

Smith, George

From: Joshua L. Younce <Joshua.Younce@citrusbocc.com>
Sent: Wednesday, October 6, 2021 10:19 AM
To: SWD_Waste; Morgan, Steve; Black, Alexis
Cc: Henry C. Norris; Dan S. Sherlock
Subject: 3rd Quarter Leachate Report
Attachments: 3rd Quarter Leachate Report 2021.pdf

EXTERNAL MESSAGE

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Dear Mr. Morgan:

Attached you'll find the Leachate Generation and Daily Precipitation Report for the 3rd Quarter of 2021 for the Citrus County Central Landfill.

Should you have any questions regarding this matter, please do not hesitate to contact me.

Regards,

Joshua Younce

Compliance Manager
Citrus County Solid Waste Management Division
230 W. Gulf to Lake Hwy.
Lecanto, FL. 34461
Office: (352) 527-7679
Joshua.Younce@citrusbocc.com



**Board of County Commissioners
DEPARTMENT OF PUBLIC WORKS
SOLID WASTE MANAGEMENT DIVISION**

P.O. Box 340, Lecanto, Florida 34460

Telephone: (352) 527-7670 FAX: (352) 527-7672

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TDD Telephone: (352) 527-5303

Citrus Springs/Dunnellon/Inglis/Yankeetown area Toll Free (352) 489-2120

October 5, 2021

Mr. Steve Morgan
Air & Solid Waste Permitting Manager
Department of Environmental Protection
Solid Waste Section
13051 N Telecom Pkwy
Temple Terrace, FL 33637-0926

**Re: Citrus County Central Landfill - Permit No. 21375-025-SO-01/027-SO-MM
2021 3rd Quarter Leachate Generation and Daily Precipitation Report
WACS I.D. # 39859**

Dear Mr. Morgan:

In compliance with Specific Condition K.8.b, of the above referenced permit, enclosed please find the Quarterly Leachate Generation and Daily Precipitation Report for the 3rd quarter of 2021.

Phase 3 had exceedances on 7/6/21, 7/7/21, 7/9/21, 7/12/21, 7/13/21, 8/18/21, & 8/23/21.

In July, we had 14.6 inches of rain followed by 18.4 inches of rain in the month of August. Following these heavy rain events, Citrus County Commissioners declared a local state of emergency on 9/28/21 due to flooding Citrus County has had over the past couple of months. We correlate the excessive amount of rainfall and flooding to the exceedances that have occurred.

Due to age and corrosion the Master Lift Station pipes and valves were replaced with new components on 08/11/21. Additionally, the lift station being offline for repairs likely attributed to exceedances that occurred on 8/18, 8/23. The Phase 2 control panel build is nearing completion and tentative scheduled to begin install process on 10/28/21.

If you should need additional information, please let me know.

Sincerely,

Henry C. Norris Jr.
Solid Waste Management Director

Enclosures (3)

