Pelz January 14, 2011 Page Two

Please advise should you have any questions concerning the information provided.

Sincerely,

Jatur V. Berry

Landfill and Environmental Services Section Manager

Solid Waste Management Division

Attachments

glfs/lea1210.dep



BOARD OF COUNTY COMMISSIONERS
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Edith M. Stewart
J. Eugene Gray, Acting
Sharon D. Subadan, Interim
Mark J. Thornton, Interim

MEMORANDUM

DATE:

January 13, 2011

TO:

Patricia Berry, Section Manager, Solid Waste Management Division

FROM:

Larry Ruiz, General Manager III, Solid Waste Management Division Raymond Graves, Sr. Eng. Tech., Solid Waste Management Division

SUBJECT:

Leachate Water Balance Report Forms for December

Southeast County Landfill, Hillsborough County, Florida

The Solid Waste Management Division (SWMD) staff has compiled and reviewed the leachate management operational data from the Southeast County Landfill Phases I-VI, Sections 7-8, and Section 9. Attached are the Leachate Water Balance Report Form (Table 1), the Leachate Field Data Entry Form (Table 2), and the 2010 Summary (Table 3). Also, attached find Figure 1 showing leachate levels in Pump Station B sump of Phases I-VI and rainfall for the month.

TABLE 1

Day (Column I)

Column I presents the calendar days for the month.

Rainfall (Column II)

Column II presents the average rainfall, in inches, as measured in the field from rainfall stations at the site. This month there was 0.25 inches of rainfall at the Southeast County Landfill (SCLF).

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Depth in Pond A (Column III)

Column III presents the daily depth, in feet, of effluent stored in effluent pond (Pond A). The daily depth in Pond A varies as a function of the spray irrigation frequency/duration and effluent hauled from the pond. This month the daily average depth of effluent stored in Pond A was 2.0 feet.

Depth in Pond B (Column IV)

Column IV presents the daily depth, in feet, of effluent or leachate that is stored in the effluent/leachate storage pond (Pond B). The depth in Pond B varies as a function of the evaporation frequency/duration and effluent or leachate hauled from the pond. This month effluent was not stored in Pond B.

Estimated Depth at Pump Station B Sump (PS-B) (Column V)

Column V presents the depth of leachate, in inches, in the PS-B sump. Leachate from Phases I-VI flows to the PS-B sump for removal from the landfill. PS-B then pumps the leachate to Pump Station A (PS-A). Daily depth readings from the PS-B sump are included in this column. This month PS-B was below the normal operation level of 24-inches. The average recorded depth of leachate in the PS-B sump was 22.2 inches.

Leachate Pumped to PS-B from TPS-6 (Column VI)

Column VI presents the quantity of leachate from Phase IV pumped to PS-B by Temporary Pump Station-6 (TPS-6). The quantity of leachate removed by TPS-6 is measured in gallons by an in-line flow meter and is included in the quantity of leachate pumped to the Main Leachate Pump Station (MLPS) from Phases I-VI (Column VII). The average daily amount of leachate pumped from TPS-6 was 10,480 gallons. A total of 324,870 gallons of leachate was pumped this month.

Leachate Pumped to MLPS from Phases I-VI (Column VII)

Column VII presents the daily amount of leachate, in gallons, collected from PS-A and pumped through the MLPS to the 575,000-gallon storage tank at the Leachate Treatment and Reclamation Facility (LTRF) for treatment or disposal. The quantity in column VII also includes the daily amount of leachate, in gallons, pumped from TPS-6. The average daily amount of leachate pumped from PS-A was 24,161 gallons. A total of 748,982 gallons of leachate was pumped this month.

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Leachate Pumped from Sections 7-8 LDS (Column VIII)

Column VIII presents the quantity of leachate removed from the leak detection system (LDS) of Sections 7-8. The quantity is measured by a flow meter before being pumped for removal with Sections 7-8 leachate. The removal rate did not exceed 1,930 gallons per day. This month a total of 77 gallons of leachate was removed from the leak detection system of Sections 7-8.

Leachate Pumped to MLPS from Sections 7-8 (Column IX)

Column IX presents the quantity of leachate collected at Sections 7-8 and pumped to the MLPS. The quantity is measured by a flow meter and includes any leachate removed from the leak detection system of Sections 7-8 (Column VIII). This month a total of 23,950 gallons of leachate was pumped from Sections 7-8.

Leachate Pumped to LTRF from the MLPS (Column X)

Column X presents the total quantity of leachate pumped to the LTRF from Phases I-VI and Sections 7-8. This month a total of 772,994 gallons of leachate was pumped to the LTRF.

Leachate Pumped to LTRF from Section 9 (Column XI)

Column XI presents the daily amount of leachate, in gallons, collected from Section 9 and pumped to the 575,000-gallon storage tank at the Leachate Treatment and Reclamation Facility (LTRF) for treatment or disposal. A total of 42,294 gallons of leachate was pumped this month.

Leachate Pumped from Section 9 LDS (Column XII)

Column XII presents the daily amount of leachate, in gallons, collected from the LDS of Section 9 and pumped to the 575,000-gallon storage tank at the LTRF for treatment or disposal. The removal rate did not exceed 4,651 gallons per day. This month a total of 62 gallons of leachate were removed from the leak detection system.

