

## **Smith, George**

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**From:** Pelley, Cindy <PelleyCA@HillsboroughCounty.ORG>  
**Sent:** Tuesday, August 15, 2017 2:38 PM  
**To:** Madden, Melissa; SWD\_Waste  
**Cc:** Morgan, Steve; Ruiz, Larry; Byer, Kimberly; 'Clark, Bruce'; 'Curtis, Bob'; Adams, David; O'Neill, Joseph  
**Subject:** WACS ID 41193 - July 2017 Water Balance for Southeast County Landfill  
**Attachments:** July 2017.pdf

Good afternoon Melissa:

Please see the attached July 2017 Water Balance for Southeast County Landfill.

Please let me know if you have any questions or concerns.

Thank you, Cindy

**Cindy A. Pelley**  
**General Manager II**  
Solid Waste Management Division  
Public Works Department

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# Hillsborough County Florida

## PUBLIC WORKS

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(813) 272-5912 | Fax: (813) 272-5811

## MEMORANDUM

**DATE:** August 14, 2017

**TO:** Larry E. Ruiz, Manager Landfill Operations, Solid Waste Management Division

**FROM:** Cindy A. Pelley, Landfill Supervisor, Solid Waste Management Division

**SUBJECT:** Leachate Water Balance Report Forms for July 2017  
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 2017 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 12.59 inches of rainfall recorded at the Southeast County Landfill (SCLF).

### 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 2.9 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 the daily average depth of effluent stored in Pond B was 2.7 feet.

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#### **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 except for July 3<sup>rd</sup> due to power failure and July 16-17 due to high level in the leachate storage tank. The average recorded depth of leachate in the PS-B sump was 16.7 inches.

#### **Leachate Pumped to Pump Station A Sump from Phases I-VI Condensate Line (Column VI)**

Column VI presents the daily amount of leachate, in gallons, collected from the Phases I-VI condensate line and pumped to Pump Station A (PS-A). The average daily amount of leachate pumped from the Phases I-VI condensate line was 777 gallons. A total of 24,094 gallons of leachate was pumped this month.

#### **Leachate Pumped to MLPS from Phase II Temporary Pump Station 2 – TPS-2 (Column VII)**

Column VII presents the daily amount of leachate, in gallons, collected from the Phase II Temporary Pump Station 2 (TPS-2), and includes total gallons collected from the recently installed dewatering wells. The leachate removed from TPS-2 is pumped to the MLPS. The average daily amount of leachate pumped from TPS-2 was 7,372 gallons. A total of 228,538 gallons of leachate was pumped this month.

#### **Leachate Pumped to MLPS from Phases I-VI (Column VIII)**

Column VIII 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 average daily amount of leachate pumped from PS-A was 76,515 gallons. A total of 2,371,971 gallons of leachate was pumped this month.

#### **Leachate Pumped from Sections 7-8 LDS (Column IX)**

Column IX 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 2,155 gallons of leachate was removed from the leak detection system of Sections 7-8.

#### **Leachate Pumped to MLPS from Sections 7-8 (Column X)**

Column X 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 IX). This month a total of 374,905 gallons was removed.

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### **Leachate Pumped to LTRF from the MLPS (Column XI)**

Column XI presents the total quantity of leachate pumped to the LTRF from Phases I-VI, Sections 7-8, and TPS-2. This month a total of 2,746,876 gallons of leachate was pumped to the LTRF.

### **Leachate Pumped to LTRF from Section 9 (Column XII)**

Column XII 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 219,281 gallons of leachate was pumped this month.

### **Leachate Pumped from Section 9 LDS (Column XIII)**

Column XIII 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 2,651 gallons per day. This month a total 7 gallons of leachate was removed from the leak detection system.

### **Leachate Pumped from Compost Area Sump (Column XIV)**

Column XIV presents the total quantity of leachate pumped to the LTRF from the Compost Project Area Sump. This month a total of 203,100 gallons of leachate from the compost area was pumped to the LTRF.

