

Johnson, Sabrina O

From: Borderieux, Scott
Sent: Monday, October 7, 2019 1:33 PM
To: SWD_Waste
Subject: FW: 3rd Qtr 2019 Leachate Generation Rpt. Attached
Attachments: 3rd Qtr 2019 Leachate Generation Rpt.pdf

Scott Borderieux
Engineering Specialist
Compliance Assurance
Florida Department of Environmental
Protection -- Southwest District
13051 N. Telecom Pkwy Suite 101
Temple Terrace, FL 33637-0926
(813) 470-5758 (direct line)
(813) 470-5995 - fax
scott.borderieux@floridadep.gov

From: Henry C. Norris <Henry.Norris@citrusbocc.com>
Sent: Monday, October 7, 2019 1:27 PM
To: Madden, Melissa <Melissa.Madden@FloridaDEP.gov>; Borderieux, Scott <Scott.Borderieux@FloridaDEP.gov>; Morgan, Steve <Steve.Morgan@FloridaDEP.gov>
Subject: 3rd Qtr 2019 Leachate Generation Rpt. Attached

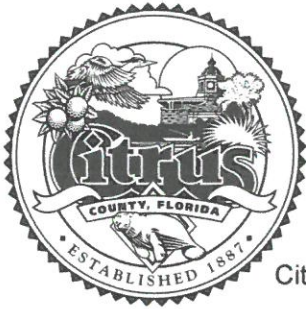
Please see 3rd Qtr 2019 Leachate report, let me know if you have any questions

Sincerely



Henry C Norris Jr
Solid Waste Division Director
Citrus County Board of County Commissioners
230 W. Gulf to Lake Hwy
Lecanto, FL 34461
352.527.7670

"Please Note: Florida has a very broad Public Records Law. Most written communications to or from State and Local Officials regarding State or Local business are public records available to the public and media upon request. Your email communications may therefore be subject to public disclosure."



**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

email: landfillinfo@citrusbocc.com

TDD Telephone: (352) 527-5303

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

October 4, 2019

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/018-01
2019 Third Quarter Leachate Generation and Daily Precipitation Report
WACS I.D. # 39859**

Dear Mr. Morgan:

In compliance with Specific Condition C.8.e.2, of the above referenced permit, enclosed please find the Quarterly Leachate Generation and Daily Precipitation Report for the third quarter of 2019.

Phase 3 had exceedances on 8/16, 8/17, and 8/18.

