Smith, George

From: Wiesman, Ronald < WiesmanR@hillsboroughcounty.org>

Sent: Friday, April 15, 2022 3:10 PM **To:** Madden, Melissa; SWD_Waste

Cc: Cope, Ronald; Byer, Kimberly; Ruiz, Larry; O'Neill, Joseph; Spradlin, Kollan

(KSpradlin@scsengineers.com); Curtis, Bob

Subject: WACS ID 41193 - Qtr. 1 2022 Water Balance & Waste Tire Report for Southeast County

Attachments: 1Q2022 Water Balance Report.pdf; 1Q2022 Waste Tire Report.pdf

EXTERNAL MESSAGE

This email originated outside of DEP. Please use caution when opening attachments, clicking links, or responding to this email.

Ms. Madden,

The Quarterly Water Balance and Waste Tire Report for the Southeast County Landfill are attached (WACS ID 41193).

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

Ron Wiesman II

Manager

Solid Waste Management Department Public Utilities Department

P: (813) 671-7707 VOIP 42801

M: (813) 455-2194

E: wiesmanr@HCFLGov.net W:http://HCFLGOV.net

Hillsborough County

15960 County Road 672 Lithia, FL 33547

 $\underline{\mathsf{Facebook}} \mid \underline{\mathsf{Twitter}} \mid \underline{\mathsf{YouTube}} \mid \underline{\mathsf{LinkedIn}} \mid \underline{\mathsf{HCFL}} \ \underline{\mathsf{Stay}} \ \underline{\mathsf{Safe}}$

Please note: All correspondence to or from this office is subject to Florida's Public Records law.



SOLID WASTE MANAGEMENT

PO Box 1110, Tampa, FL 33601-1110 813-612-7718

April 15, 2022

Ms. Melissa Madden Solid Waste Section Florida Department of Environmental Protection Southwest District 13051 N. Telecom Pkwy Temple Terrace, Florida 33637

RE: Waste Tire Facility Quarterly

Report - Permit No. 126787-007-WT/02

Dear Ms. Madden:

In accordance with Rule 62-711, F.A.C. and Permit No 126787-007-WT/02, the Solid Waste Management Department (SWMD) is submitting the Quarterly Report for the Waste Tire Facility for the period January 1, 2022 through March 31, 2022. The SWMD staff compiled the information from the site's daily reports for this Quarterly Report.

Should you have any questions or require additional information concerning this submittal, please contact me at (813) 671-7707.

Sincerely,

Manager Landfill Operations

Solid Waste Management Department

LER/rw

Attachments

xc: Ron Cope, EPC

Kimberly Byer, SWMD

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Peggy Caskey

ASSISTANT COUNTY ADMINISTRATOR

George Cassady

WASTE TIRE FACILITY QUARTERLY TONNAGE REPORT FIRST QUARTER 2022

		FIRST QUARTER		g Tonnage
			(Jan. 1, 2022)	725.42
		Tires Removed by		
Month	Tires Received	Contractor	Tires to SCTS	Tons Adjusted
Jan. 2022	154.68	11.14	0.00	0.00
Beginning Tons	725.42			
	880.10	-11.14	0.00	0.00
			Ending Tonnage	868.96
		Tires Removed by		
Month	Tires Received	Contractor	Tires to SCTS	Tons Adjusted
Feb. 2022	198.43	391.77	0.00	9.78
Beginning Tons	868.96			
2 9 1 1 1 1 1	1,067.39	-391.77	0.00	-9.78
	1,007.55	-371.11	Ending Tonnage	665.84
			8	
		Tires Removed by		
Month	Tires Received	Contractor	Tires to SCTS	Tons Adjusted
Mar. 2022	70.64	110.43	139.96	23.23
Beginning Tons	665.84			
0 0	736.48	-110.43	-139.96	-23.23
			Ending Tonnage	462.86
	1			
Mond	T' - D - ' - 1	Tires Removed by	m: a a a a a	
Month	Tires Received	Contractor		Tons Adjusted
Jan. 2022	154.68	11.14	0.00	0.00
Feb. 2022 Mar. 2022	198.43	391.77	0.00	9.78
Sub-Total	70.64	110.43	139.96	23.23
		513.34	139.96	33.01
Beginning Tons	725.42			
TOTAL	1,149.17	-513.34	-139.96	-33.01
			Ending Tonnage	462.86



Department of Environmental Protection

DEP Form # 62-701.900(21)
Waste Tire Processing Facility Form Title Quarterly Report
dunteny Report
Effective Date 3/22/00
DEP Application No
(Filled in by DEP)

Waste Tire Processing Facility Quarterly Report

Pursuant to Rule 62-711.530, Florida Administrative Code, the owner or operator of a waste tire processing facility shall submit the following information to the Department quarterly.

Qua	rter covered b	y this report	1/1/22 thru	3/31/22	(First quarter	begins on Ja	nuary 1 of any	given year)					
1.	Facility name	Hillsboro	ugh County S	Southeast Lar	ndfill Waste	Γire Facility							
2.	Facility mailin	ng address:	332 N. Falker	nburg Road									
	City: Tampa	a		County: _l	Hillsborough		Zip: 33619	Ţ					
3.	Facility perm	it number: _1	126787-007-V	VT/02									
4.	Facility telepl	hone number	(813 ₎ 671-	7707									
	Authorized p			arry E. Ruiz		*							
6.	Affiliation wi	th facility:	Owner Repr	esentative -	Manager Lai	ndfill Operation	ons						
7.	Telephone nu	umber (if diffe	erent from abo	ve): ()								
8.	Activity: Re	port in tons											
		Beginning Inventory	Received	Processed	Consumed	Removed	Adjustments	Ending Inventory					
	Used Tires	725.42	423.75			653.30	33.01	462.86					
	Other whole Tires												
	Processed tires												
	Processing Waste												
	Other												
	Total	725.42	423.75			653.30	33.01	462.86					
a. Explain all inventory adjustments. 33.01 33.01 462.86 b. List any period in which one or more category of inventory exceeded the permitted maximum for that													
b.			ne or more cat ondition relieve		ntory exceede	ed the permitt	ed maximum fo	or that					
	For any exces Attach Additi			ne quarter, sta	ate how and v	when this con	dition will be re	elieved.					
9.	Certification:												
	To the best of	my knowledge	e and belief, I ce	ertify the inform	ation provided	in this report is	true, accurate,	and complete.					
	Larry E. Rui				140 S 10		4/15/2	2022					
	Print Nam	e of Authoriz	ed Agent	Siç	gnature of Au	thorized Ager	nt	Date					

Mail complete form to the appropriate district office



SOLID WASTE MANAGEMENT

PO Box 1110, Tampa, FL 33601-1110 813-612-7718

April 15, 2022

Ms. Melissa Madden
Solid Waste Section
Florida Department of Environmental
Protection
Southwest District
13051 N. Telecom Pkwy
Temple Terrace, Florida 33637

BOARD OF COUNTY COMMISSIONERS

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Peggy Caskey

ASSISTANT COUNTY ADMINISTRATOR

George Cassady

RE: Southeast County Landfill -Leachate Data Quarterly Report

Dear Ms. Madden:

In accordance with Specific Condition No. C.12.d of Permit No. 35435-022-SO/01, the Solid Waste Management Department (SWMD) is submitting the Quarterly Leachate Water Balance summary for the Southeast County Landfill for the quarter ending March 31, 2022. The data is being submitted as separate monthly reports for January, February, and March 2022.

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

Sincerely,

Larry E. Ruiz

Manager Landfill Operations

rry E. Pri

Solid Waste Management Department

LER/rw Attachments

xc: Ron Cope, EPC

Kimberly Byer, SWMD



SOLID WASTE MANAGEMENT

PO Box 1110, Tampa, FL 33601-1110

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Peggy Caskey

ASSISTANT COUNTY ADMINISTRATOR

George Cassady

MEMORANDUM

DATE: February 15, 2022

TO: Larry E. Ruiz, Manager Landfill Operations, Solid

Waste Management Division

FROM: Ron W. Wiesman, Manager, Solid Waste

Management Division

SUBJECT: Leachate Water Balance Report Forms for January 2022

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 2022 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 1.94 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 of effluent stored in Pond A was 1.3 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 leachate in Pond B was 3.2 feet.

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. The average recorded depth of leachate in the PS-B sump was 22.7 inches.

Depth in Clean Out 2-1 (CO 2-1) (Column VI)

Column VI presents the depth of leachate, in inches, in the East side of the landfill. Daily depth readings from the CO 2-1 are included in this column. The average recorded depth of leachate in the CO 2-1 was 20.8 inches.

Depth in Monitoring Port 2-2 (MP 2-2) (Column VII)

Column VII presents the depth of leachate, in inches, in the South East side of the landfill. Daily depth readings from the MP 2-2 are included in this column the average recorded depth of leachate in the MP 2-2 was 24.8 inches.

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. This column also includes the Phase II data from the dewatering wells and PS-2. The average daily amount of leachate pumped from PS-A was 95,053 gallons. A total of 2,946,654 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 1,032 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 VII). This month a total of 237,637 gallons was removed.

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 (including condensate removed from LFG Wells and Condensate Traps), and Sections 7-8. This month a total of 3,184,291 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 267,904 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 4,651 gallons per day. This month 1 gallons of leachate was removed from the leak detection system.

Leachate in 575.000-Gallon Tank (Column XIV)

Column XIV 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 295,677 gallons of leachate was stored in the tank.

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

Column XV typically 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/leachate stored in T6 is calculated based on the circumference of the tank and the daily level reading. This month an average of 228,774 gallons of leachate was stored in the tank.

Leachate Treated at LEF (Column XVI)

Column XVI presents the daily amount of leachate, in gallons, treated at the LEF (Leachate Evaporator Facility). On September 1, 2021, Hillsborough County started treating leachate at the LEF. This month a total of 1,281,386 gallons of leachate was treated at the evaporator.

Leachate Treated at LTRF (Column XVII)

Column XVII presents the daily amount of leachate, in gallons, treated at the LTRF. On September 15, 2019, plant staff restarted treatment operations. This month a total of 310,423 gallons of leachate was treated at the plant.

Total Leachate Hauled (Column XVIII)

Column XVIII presents the daily amount of leachate, in gallons, hauled off site. This month a total of 1,665,014 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 zero 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 36,161 gallons of effluent was stored in Pond A.