Leachate in 575,000-Gallon Tank (Column XIII)

Column XIII presents the daily amount of leachate, in gallons, stored in the 575,000-gallon leachate holding tank at the LTRF. The amount of leachate stored in the tank is calculated based on the circumference of the tank and the daily level reading. This month an average of 127,400 gallons of leachate was stored in the tank.

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Effluent in 575,000-Gallon Tank (Column XIV)

Column XIV presents the daily amount of effluent, in gallons, stored in the 575,000-gallon effluent holding tank at the LTRF. The amount of effluent stored in the tank is calculated based on the circumference of the tank and the daily level reading. The treatment plant began shut-down procedures in preparation of tankage inspection. As such, on December 1, 2010, the SWMD began storing leachate in this tank until the inspection of the leachate tank is completed. This month an average of 293,800 gallons of *leachate* was stored in the tank.

Leachate Treated at LTRF (Column XV)

Column XV presents the daily amount of leachate, in gallons, treated at the LTRF. The treatment plant began shut-down procedures in preparation of tankage inspection. The plant shutdown process began on December 1, 2010 and the process was completed on December 22, 2010. This month a total of 199,600 gallons of leachate was treated.

Total Leachate Hauled (Column XVI)

Column XVI presents the daily amount of leachate, in gallons, hauled off site. This month a total of 371,476 gallons of leachate was hauled off site.

Leachate Dust Control Sprayed (Column XVII)

Column XVII presents the daily amount of leachate, in gallons, measured from the flow meter at the bypass-loading arm at the leachate storage tank. The leachate is used for dust control in the active area of the landfill. This month 26,997 gallons of leachate were used for dust control.

Pond A Storage (Column XVIII)

Column XVIII presents the daily amount of effluent, in gallons, stored in Pond A. The daily amount stored in the pond is calculated by using the daily depth of effluent in the Pond A (Column IV). Under normal operating conditions, the daily amount of effluent stored in the pond varies depending upon the daily amount of leachate treated at the LTRF, the daily rainfall, daily effluent hauling operations, daily spray irrigation operations, and the daily amount of effluent used for dust control/evaporation. This month a daily average of 62,900 gallons of effluent were stored in Pond A.

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Pond B Storage (Column XIX)

Column XIX presents the daily amount of effluent, in gallons, stored in Pond B. The daily amount stored in the pond is calculated by using the daily depth of effluent in Pond B (Column IV). Under normal operating conditions, the amount stored in the pond will vary depending upon the daily amount of effluent removed from the pond by the evaporation system, hauled from the pond, used for dust control or evaporated. This month effluent was not stored in Pond B, the 2,700 gallons shown is stormwater.

Effluent Sprayed at Pond B (Column XX)

Column XX presents the daily amount of effluent, in gallons, sprayed for evaporation at Pond B. The amount evaporated is calculated by using 5 percent of the daily flow meter quantity sprayed at Pond B and it is included in Column XXIV. This month effluent was not sprayed in Pond B.

Effluent Irrigation (Column XXI)

Column XXI presents the daily amount of effluent, in gallons, used for spray irrigation on top of Phases I-VI. The daily amount of effluent irrigation on Phases I-VI is measured from the flow meter at the irrigation pump station. This month a total of 308,902 gallons of effluent were used for spray irrigation.

Effluent Dust Control Sprayed (Column XXII)

Column XXII presents the daily amount of effluent, in gallons, sprayed for dust control in the active areas of the SCLF. The daily amount of effluent used for dust control, is measured from the flow meter at the bypass-loading arm. This month effluent was not sprayed as dust control.

Total Effluent Hauled (Column XXIII)

Column XXIII presents the daily amount of effluent, in gallons, hauled off site, as measured from the flow meter at the bypass-loading arm. This month a total of 41,927 gallons of effluent were hauled off site.

Total Evaporation (Column XXIV)

Column XXIV presents the daily amount of leachate and effluent, in gallons, that evaporates and therefore will not be returned to the SCLF and/or requires treatment. Evaporation rates of 80 percent and 5 percent evaporation rate for spray in Pond B are assumed. The total evaporation estimated for this month was 268,800 gallons.

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TABLE 2

Table 2 presents data assembled from daily logs compiled by the SWMD staff.

TABLE 3

Leachate Balance Summary

The Leachate Balance Summary (see Table 3) presents a review of inflow and outflow quantities for the LTRF, as well as rainfall and effluent disposal quantities at the landfill. Total inflow quantity to the LTRF was 815,288 gallons. Total outflow quantity from the LTRF was 598,073 gallons. The change in storage for the month increased by 217,215 gallons.

Please advise should you have any questions concerning the information provided.