CITRUS COUNTY CENTRAL LANDFILL

DATE	DAY	RAIN IN INCHES	PHASE 1 AND 1A			PHASE 2			PHASE 3			7 ACRE			TOTAL	Force Main Flow					
			80-1 (S) LS METER	80-2 (P) LS METER	Primary 80-1 (P) FLOW GAL	80-2 (P) LS METER	Primary 80-2 (P) FLOW GAL	80-3 (S) LS METER	Primary 80-3 (S) FLOW GAL	80 (P-1) LS METER	Primary 80 (P-1) FLOW GAL	80 (P-2) LS METER	Secondary 80 (P-2) FLOW GAL	LIFT STATION #5 (P)		LIFT STATION FLOW GAL	2, 3 MASTER LIFT STATION	LEACHATE FORCE MAIN METER	FORCE MAIN FLOW GAL		
07/01/21	Thu	1.00	123948	53	8073786	1402	11210937	402	11729201	3575	108531	0	36370691	6105	1421231	500	4191971	0	12037	11135	32
07/02/21	Fri	0.40	124001	33	8075188	903	1211339	532	11732776	2253	108531	0	36376796	6684	1421731	625	4191971	277	11307	11167	25
07/03/21	Sat	0.00	124034	33	8078091	903	1211871	532	11735029	2253	108531	0	36383480	6684	1422348	625	4192248	277	11307	11192	25
07/04/21	Sun	0.00	124067	33	8078994	903	1212403	532	11737282	2253	108531	0	36390164	6684	1422981	625	4192525	277	11307	11217	25
07/05/21	Mon	0.00	124100	34	8077897	904	1212935	532	11739535	2435	108531	35	36396948	6687	1423606	627	4192802	280	11534	11242	28
07/06/21	Tue	3.00	124134	34	8078801	854	1213467	715	11741970	2614	108566	0	36403535	6617	1424233	744	4193082	329	11907	11270	22
07/07/21	Wed	0.00	124168	35	8079655	854	1214182	716	11744584	2614	108566	398	36410152	6617	1424977	745	4193411	329	12308	11292	23
07/08/21	Thu	0.00	124203	22	8080509	185	1214898	854	11747198	1802	108964	0	36416769	7884	1425272	507	4193740	0	11254	11315	39
07/09/21	Fri	3.70	124252	27	8080684	1362	1215752	428	11749000	3639	108964	1	36424653	6711	1426229	765	4193740	330	13263	11354	20
07/10/21	Sat	0.00	124284	33	8082056	1573	1216180	622	11752639	2681	108965	0	36431364	7280	1426994	616	4194070	218	13022	11374	17
07/11/21	Sun	0.00	124317	67	8083629	1574	1216802	623	11755320	2681	108965	0	36438644	7280	1427610	616	4194288	219	13026	11391	18
07/12/21	Mon	0.50	124351	67	8085203	1031	1217425	401	11758001	1744	108965	33	36445924	7481	1428226	753	4194507	330	11840	11409	28
07/13/21	Tue	0.00	124384	24	8086234	2313	1217826	780	11759745	3420	108998	0	36453405	6262	1428979	738	4194837	0	13537	11437	15
07/14/21	Wed	0.00	124408	32	8088547	2237	1218606	406	11763165	1661	108998	33	36459667	7511	1429717	246	4194837	0	12146	11452	17
07/15/21	Thu	0.00	124440	30	8090784	1610	1219012	946	11764846	1674	109031	8	36467178	6939	1429963	107	4194837	441	11755	11469	21
07/16/21	Fri	0.00	124470	15	8092394	1811	1219958	907	11766520	1707	109039	0	36474117	2765	1430070	157	4195278	334	7696	11490	11
07/17/21	Sat	0.00	124485	36	8094205	1964	1220865	620	11768227	2555	109039	0	36476882	5743	1430227	286	4195612	0	11204	11501	13
07/18/21	Sun	1.20	124521	37	8096169	1965	1221485	621	11770782	2556	109039	0	36482625	5744	1430513	287	4195612	0	11210	11514	14
07/19/21	Mon	0.00	124558	43	8098134	896	1222106	413	11773338	3570	109039	148	36488369	5460	1430800	0	4195612	331	10861	11528	11
07/20/21	Tue	0.00	124601	28	8099030	396	1222519	410	11776908	1704	109187	5	36493829	4561	1430800	249	4195943	0	7353	11539	20
07/21/21	Wed	0.00	124629	29	8099426	1272	1222929	855	11778612	3395	109192	10	36498390	6429	1431049	251	4195943	448	12687	11559	21
07/22/21	Thu	0.00	124658	11	8100698	711	1223784	410	11782007	1804	109202	20	36504819	4244	1431300	0	4196389	0	7200	11580	13
07/23/21	Fri	1.00	124669	33	8101409	907	1224194	420	11783811	1821	109222	59	36509063	5373	1431300	278	4196389	334	9225	11593	20
07/24/21	Sat	2.00	124702	27	8102316	962	1224614	714	11785632	2698	109281	0	36514436	6202	1431578	255	4196723	169	11027	11613	14
07/25/21	Sun	0.00	124729	27	8103278	963	1225328	715	11788330	2698	109281	0	36520638	6203	1431833	255	4196892	170	11031	11627	14
07/26/21	Mon	0.00	124756	12	8104241	557	1226043	503	11791028	1745	109281	31	36526641	4352	1432088	252	4197062	443	7895	11641	24
07/27/21	Tue	0.00	124768	21	8104798	313	1226546	906	11792773	1954	109312	2	36531193	6794	1432340	272	4197505	0	10222	11665	9
07/28/21	Wed	0.00	124789	41	8105111	1693	1227452	431	11794727	2149	109314	2	36537947	5989	1432612	279	4197505	325	10909	11674	13
07/29/21	Thu	0.70	124830	26	8106804	1247	1227983	422	11796876	1077	109316	3	36543936	4064	1432891	0	4197830	0	6839	11687	11
07/30/21	Fri	0.00	124856	19	8108051	1051	1228305	721	11797953	1796	109319	6	36548000	5436	1432891	260	4197830	263	9552	11698	11
07/31/21	Sat	0.00	124875	19	8109102	1051	1229026	721	11799749	1796	109325	0	36553436	5436	1433151	260	4198093	260	9543	11709	11
08/01/21	Sun	1.10	124894		8110153		1229747	11801545		72344	109325		36558872	188181	1433411		4198353		6382	11720	11
TOTAL		14.60		946		36367	18810	11801545	72344	72344	188181	794	188181	12180	6382	12180	6382		585		585