### **Leachate in 575,000-Gallon Tank (Column XV)**

Column XV presents the daily amount of leachate, in gallons, stored in the 575,000-gallon leachate holding tank T1 at the LTRF. The amount of leachate stored in T1 is calculated based on the circumference of the tank and the daily level reading. This month an average of 373,300 gallons of leachate was stored in the tank.

### **Effluent in 575,000-Gallon Tank (Column XVI)**

Column XVI presents the daily amount of effluent, in gallons, stored in the 575,000-gallon effluent holding tank T6 at the LTRF. The amount of effluent stored in T6 is calculated based on the circumference of the tank and the daily level reading. This month an average of 348,200 gallons of effluent was stored in the tank.

### **Leachate Treated at LTRF (Column XVII)**

Column XVII presents the daily amount of leachate, in gallons, treated at the LTRF. This month a total of 1,230,100 gallons of leachate was treated at the plant.

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### **Total Leachate Hauled (Column XVIII)**

Column XVIII presents the daily amount of leachate, in gallons, hauled off site. This month a total of 2,430,780 gallons of leachate was hauled off site.

### **Leachate Dust Control Sprayed (Column XIX)**

Column XIX 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 a total of 1,555 gallons of leachate was used for dust control.

### **Pond A Storage (Column XX)**

Column XX 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 III). 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 103,300 gallons of effluent was stored in Pond A.

### **Pond B Storage (Column XXI)**

Column XXI 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 a daily average of 144,100 gallons of effluent was stored in Pond B.

### **Effluent Sprayed at Pond B (Column XXII)**

Column XXII 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 XXVI. This month 301,068 gallons of effluent was sprayed in Pond B.

### **Effluent Irrigation (Column XXIII)**

Column XXIII presents the daily amount of effluent, in gallons, used for spray irrigation on top of Phases IV-VI. The daily amount of effluent irrigation on Phases IV-VI is measured from the flow meter at the irrigation pump station. This month a total of 180,558 gallons of effluent was used for spray irrigation.

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**Effluent Dust Control Sprayed (Column XXIV)**

Column XXIV 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 XXV)**

Column XXV presents the daily amount of effluent, in gallons, hauled off site, as measured from the flow meter at the bypass-loading arm. This month 1,083,579 gallons of effluent was hauled off site.

**Total Evaporation (Column XXVI)**

Column XXVI 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. Total evaporation estimated for this month was 160,800 gallons.

**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 3,401,701 gallons. Total outflow quantity from the LTRF was 3,662,435 gallons. The change in storage for the month decreased by 260,734 gallons.