TABLE 1. LEACHATE WATER BALANCE REPORT FORM DECEMBER 2010 SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

| 1 | 11 | Ш | IV | v | VI | VII | VIII | IX | x | XI | XII | XIII | XIV | xv | XVI | XVII | XVIII | XIX | XX | XXI | XXII | XXIII | XXIV |
|--------------|----------|-------|-------|-----------|------------|------------------|--------------|--------------|--------------|--------------|-------------|----------|----------|----------|----------|--------------|---------|---------|----------|------------|----------------|----------|-------------|
| | | Depth | Depth | Estimated | Leachate | Leachate | Leachate | Leachate | Leachate | Leachate | Leachate | Leachate | Effluent | Leachate | | | | | Effluent | | | | |
| | | in | in | Depth | Pumped | Pumped | Pumped from | Pumped | Pumped | Pumped | Pumped from | in | in | Treated | Total | Leachate | Pond | Pond | Sprayed | Effluent | Effluent | Total | |
| | | Pond | Pond | at | to PS-B | to MLPS | Sections 7-8 | to MLPS from | to LTRF from | to LTRF from | Section 9 | 575K | 575K | at | Leachate | Dust Control | Λ | В | Pond | Irrigation | Dust Control | Effluent | Total |
| | Rainfall | Α | В | PS-B | from TPS-6 | from Phases I-VI | LDS | Sections 7-8 | MPLS | Section 9 | LDS | Tank | Tank | LTRF | Hauled | (Sprayed) | Storage | Storage | В | | (Sprayed) | Hauled | Evaporatio |
| Day | (in.) | (ft.) | (ft.) | (in.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal) | (gal) | (gal.) | (gal.) | (gal.) | (gal.) |
| 1 | 0.00 | 1.8 | 0.0 | 21.2 | | 24,804 | 7 | 0 | 24,806 | 2,848 | 2 | 132,000 | 225,000 | 25,600 | 0 | 0 | 52,000 | 0 | 0 | 3,254 | 0 | 0 | 2,60 |
| 2 | 0.00 | 3.1 | 0.0 | | 16,320 | 26,178 | 4 | 0 | 26,178 | 0 | 0 | 132,000 | 178,000 | 23,300 | 12,096 | 0 | 113,000 | 0 | 0 | 43,795 | 0 | 6,004 | 35,0 |
| 3 | 0.00 | 3.1 | 0.0 | 21.6 | 16,400 | 28,475 | 0 | 0 | 28,475 | 181 | 0 | 125,000 | 137,000 | 26,100 | 0 | 0 | 113,000 | 0 | 0 | 54,490 | 0 | 18,004 | 43,6 |
| 4 | 0.00 | 3.1 | 0.0 | 23.1 | 3,970 | 14.745 | 11 | 0 | 14,746 | 617 | 1 | 115,000 | 98,000 | 24.800 | 0 | 0 | 113,000 | 0 | 0 | 51,854 | 0 | 0 | 41.5 |
| 5 | 0.00 | 3.3 | 0.0 | 22.6 | | 25,698 | 0.5 | 0.0 | 25,702 | 1,584 | 4.0 | 118,000 | 89,000 | 30,200 | 0 | 0 | 123,000 | 0 | 0 | 0 | 0 | 0 | |
| 6 | 0.00 | 3,4 | 0.0 | 22.0 | 5,155 | 25,698 | 1 | 0 | 25,702 | 1,584 | 4 | 120,000 | 79,000 | 30,200 | 0 | 0 | 129,000 | 0 | 0 | 28,843 | 0 | 12,010 | 23,1 |
| 7 | 0.00 | 3.4 | 0.8 | 22.8 | 11,310 | 24,264 | 0 | 0 | 24,265 | 908 | 1 | 94,000 | 89,000 | 16,100 | 6,033 | 0 | 129,000 | 12,000 | 0 | 0 | 0 | 5,909 | |
| 8 | 0.10 | 3.4 | 1.0 | 23.5 | _ | 21,570 | 0 | 0 | 21,571 | 49 | 1 | 67,000 | 110,000 | 23,300 | 12,037 | 0 | 129,000 | 19,000 | 0 | 38,565 | 0 | 0 | 30,9 |
| 9 | 0.00 | 2.7 | 1.0 | 23.4 | | 28,837 | 0 | 0 | 28,841 | 1,100 | 4 | 60,000 | 139,000 | 0 | 6,000 | 0 | 93,000 | 19,000 | 0 | 12,343 | 0 | 0 | 9,9 |
| 10 | 0.00 | 2.5 | 1.0 | 21.6 | 20,400 | 28,510 | 0 | 0 | 28,512 | 1,374 | 2 | 55,000 | 163,000 | 0 | 12,000 | 0 | 83,000 | 19,000 | 0 | 49,209 | 0 | 0 | 39,4 |
| 11 | 0.00 | 1.8 | 0.8 | 22.9 | 0 | 22,100 | 0 | 0 | 22,102 | 1,789 | 2 | 58,000 | 189,000 | 0 | 0 | 0 | 52,000 | 12,000 | 0 | 0 | 0 | 0 | |
| 12 | 0.00 | 1.7 | 0.4 | 22.6 | | 29,085 | 0.0 | 0.0 | 29,085 | 0.0 | 0.5 | 58,000 | 217,000 | 0 | 0 | 0 | 48,000 | 3,000 | 0 | 0 | 0 | 0 | |