Leakage Action Rates:
Phase 1/1A - 930 gpd
Phase 2 - 600 gpd
Phase 3 - 680 gpd
Total 1,719

Start Leachate in Storage

End Leachate in Storage

107,865
GALLONS

103,635
GALLONS

REVIEWED BY

HENRY

10/05/2021
Shared/
Leachate Files

Leachate Flow.2021.xls
July

CITRUS COUNTY CENTRAL LANDFILL

DATE	DAY	RAIN IN INCHES	PHASE 1 AND 1A			PHASE 2			PHASE 3			7 ACRE		TOTAL	Force Main Flow						
			80-1 (S) LS METER	Secondary 80-1 (S) FLOW GAL	80-2 (P) LS METER	Primary 80-2 (P) FLOW GAL	80-1 (P) LS METER	80-2 (P) LS METER	Primary 80-2 (P) FLOW GAL	80-3 (S) LS METER	Secondary 80-3 (S) FLOW GAL	80 (P-1) LS METER	Primary 80 (P-1) FLOW GAL		80 (P-2) LS METER	Secondary 80 (P-2) FLOW GAL	LIFT STATION #5 (P) METER	LIFT STATION FLOW GAL	2, 3, MASTER LIFT STATION	LEACHATE FORCE MAIN METER	FORCE MAIN FLOW GAL
08/01/21	Sun	1.10	124894	20	8110153	1053	1229747	721	11801545	1798	109325	0	36558872	5436	1433411	262	4198353	266	9556	11720	13
08/02/21	Mon	0.00	124914	41	8111206	1357	1230468	869	11803343	2232	109325	0	36564308	5859	1433673	236	4198619	333	10927	11733	36
08/03/21	Tue	4.00	124955	45	8112563	1598	1231337	857	11805575	2226	109325	8	36570167	6404	1433909	251	4198952	0	11389	11769	37
08/04/21	Wed	1.00	125000	45	8114161	3462	1232194	892	11807801	2258	109333	0	36576571	7189	1434160	539	4198952	781	15166	11806	40
08/05/21	Thu	3.50	125045	60	8117623	1478	1233086	875	11810059	2230	109333	0	36583760	7787	1434699	537	4199733	0	12967	11846	25
08/06/21	Fri	0.20	125101	31	8119101	2703	1233961	942	11812289	2284	109333	15	36591547	7368	1435236	496	4199733	334	14173	11871	35
08/07/21	Sat	0.70	125136	27	8121804	1736	1234903	1204	11814573	2236	109348	0	36598915	7411	1435732	264	4200067	0	12878	11906	14
08/08/21	Sun	0.00	125163	47	8123540	1737	1236107	824	11816809	2237	109348	0	36606326	7411	1435996	265	4200067	0	12881	11920	15
08/09/21	Mon	0.00	125190	20	8125277	985	1237311	882	11819046	2258	109348	0	36613737	7390	1436261	260	4200067	784	12599	11935	29
08/10/21	Tue	1.00	125230	31	8126262	1938	1238193	900	11821304	2277	109348	1	36621127	6721	1436521	263	4200067	0	12131	11964	14
08/11/21	Wed	0.00	125261	22	8128200	1361	1239093	1001	11823581	3378	109349	0	36627848	6429	1436784	257	4200067	0	12448	11978	0
08/12/21	Thu	0.00	125283	27	8129561	4231	1240094	1176	11826959	2847	109349	22	36634277	5833	1437041	392	4200067	0	14528	11978	0
08/13/21	Fri	0.00	125310	47	8133792	3327	1241270	1022	11829806	3395	109371	27	36640110	5916	1437433	358	4200067	328	14420	11978	0