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



TABLE 2. FIELD DATA ENTRY FORM  
JULY 2017

SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
		Phases I - VI	Condensate Meter	Phase II TPS-2	Flow Meter Pump Sta A	Reading PS-B	Section 9 Pump 1 (gal.)	Section 9 Pump 2 (gal.)	Section 9 LDS (gal.)	Compost Leachate Pump (gal.)	Sections 7-8 LDS (gal.)	Pond B Depth (ft.)	Pond A Sprayed Depth (ft.)	Pond A Irrigation Depth (ft.)	Effluent Spray Irrigation (gal.)	Leachate at LTRF (ft.)	Depth in 575K Tank (ft.)	Leachate Leachate at LTRF (gal.)	Leachate Hauled Contractor (gal.)	Leachate Leachate (sprayed) (gal.)	Effluent Hauled Contractor (gal.)	County (gal.)	Effluent Dust Control (Spayed) (gal)	
Day	Rainfall (in.)	(gal.)	(gal.)	(gal.)	(gal.)	(in.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(ft.)	(ft.)	(ft.)	(gal.)	(ft.)	(ft.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	
1	0.00	194.637	1,635.109	1,682.762	1,682.949	19.9	3,583.470	<b>1,962.848</b>	0	2,143.300	3,164.179	14.02	2.6	3.4	0	13.67	14.17	33,684	0	80,838	0	0	0	
2	0.00	194.904	1,722.100	1,726.605	1,726.500	17.9	3,588.577	1,968.537	NA	2,143.300	3,174.090	14.164	2.8	3.4	0	13.34	<b>14.67</b>	<b>33,684</b>	0	0	0	0	0	
3	0.43	195.171	1,722.100	1,726.605	1,726.500	24.0	3,587.034	<b>1,972.533</b>	0	2,143.300	3,186.946	14.166	2.9	3.4	0	13.60	15.17	33,683	0	87,213	0	0	0	
4	0.00	<b>195.033</b>	<b>700.191</b>	<b>1,870.900</b>	<b>1,870.900</b>	<b>17.0</b>	<b>3,589.291</b>	<b>1,976.549</b>	<b>NA</b>	<b>2,143.300</b>	<b>3,199.801</b>	<b>14.207</b>	<b>2.9</b>	<b>3.2</b>	<b>0</b>	<b>26.677</b>	<b>15.00</b>	<b>34,685</b>	<b>0</b>	<b>36,964</b>	<b>0</b>	<b>0</b>	<b>0</b>	
5	0.15	196.095	710.191	1,870.900	1,870.900	17.0	3,589.291	1,976.549	NA	2,143.300	3,209.808	14.230	2.9	3.3	0	13.75	15.75	34,685	0	36,964	0	0	0	
6	0.00	196.762	717.305	1,933.977	1,933.977	11.3	3,590.006	1,979.624	NA	2,165.000	3,209.808	14.230	2.9	3.3	0	13.75	15.75	34,685	0	36,964	0	0	0	
7	0.22	197.440	721.751	1,962.13	1,962.13	17.9	3,590.914	1,984.419	NA	2,165.000	3,217.310	14.230	2.9	3.0	0	13.75	15.75	34,685	0	36,964	0	0	0	
8	0.00	198.155	726.999	2,059.085	2,059.085	9.5	3,591.043	1,984.419	NA	2,165.000	3,224.929	14.278	2.9	3.0	0	13.75	15.75	34,685	0	36,964	0	0	0	
9	0.87	<b>198.470</b>	<b>233.550</b>	<b>2,120.670</b>	<b>2,120.670</b>	<b>15.1</b>	<b>3,591.699</b>	<b>1,991.236</b>	<b>0</b>	<b>2,165.550</b>	<b>3,332.555</b>	<b>14.278</b>	<b>2.9</b>	<b>0</b>	<b>2.1</b>	<b>0</b>	<b>13.04</b>	<b>13.33</b>	<b>32,239</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
10	0.01	199.384	240.010	2,152.234	2,152.234	20.6	3,592.554	1,990.655	NA	2,16,600	3,240.281	14.278	2.9	35,120	1.7	0	14.08	13.58	32,240	14.242	34,190	0	64,558	0
11	1.32	200.295	247.275	2,241.468	2,241.468	19.1	3,592.357	2,001.182	NA	2,18,000	3,248.131	14.319	2.9	0	1.7	18,584	14.67	12.42	36,805	42,764	44,033	0	36,106	0
12	1.38	200.989	253.328	2,299.551	2,299.551	13.7	3,592.974	2,001.185	5,846.185	2,16,300	3,253.346	14.363	3.0	0	1.4	0	13.25	12.17	30,898	0	72,035	0	0	0
13	0.00	201.609	260.463	2,355.706	2,355.706	14.9	3,593.157	2,003.215	5,846.185	2,91,100	3,257.226	14,394	2.3	0	3.4	0	14.67	11.25	49,149	28,517	70,703	0	50,675	0
14	1.87	202.432	267.344	2,436.243	2,436.243	9.2	3,593.157	2,019.017	5,846.185	2,91,100	3,277.279	14,414	2.3	0	3.4	0	14.67	10.50	53,265	7,125	92,522	0	71,397	0