| 13 | 0.00 | 1.6 | | 22.2 | 13,075 | 29,085 | 0 | 0 | 29,085 | 0 | 1 | 58,000 | 245,000 | 0 | 12,000 | 0 | 44,000 | 0 | 0 | 26,549 | 0 | 0 | 21.2 |
| 14 | 0.00 | 1.6 | 0.0 | 23.5 | 13,570 | 25,751 | 0 | 0 | 25,751 | 231 | 0 | 48,000 | 271,000 | 0 | 12,000 | 0 | 44,000 | 0 | 0 | 0 | 0 | 0 | 1 |
| 15 | 0.00 | 1.6 | 0.0 | 23.2 | 9,755 | 19,524 | 0 | 0 | 19,524 | 429 | 0 | 48,000 | 290,000 | 0 | 12,000 | 0 | 44,000 | 0 | 0 | 0 | 0 | 0 | |
| 16 | 0.00 | 1.5 | 0.0 | 21.6 | 6,915 | 21,589 | 0 | 0 | 21,590 | 865 | 1 | 41,000 | 312,000 | 0 | 12,000 | 0 | 40,000 | 0 | 0 | 0 | 0 | 0 | |
| 17 | 0.00 | 1.5 | | 22.1 | 11,990 | 25,060 | 0 | 118 | | 0 | 2 | 38,000 | 336,000 | 0 | 18,008 | 0 | 40,000 | 0 | 0 | 0 | 0 | 0 | |
| 18 | 0.00 | 1.5 | 0.0 | 21.9 | 11,240 | 25,782 | 0 | 1 | 25,785 | 991 | 2 | 151,000 | 353,000 | 0 | 0 | 0 | 40,000 | 0 | 0 | 0 | 0 | 0 | |
| 19 | 0.00 | 1.5 | 0.0 | 22.1 | 14,070 | 27,740 | 0.0 | 0.0 | 27,745 | 2,651 | 5.5 | 164,000 | 381,000 | 0 | 0 | 0 | 40,000 | 0 | 0 | 0 | 0 | 0 | |
| 20 | 0.00 | 1.5 | 0.0 | 22.3 | 14,070 | 27,740 | 0 | 0 | 27,745 | 2,651 | 6 | 178,000 | 410,000 | 0 | 18,020 | 0 | 40,000 | 0 | 0 | 0 | 0 | 0 | |
| 21 | 0.00 | 1.5 | 0.0 | 22.1 | 12,740 | 21,196 | 0 | 1 | 21,198 | 14,688 | 1 | 180,000 | 417,000 | 0 | 12,065 | 0 | 40,000 | 0 | 0 | 0 | 0 | 0 | |
| 22 | 0.00 | 1.5 | 0.0 | 21.7 | 11,400 | 19,934 | 0.0 | 0 | 19,934 | 0 | 0 | 182,000 | 422,000 | 0 | 12,023 | 0 | 40,000 | 0 | 0 | 0 | 0 | 0 | |
| 23 | 0.00 | 1.5 | | 22.2 | 12,400 | 24,990 | 0 | 0 | 24,990 | 0 | 0 | 192,000 | 432,000 | 0 | 28,991 | 0 | 40,000 | 0 | 0 | 0 | 0 | 0 | |
| 24 | 0.00 | 1.5 | 0.0 | 21.8 | 12,040 | 21,958 | 0 | 0 | 21,958 | 0.0 | 0 | 192,000 | 422,000 | 0 | 31,556 | 0 | 40,000 | 0 | 0 | 0 | 0 | 0 | 1 |
| 25 | 0.15 | 1.5 | 0.0 | 22.2 | 13,160 | 25,550 | 0.0 | 0.0 | 25,552 | 353 | 1.3 | 192,000 | 439,000 | 0 | 0 | 0 | 40,000 | 0 | 0 | 0 | 0 | 0 | |
| 26 | 0.00 | 1.5 | | 22.5 | 13,160 | 25,550 | 0.0 | 0.0 | 25,552 | 353 | 1.3 | 192,000 | 456,000 | 0 | 0 | 0 | 40,000 | 0 | 0 | 0 | 0 | 0 | Market Land |
| 27 | 0.00 | 1.5 | 0.0 | 22.9 | 13,160 | 25,550 | 0 | 0 | 25,552 | 353 | 1 | 192,000 | 473,000 | 0 | 18,021 | 5,996 | 40,000 | 0 | 0 | 0 | 0 | 0 | 4,8 |
| 28 | 0.00 | 1.5 | 0.0 | 15.0 | 3,080 | 20,586 | 0 | 0 | 20,588 | | 2 | 192,000 | 461,000 | 0 | 36,836 | 8,996 | 40,000 | 0 | 0 | 0 | 0 | 0 | 7,2 |
| 29 | 0.00 | 1.5 | 0.0 | 22.9 | 4,480 | 15,406 | 0 | 10 | 15,418 | 1,012 | 2 | 192,000 | 432,000 | 0 | 31,173 | 6,009 | 40,000 | 0 | 0 | 0 | 0 | 0 | 4,8 |
| 30 | 0.00 | 1.5 | 0.0 | 22.9 | 10,485 | 22,424 | 11 | 4,658 | 27,082 | 0 | 0 | 192,000 | 417,000 | 0 | 37,243 | 5,996 | 40,000 | 0 | 0 | 0 | 0 | 0 | 4.8 |
| 31 | 0.00 | 1.5 | 0.0 | 22.0 | 11,365 | 23,605 | 43 | 19,162 | 42,782 | 5,461 | 15 | 192,000 | 425,000 | 0 | 31,374 | 0 | 40,000 | 0 | 0 | 0 | 0 | 0 | |
| tal | 0.25 | | | | 324,870 | 748,982 | 77 | 23,950 | 772,994 | 42,294 | 62 | | | 199,600 | 371,476 | 26,997 | | | 0 | 308,902 | 0 | 41,927 | 268,8 |
| aily Average | | 2.0 | 0.2 | 22.2 | _ | 24,161 | 2 | | | | | 127,400 | 293,800 | | | | 62,900 | 2,700 | | , | | | 200,0 |
| lo. Average | | | | | | | | | | .,500 | | | | | | 900 | | | | 10,000 | 0 | 1.400 | 8,67 |
| | | | | - | | L | | | | L | | | | | | 300 | | | | | \balance\2009\ | | |