Pond B Storage (Column XXI)

Column XXI presents the daily amount of leachate, in gallons, stored in Pond B. The daily amount stored in the pond is calculated by using the daily depth of liquid in Pond B (Column IV). Under normal operating conditions, the amount stored in the pond will vary depending upon the daily amount of leachate pumped from the pond to the evaporator, hauled from the pond, used for dust control or evaporated. This month a daily average of 268,258 gallons of leachate was stored in Pond B.

Effluent Irrigation (Column XXII)

Column XXII 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 I-VI is measured from the flow meter at the irrigation pump station. This month a total of 327,064 gallons of effluent was sprayed.

Effluent Dust Control Sprayed (Column XXIII)

Column XXIII 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 zero gallons of effluent was sprayed as dust control.

Total Effluent Hauled (Column XXIV)

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

Total Evaporation (Column XXV)

Column XXV 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 1,415,000 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 3,452,373 gallons. Total outflow quantity from the LTRF was 3,256,823 gallons. The change in storage for the month increased by 195,550 gallons. Please advise should you have any questions concerning the information provided.

										TABLE 1. LI	TABLE 1. LEACHATE WATER BALANCE REPORT FORM	TER BALANG	JE REPORT	FORM										
									SOUTE	TEAST COUN	SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA	, HILLSBORG	JUGH COUN	TY, FLORID	<									
-	п	Ħ	2	>	IV	ΝII	VIII	×	×	IX	ΕX	IIIX	XIV	XX	XVI	IIAX	XVIII	XIX	XX	X IXX	XXII	XXIII	VIXX	XXV
	D	-	-	72			Leachate	Leachate	Leachate	Leachate		Leachate	Leachate	Effluent	Leachate	Leachate								
	д	in Pond I	Pond	Depth	Depth ii	Depth	Pumped to MLPS	Pumped from Sections 7-8	Pumped to MLPS from	Pumped to LTRF from	Pumped to LTRF from	Pumped from Section 9	n 575K	in 575K	Treated	Treated	Total Leachate E	Leachate Dust Control	Pond	Pond Eff B Imis	Effluent I	Effluent Dust Control E	Total	Total
	=	V	В	_	CO 2-1	2	from Phases I-VI	TDS	Sections 7-8	MPLS	Section 9	TDS	Tank	Tank	LEF	LTRF	Hauled	(Sprayed)	Storage	Storage			Hauled	Evaporation
Day	(in.)	(ft.)	(ft.)	(in)	(in)	(in.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal) (£	(gal.)	(gal.)	(gal.)	(gal.)
-	0.00	1.4	3.3	9.61	21.5	25.2	260'86	37	7,533	105,630	13,149	0	254,000	392,000	48,433	13,227	0	0	36,000	277,000	0	0	0	43,600
2	0.00	1.7	3.3	25.3	20.3	25.3	585'86	37	7,533	106,118	13,149	0	290,000	403,000	48,433	13,227	6,003	0	48,000	277,000	0	0	0	43,600
3	0.00	1.9	3.2	15.0	22.6	25.0	100,178	37	7,198	107,376	13,349	0	348,000	394,000	22,688	13,227	73,133	0	57,000	265,000	16,512	0	0	33,600
4	00:00	1.8	3.2	20.4	22.6	24.9	98,314	62	7,997	116,311	4,619	0	319,000	389,000	43,351	11,419	100,142	0	52,000	265,000	19,567	0	0	54,700
v	0.00	9.1	3.2	22.8	21.4	25.5	84,458	31	7,592	92,050	8,747	0	295,000	358,000	48,859	10,979	136,592	0	44,000	265,000	49,926	0	0	83,900
9	0.00	1.3	3.2	24.0	18.8	24.9	114,008	30	7,623	121,631	14,008	0	281,000	297,000	41,376	10,771	130,186	0	36,000	265,000	11,036	0	0	46,100
7	0.00	1.2	3.2	24.0	22.5	25.3	99,318	32	7,284	106,602	7,929	0	238,000	247,000	48,970	10,068	129,755	0	32,000	265,000	0	0	0	44,100
∞	0.00	1.3	3.2	26.4	16.9	24.7	84,030	32	7,300	91,330	969'9	0	211,000	242,000	41,780	10,068	26,783	0	36,000	265,000	28,359	0	0	60,300
6	0.00	1.3	3.2	25.2	18.5	24.7	87,100	45	7,061	94,160	7,289	0	228,000	242,000	47,660	10,068	12,363	0	32,000	265,000	0	0	0	42,900
10	0.00	1.2	3.2	24.0	20.1	25.0	89,775	45	7,061	96,836	7,289	0	245,000	242,000	47,660	10,068	38,784	0	32,000	265,000	0	0	0	42,900
11	00:00	1.3	3.2	22.8	15.1	24.6	88,468	26	7,214	95,682	7,468	0	288,000	185,000	47,977	6556	112,976	0	36,000	265,000	23,781	0	0	62,200
12	00:00	1.1	3.2	24.1	1.61	24.6	92,421	32	5,905	98,326	6,768	0	238,000	185,000	47,371	10,387	80,672	0	28,000	265,000	0	0	0	42,600
13	0.00	1.3	3.2	17.4	22.5	25.3	190,001	33	7,605	115,666	5,869	0	204,000	185,000	39,203	10,264	75,251	0	36,000	265,000	0	0	0	35,300
14	0.00	1.5	3.2	25.6	14.1	25.1	108,156	33	7,158	115,314	2,103	0	192,000	185,000	48,060	10,190	39,502	0	40,000	265,000	0	0	0	43,300
15	0.00	1.4	3.2	26.2	16.4	25.6	100,942	33	8.000	108,942	16,627	0	216,000	185,000	50.830	9.934	21.075	0	36,000	265,000	39.226	0	0	77,100
91	0.65	1.4	3.2	26.9	26.9	25.4	92,008	43	10,244	105,252	11,912	0	259,000	185,000	24,707	9,934	0	0	36,000	265,000	0	0	0	22,200
17	0.57	1.5	3.2	24.6	24.6	24.8	97,334	43	10,244	107,578	11,912	0	302,000	185,000	24,707	9,934	43,076	0	40,000	265,000	0	0	0	22,200
18	0.00	1.5	3.3	23.9	16.2	24.3	716,917	44	10,183	87,100	11,913	0	350,000	185,000	24,708	9,934	43,441	0	40,000	277,000	35,817	0	0	50,900
61	0.00	1.0	3.1	27.6	18.3	24.1	47,613	37	17,246	64,859	3,840	0	319,000	185,000	45,405	10,252	68,834	0	24,000	254,000	0	0	0	40,900
20	0.00	1.2	2.7	26.4	18.3	25.7	119,798	0	3,150	122,948	9,342	0	281,000	185,000	49,861	10,683	609'89	0	32,000	210,000	25,661	0	0	65,400
21	0.00	TT.	3.3	12.6	18.3	25.1	139,202	31	7,619	146,821	13,418	0	288,000	185,000	41,912	10,584	55,252	0	28,000	277,000	0	0	0	37,700
22	0.00	1.3	3.3	25.8	18.3	24.6	80,723	32	5,875	865'98	13,708	0	278,000	185,000	53,120	67676	13,894	0	36,000	277,000	0	0	0	47,800
23	00:00	1.5	3.3	24.9	18.3	24.4	45,312	40	6,233	51,545	15,200	0	299,000	185,000	33,090	6,929	0	0	40,000	277,000	0	0	0	29,800
24	0.00	1.6	3.3	24.0	18.3	24.8	42,765	40	6,233	48,998	15,200	0	319,000	185,000	33,090	6,626	57,297	0	44,000	277,000	34,789	0	0	57,600
25	0.40	1.0	3.2	16.2	18.3	24.4	169,726	46	8,049	177,775	6.679	0	326,000	185,000	29,966	9,544	49,573	0	24,000	265,000	0	0	0	27,000
26	0.32	1.3	3.6	18.0	25.5	24.6	107,624	45	6,068	113,692	2,915	0	360,000	185,000	45,573	9,196	69,046	0	36,000	312,000	0	0	0	41,000
27	0.00	9.1	3.3	19.2	27.4	24.5	102,795	_	6,726	109,521	6,517	0	374,000	185,000	49,122	9,643	29,310	0	44,000	277,000	0	0	0	44,200
28	0.00	1.6	3.3	19.8	28.7	24.7	90,783	0	6,311	97,094	5,135	0	379,000	186,000	48,487	9,311	57,476	0	44,000	277,000	42,390	0	0	77,600
29	0.00	1.0	3.3	21.6	26.2	24.1	99,313	28	6,648	105,961	1,939	0	358,000	185,000	51,225	6,055	42,792	0	24,000	277,000	0	0	0	46,100
30	00:0	1.0	3.3	23.7	25.4	23.9	89,746	30	8,373	98,119	109	1	395,000	185,000	26,882	6,055	0	0	24,000	265,000	0	0	0	24,200
31	00:00	1.0	3.2	25.8	24.6	24.4	280,087	30	8,373	98,459	109	1	432,000	185,000	26,882	6,055	83,197	0	24,000	265,000	0	0	0	24,200
Total	1.94						2,946,654	1,032	237,637	3,184,291	267,904	1			1,281,386	310,423	1,665,014	0		3	327,064	0.00	0.00	1,415,000
Daily Average		1.3	3.2	22.7	20.8	24.8	95,053						295,677	228,774				0	36,161	268,258	7	0	0	32
Mo. Average																								
Notes:																								
1. NR = No I.	1. NR = No Records, NA = Not Available. 2. Voltage in held one action and compared to the content of the property of the prope	ot Available.	H- and collectifi	An missing	1-4- and am has	economic ac F-	J Lyan			. •	7. Column VI is n	Column VI is recorded from the pressure liquid level sensor in CO 2-1.	ressure liquid le	vel sensor in CO 2	±.									
3. Daily avera	values in oold are estimated, values in taine are studentitle for missing data and are based of Daily average is calculated by dividing the total by the actual days measured in the month.	i, values in ite vy dividing the	e total by the a	actual days mea	sured in the mor	oct on average nth.	A values.			31	 Columns IX, Sc. 	Column VI B recorded from the pressure riquid rever sensor in Mr 2-2. Columns IX, Section 7-8 leak detection pumped into Section 7 leachate sump riser.	pressure inquire ection pumped in	nto Section 7 leach	ate sump riser.									
4. Monthly av	4. Monthly average cakulated by dividing the total by the number of days of the month.	by dividing th	he total by the	number of day.	s of the month.					-	10. Column XIV at	Column XIV and XV, calculated from depth in 575,000 gal. tanks.	from depth in 57.	75,000 gal. tanks.										
5. Column II, 6. Columns II	 Column II, Trace is less than 0.01 inches and is not included in total Columns III and IV field measured at staff oances 	n 0.01 inches	and is not inc	cluded in total.							 Columns VIII-N Column XXV i 	Columns VIII-XIII, XVI-XIX, and XXII-XXIV, quantities from flow meters. Column XXV includes 80% of the daily values from Columns XIX-XXII-XXIII nlns 90% of Column XXI	nd XXII-XXIV,	quantities from flo	w meters.	olus 90% of Col	mn XVI							