15	0.00	203.000	278.719	2,501.695	2,501.695	14.3	3,594.415	2,025.838	5,846.185	3,57,900	3,279.973	14,441	2.6	0	3.4	0	15.75	9,67	46,488	28,601	43,014	0	14,249	0
16	0.00	<b>204.630</b>	<b>379.581</b>	<b>2,522.329</b>	<b>2,522.329</b>	<b>27.8</b>	<b>3,594.752</b>	<b>2,043.763</b>	<b>5,846.185</b>	<b>3,64,000</b>	<b>3,402.169</b>	<b>14,449</b>	<b>2.6</b>	<b>0</b>	<b>3.4</b>	<b>0</b>	<b>16.54</b>	<b>10.90</b>	<b>46,488</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
17	1.18	205.059	300.042	2,653.962	2,653.962	41.3	3,594.989	2,045.728	5,846.185	3,58,000	3,24,244	14,456	2.6	0	3.3	0	17,33	11.92	46,488	35,915	100,734	0	50,668	0
18	0.00	<b>206.887</b>	<b>806.656</b>	<b>2,753.521</b>	<b>2,753.521</b>	<b>10.7</b>	<b>3,595.426</b>	<b>2,061.021</b>	<b>5,846.187</b>	<b>14,531</b>	<b>3,346.652</b>	<b>14,531</b>	<b>2.7</b>	<b>0</b>	<b>3.2</b>	<b>0</b>	<b>16.58</b>	<b>11.96</b>	<b>42,241</b>	<b>85,10</b>	<b>35,777</b>	<b>0</b>	<b>36,193</b>	<b>0</b>
19	0.50	206.569	2,897.100	2,906.706	2,906.706	7.7	3,595.663	2,076.313	5,846.189	3,88,700	3,349,060	14,606	2.7	0	3.0	0	15,83	12.00	42,138	72,145	92,708	0	22,251	0
20	0.04	207.772	280.764	2,906.706	2,906.706	10.0	3,596.379	2,085.579	5,846.189	3,88,700	3,37,6354	14,606	2.7	0	3.0	0	14,00	12.00	37,078	43,196	42,778	0	80,592	0
21	0.00	208.873	330.396	3,096,883	3,096,883	13.7	3,597,668	2,096,386	5,846,189	3,88,700	3,395,208	14,692	2.7	0	3.0	0	14,08	10,92	49,161	11,381	49,838	1,555	0	0
22	0.00	209.985	332,344	3,102,868	3,102,868	11.6	3,598,516	2,104,407	5,846,192	3,88,700	3,410,385	14,906	2.7	0	3.0	0	10,50	11,33	41,968	99,101	125,506	0	24,430	0
23	0.18	<b>211.037</b>	<b>333,591</b>	<b>3,209,633</b>	<b>3,209,633</b>	<b>13.7</b>	<b>3,599,833</b>	<b>2,111,810</b>	<b>5,846,192</b>	<b>3,68,700</b>	<b>3,424,382</b>	<b>14,972</b>	<b>2.8</b>	<b>0</b>	<b>3.2</b>	<b>0</b>	<b>11.09</b>	<b>12.08</b>	<b>41,968</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
24	0.00	212,089	3,346,638	3,399,150	3,399,150	15.8	3,599,150	2,119,212	5,846,192	3,88,700	3,438,79	15,037	2.8	0	2.8	0	11,67	12,83	41,968	0	63,965	0	0	0
25	0.00	212,278	3,349,290	3,446,591	3,446,591	20.7	3,599,150	2,125,406	5,846,192	3,88,700	3,452,195	15,307	2.8	0	2.8	0	11,42	11,42	44,562	0	55,289	0	0	0
26	0.02	213,556	3,552,495	3,558,363	3,558,363	17.3	3,601,900	2,135,395	5,846,192	3,88,700	3,468,097	15,638	2.8	0	2.8	0	11,42	9,92	42,769	0	87,608	0	0	0
27	0.40	214,778	3,602,213	3,669,207	3,669,207	16.1	3,600,840	2,136,650	5,846,192	3,88,700	3,481,565	15,692	2.7	0	10,83	8,58	46,207	43,898	35,259	0	43,020	0	0	0
28	0.00	215,700	3,744,665	3,695,407	3,695,407	16.6	3,601,216	2,142,366	5,846,192	401,200	3,494,329	15,989	2.5	0	3.4	0	9,08	8,25	38,304	43,329	42,585	0	42,743	0
29	0.00	216,618	3,886,125	3,79,7861	3,79,7861	14.5	3,601,270	2,147,385	5,846,192	401,200	3,507,226	15,989	2.5	0	3.1	0	9,08	8,33	47,083	43,367	47,709	0	0	0
30	0.75	<b>217,562</b>	<b>3,865,747</b>	<b>3,865,747</b>	<b>15.8</b>	<b>3,601,272</b>	<b>2,151,539</b>	<b>5,846,192</b>	<b>401,500</b>	<b>3,519,665</b>	<b>16,123</b>	<b>2.6</b>	<b>0</b>	<b>2.7</b>	<b>0</b>	<b>8,64</b>	<b>9,71</b>	<b>47,083</b>	<b>44,288</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
31	3.27	218,505	3,907,423	3,951,633	3,951,633	17.1	3,601,971	2,157,183	5,846,192	401,800	3,532,004	16,257	2.7	0	2.2	0	7,00	7,00	47,083	44,587	74,076	0	28,781	0
Total	12.59																	30,068				1,229,952	790,587	
																						1,640,193	1,555	