08/14/21	Sat	1.00	125367	35	8137119	2792	1242292	1123	11833201	3070	109398	45	36646026	6817	1437791	563	4201179	390	14835	11978	0
08/15/21	Sun	0.20	125392	36	8139911	2793	1243415	1123	11836271	3070	109443	46	36652843	6817	1438354	564	4201569	391	14840	11978	0
08/16/21	Mon	0.00	125428	17	8142704	2188	1244538	1099	11839341	2820	109489	42	36659660	7609	1438918	615	4201960	330	14720	11978	0
08/17/21	Sat	0.50	125445	14	8144892	1569	1245637	1451	11842161	2496	109531	47	36667269	6565	1439533	526	4202290	0	12668	11978	50
08/18/21	Wed	0.00	125459	13	8146461	2808	1247088	2040	11844657	2939	109578	72	36673834	7187	1440059	797	4202290	343	16199	12028	0
08/19/21	Thu	0.20	125472	28	8149269	2006	1249128	764	11847596	1225	109650	16	36681021	297	1440856	19	4202633	439	4794	12028	10
08/20/21	Fri	1.40	125500	29	8151275	840	1249892	451	11848821	1	109666	0	36681318	0	1440875	431	4203072	0	1752	12038	2
08/21/21	Sat	1.40	125529	15	8152115	1548	1250343	987	11848822	0	109666	0	36681318	0	1441306	3	4203072	0	2553	12040	0
08/22/21	Sun	0.00	125544	15	8153663	548	1251330	987	11848822	0	109666	0	36681318	0	1441309	3	4203072	0	1553	12040	0
08/23/21	Mon	0.00	125589	27	8154211	41	1252317	7003	11848822	4693	109666	177	36681318	21600	1441312	2078	4203072	631	36250	12049	12
08/24/21	Tue	0.00	125614	28	8154252	0	1259320	228	11853515	88	109843	2	36702918	14606	1443390	0	4203703	0	258	12061	33
08/25/21	Wed	0.00	125641	27	8154252	2893	1259548	5749	11853515	88	109843	11	36702918	14606	1443390	527	4203703	436	24337	12094	33
08/26/21	Thu	0.10	125641	13	8157145	700	1265297	147	11853603	6	109856	3	36717524	327	1443917	50	4204139	0	1246	12127	11
08/27/21	Fri	0.00	125654	18	8157845	1457	1265444	1823	11853609	2739	109859	6	36717851	9416	1443967	225	4204139	126	15810	12138	12
08/28/21	Sat	0.00	125672	18	8159302	1457	1267267	1823	11856348	2739	109859	0	36727267	9416	1444192	225	4204265	126	15804	12150	12
08/29/21	Sun	0.00	125690	18	8160759	1461	1269090	1824	11859087	2739	109865	0	36736683	9416	1444417	225	4204391	128	15811	12162	12
08/30/21	Mon	0.00	125708	17	8162220	1974	1270914	1003	11861826	3584	109865	49	36746099	7738	1444642	292	4204519	779	15436	12174	21
08/31/21	Tue	0.00	125725	36	8164194	2085	1271917	923	11865410	2433	109914	51	36753837	7011	1444934	283	4205298	0	12822	12195	37
09/01/21	Wed	3.50	125761	867	8166279	56126	1272840	11867843	43093	66298	109965	640	36760848	201976	1445217	11806	4205298	6945	12232	12232	512
TOTAL		18.40																			