MONTH/YEAR

TABLE 2. FIELD DATA ENTRY FORM JANUARY 2022 SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

Т	Effluent Dust Control	(Sprayed) (gal)																																0
S	Effluent	Hauled (gal.)																																
R	Leachate Dust Control	(Sprayed) (gal.)																																
0	Leachate	Hauled (gal.)	0	6,003	73,133	100,142	136,592	130,186	129,755	26,783	12,363	38,784	112,976	80,672	75,251	39,502	21,075	0	43,076	43,441	68,834	68,609	55,252	13,894	0	57,297	49,573	69,046	29,310	57,476	42,792	0	83,197	1,665,014
Ь	Leachate Treated	at LTRF (gal.)	13,227	13,227	13,227	11,419	10,979	10,771	10,068	10,068	10,068	10,068	9,559	10,387	10,264	10,190	9,934	9,934	9,934	9,934	10,252	10,683	10,584	9,929	9,929	9,929	9,544	9,196	9,643	9,311	6,055	6,055	6,055	310,423
0	Depth in 575K Tank	Effluent (ft.)	13.63	14.00	13.67	13.50	12.42	10.33	8.58	8.42	8.42	8.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.42	6.45	6.42	6.42	6.42	
Z	Depth in 575K Tank	Leachate (ft.)	8.83	10.08	12.08	11.08	10.25	9.75	8.25	7.33	7.92	8.50	10.00	8.25	7.08	6.67	7.50	00.6	10.50	12.17	11.08	9.75	10.00	6.67	10.38	11.08	11.33	12.50	13.00	13.17	12.42	13.71	15.00	
М	Effluent Spray	Irrigation (gal.)	0	0	16,512	19,567	49,926	11,036	0	28,359	0	0	23,781	0	0	0	39,226	0	0	35,817	0	25,661	0	0	0	34,789	0	0	0	42,390	0	0	0	327,064
L	Pond A	Depth (ft.)	1.4	1.7	1.9	1.8	1.6	1.3	1.2	1.3	1.3	1.2	1.3	1.1	1.3	1.5	1.4	1.4	1.5	1.5	1.0	1.2	1.1	1.3	1.5	1.6	1.0	1.3	1.6	1.6	1.0	1.0	1.0	
\times	Pond B	Depth (ft.)	3.3	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.1	2.7	3.3	3.3	3	3.3	3.2	3.6	3.3	3.3	3.3	3.3	3.2	
J	Pond B to	LEF (gal.)	5,670,103	5,718,536	5,741,224	5,784,575	5,833,434	5,874,810	5,923,780	5,965,560	6,013,220	6,060,879	6,108,856	6,156,227	6,195,430	6,243,490	6,294,320	6,319,027	6,343,734	6,368,442	6,413,847	6,463,708	6,505,620	6,558,740	6,591,830	6,624,919	6,654,885	6,700,458	6,749,580	6,798,067	6,849,292	6,876,174	6,903,056	
I	MLPS to	Pond B (gal.)	2,877,010	2,932,374	2,958,408	2,997,774	3,043,478	3,091,830	3,133,855	3,183,715	3,233,432	3,283,149	3,336,581	3,381,219	3,419,948	3,471,754	3,518,350	3,542,621	3,566,892	3,591,164	3,619,615	3,667,141	3,735,627	3,781,626	3,799,481	3,817,336	3,894,789	3,929,363	3,971,026	4,022,366	4,076,648	4,107,434	4,138,219	
Н	Sections 7-8	LDS (gal.)	5,585	5,622	5,659	5,721	5,752	5,782	5,814	5,846	5,891	5,935	5,961	5,993	6,026	6,059	6,092	6,135	6,178	6,222	6,259	6,259	6,290	6,322	6,362	6,401	6,447	6,492	6,493	6,493	6,521	6,551	6,580	
Ð	Sections 7-8	Pump (gal.)	6,140,995	6,148,528	6,155,726	6,163,723	6,171,315	6,178,938	6,186,222	6,193,522	6,200,583	6,207,643	6,214,857	6,220,762	6,228,367	6,235,525	6,243,525	6,253,769	6,264,013	6,274,196	6,291,442	6,294,592	6,302,211	6,308,086	6,314,319	6,320,552	6,328,601	6,334,669	6,341,395	6,347,706	6,354,354	6,362,727	6,371,099	
т	Section 9	LDS (gal.)	45,659	45,659	45,659	45,659	45,659	45,659	45,659	45,659	45,659	45,659	45,659	45,659	45,659	45,659	45,659	45,659	45,659	45,659	45,659	45,659	45,659	45,659	45,659	45,659	45,659	45,659	45,659	45,659	45,659	45,660	45,660	
Ξ	Section 9	Pumps (gal.)	2,522,567	2,535,716	2,549,065	2,553,684	2,562,431	2,576,439	2,584,368	2,591,064	2,598,353	2,605,641	2,613,109	2,619,877	2,625,746	2,627,849	2,644,476	2,656,388	2,668,300	2,680,213	2,684,053	2,693,395	2,706,813	2,720,521	2,735,721	2,750,920	2,760,599	2,763,514	2,770,031	2,775,166	2,777,105	2,777,214	2,777,322	
D	Reading	PS-B (in.)	9.61	25.3	15.0	20.4	22.8	24.0	24.0	26.4	25.2	24.0	22.8	24.1	17.4	25.6	26.2	26.9	24.6	23.9	27.6	26.4	12.6	25.8	24.9	24.0	16.2	18.0	19.2	19.8	21.6	23.7	25.8	
C	Flow Meter	Pump Sta. A (gal.)	25,592,844	25,666,886	25,747,444	25,820,044	25,879,056	25,968,574	26,050,315	26,116,190	26,185,135	26,254,080	26,325,596	26,391,404	26,470,422	26,551,500	26,631,844	26,706,254	26,780,664	26,855,074	26,902,170	26,973,222	27,066,930	27,127,678	27,153,015	27,178,352	27,304,374	27,387,468	27,463,834	27,535,416	27,610,306	27,675,629	27,740,952	
В		Rainfall (in.)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.65	0.57	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.32	0.00	0.00	0.00	0.00	0.00	1.94
A		Day	1	2	3	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Totals

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 Columns G and I include quantities from leak detection system.

Tyme of Correr	Filases I-v1	Section 7-9
type of cover	acres	acres
Open	5	0
Intermediate	134.4	34.5
Final	23	0
Not Opened	0	0

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inches.	
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trace is less than 0.01	
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4. Column B, trace is less	
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5. Columns C- K, N, and Q-U are quantities from flow meters.

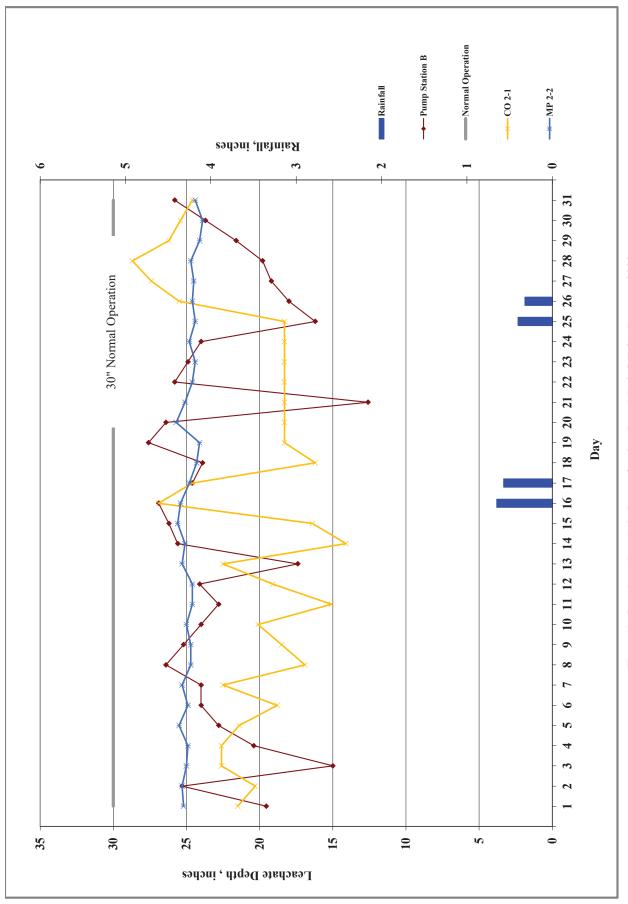


Figure 1. Leachate Levels in Pump Station B and Rainfall for January 2022

TABLE 3. LEACHATE BALANCE SUMMARY SOUTHEAST COUNTY LANDFILL HILLSBOROUGH COUNTY, FLORIDA YEAR-2022

			Leachate Arr	Leachate Arriving at LTRF		Leach	Leachate Leaving LTRF	Ŧ	LEF	·	Effluent Disposal		Inflo	Inflow / Outflow For L
		Condensate	Leachate	Leachate	Leachate	Total Leachate	Leachate	Leachate	Leachate	Total	Effluent	Effluent	Total Inflow	Total Outflow
	Rainfall	from LFG	from Section 9	from Section 7-8 from Phases I-VI	from Phases I-VI	Hauled	Dust Control	Treated at	Treated at	Effluent	Dust Control	Irrigation	to	from
		CS-1	Pumped to LTRF	Pumped to LTRF Pumped to LTRF Pumped to LTRF	Pumped to LTRF	from LTRF	(Sprayed)	LTRF	LEF	Hauled	(Sprayed)		LTRF	LTRF
Month	(in.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)
January	1.94	177	267,905	237,637	2,946,654	0	0	310,423	1,281,386	0	0	327,064	3,452,373	1,591,809
February														
March														
April														
May														
June														
July														
August														
September														
October														
November														
December														
YTD Total														

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.