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

PHASE 1 AND 1A										PHASE 2										PHASE 3										7 ACRE				TOTAL		Force Main Flow	
DATE	DAY	RAIN IN INCHES	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 METER	LIFT STATION FLOW GAL	2, 3, MASTER LIFT STATION	LEACHATE FORCE MAIN METER	FORCE MAIN FLOW GAL																
08/01/19	Thu	2.20	49646	63	7126959	1	1583462	0	9431192	10746	91241	19	31979926	15760	1287970	206	4052906	0	26795	2305	30000																
08/02/19	Fri	0.00	49709	37	7126960	2	1583462	-2	9441938	7585	91260	13	31995666	13875	1286176	274	4052906	0	21784	2335	24000																
08/03/19	Sat	0.00	49746	36	7126962	2	1583460	-1	9449523	7584	91273	13	32009561	13875	1286450	273	4052906	0	21782	2359	24000																
08/04/19	Sun	0.50	49782	36	7126964	1	1583459	-1	9457107	7584	91286	13	32023436	13875	1286723	271	4052906	0	21779	2383	24000																
08/05/19	Mon	0.00	49818	28	7126965	3	1583458	-8	9464691	5819	91299	12	32037311	11999	1288994	285	4052906	0	18138	2407	22000																
08/06/19	Tue	1.80	49846	28	7126968	3	1583450	-9	9470510	5818	91311	11	32049310	11998	1288279	284	4052906	0	18133	2429	22000																
08/07/19	Wed	0.20	49874	33	7126971	0	1583441	-11	9476328	6494	91322	15	32061308	8056	1289563	212	4052906	0	14799	2451	29000																
08/08/19	Thu	0.20	49907	24	7126971	2	1583430	5	9482822	6517	91337	13	32069364	15975	1289775	371	4052906	1	22908	2480	31000																
08/09/19	Fri	0.00	49931	30	7126973	5	1583435	-1	9489339	6602	91350	13	32086339	16395	1290146	284	4052907	0	23338	2511	43000																
08/10/19	Sat	0.00	49961	24	7126978	3	1583434	-5	9495941	6005	91363	12	32101734	11443	1290440	287	4052907	0	17769	2554	18000																
08/11/19	Sun	0.00	49985	24	7126981	3	1583429	-5	9501946	6004	91375	11	32113177	11443	1290727	287	4052907	0	17767	2572	18000																
08/12/19	Mon	0.50	50009	28	7126984	6	1583424	4	9507950	4857	91386	11	32124620	6633	1291014	205	4052907	0	11738	2590	36000																
08/13/19	Tue	1.10	50037	38	7126984	6	1583438	9	9512807	5854	91397	12	32131253	13502	1291219	198	4052907	0	20542	2628	36000																
08/14/19	Wed	0.80	50075	43	7126990	0	1583437	8	9518661	6070	91409	13	32144755	14211	1291417	197	4052907	0	38646	2697	33000																
08/15/19	Thu	3.30	50118	49	7126990	0	1583445	0	9524731	6438	91422	14	32158966	14490	1291614	202	4052907	0	21193	2684	33000																
08/16/19	Fri	2.00	50167	78	7126990	0	1583445	-12	9531169	11052	91436	20	32173456	26622	1291816	886	4052907	0	36646	2697	157000																
08/17/19	Sat	0.00	50245	65	7126990	0	1583433	-8	9542221	9155	91456	22	32200078	22439	1292702	721	4052907	0	32390	2854	0																
08/18/19	Sun	0.40	50310	64	7126990	0	1583425	-9	9551376	9154	91478	22	32220017	22439	1293423	720	4052907	0	32390	2854	0																
08/19/19	Mon	0.20	50374	54	7126990	1	1583416	-6	9560530	10653	91500	39	32244956	16356	1294143	360	4052907	0	27457	2854	70000																
08/20/19	Tue	0.00	50428	33	7126991	1	1583410	36	9571183	8173	91539	42	32261312	10891	1294503	581	4052907	0	19757	2924	29000																
08/21/19	Wed	0.40	50461	29	7126992	2	1583446	23	9579356	8749	91581	45	32272203	13214	1295084	367	4052907	0	22429	2953	22000																
08/22/19	Thu	0.00	50490	21	7126994	4	1583469	3	9586105	8990	91626	50	32285417	14731	1295451	211	4052907	0	24010	2975	28000																
08/23/19	Fri	0.00	50511	115	7126998	2	1583472	57	9597095	6742	91676	21	32300148	7816	1295662	201	4052907	0	14954	3003	2000																
08/24/19	Sat	0.00	50526	45	7127000	6	1583529	26	9603837	6833	91697	29	32307964	10687	1295863	288	4052907	0	17915	3005	15000																
08/25/19	Sun	0.00	50671	45	7127006	5	1583555	26	9610670	6833	91726	28	32318661	10686	1296152	288	4052907	0	17911	3020	15000																
08/26/19	Mon	2.00	50716	66	7127011	3	1583581	50	9617503	7148	91754	28	32328337	11475	1296440	221	4052907	0	18991	3035	42000																
08/27/19	Tue	2.00	50782	57	7127014	0	1583631	-2	9624651	9362	91782	43	32340812	14882	1296661	584	4052907	1	24927	3077	1000																
08/28/19	Wed	0.50	50839	42	7127014	0	1583629	-64	9634013	9577	91825	54	32356684	22738	1297245	570	4052908	215	33132	3078	50000																
08/29/19	Thu	0.00	50881	48	7127014	3	1583565	0	9643590	8908	91879	47	32378432	19507	1297815	394	4053123	0	28907	3128	36000																
08/30/19	Fri	0.00	50929	30	7127017	1	1583565	24	9652498	6911	91926	31	32397939	12471	1298209	371	4053123	260	20099	3164	22000																
08/31/19	Sat	0.00	50959	40	7127018	5	1583589	0	9659409	7599	91957	31	32410410	12531	1298580	270	4053383	95	20571	3186	19000																
09/01/19	Sun		50999		7127023		1583589		9667008		91988		32422941	443015	1298850		4053478		572		3205	900000															
TOTAL		18.10		1353		64			127					235816																							

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

Start Leachate in Storage

99,405 GALLONS

End Leachate in Storage

50,760 GALLONS

REVIEWED BY
Henry C. Morris Jr.