- Notes:

 1. NR = No Records, NA = Not Available.

 2. Values in hold are estimated, values in italic are substitute for missing data and are based on averaged values.

 3. Daily average is calculated by drividing the total by the actual days measured in the month.

 4. Monthly average calculated by drividing the total by the number of days of the month.

 5. Column II, Trace is less than 0 01 inches and is not included in total.

 6. Columns III and IV, field measured at staff gauges.

- 7. Column V, PPS-B sensor reading plus 9 inches.
 8. Columns VIII & IX, Section 7-8 leak detection pumped into Section 7 leachate sump riser.
 9. Column XIII and XIV, calculated from depth in 575,000 gal. tanks.
 9. Columns VI-XII, XV-XVII, and XX-XXIII, quantities from flow meters.
 11. Column XXIV includes 80% of the daily values from Columns XVII, XXI, and XXII plus 5% of the daily values from column XX

TABLE 2. FIELD DATA ENTRY FORM DECEMBER 2010 SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

| Α | В | С | D | E | F | G | Н | I | J | K | L | M | N | 0 | P | Q | R | S | Т | U | v | w |
|--------|----------|------------|-------------|---------|-----------|-----------|-----------|--------------|--------------|--------|----------|--------|------------|-----------|-----------|----------|------------|----------|--------------|-----------------|------------------------|------------------|
| | | | | | | | | | | | Pond B | | Effluent | Depth in | Depth in | Leachate | | | Leachate | | | Effluent |
| | | Flow Meter | Flow Meter | Reading | Section 9 | Section 9 | Section 9 | Sections 7-8 | Sections 7-8 | Pond B | Effluent | Pond A | Spray | 575K Tank | 575K Tank | Treated | Leachate | e Hauled | Dust Control | Effluent | Hauled | Dust Control |
| | Rainfall | TPS-6 | Pump Sta. A | PS-B | Pump 1 | Pump 2 | LDS | Pump | LDS | Depth | Sprayed | Depth | Irrigation | Leachate | Effluent | at LTRF | Contractor | County | (Sprayed) | Contractor | County | (Sprayed) |
| Day | (in.) | (gal.) | (gal.) | (in.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (ft.) | (gal) | (ft.) | (gal.) | (ft.) | (ft.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal) |
| 1 | 0.00 | 22,343,970 | 6,908,347 | 12.2 | 1,815,783 | 1,374,180 | 1,580 | 2,620,397 | 873 | 0.0 | 0.0 | 1,8 | 3,254 | 4.58 | 7.83 | 25,647 | 0 | 0 | 0 | 0 | 0 | 0 |
| 2 | 0.00 | 22,360,290 | 6,934,525 | 14.1 | 1,815,783 | 1,374,180 | 1,580 | 2,620,397 | 877 | 0.0 | 0.0 | 3.1 | 43,795 | 4.58 | 6.17 | 23,302 | 0 | 12,096 | 0 | 0 | 6,004 | 0 |
| 3 | 0.00 | 22,376,690 | 6,963,000 | 12.6 | 1,815,964 | 1,374,180 | 1,580 | 2,620,397 | 877 | 0.0 | 0.0 | 3.1 | 54,490 | 4.33 | 4.75 | 26,073 | 0 | 0 | 0 | 0 | 18,004 | 0 |
| 4 | 0.00 | 22,380,660 | 6,977,745 | 14.1 | 1,816,418 | 1,374,343 | 1,581 | 2,620,397 | 888 | 0.0 | 0.0 | 3.1 | 51,854 | 4.00 | 3.42 | 24,788 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 0.00 | 22,385.815 | 7,003,443 | 13.6 | 1.817,309 | 1,375,036 | 1,585 | 2,620,397 | 889 | 0.0 | 0.0 | 3.3 | 0 | 4.1 | 3.1 | 30,167 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 0.00 | 22,390,970 | 7,029,140 | 13.0 | 1,818,200 | 1,375,729 | 1,589 | 2,620,397 | 889 | 0.0 | 0.0 | 3.4 | 28,843 | 4,17 | 2.75 | 30,168 | 0 | 0 | 0 | 0 | 12,010 | 0 |
| 7 | 0.00 | 22,402,280 | 7,053,404 | 13.8 | 1,818,200 | 1,376,637 | 1,590 | 2,620,397 | 889 | 0.8 | 0.0 | 3.4 | 0 | 3.25 | 3.08 | 16,082 | 0 | 6,033 | 0 | 0 | 5,909 | 0 |
| 8 | 0.10 | 22,403,120 | 7,074,974 | 14.5 | 1,818,249 | 1,376,637 | 1,591 | 2,620,397 | 889 | 1.0 | 0.0 | 3.4 | 38,565 | 2.33 | 3.83 | 23,346 | 0 | 12,037 | 0 | 0 | 0 | 0 |
| 9 | 0.00 | 22,419,550 | 7,103,811 | 14.4 | 1,818,424 | 1,377,562 | 1,595 | 2,620,397 | 889 | 1.0 | 0.0 | 2.7 | 12,343 | 2.08 | 4.83 | 0 | 0 | 6,000 | 0 | 0 | 0 | 0 |
| 10 | 0.00 | 22,439,950 | 7,132,321 | 12.6 | 1,818,424 | 1,378,936 | 1,597 | 2,620,397 | 889 | 1.0 | 0.0 | 2.5 | 49,209 | 1.92 | 5.67 | 0 | 0 | 12,000 | 0 | 0 | 0 | 0 |