SOLID WASTE MANAGEMENT

PO Box 1110, Tampa, FL 33601-1110

BOARD OF COUNTY COMMISSIONERS

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ASSISTANT COUNTY ADMINISTRATOR

George Cassady

MEMORANDUM

DATE: March 15, 2022

TO: Larry E. Ruiz, Manager Landfill Operations, Solid

Waste Management Division

FROM: Ron W. Wiesman, Manager, Solid Waste

Management Division

SUBJECT: Leachate Water Balance Report Forms for February 2022

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 2022 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 .6 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 of effluent stored in Pond A was .7 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 leachate in Pond B was 3.2 feet.

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. The average recorded depth of leachate in the PS-B sump was 20.0 inches.

Depth in Clean Out 2-1 (CO 2-1) (Column VI)

Column VI presents the depth of leachate, in inches, in the East side of the landfill. Daily depth readings from the CO 2-1 are included in this column. The average recorded depth of leachate in the CO 2-1 was 26.5 inches.

Depth in Monitoring Port 2-2 (MP 2-2) (Column VII)

Column VII presents the depth of leachate, in inches, in the South East side of the landfill. Daily depth readings from the MP 2-2 are included in this column the average recorded depth of leachate in the MP 2-2 was 24.4 inches.

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. This column also includes the Phase II data from the dewatering wells and PS-2. The average daily amount of leachate pumped from PS-A was 81,500 gallons. A total of 2,282,000 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 834 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 VII). This month a total of 171,218 gallons was removed.

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 (including condensate removed from LFG Wells and Condensate Traps), and Sections 7-8. This month a total of 2,453,218 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 205,867 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 4,651 gallons per day. This month 1,736 gallons of leachate was removed from the leak detection system.

Leachate in 575.000-Gallon Tank (Column XIV)

Column XIV 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 245,357 gallons of leachate was stored in the tank.

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

Column XV typically 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/leachate stored in T6 is calculated based on the circumference of the tank and the daily level reading. This month an average of 221,679 gallons of leachate was stored in the tank.

Leachate Treated at LEF (Column XVI)

Column XVI presents the daily amount of leachate, in gallons, treated at the LEF (Leachate Evaporator Facility). On September 1, 2021, Hillsborough County started treating leachate at the LEF. This month a total of 1,024,398 gallons of leachate was treated at the evaporator.

Leachate Treated at LTRF (Column XVII)

Column XVII presents the daily amount of leachate, in gallons, treated at the LTRF. On September 15, 2019, plant staff restarted treatment operations. This month a total of 390,783 gallons of leachate was treated at the plant.

Total Leachate Hauled (Column XVIII)

Column XVIII presents the daily amount of leachate, in gallons, hauled off site. This month a total of 1,658,498 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 zero 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 17,243 gallons of effluent was stored in Pond A.

Pond B Storage (Column XXI)

Column XXI presents the daily amount of leachate, in gallons, stored in Pond B. The daily amount stored in the pond is calculated by using the daily depth of liquid in Pond B (Column IV). Under normal operating conditions, the amount stored in the pond will vary depending upon the daily amount of leachate pumped from the pond to the evaporator, hauled from the pond, used for dust control or evaporated. This month a daily average of 263,143 gallons of leachate was stored in Pond B.

Effluent Irrigation (Column XXII)

Column XXII 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 I-VI is measured from the flow meter at the irrigation pump station. This month a total of 39,931 gallons of effluent was sprayed.

Effluent Dust Control Sprayed (Column XXIII)

Column XXIII 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 zero gallons of effluent was sprayed as dust control.

Total Effluent Hauled (Column XXIV)

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

Total Evaporation (Column XXV)

Column XXV 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 953,900 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 2,660,891 gallons. Total outflow quantity from the LTRF was 3,073,679 gallons. The change in storage for the month decreased by 412,788 gallons. Please advise should you have any questions concerning the information provided.

									TABLE 1. L.	EACHATE WA	ATER BALAN	TABLE 1. LEACHATE WATER BALANCE REPORT FORM	FORM										
								SOUT	SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA	TY LANDFILI	L, HILLSBOR	OUGH COUN	TY, FLORIDA	_									
I	Ш	IV	Λ	VI	VII	VIII	IX	X	XI	XII	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX	XXI X	XXII X	XXIII	XXIV	XXV
	Depth	ı	Estimated			Leachate	Leachate	Leachate	Leachate	Leachate	Leachate	Leachate	ent		Leachate								
	B.		Depth	Depth	Depth	Pumped	Pumped from	Pumped	Pumped	Pumped	Pumped from	.g	. Е	Treated	p		Leachate	_	_			Total	
ă	Pond Painfall A		at p.c.B	m CO 2-1	m MP 2.2	to MLPS	Sections 7-8	Sections 7-8	to LTRF from	to LTRF from Section 9	Section 9	373K	Tank	at I F F	at L	Leachate Dus	Dust Control	A Stomore	Store or	Irrigation Dust	Dust Control E	Effluent Hauled Fv	Total
Day	(in.) (ft.)	(F)	(ii)	(ii)	(in.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)						(gal.) (s			(gal.)
-	0.00	1.1 3.2	2 28.2		6 24.5	775,86		17,692	111,069	3,471	0	396,000	202,000	49,466	13,936	75,313	0	28,000	000	0	0	0	44,500
2	0.00					86,656	0	0	86,656	0	0	350,000	214,000	50,837	15,163	75,828	0	24,000	265,000	0	0	0	45,800
3	0.00		3 19.8	.8 24.3	3 24.6	87,105	63	9,026	96,131	22,530	0	302,000	214,000	39,808	10,201	82,919	0	13,000	277,000	0	0	0	35,800
4	0.00	0.8 3.0	0 21.6	.6 26.9	9 24.5	63,609	33	5,854	99,463	7,706	68	317,000	216,000	48,775	7,914	83,499	0	17,000	242,000	0	0	0	43,900
5	0.00	1.0 3.1	1 25.8	.8 28.4	4 24.6	76,691	32	7,245	83,936	8,743	0	266,000	216,000	23,350	4,760	42,933	0	24,000	254,000	0	0	0	21,000
9	0.00	1.1 3.2	2 22.8	.8 28.0	9 24.3	32,924	15	3,255	36,179	1,697	163	294,000	216,000	17,445	4,760	0	0	28,000	254,000	0	0	0	15,700
7	00:00	1.2 3.2	2 19.8	.8 27.6	6 24.3	27,874	15	3,255	31,129	1,697	163	322,000	216,000	17,445	4,760	39,817	0	32,000	265,000	0	0	0	15,700
∞	0.10	1.3 3.3	3 13.8	.8 27.6	6 24.3	144,638	41	10,159	154,797	3,395	325	322,000	221,000	45,263	5,962	76,332	0	36,000	277,000	0	0	0	40,700
6	0.32	1.5 3.2	2 21.6	.6 25.3	3 24.7	101,614	09	6,743	108,357	3,303	1	302,000	221,000	51,392	6,019	191'06	0	40,000	265,000	0	0	0	46,300
10	0.00	1.6 3.2	2 23.4	.4 28.0	0 24.9	96,528	27	6,709	103,237	8,312	0	259,000	216,000	52,405	610'9	82,693	0	44,000	265,000	0	0	0	47,200
11	0.00	1.6 3.2	2 24.0	.0 26.9	9 25.0	91,305	29	6,555	098'26	3,143	1	185,000	238,000	51,605	26,551	89,316	0	44,000	265,000	0	0	0	46,400
12	0.00	1.2 3.2		.4 26.5	5 24.6	83,840		6,228	890'06	10,156	0	144,000	264,000	40,920	26,551	49,489	0	32,000	265,000	0	0	0	36,800
13	0.18	1.2 3.2		.5 27.6	5 24.2	177,751	30	5,256	83,007	6,472	I	180,000	286,000	7,725	26,551	0	0	28,000	265,000	0	0	0	7,000
14						73,316		5,256	78,572	6,472	1	216,000	307,000	7,725	26,551	93,582	0	28,000	265,000	0	0	0	7,000
15	0.00	0.6 3.2		.4 25.2		70,664		4,884	75,548	4,635	0	218,000	242,000	46,031	15,607	92,900	0	10,000	265,000	0	0	0	41,400
16	0.00	0.0 3.2	2 20.4	27.6	6 24.2	75,894		6,278		15,771	0	149,000	259,000	48,733	8,106	62,927	0		265,000	0	0	0	43,900
17	00:0	0.0 3.2	2 13.2	.2 28.7	7 24.5	86,635	31	5,816		7,913	0	166,000	221,000	51,146	14,480	74,411	0	800	265,000	0	0	0	46,000
18	00:0	0.0 3.3		.8 27.5	5 24.6	86,916	0	2,600	92,516	4,652	0	202,000	182,000	22,375	15,556	156'09	0		277,000	0	0	0	20,100
19	0.00	0.0		.2 23.3		84,825	37	6,987	91,812	12,359	0	247,000	149,000	27,980	13,860	13,849	0	800	277,000	0	0	0	25,200
20	00:0	0.0 3.3	3 20.4	.4 24.2		75,091	34	5,040	80,130	8,303	3	270,000	164,000	23,614	13,860	0	0	800	265,000	0	0	0	21,300
21	00:0	0.0 3.2	2 15.6	.6 25.0	0 24.4	58,767	34	5,040	63,807	8,303	3	293,000	180,000	23,614	13,860	68,405	0	800	265,000	0	0	0	21,300
22	00:0	0.0 3.2	2 10.8	.8 24.2	2 24.3	85,518	33	5,317	90,835	13,426	11	274,000	194,000	28,143	15,639	61,003	0	800	265,000	0	0	0	25,300
23	0.00	0.0	1 24.0	.0 25.2	2 24.3	79,852	33	5,383	85,235	5,952	7.16	266,000	209,000	36,032	15,639	82,376	0	800	254,000	0	0	0	32,400
24	0.00	0.0	13.8	.8 24.7	7 24.4	83,333	32	5,440	88,773	8,819	0	240,000	216,000	30,097	14,970	75,003	0	800	254,000	0	0	0	27,100
25	0.00	0.0	1 22.8	.8 28.6	6 24.4	81,510	0	5,672	87,182	7,410	0	189,000	235,000	48,590	14,842	75,624	0	800	254,000	0	0	0	43,700
26	0.00	0.0	1 13.2	.2 27.0	0 24.4	81,124	38	5,602	86,726	7,347	0	156,000	235,000	55,405	16,222	27,910	0	800	254,000	9,316	0	0	57,300
27	0.00	0.7 3.2	2 15.9	.9 25.7	7 24.5	82,485	34	5,464	87,949	6,940	0	167,000	236,000	39,239	16,222	6,395	0	10,000	254,000	0	0	0	35,300
28	0.00	1.3 3.2	2 18.6	.6 24.3	3 24.6	82,161	34	5,464	87,624	6,940	0	178,000	238,000	39,239	16,222	74,862	0	36,000	265,000	30,615	0	0	59,800
29																							
30																							
31																							
Total	09:0					2,282,000	834	171,218	2,453,218	205,867	1,736			1,024,398	390,783	1,658,498	0			39,931	0	0	953,900
Daily Average		0.7 3.2	2 20.0	.0 26.5	5 24.4	81,500						245,357	221,679				0	17,243	263,143		0	0	34,068
Mo. Average																							
SeloN																							
1. NR = No Reco	I. NR = No Records, NA = Not Available.	ilable.									recorded from the	Column VI is recorded from the pressure liquid level sensor in CO 2-1.	el sensor in CO 2-										
2. Values in bold	are estimated; valu	res in italic are s	substitute for m	nissing data and a	Values in bold are estimated; values in italic are substitute for missing data and are based on averaged values.	ged values.			. ,	8. Column VII is	recorded from the	Column VII is recorded from the pressure liquid level sensor in MP 2-2	vel sensor in MP 2	-2.									
Dany average Monthly average	Daily average is calculated by dividing the total by the actual days measured in the month. Monthly average calculated by dividing the total by the number of days of the month.	raing me total by	by the number of	ys measured in u of davs of the mo	ne monun. onth.						and XV, calculated	Columns 1A, Section 7-5 teak detection pumped into Section 7 teachate sumpriser. Column XIV and XV, calculated from depth in 575,000 gal, tanks.	5,000 gal, tanks.	ite sump riser.									
5. Column II, Tra	Column II, Trace is less than 0.01 inches and is not included in total.	inches and is n	not included in ;	total.						11. Columns VIII-	-XIII, XVI-XIX, a	Columns VIII-XIII, XVI-XIX, and XXII-XXIV, quantities from flow meters.	nantities from flow	/ meters.									
Columns III an	Columns III and IV, field measured at staff gauges	ed at staff gauge	cs.							Column XXV	' includes 80% of t	the daily values fro.	m Columns XIX, .	XXII - XXIII, ph	15 90% of Colun	ın XVI.							