Leachate Action Rates:
Phase 1/1A - 930 gpd
Phase 2 - 600 gpd
Phase 3 - 680 gpd
Total 1,719

Start Leachate in Storage **103,635** GALLONS

End Leachate in Storage **118,440** GALLONS



REVIEWED BY HENRY

10/05/2021
Shared/
Leachate Files

CITRUS COUNTY CENTRAL LANDFILL

DATE	DAY	RAIN IN INCHES	PHASE 1 AND 1A			PHASE 2				PHASE 3				7 ACRE			TOTAL		Force Main Flow			
			80-1 (S) LS METER	Secondary 80-1 (S) FLOW GAL	80-2 (P) LS METER	Primary 80-2 (P) FLOW GAL	80-1 (P) LS METER	Primary 80-1 (P) FLOW GAL	80-2 (P) LS METER	Primary 80-2 (P) FLOW GAL	80-3 (S) LS METER	Secondary 80-3 (S) FLOW GAL	80 (P-1) LS METER	Primary 80 (P-1) FLOW GAL	80 (P-2) LS METER	Secondary 80 (P-2) FLOW GAL	LIFT STATION #5 (P) METER	LIFT STATION FLOW GAL	MASTER LIFT STATION	2, 3, LIFT STATION	LEACHATE FORCE MAIN METER	FORCE MAIN FLOW GAL
09/01/21	Wed	3.50	125761	49	8166279	464	1272840	914	11867843	1225	109965	4	36760848	6225	1445217	0	4205298	333	9214	12332	12	
09/02/21	Thu	1.00	125810	25	8166743	478	1273754	1237	11869068	2455	109969	0	36770703	7208	1445217	551	4205631	0	11949	12244	26	
09/03/21	Fri	0.10	125835	54	8167221	1315	1274991	536	11871520	2395	109969	0	36774279	5947	1445668	284	4205631	775	10856	12270	20	
09/04/21	Sat	0.00	125889	31	8168536	2029	1275527	1020	11873915	2016	109969	0	36779776	7044	1446052	366	4206406	0	12506	12290	11	
09/05/21	Sun	0.00	125920	31	8170565	2027	1276547	1020	11875931	2016	109969	0	36786820	7044	1446418	366	4206406	0	12504	12301	11	
09/06/21	Mon	0.10	125951	33	8172592	2033	1277567	1022	11877947	2017	109969	0	36793864	7045	1446784	366	4206406	0	12516	12312	11	
09/07/21	Tue	0.00	125984	29	8174625	1022	1278589	1765	11879964	2438	109969	0	36800909	7534	1447150	276	4206406	332	13396	12323	21	
09/08/21	Wed	1.00	126013	30	8175647	615	1280354	968	11882402	2487	109969	1	36808443	6582	1447426	268	4206738	439	11390	12344	14	
09/09/21	Thu	0.50	126043	35	8176262	0	1281322	461	11884889	1251	109970	0	36815025	6821	1447694	268	4207177	682	9250	12358	25	
09/10/21	Fri	0.80	126078	27	8176262	7	1281783	1244	11886140	2508	109970	1	36821846	5942	1447694	268	4207859	349	10346	12383	20	
09/11/21	Sat	0.00	126105	21	8176269	705	1283027	983	11888648	2336	109971	1	36827788	7026	1447962	288	4208208	342	11702	12403	11	
09/12/21	Sun	0.20	126126	21	8176974	706	1284010	983	11890984	2336	109972	0	36834814	7027	1448250	288	4208550	342	11703	12414	11	
09/13/21	Mon	0.00	126147	25	8177680	966	1284993	2250	11893320	1456	109972	0	36841841	9546	1448538	274	4208892	165	14682	12425	34	