| 11 | 0.00 | 22,439,950 | 7,154,421 | 13.9 | 1,818,424 | 1,380,725 | 1,599 | 2,620,397 | 889 | 0.8 | 0.0 | 1.8 | 0 | 2.00 | 6.58 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | 0.00 | 22,453,025 | 7,183,506 | 13.6 | 1,818,424 | 1,380,725 | 1,600 | 2,620,397 | 889 | 0.4 | 0.0 | 1.7 | 0 | 2.0 | 7.5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 13 | 0.00 | 22,466,100 | 7,212,590 | 13.2 | 1,818,424 | 1,380,725 | 1,600 | 2,620,397 | 889 | 0.0 | 0.0 | 1.6 | 26,549 | 2.00 | 8.50 | 0 | 0 | 12,000 | 0 | 0 | 0 | 0 |
| 14 | 0.00 | 22,479,670 | 7,238,341 | 14.5 | 1,818,655 | 1,380,725 | 1,600 | 2,620,397 | 889 | 0.0 | 0,0 | 1.6 | 0 | 1.67 | 9.42 | 0 | 0 | 12,000 | 0 | 0 | 0 | 0 |
| 15 | 0.00 | 22,489,425 | 7,257,865 | 14.2 | 1,819,084 | 1,380,725 | 1,600 | 2,620,397 | 889 | 0.0 | 0.0 | 1.6 | 0 | 1.67 | 10.08 | 0 | 0 | 12,000 | 0 | 0 | 0 | 0 |
| 16 | 0.00 | 22,496,340 | 7,279,454 | 12.6 | 1,819,949 | 1,380,725 | 1,601 | 2,620,397 | 889 | 0.0 | 0.0 | 1.5 | 0 | 1.42 | 10.83 | 0 | 0 | 12,000 | 0 | 0 | 0 | 0 |
| 17 | 0,00 | 22,508,330 | 7,304,514 | 13.1 | 1,819,949 | 1,380,725 | 1,603 | 2,620,515 | 889 | 0.0 | 0.0 | 1.5 | 0 | 1.33 | 11.67 | 0 | 0 | 18,008 | 0 | 0 | 0 | 0 |
| 18 | 0.00 | 22,519,570 | 7,330,296 | 12.9 | 1,820,623 | 1,381,042 | 1,605 | 2,620,516 | 889 | 0.0 | 0.0 | 1.5 | 0 | 5.25 | 12.25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | 0.00 | 22,533,640 | 7,358,036 | 13.1 | 1.820,975 | 1,383,341 | 1,611 | 2,620,516 | 889 | 0.0 | 0.0 | 1.5 | 0 | 5.7 | 13.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 20 | 0.00 | 22,547,710 | 7,385,775 | 13.3 | 1,821,327 | 1,385,640 | 1,616 | 2,620,516 | 889 | 0.0 | 0.0 | 1.5 | 0 | 6.17 | 14.25 | 0 | 0 | 18,020 | 0 | 0 | 0 | 0 |
| 21 | 0.00 | 22,560,450 | 7,406,971 | 13.1 | 1,821,327 | 1,400,328 | 1,617 | 2,620,517 | 889 | 0.0 | 0.0 | 1.5 | 0 | 6.25 | 14.50 | 0 | 0 | 12,065 | 0 | 0 | 0 | 0 |
| 22 | 0.00 | 22,571,850 | 7,426,905 | 12.7 | 1,821,327 | 1,400,328 | 1,617 | 2,620,517 | 880 | 0.0 | 0,0 | 1.5 | 0 | 6,33 | 14.67 | 0 | 0 | 12,023 | 0 | 0 | 0 | 0 |
| 23 | 0.00 | 22,584,250 | 7,451,895 | 13.2 | 1,821,327 | 1,400,328 | 1,617 | 2,620,517 | 880 | 0.0 | 0.0 | 1.5 | 0 | 6,67 | 15.00 | 0 | 28,991 | 0 | 0 | 0 | 0 | 0 |
| 24 | 0.00 | 22,596,290 | 7,473,853 | 12.8 | 1,821,327 | 1,400,327 | 1,617 | 2,620,517 | 880 | 0.0 | 0.0 | 1.5 | 0 | 6.67 | 14.67 | 0 | 31,556 | 0 | 0 | 0 | 0 | 0 |
| 25 | 0.15 | 22,609,450 | 7,499,403 | 13 | 1,821,680 | 1.400,327 | 1,618 | 2,620,517 | 880 | 0.0 | 0.0 | 1.5 | 0 | 6.7 | 15.3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | 0.00 | 22,622,610 | 7,524,954 | 14 | 1,822,033 | 1,400,328 | 1,620 | 2,620,517 | 880 | 0.0 | 0.0 | 1.5 | 0 | 6.7 | 15.8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 27 | 0,00 | 22,635,770 | 7,550,504 | 13.9 | 1,822,386 | 1,400,328 | 1,621 | 2,620,517 | 880 | 0.0 | 0.0 | 1.5 | 0 | 6.67 | 16.42 | 0 | 0 | 18,021 | 5,996 | 0 | 0 | 0 |
| 28 | 0.00 | 22,638,850 | 7,571,090 | 6.0 | 1,822,607 | 1,400,328 | 1,623 | 2,620,517 | 880 | 0,0 | 0.0 | 1.5 | 0 | 6.67 | 16.00 | 0 | 18,813 | 18,023 | 8,996 | 0 | 0 | 0 |
| 29 | 0.00 | 22,643,330 | 7,586,496 | 13.9 | 1,823,406 | 1,400,541 | 1,625 | 2,620,527 | 880 | 0.0 | 0.0 | 1.5 | 0 | 6.67 | 15.00 | 0 | 31,173 | 0 | 6,009 | 0 | 0 | 0 |
| 30 | 0.00 | 22,653,815 | 7,608,920 | 13.9 | 1,824,112 | 1,401,594 | 1,628 | 2,625,185 | 11 | 0,0 | 0.0 | 1.5 | 0 | 6,67 | 14.50 | 0 | 25,218 | 12,025 | 5,996 | 0 | 0 | 0 |
| 31 | 0.00 | 22,665,180 | 7,632,525 | 13.6 | 1,824,256 | 1,406,911 | 1,643 | 2,644,347 | 54 | 0.0 | 0.0 | 1.5 | 0 | 6.67 | 14.75 | 0 | 31,374 | 0 | 0 | 0 | 0 | 0 |
| Totals | 0.25 | | | | | | | | | | 0 | | 308,902 | | | 199,573 | 167,125 | 204,351 | 26,997 | 0 | 41,927 | 0 |
| Masaa | | | | | | | | | | | | | | | | | | | projec | ts\balance\2009 | 9\01 - 09bal.xl | s (jdw 01/04/11) |