MONTH/YEAR

TABLE 2. FIELD DATA ENTRY FORM
February 2022
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

Т	Effluent Dust Control	(Sprayed)	(gal)																															0
S	Effluent	Hauled	(gar.)																															
R	Leachate Dust Control	(Sprayed)	(gal.)																															
0	Leachate	Hauled	(gal.) 75 313	75,828	82,919	83,499	42,933	0	39,817	76,332	191,06	82,693	89,316	49,489	0	93,582	92,900	62,927	74,411	60,951	13,849	0	68,405	61,003	82,376	75,003	75,624	27,910	6,395	74,862	0	0		1,658,498
Ь	Leachate Treated	at LTRF	(gal.)	15,163	10,201	7,914	4,760	4,760	4,760	5,962	6,019	6,019	26,551	26,551	26,551	26,551	15,607	8,106	14,480	15,556	13,860	13,860	13,860	15,639	15,639	14,970	14,842	16,222	16,222	16,222				390,783
0	Depth in 575K Tank	Effluent	(II.)	7.42	7.42	7.50	7.50	7.50	7.50	79.7	79.7	7.50	8.25	9.17	9.92	10.67	8.42	00.6	79.7	6.33	5.17	5.71	6.25	6.75	7.25	7.50	8.17	8.17	8.21	8.25				
z	Depth in 575K Tank		(II.)	12.17	10.50	11.00	9.25	10.21	11.17	11.17	10.50	00.6	6.42	5.00	6.25	7.50	7.58	5.17	5.75	7.00	8.58	9.38	10.17	9.50	9.25	8.33	6.58	5.42	5.80	6.17				
M	Effluent	Irrigation	(gal.)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9,316	0	30,615				39,931
Γ	Pond A	Depth	(II.)	1.0	0.7	8.0	1.0	1.1	1.2	1.3	1.5	1.6	1.6	1.2	1.2	1.1	9.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.3				
Х	Pond B	Depth	3.7	3.2	3.3	3.0	3.1	3.2	3.2	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.3	3.3	3.2	3.2	3.1	3.1	3.1	3.1	3.2	3.2				
J	Pond B to	LEF	(gal.)	7,003.359	7,043,167	7,091,942	7,115,292	7,132,737	7,150,182	7,195,445	7,246,837	7,299,242	7,350,847	7,391,767	7,399,492	7,407,217	7,453,248	7,501,981	7,553,127	7,575,502	7,603,482	7,627,096	7,650,710	7,678,853	7,714,885	7,744,982	7,793,572	7,848,977	7,888,216	7,927,454				
I	MLPS to	Pond B	(gal.) 4 180 694	4,180,694	4,294,649	4,294,607	4,366,160	4,387,722	4,409,283	4,409,283	4,474,555	4,547,839	4,615,625	4,674,230	4,708,117	4,742,004	4,795,294	4,853,213	4,909,244	4,944,806	4,973,063	4,999,434	5,025,805	5,041,302	5,078,195	5,108,471	5,168,955	5,227,603	5,273,797	5,319,991				
Н	Sections 7-8	SCT	(gal.)	6,611	6,674	6,707	6,739	6,754	6,769	6,810	6,870	6,897	6,926	6,957	786,9	7,017	7,045	7,075	7,106	7,106	7,143	7,177	7,210	7,243	7,276	7,308	7,308	7,346	7,380	7,414				
G	Sections 7-8		(gar.) 6 388 791	6.388.791	6,397,817	6,403,671	6,410,916	6,414,171	6,417,426	6,427,585	6,434,328	6,441,037	6,447,592	6,453,820	6,459,076	6,464,332	6,469,216	6,475,494	6,481,310	6,486,910	6,493,897	6,498,937	6,503,976	6,509,293	6,514,676	6,520,116	6,525,788	6,531,390	6,536,854	6,542,317				
F	Section 9	SUT	(gal.) 45 660	45,660	45,660	45,749	45,749	45,912	46,074	46,399	46,400	46,400	46,401	46,401	46,402	46,402	46,402	46,402	46,402	46,402	46,402	46,405	46,408	46,419	47,396	47,396	47,396	47,396	47,396	47,396				
E	Section 9	Pumps	(gal.)	2,780,793	2,803,323	2,811,029	2,819,772	2,821,469	2,823,166	2,826,561	2,829,864	2,838,176	2,841,319	2,851,475	2,857,947	2,864,419	2,869,054	2,884,825	2,892,738	2,897,390	2,909,749	2,918,052	2,926,355	2,939,781	2,945,733	2,954,552	2,961,962	2,969,309	2,976,249	2,983,189				
D	Reading	PS-B	(III.)	28.2	19.8	21.6	25.8	22.8	19.8	13.8	21.6	23.4	24.0	17.4	22.5	27.6	14.4	20.4	13.2	13.8	25.2	20.4	15.6	10.8	24.0	13.8	22.8	13.2	15.9	18.6				
C	Flow Meter	Pump Sta. A	(gal.) 27 808 250	27.867.720	27,933,786	28,001,806	28,070,386	28,095,199	28,120,012	28,221,954	28,295,582	28,365,902	28,431,576	28,499,790	28,561,915	28,624,040	28,680,616	28,735,924	28,797,028	28,859,774	28,926,654	28,983,800	29,040,946	29,098,496	29,156,852	29,215,972	29,275,850	29,333,998	29,393,052	29,452,106				
В		ΠĒ.	(III.)	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.32	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	09.0
Α			Day	2	3	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	56	27	28	59	30	31	Totals

- NR = No Records, NA = Not Available. Values in italic are substitute for missing data and are based on averaged values Columns G and I include quantities from leak detection system.

Tyne of Cover	Phases I-VI	Section 7-9
a local add i	acres	acres
Open	5	0
Intermediate	134.4	34.5
Final	23	0
Mat Occasion	0	0

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Column B, trace is less than 0.01 inches.	
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5. Columns C- K, N, and Q-U are quantities from flow meters.

PHASE 2 ADDITIONAL LEACHATE REMOVAL February 2022

					,_			ľ	8	3	
									PS-2	PS-2	
	DW 1-1	DW 1-1	DW 1-2	DW 1-2	DW 2-1	DW 2-1	DW 2-2	DW 2-2	(CO 2-1)	$(CO\ 2-1)$	TOTAL
DAY	READING	GALLONS	READING	GALLONS	READING	GALLONS	READING	GALLONS	READING	GALLONS	GALLONS
1	261,825	192	6,813	1,967	446,140	0	1,700	380	6,157,279	22,966	26,079
2	264,894	724	14,679	2,037	446,140	0	3,218	452	6,180,245	23,973	27,186
3	267,790	29	22,826	521	446,140	0	5,026	42	6,204,218	20,409	21,039
4	268,058	834	24,911	2,144	446,140	0	5,194	1	6,224,627	22,611	25,589
5	271,392	258	33,485	715	446,140	0	5,199	0	6,247,238	7,139	8,111
9	272,423	258	36,344	715	446,140	0	5,199	0	6,254,377	7,139	8,111
7	273,453	638	39,203	2,379	446,140	0	5,199	0	6,261,515	44	3,061
8	276,004	713	48,718	2,167	446,140	0	5,199	0	6,261,559	39,816	42,696
6	278,856	664	57,386	2,094	446,140	0	5,199	0	6,301,375	25,228	27,986
10	281,512	626	65,762	1,956	446,140	0	5,199	353	6,326,603	23,272	26,208
11	284,017	628	73,587	2,251	446,140	0	6,612	100	6,349,875	22,652	25,631
12	286,530	699	82,591	1,737	446,140	0	7,011	0	6,372,527	13,220	15,626
13	289,205	699	89,539	1,737	446,140	0	7,011	0	6,385,747	13,220	15,626
14	291,880	582	96,487	1,984	446,140	0	7,011	0	6,398,967	8,624	11,191
15	294,209	551	104,424	1,995	446,140	0	7,011	0	6,407,591	11,543	14,088
16	296,412	562	112,402	2,081	446,140	0	7,011	0	767	17,944	20,586
17	298,659	552	120,724	1,070	446,140	0	7,011	-1,667	18,241	25,575	25,531
18	300,868		125,005	542	446,140	0	344	111	43,816	23,517	24,170
19	301,400	74	127,173	316	446,140	0	786	0	67,333	17,555	17,945
20	301,697	74	128,437	316	446,140	0	282	0	84,888	17,555	17,945
21	301,994	0	129,701	0	446,140	0	786	0	102,442	1,621	1,621
22	301,994	0	129,701	0	446,140	0	786	0	104,063	27,968	27,968
23	301,994	0	129,701	0	446,140	0	786	0	132,031	21,496	21,496
24	301,994	836	129,701	3,251	446,140	0	786	502	153,527	19,625	24,213
25	305,336	783	142,704	2,630	446,140	0	2,793	481	173,152	17,738	21,632
26	308,468	615	153,225	2,362	446,140	0	4,717	0	190,890	19,999	22,976
27	310,927	615	162,674	2,362	446,140	0	6,538	455	210,889	19,999	23,431
28	313,385	693	172,122	2,387	446,140	2	8,359	0	230,888	20,025	23,107
29	316,157	-79,039	181,668	-45,417	446,148	-111,537	10,263	-2,566	250,913	-250,913	-489,472
30		0		0		0		0		0	0
31		0		0		0		0		0	0