Notes:

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

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

3. Columns I and L include quantities from leak detection system.

4. Column B, trace is less than 0.01 inches.

5. Columns C, D, E, G, H, I, K, L, N, P, S-X and Y are quantities from flow meters.

6. Columns M and O measured from staff gauges in each pond.

project/balance2/2009/01-09bal.xls (D:\8\5\17)

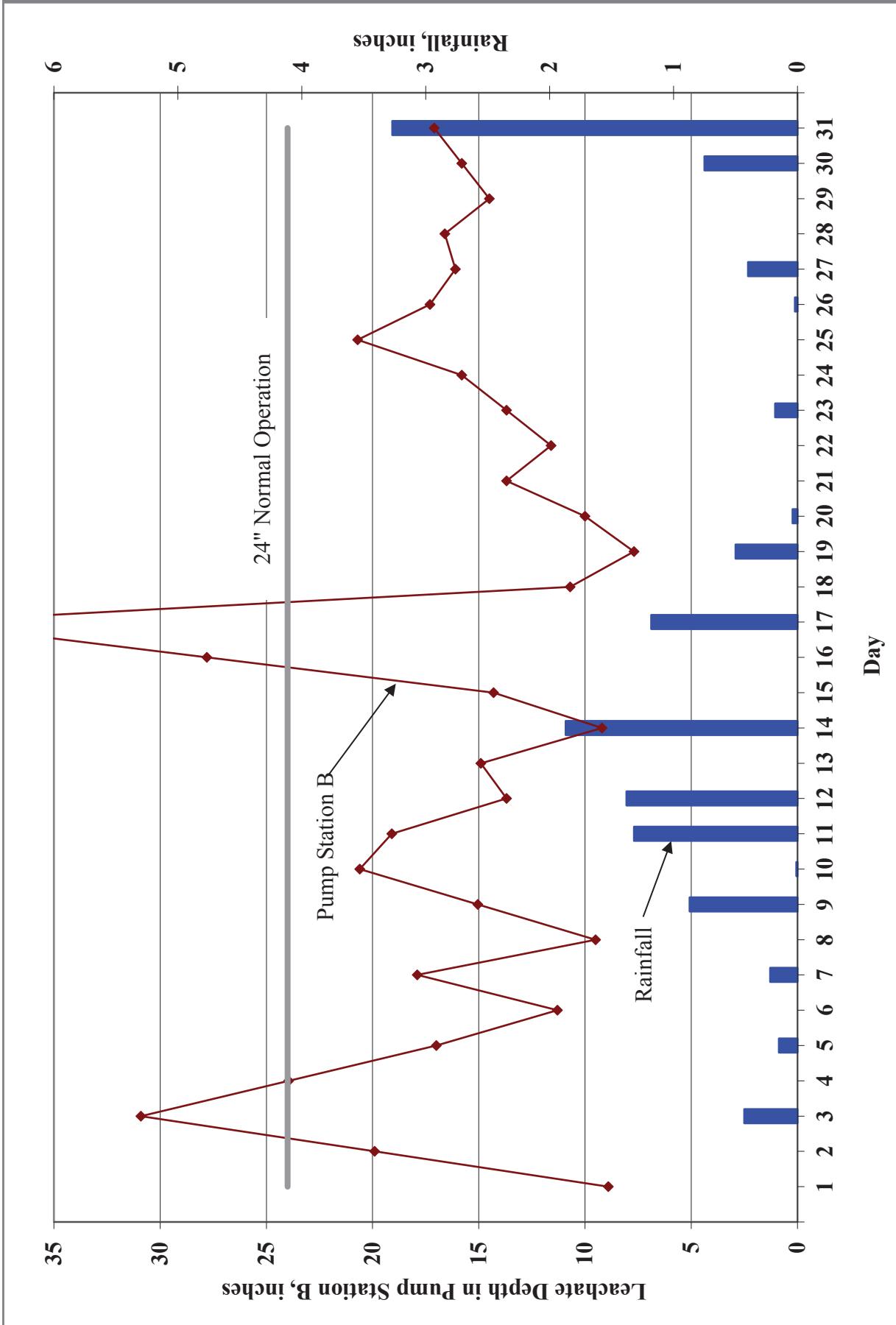


Figure 1. Leachate Levels in Pump Station B and Rainfall for July 2017.

TABLE 3. LEACHATE BALANCE SUMMARY  
SOUTHEAST COUNTY LANDFILL  
HILLSBOROUGH COUNTY, FLORIDA  
YEAR 2017

Month	Rainfall (in.)	Leachate Arriving at LTRF						Leachate Leaving LTRF						Inflow / Outflow For LTRF		
		Condensate from LGF System (gal.)	Leachate from Section 9 Pumped to LTRF (gal.)	Leachate from Section 7-8 Pumped to LTRF (gal.)	Leachate from Phases I-VII Pumped to LTRF (gal.)	Phase II TPS-2 (gal.)	Compost Leachate (gal.)	Total Leachate Hauled from LTRF (gal.)	Leachate Dust Control (Sprayed) (gal.)	Treated at LTRF (gal.)	Leachate Leached Treated at LTRF (gal.)	Total Effluent Hauled (gal.)	Effluent Dust Control (Sprayed) (gal.)	Effluent Irrigation (gal.)	Total Inflow to LTRF (gal.)	Total Outflow from LTRF (gal.)