Notes:

- NR = No Records, NA = Not Available.
- Values in bold are estimated, values in italic are substitute for missing data and are based on averaged values
 Column IV includes quantities from leak detection system.

| Type of Cover | Phases I-VI acres | Sections 7-8 acres | Section 9 acres |
|---------------|----------------------|-----------------------|--------------------|
| Open | 5 | 0 | 5 |
| Intermediate | 134.4 | 19.3 | 10 |
| Final | 23 | 0 | 0 |
| Not Opened | 0 | 0 | 0 |

- Column B, trace is less than 0.01 inches.
 Columns C, D, F, G, H, I, J, L, N, Q, R-V and W are quantities from flow meters.
 Columns K and M measured from staff gages in each pond.

TABLE 3. LEACHATE BALANCE SUMMARY SOUTHEAST COUNTY LANDFILL HILLSBOROUGH COUNTY, FLORIDA YEAR-2010

| | | | Leachate Ar | TIVING at LTRF | | Lea | chate Leaving LT | TRF | | Effluent Disposal | | Inflo | w / Outflow For L | TRF |
|-----------|----------|-----------------|----------------|------------------|------------------|----------------|------------------|------------|-----------|-------------------|-----------|--------------|-------------------|----------------------|
| | | Leachate Hauled | Leachate | Leachate | Leachate | Total Leachate | Leachate | Leachate | Total | Effluent | Effluent | Total Inflow | Total Outflow | Change |
| | Rainfall | to LTRF from | from Section 9 | from Section 7-8 | from Phases I-VI | Hauled | Dust Control | Treated at | Effluent | Dust Control | Imigation | to | from | ın |
| | | HHLF/TRLF | Pumped to LTRF | Pumped to LTRF | Pumped to LTRF | from LTRF | (Sprayed) | LTRF | Hauled | (Sprayed) | | LTRF | LTRF | Storage ³ |
| Month | (in.) | (gal) | (gal.) | (gal) | (gal.) | (gal.) | (gal.) | (gal.) | (gal.) | (gal) | (gal) | (gal.) | (gal.) | (gal) |
| January | 3.50 | 0 | 31,114 | 73,231 | 794,265 | 223,008 | 1,500 | 625,400 | 24,397 | 44,971 | 463,698 | 898,610 | 849,908 | 48,702 |
| February | 2.61 | 0 | 47,150 | 109,806 | 771,075 | 337,419 | o | 560,600 | 6,489 | 45,071 | 483,052 | 928,031 | 898,019 | 30,012 |