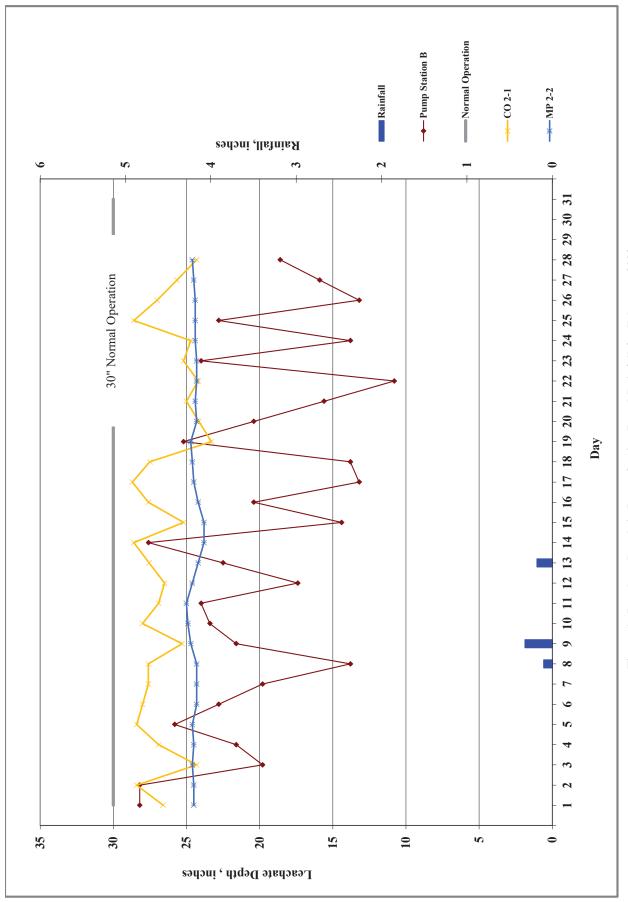


Figure 1. Leachate Levels in Pump Station B and Rainfall for February 2022.

TABLE 3. LEACHATE BALANCE SUMMARY SOUTHEAST COUNTY LANDFILL HILLSBOROUGH COUNTY, FLORIDA YEAR-2022

Condensate Leachate Leachat				Leachate An	Leachate Arriving at LTRF		Leach	Leachate Leaving LTRF	Ŧ	LEF		Effluent Disposal		Inflo	Inflow / Outflow For L
Rainfall from LFG from Section 9 from Phases LVI Hauled Dust Control Treated at Effluent Dust Control Irrigated CS-1 Pumped to LTRF Pumped to LTRF From LTRF (Sprayed) LTRF LEF Hauled (Sprayed) LTRF LTR			Condensate	Leachate	Leachate	Leachate	Total Leachate	Leachate	Leachate	Leachate	Total	Effluent	Effluent	Total Inflow	Total Outflow
(in) (gal)		Rainfall	from LFG	from Section 9		from Phases I-VI	Hauled	Dust Control	Treated at	Treated at	Effluent	Dust Control	Irrigation	to	from
(in) (gal)			CS-1	Pumped to LTRF	Pumped to LTRF	Pumped to LTRF	from LTRF	(Sprayed)	LTRF	LEF	Hauled	(Sprayed)		LTRF	LTRF
1.94 117 267,905 237,637 2,946,654 1,665,014 0 310,423 1,281,386 0	Month	(in.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)
0.06 70 207,603 171,218 2,282,000 1,658,498 0 390,783 1,024,398 0 1	January	1.94	1771				1,665,014	0	310,423	1,281,386	0	0	327,064	3,452,373	3,256,823
March April April April August	February	09.0	70				1,658,498	0	390,783	1,024,398	0	0	39,931	2,660,891	3,073,679
April April <td< td=""><td>March</td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td></td<>	March		1								1				
May June May May <td>April</td> <td></td>	April														
June June Company Comp	May		1								1				
July August August <td>June</td> <td></td>	June														
August August Company	July														
September September Cotober	August														
October October Company December Company Company YTD Total Company Company	September														
November December Typ Total Typ Total	October														
December December Company	November		1												
YTD Total	December														
YTD Total															
	YTD Total														

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.



SOLID WASTE MANAGEMENT

PO Box 1110, Tampa, FL 33601-1110

BOARD OF COUNTY COMMISSIONERS

Harry Cohen Ken Hagan Pat Kemp Gwendolyn "Gwen" Myers Kimberly Overman Mariella Smith Stacv R. White

COUNTY ADMINISTRATOR

Bonnie M. Wise **COUNTY ATTORNEY** Christine M. Beck **INTERNAL AUDITOR**

Peggy Caskey

ASSISTANT COUNTY ADMINISTRATOR

George Cassady

DATE: April 15, 2022

MEMORANDUM

TO: Larry E. Ruiz, Manager Landfill Operations, Solid

Waste Management Division

FROM: Ron W. Wiesman, Manager, Solid Waste

Management Division

SUBJECT: Leachate Water Balance Report Forms for March 2022

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 2022 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 3.0 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 of effluent stored in Pond A was 1.3 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 leachate in Pond B was 3.2 feet.

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. The average recorded depth of leachate in the PS-B sump was 18.1 inches.

Depth in Clean Out 2-1 (CO 2-1) (Column VI)

Column VI presents the depth of leachate, in inches, in the East side of the landfill. Daily depth readings from the CO 2-1 are included in this column. The average recorded depth of leachate in the CO 2-1 was 22.9 inches.

Depth in Monitoring Port 2-2 (MP 2-2) (Column VII)

Column VII presents the depth of leachate, in inches, in the South East side of the landfill. Daily depth readings from the MP 2-2 are included in this column the average recorded depth of leachate in the MP 2-2 was 24.3 inches.

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. This column also includes the Phase II data from the dewatering wells and PS-2. The average daily amount of leachate pumped from PS-A was 76,129 gallons. A total of 2,360,014 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 839 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 VII). This month a total of 184,958 gallons was removed.

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 (including condensate removed from LFG Wells and Condensate Traps), and Sections 7-8. This month a total of 2,544,972 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 186,843 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 4,651 gallons per day. This month 260 gallons of leachate was removed from the leak detection system.

Leachate in 575.000-Gallon Tank (Column XIV)

Column XIV 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 241,387 gallons of leachate was stored in the tank.

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

Column XV typically 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/leachate stored in T6 is calculated based on the circumference of the tank and the daily level reading. This month an average of 146,774 gallons of leachate was stored in the tank.

Leachate Treated at LEF (Column XVI)

Column XVI presents the daily amount of leachate, in gallons, treated at the LEF (Leachate Evaporator Facility). On September 1, 2021, Hillsborough County started treating leachate at the LEF. This month a total of 1,108,913 gallons of leachate was treated at the evaporator.

Leachate Treated at LTRF (Column XVII)

Column XVII presents the daily amount of leachate, in gallons, treated at the LTRF. On September 15, 2019, plant staff restarted treatment operations. This month a total of 573,348 gallons of leachate was treated at the plant.

Total Leachate Hauled (Column XVIII)

Column XVIII presents the daily amount of leachate, in gallons, hauled off site. This month a total of 1,305,276 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 zero 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 35,955 gallons of effluent was stored in Pond A.

Pond B Storage (Column XXI)

Column XXI presents the daily amount of leachate, in gallons, stored in Pond B. The daily amount stored in the pond is calculated by using the daily depth of liquid in Pond B (Column IV). Under normal operating conditions, the amount stored in the pond will vary depending upon the daily amount of leachate pumped from the pond to the evaporator, hauled from the pond, used for dust control or evaporated. This month a daily average of 264,710 gallons of leachate was stored in Pond B.

Effluent Irrigation (Column XXII)

Column XXII 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 I-VI is measured from the flow meter at the irrigation pump station. This month a total of 374,378 gallons of effluent was sprayed.

Effluent Dust Control Sprayed (Column XXIII)

Column XXIII 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 zero gallons of effluent was sprayed as dust control.

Total Effluent Hauled (Column XXIV)

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

Total Evaporation (Column XXV)

Column XXV 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 1,297,400 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 2,732,347 gallons. Total outflow quantity from the LTRF was 2,987,537 gallons. The change in storage for the month decreased by 255,191 gallons. Please advise should you have any questions concerning the information provided.