09/14/21	Tue	0.40	126172	26	8178646	966	1287243	1110	11894776	2432	109972	0	36851387	6858	1448812	205	4209057	166	11763	12459	10	
09/15/21	Wed	0.20	126198	31	8179612	0	1288353	550	11897208	2493	109972	0	36868245	5139	1449017	0	4209223	346	8559	12469	23	
09/16/21	Thu	0.80	126229	24	8179612	2	1288903	1160	11899701	1249	109972	10	36866384	6626	1449017	269	4209569	338	9877	12492	23	
09/17/21	Fri	0.00	126253	21	8179614	0	1290063	776	11900950	2484	109982	0	36870209	6636	1449286	0	4209907	688	10605	12515	14	
09/18/21	Sat	0.20	126274	64	8179614	0	1290839	3201	11903434	4968	109982	2	36876845	14090	1449286	273	4210595	1479	24077	12529	39	
09/19/21	Sun	3.00	126338	20	8179614	0	1294040	626	11908402	623	109984	0	36890935	3773	1449559	135	4212074	173	5350	12568	15	
09/20/21	Mon	0.00	126358	20	8179614	0	1294666	627	11909025	624	109984	0	36894708	3774	1449694	136	4212247	174	5355	12583	15	
09/21/21	Tue	0.20	126378	35	8179614	0	1295293	1009	11909549	2487	109984	12	36898482	7169	1449830	275	4212421	349	11336	12598	20	
09/22/21	Wed	0.10	126413	37	8179614	365	1296302	985	11912136	2467	109996	88	36905851	7428	1450105	0	4212770	727	12097	12618	18	
09/23/21	Thu	0.00	126450	52	8179979	0	1297287	1458	11914603	2478	110084	136	36913079	6346	1450105	0	4213497	331	10801	12636	13	
09/24/21	Fri	0.00	126502	52	8179979	1463	1298745	1160	11917081	2052	110220	28	36919425	6892	1450105	187	4213828	0	11834	12649	12	
09/25/21	Sat	0.00	126554	52	8181442	1463	1299905	1160	11919133	2052	110248	28	36926317	6892	1450292	187	4213828	0	11834	12661	12	
09/26/21	Sun	0.00	126606	52	8182905	1463	1301065	1160	11921185	2052	110276	28	36933209	6892	1450479	187	4213828	0	11834	12673	12	
09/27/21	Mon	0.00	126658	69	8184368	1280	1302225	508	11923237	2446	110304	1	36940101	6558	1450666	1	4213828	743	11606	12685	11	
09/28/21	Tue	0.00	126727	81	8185648	4202	1302733	1276	11925683	2436	110305	29	36946659	6346	1450667	282	4214571	0	14652	12696	22	
09/29/21	Wed	0.00	126808	65	8189850	2836	1304009	906	11928119	1215	110334	47	36953005	6805	1450949	0	4214571	0	11874	12718	14	
09/30/21	Thu	0.00	126873	61	8192686	1427	1304915	214	11929334	2438	110361	0	36959810	6844	1450949	282	4214571	330	11596	12732	10	
10/01/21	Fri		126934		8194113		1305129		11931772		110381		36966654		1451231		4214901			12742		
TOTAL			13.10	1173	27834	32289	63929	416	205806	6014	9603	510										

Leakage Action Rates:
Phase 1/A - 930 gpd
Phase 2 - 600 gpd
Phase 3 - 680 gpd
Total 1,719

Start Leachate in Storage **118,440** GALLONS

End Leachate in Storage **103,635** GALLONS