| March | 7.66 | 0 | 56,034 | 86,576 | 813,346 | 372,562 | 0 | 608,600 | 0 | 137,050 | 455,821 | 955,956 | 981,162 | -25,207 |
| April | 3.04 | 0 | 57,944 | 71,442 | 812,598 | 337,294 | 0 | 643,200 | 6,011 | 65,856 | 719,336 | 941,984 | 980,494 | -38,510 |
| May | 1.66 | 0 | 43,699 | 37,397 | 779,316 | 234,292 | 0 | 644,000 | 0 | 266,910 | 338,759 | 860,413 | 878,292 | -17,879 |
| June | 7.43 | 0 | 60,719 | 20,449 | 740,158 | 318,992 | 0 | 602,600 | 242,614 | 120,108 | 184,585 | 821,326 | 921,592 | -100,266 |
| July | 8.79 | 0 | 54,193 | 128,891 | 877,301 | 428,135 | 0 | 622,000 | 473,967 | 78,063 | 278,792 | 1,060,385 | 1,050,135 | 10,250 |
| August | 12.08 | 0 | 47,349 | 168,177 | 934,303 | 283,236 | 0 | 779,500 | 211,111 | 93,055 | 215,125 | 1,149,829 | 1,062,736 | 87,093 |
| September | 4.12 | 0 | 51,415 | 129,137 | 1,084,207 | 624,322 | 0 | 741,400 | 48,503 | 246,211 | 836,304 | 1,264,759 | 1,365,722 | -100,963 |
| October | 0.00 | 0 | 40,930 | 57,253 | 882,872 | 271,013 | 0 | 762,300 | 6,004 | 0 | 761,234 | 981,054 | 1,033,313 | -52,259 |
| November | 0.85 | 0 | 28,652 | 48,246 | 830,725 | 205,153 | 0 | 732,300 | 42,031 | 0 | 701,368 | 907,623 | 937,453 | -29,830 |
| December | 0.25 | 0 | 42,356 | 23,950 | 748,982 | 371,476 | 26,997 | 199,600 | 41,927 | 0 | 308,902 | 815,288 | 598,073 | 217,215 |
| | 1 | | | | | | | | | | | | | |
| YTD Total | 51.99 | 0 | 561,553 | 954,554 | 10,069,148 | 4,006,902 | 28,497 | 7,521,500 | 1,103,054 | 1,097,295 | 5,746,976 | 11,585,256 | 11,556,899 | 28,357 |

Note

- 1 If the bypass at the effluent pond is ever used to pump effluent back to the LTRF, this table must be modified.
- 2. Leachate from the Hillsborough Heights and Taylor Road landfills is being hauled to the Faulkenburg Road Wastewater Treatment Facility
- 3 Change in storage represents total inflow to LTRF minus total outflow from LTRF

JAN 192011
Southwest District

Revised February 2009

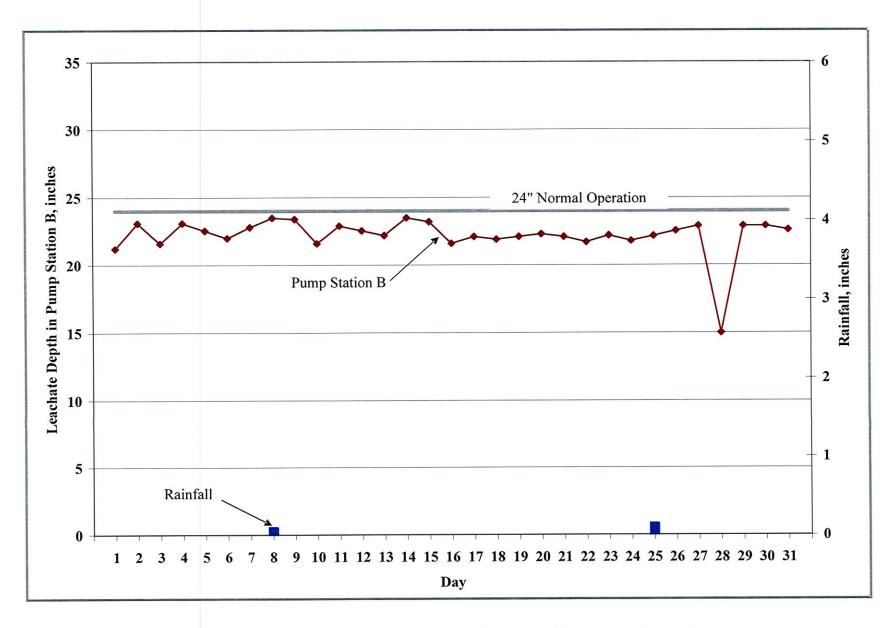


Figure 1. Leachate Levels in Pump Station B and Rainfall for December 2010.