									TABLE 1.	TABLE 1. LEACHATE WATER BALANCE REPORT FORM	ATER BALAN	NCE REPORT	r form										
								nos	THEAST COU	SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA	L, HILLSBOR	OUGH COU.	NTY, FLORII	V(
II II	Ш		>	IV	IIA	VIII	XI	×	IX	IIX	XIII	XIV	XV	XVI	XVII	XVIII	XIX	XX	XX IXX	XXII	XXIII	XXIV	XXV
	Depth		Estimated			Leachate	Leachate	Leachate	Leachate		Leachate	Leachate	Effluent		Leachate								
	.u		Depth	Depth	Depth	Pumped	Pumped from	Pumped	Pumped		Pumped from	.II.	.E	Treated	Treated				Pond Effli			Total	
			at	.EI	.п	to MLPS	Sections 7-8	to MLPS from	to LTRF from	to LTRF from	Section 9	575K	575K	at		Leachate Dr	Dust Control			Irrigation Dus	Dust Control E	Effluent	Total
Rainfall			PS-B	CO 2-1	MP 2-2	from Phases I-VI	TDS	Sections 7-8	MPLS	Section 9	TDS	Tank	Tank	LEF		Hauled	(Sprayed) S	Storage Sto	Storage	(S)	(Sprayed)	Hauled	Evaporation
Day (in.)			(ii)	(ii)	(in.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.) (g	(gal) (ga	(gal.)	(gal.)	(gal.)	(gal.)
.0 0.				4 26.6	24.3	82,160	32	5,537	769,78	7,081	0	153,000	235,000	39,471	21,612	94,592	0	17,000 2	265,000	0	0	0	35,500
2 0.	0.00	1.1 3.2	2 21.0		24.3		31		82,363	8,708	0	182,000	134,000	51,690	15,528	73,673	0	28,000 2	265,000	185'61	0	0	62,200
3 0;		1.0 3.2	2 21.6	5 28.1	24.7	78,253	30	5,601	83,854	7,000	0	146,000	132,000	52,112	9,920	60,841	0	24,000 2	265,000	0	0	0	46,900
4 0.	0.00	1.3 3.2	2 21.0	0 27.6	24.2	75,945	0	5,173	81,118	066'6	0	120,000	130,000	49,815	9,920	35,552	0	36,000 2	265,000	0	0	0	44,800
.0 8	0.00		2 28.2	26.0	24.5	79,715	37	5,200	84,915	3,114	ĸ	103,000	130,000	56,835	2,608	13,805	0	44,000 2	265,000	39,928	0	0	83,100
9	0.00	0.0	2 23.1	1 25.7	24.3	73,316	34	5,291	78,607	15,367	0	134,000	161,000	45,989	2,608	0	0	800 2	265,000	0	0	0	41,400
7 0.		0.0 3.2	18.0	0 25.4	24.4	77,021	34	5,291	82,312	15,367	0	166,000	192,000	45,989	5,608	14,855	0	800 2	265,000	0	0	0	41,400
8	0.28 0.	0.9 3.3	3 21.0	0 25.5	24.6	87,144	35	7,253	94,397	13,801	0	192,000	134,000	17,408	12,264	29,335	0	21,000 2	277,000	0	0	0	15,700
.0 6	0.00	1.3 3.1	1 14.4	18.5	24.6	82,437	0	17,391	99,828	6,292	0	221,000	134,000	39,168	13,806	35,927	0	36,000 2	254,000	0	0	0	35,300
10 0.	0.17			8 20.9	24.5	82,516	37	5,688	88,204	6,839	0	211,000	144,000	23,360	15,116	43,389	0	40,000	265,000	30,828	0	0	45,700
11 0.	0.00	1.1 3.2	2 21.0	0 25.1	24.5	84,150	34	5,904	90,054	1,168	0	218,000	144,000	43,697	18,600	43,311	0	28,000 2	265,000	0	0	0	39,300
12 0.					24.7	81,074	34	5,805	86,879	16,416	255	209,000	144,000	49,270	20,180	28,873	0	36,000 2	265,000	0	0	0	44,300
13 0.	0.03	1.7 3.2	2 16.2	222.5	23.0	63,292	29	3,920	67,212	428	0	220,000	144,000	24,197	20,180	0	0	48,000 2	265,000	0	0	0	21,800
14 0.		1.9 3.2		8 24.7	23.7	67,142	29	3,920	71,062	428	0	230,000	144,000	24,197	20,180	50,682	0	57,000 2	265,000	0	0	0	21,800
				5 24.3	24.4		0	5,823	81,233	8,978	0	238,000	144,000	46,542	17,700	21,155	0		265,000	24,494	0	0	61,500
					24.8		36	5,207	86,375	5,722	0	269,000	144,000	21,638	20,726	33,563	0		277,000	0	0	0	19,500
17 0.	0.00		17.4	4 20.8	24.6	82,399	31	5,757	88,156	4,520	0	281,000	144,000	45,421	25,088	60,954	0	52,000 2	265,000	0	0	0	40,900
.0 81					24.4	77,961	30	5,653	83,614	4,623	0	250,000	144,000	33,835	17,354	55,252	0	44,000 2	265,000	42,933	0	0	64,800
		1.3 3.2		8 20.9	24.2	69,054	33	3,945	72,999	3,390	0	269,000	144,000	0	24,096	25,012	0		265,000	36,772	0	0	29,400
20 0.		1.3 3.2		1 22.5	24.1	70,592	17	4,632	75,224	4,040	0	318,000	144,000	44	24,096	0	0	36,000 2	265,000	0	0	0	0
21 0.	0.00	1.3 3.2	2 17.4	4 24.1	24.0	70,860	41	4,632	75,492	4,040	0	367,000	144,000	44	24,096	39,197	0	36,000 2	265,000	30,258	0	0	24,200
22 0.	0.00	0.9 3.2	2 9.0	0 23.9	24.5	74,919	37	5,259	80,178	4,515	0	394,000	144,000	110	20,542	57,963	0	21,000 2	265,000	0	0	0	100
23 0.	0.00	1.5 3.2	2 24.0	21.5	24.6	78,648	34	6,324	84,972	4,790	0	389,000	144,000	42,181	21,356	33,351	0	40,000	265,000	38,357	0	0	68,600
24 0.	0.08	1.1 3.2	2 21.6	5 21.0	24.5	77,694	0	4,609	82,303	4,454	0	374,000	144,000	52,681	20,502	66,468	0	28,000 2	265,000	0	0	0	47,400
25 0.	0.00	1.5 3.2	18.8	8 21.1	24.2	77,372	34	5,142	82,514	2,903	0	358,000	144,000	22,230	25,564	47,585	0	40,000	265,000	0	0	0	20,000
26 0.	0.00	1.9 3.2	2 18.6	9.61 8	24.2	70,113	37	5,513	75,626	3,455	0	322,000	144,000	49,735	23,564	39,557	0	57,000 2	265,000	58,535	0	0	91,600
27 0.	0.00	1.8 3.2	2 16.2	21.0	24.0	70,882	34	11,120	82,002	4,291	0	309,000	144,000	50,364	23,564	0	0	52,000 2	265,000	0	0	0	45,300
28 0.	0.00	1.6 3.2	13.8	8 22.4	23.9	70,032	34	11,120	81,152	4,291	0	297,000	144,000	50,364	23,564	72,706	0	44,000	265,000	0	0	0	45,300
29 0.	0.00	1.8 3.2	2 9.0	0 18.3	24.1	68,447	33	3,154	71,601	2,918	0	233,000	144,000	47,007	23,424	956'06	0	52,000 2	265,000	33,247	0	0	006'89
30 0:	0.00	1.4 3.1	19.8	8 21.4	24.3	73,680	0	4,090	77,770	3,895	0	166,000	144,000	49,926	22,834	65,371	0	36,000 2	254,000	0	0	0	44,900
31 0.	0.00	1.8 3.1	1 15.0	24.2	24.9	80,026	88	5,236	85,262	4,021	0	144,000	144,000	33,595	21,148	71,351	0	52,000 2	254,000	19,445	0	0	45,800
	3.00					2,360,014	839	184,958	2,544,972	186,843	260			1,108,913	573,348	1,305,276	0			374,378	0	0	1,297,400
Daily Average		1.3 3.2	18.1	1 22.9	24.3	76,129						241,387	146,774				0	35,955 2	264,710	12,077	0	0	41,852
Mo. Average																							
Notes:		1	1	1	1		1		, 	1	1	1		1	1	1	1	1]]]	

WR = Not Records, NA = Not Available.

Values in bold are estimated, whose in tailor are substitute for missing data and are based on averaged values.

Values in bold are estimated, whose in tailor total by the actual days measured in the month.

Morthly average calculated by dividing the total by the actual days measured in the month.

Morthly average calculated by dividing the total by the number of days of the month.

Column II. Trace is its total not for incises and is not incubach in total.

Column VI is recorded from the pressure liquid level sensor in CO2-1.
 Column VII seconded from the pressure liquid elvel sensor in MPI 22.
 Column XI, Section 78 leak detection purpost into Section 7 bachains sump riser.
 Column XIV and XV, calculated from depth in 575 (00 gal tanks).
 Column WIM, WAYAR, A Selvel and XXIV XXVQ quantities from the meets.
 Column XIV and AXV, exhibited from the bit in the meets.
 Column XIV and AXV and XIV AXVIV quantities from the meets.