January	1.26	15,559	63,901	107,208	2,220,588	0	0	1,465,900	0	928,400	7,108	0	612,840	2,407,256	2,394,300	12,956
February	1.96	12,809	56,814	96,390	1,796,165	0	0	1,233,632	0	700,600	78,895	0	526,386	1,962,178	1,954,232	7,946
March	0.67	11,418	49,816	83,733	2,101,893	232,499	0	1,473,627	0	907,200	168,009	0	707,976	2,479,359	2,380,827	98,532
April	2.58	21,470	49,032	81,696	1,849,005	175,566	0	1,165,386	0	951,500	7,125	0	829,485	2,176,868	2,116,886	59,982
May	1.97	5,365	46,880	84,635	1,672,229	142,264	0	1,158,105	1,618	841,400	135,383	0	819,657	1,951,373	2,001,123	-49,750
June	12.31	8,499	88,631	147,375	1,624,622	120,889	19,1200	1,508,449	0	715,000	71,078	0	235,093	2,181,216	2,223,449	-42,233
July	12.59	3,899	219,288	374,905	2,371,971	228,538	203,100	2,430,780	1,555	1,230,100	1,083,579	0	180,558	3,401,701	3,662,435	-260,734
August																
September																
October																
November																
December																
YTD Total	33.34	79,019	574,362	975,942	13,636,473	899,856	394,300	10,455,879	3,173	6,274,200	1,551,477	0	3,911,995	16,559,951	16,733,252	-173,301

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. Change in storage represents total inflow to LTRF minus total outflow from LTRF.