MONTH/YEAR

TABLE 2. FIELD DATA ENTRY FORM

March 2022
SOUTHEAST COUNTY LANDFILL, HILLSBOROUGH COUNTY, FLORIDA

Т	Effluent	(Snraved)	(gal)																																0
S	100	Hanled	(gal.)																																
×	Leachate	(Sprayed)	(gal.)																																
0	T 1	Hanled	(gal.)	94,592	73,673	60,841	35,552	13,805	0	14,855	29,335	35,927	43,389	43,311	28,873	0	50,682	21,155	33,563	60,954	55,252	25,012	0	39,197	57,963	33,351	66,468	47,585	39,557	0	72,706	96,956	65,371	71,351	1,305,276
Ъ	Leachate	at LTRF	(gal.)	21,612	15,528	9,920	9,920	5,608	5,608	5,608	12,264	13,806	15,116	18,600	20,180	20,180	20,180	17,700	20,726	25,088	17,354	24,096	24,096	24,096	20,542	21,356	20,502	25,564	23,564	23,564	23,564	23,424	22,834	21,148	573,348
0	Depth in	Fffnent	(ft.)	8.17	4.67	4.58	4.50	4.50	5.59	6.67	4.67	4.67	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	
z	Depth in	J.J.N. Lallik Leachate	(ft.)	5.33	6.33	5.08	4.17	3.58	4.67	5.75	29.9	7.67	7.33	7.58	7.25	7.63	8.00	8.25	9.33	51.6	29.8	9.33	11.04	12.75	13.67	13.50	13.00	12.42	11.17	10.75	10.33	80.8	5.75	5.00	
M	Effluent	Spray	(gal.)	0	19,581	0	0	39,928	0	0	0	0	30,828	0	0	0	0	24,494	0	0	42,933	36,772	0	30,258	0	38,357	0	0	58,535	0	0	33,247	0	19,445	374,378
L	-	Polid A	(ft.)	8.0	1.1	1.0	1.3	1.6	0.0	0.0	6.0	1.3	1.5	1.1	1.4	1.7	1.9	1.3	1.4	1.8	1.6	1.3	1.3	1.3	6.0	1.5	1.1	1.5	1.9	1.8	1.6	1.8	1.4	1.8	
Ж	d 7	Denth	(ft.)	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.1	3.2	3.2	3.2	3.2	3.2	3.2	3.3	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.1	3.1	
Ŀ		L FF	(gal.)	7,966,925	8,018,615	8,070,727	8,120,542	8,177,377	8,223,366	8,269,354	8,286,762	8,325,930	8,349,290	8,392,987	8,442,257	8,466,454	8,490,651	8,537,193	8,558,831	8,604,252	8,638,087	8,638,087	8,638,131	8,638,175	8,638,285	8,680,466	8,733,147	8,755,377	8,805,112	8,855,476	8,905,839	8,952,846	9,002,772	9,036,367	
_	AT DO 1.	Pond B	(gal.)	5,349,722	5,407,025	5,465,951	5,512,547	5,571,867	5,626,145	5,680,423	5,705,323	5,726,199	5,764,187	5,796,762	5,858,230	5,886,499	5,914,767	5,950,902	5,980,076	5,998,154	6,045,555	6,045,555	6,046,260	6,046,964	6,046,964	6,085,996	6,144,735	6,179,112	6,218,279	6,466,537	6,714,795	6,377,209	6,430,185	6,466,139	
Н	0	sections /-o	(gal.)	7,446	7,477	7,507	7,507	7,544	7,578	7,611	7,646	7,646	7,683	7,717	7,751	7,780	7,809	7,809	7,845	7,876	7,906	7,939	7,956	7,972	8,009	8,043	8,043	8,077	8,114	8,148	8,182	8,215	8,215	8,253	
Ŋ	0		(gal.)	6,547,854	6,553,622	6,559,223	6,564,396	965'695'9	6,574,887	6,580,178	6,587,431	6,604,822	6,610,510	6,616,414	6,622,219	6,626,139	6,630,059	6,635,882	6,641,089	6,646,846	6,652,499	6,656,444	6,661,076	6,665,708	6,670,967	6,677,291	6,681,900	6,687,042	6,692,555	6,703,675	6,714,795	6,717,949	6,722,039	6,727,275	
ĹĽ		Section 9	(gal.)	47,396	47,396	47,396	47,396	47,401	47,401	47,401	47,401	47,401	47,401	47,401	47,656	47,656	47,656	47,656	47,656	47,656	47,656	47,656	47,656	47,656	47,656	47,656	47,656	47,656	47,656	47,656	47,656	47,656	47,656	47,656	
E	.,	Pumps	(gal.)	2,990,270	2,998,978	3,005,978	3,015,968	3,019,082	3,034,449	3,049,815	3,063,616	3,069,908	3,076,747	3,077,915	3,094,331	3,094,759	3,095,187	3,104,165	3,109,887	3,114,407	3,119,030	3,122,420	3,126,460	3,130,499	3,135,014	3,139,804	3,144,258	3,147,161	3,150,616	3,154,907	3,159,198	3,162,116	3,166,011	3,170,032	
D		PS-B	(in.)	23.4	21.0	21.6	21.0	28.2	23.1	18.0	21.0	14.4	16.8	21.0	12.6	16.2	19.8	18.6	24.0	17.4	13.8	10.8	14.1	17.4	0.6	24.0	21.6	18.8	18.6	16.2	13.8	0.6	19.8	15.0	
C	7,7	Primp Sta A	(gal.)	29,512,978	29,568,222	29,625,692	29,681,926	29,741,904	29,795,483	29,849,062	29,909,214	29,969,538	30,029,654	30,087,202	30,153,510	30,202,036	30,250,562	30,302,792	30,361,210	30,421,064	30,480,862	30,531,174	30,583,024	30,634,874	30,687,300	30,744,024	30,800,406	30,859,402	30,911,610	30,964,587	31,017,564	31,067,488	31,119,414	31,176,946	
В		Rainfall	(in.)	H			0.00	0.00	0.00	0.22	0.28	0.00	0.17	0.00	0.37	0.03	0.00	1.73	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	80.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.00
Ą			Day	1	2	3	4	5	9	7	8	6	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	56	27	28	56	30	31	Totals

- NR = No Records, NA = Not Available. Values in italic are substitute for missing data and are based on averaged values Columns G and I include quantities from leak detection system.

ſ	6					
	Section 7-9	acres	0	34.5	0	0
	Phases I-VI	acres	5	134.4	23	0
	Type of Cover	The or court	Open	Intermediate	Final	Not Opened

<u> </u>	
than (,
ess	
trace 18	
'n,	
Column B, trace is less than 0.01 inches.	
4.	

5. Columns C- K, N, and Q-U are quantities from flow meters.

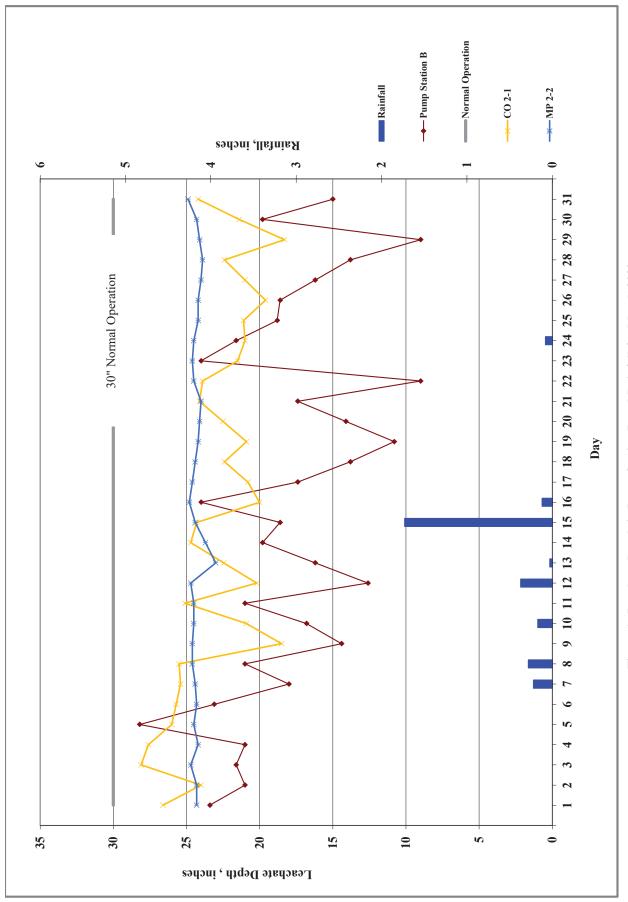


Figure 1. Leachate Levels in Pump Station B and Rainfall for March 2022.

TABLE 3. LEACHATE BALANCE SUMMARY SOUTHEAST COUNTY LANDFILL HILLSBOROUGH COUNTY, FLORIDA YEAR-2022

Month (in) (in) <t< th=""><th></th><th></th><th></th><th>Leachate Arr</th><th>Leachate Arriving at LTRF</th><th></th><th>Leach</th><th>Leachate Leaving LTRF</th><th>Æ</th><th>LEF</th><th></th><th>Effluent Disposal</th><th></th><th>Inflo</th><th>Inflow / Outflow For L</th></t<>				Leachate Arr	Leachate Arriving at LTRF		Leach	Leachate Leaving LTRF	Æ	LEF		Effluent Disposal		Inflo	Inflow / Outflow For L
Rainfall from LFG from Section 9 from Phases I-VI Hauled Dust Control Treated at CS-I Pumped to LTRF from Phases I-VI Hauled Dust Control Treated at LTFF LEF (in.) (gal.)			Condensate	Leachate	Leachate	Leachate	Total Leachate	Leachate	Leachate	Leachate	Total	Effluent	Effluent	Total Inflow	Total Outflow
(iii) (gal.) (ga		Rainfall	from LFG	from Section 9	from Section 7-8	from Phases I-VI	Hauled	Dust Control	Treated at	Treated at	Effluent	Dust Control	Irrigation	to	from
(in.) (gal.) (gal.) </th <th></th> <th></th> <th>CS-1</th> <th>Pumped to LTRF</th> <th>Pumped to LTRF</th> <th>Pumped to</th> <th>from LTRF</th> <th>(Sprayed)</th> <th>LTRF</th> <th>LEF</th> <th>Hauled</th> <th>(Sprayed)</th> <th></th> <th>LTRF</th> <th>LTRF</th>			CS-1	Pumped to LTRF	Pumped to LTRF	Pumped to	from LTRF	(Sprayed)	LTRF	LEF	Hauled	(Sprayed)		LTRF	LTRF
1.94 117 267,905 237,637 2,946,654 1,665,014 0 310,423 0.60 70 207,603 171,218 2,282,000 1,658,498 0 390,783 3.00 272 187,103 184,958 2,360,014 1,305,276 0 573,348 1	Month	(in.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)	(gal.)
0.60 70 207,603 171,218 2,282,000 1,658,498 0 390,783 3.00 272 187,103 184,958 2,360,014 1,305,276 0 573,348 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20	January	1.94	177		237,637	2,946,654	1,665,014	0	310,423	1,281,386	0	0	327,064	3,452,373	3,256,823
3.00 272 187,103 184,958 2,360,014 1,305,276 0 573,348	February	09.0	70		171,218		1,658,498	0	390,783	1,024,398	0	0	39,931	2,660,891	3,073,679
April May 1 me 1 me <td< td=""><td>March</td><td>3.00</td><td>272</td><td></td><td></td><td>2,360,014</td><td>1,305,276</td><td>0</td><td>573,348</td><td>1,108,913</td><td>0</td><td>0</td><td>374,378</td><td>2,732,347</td><td>2,987,537</td></td<>	March	3.00	272			2,360,014	1,305,276	0	573,348	1,108,913	0	0	374,378	2,732,347	2,987,537
May June Inly	April														
July August Cotober Co	May		_												
July August August August September October August August November November August August December ATD Total August August	June														
August August August September October Cotober November December Cotober December Cotober Cotober	July														
September Coctober	August														
October November December	September														
November December The company of the	October														
December Dec	November														
YTD Total	December														
YTD Total															
The state of the s	YTD Total														

If the bypass at the effluent pond is ever used to pump effluent back to the LTRF, this table must be modified.
 Change in storage represents total inflow to LTRF minus total outflow from LTRF.