CITRUS COUNTY CENTRAL LANDFILL

PHASE 1 AND 1A										PHASE 2										PHASE 3										7 ACRE		TOTAL	Force Main Flow	
DATE	DAY	INCHES	RAIN IN 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 METER	LIFT STATION FLOW GAL	2, 3, MASTER LIFT STATION	LEACHATE FORCE MAIN METER	FORCE MAIN FLOW GAL													
07/01/19	Mon	0.00	48213	17	7126926	0	1583975	-97	9233695	5512	90853	24	31561962	7220	1278984	22	4052904	0	12676	1655	11000													
07/02/19	Tue	0.10	48230	26	7126926	0	1583878	-1	9239207	4960	90877	32	31569182	6665	1278984	203	4052904	0	11905	1666	9000													
07/03/19	Wed	0.00	48256	79	7126926	0	1583877	-99	9244167	4291	90909	11	31575647	6780	1279207	96	4052904	0	11158	1675	11000													
07/04/19	Thu	0.50	48335	78	7126926	0	1583778	0	9248458	4291	90920	10	31582627	6780	1279303	96	4052904	0	11255	1686	10000													
07/05/19	Fri	1.50	48413	61	7126926	1	1583778	5	9252749	4853	90930	12	31589407	10867	1279399	197	4052904	1	15997	1696	18000													
07/06/19	Sat	0.00	48474	44	7126927	1	1583783	-42	9257602	5098	90942	6	31600274	14882	1279596	309	4052905	0	20298	1714	20000													
07/07/19	Sun	1.60	48518	44	7126928	0	1583741	-42	9262700	5097	90948	5	31615156	14882	1279905	308	4052905	0	20294	1734	20000													
07/08/19	Mon	0.30	48562	22	7126928	0	1583699	-9	9267797	5698	90953	12	31630038	12702	1280213	196	4052905	0	18621	1754	19000													
07/09/19	Tue	1.00	48584	35	7126928	0	1583690	-62	9273495	5922	90965	13	31642000	13048	1280409	406	4052905	0	19382	1773	19000													
07/10/19	Wed	0.60	48619	35	7126928	0	1583628	-15	9279417	5868	90978	13	31655788	12852	1280815	368	4052905	0	19121	1792	29000													
07/11/19	Thu	0.00	48654	46	7126928	0	1583613	-15	9285285	5868	90991	12	31668640	12851	1281183	368	4052905	0	19130	1821	15000													
07/12/19	Fri	3.20	48700	57	7126928	0	1583598	-12	9291153	6473	91003	12	31681491	17423	1281551	378	4052905	0	24331	1836	30000													
07/13/19	Sat	0.00	48757	30	7126928	0	1583586	-10	9297626	5989	91015	12	31698914	16834	1281929	308	4052905	0	23163	1866	22000													
07/14/19	Sun	0.00	48787	29	7126928	0	1583576	-10	9303615	5988	91027	12	31715748	16833	1282237	308	4052905	0	23160	1888	22000													
07/15/19	Mon	0.00	48816	32	7126928	2	1583566	-9	9309603	5706	91039	10	31732581	12918	1282545	63	4052905	0	18722	1910	45000													
07/16/19	Tue	0.00	48848	30	7126930	2	1583557	-9	9315309	5866	91049	12	31745499	12399	1282608	204	4052905	0	18464	1955	4000													
07/17/19	Wed	0.30	48878	56	7126932	1	1583548	-6	9321175	5810	91061	11	31757858	13121	1282812	206	4052905	0	19199	1959	26000													
07/18/19	Thu	0.00	48934	33	7126933	3	1583542	0	9326985	6291	91072	9	31770979	9065	1283018	122	4052905	1	15524	1985	16000													
07/19/19	Fri	0.20	48967	36	7126936	0	1583542	-32	9333276	6291	91072	9	31770979	9065	1283018	122	4052905	0	15524	1985	16000													
07/20/19	Sat	0.00	49003	62	7126936	1	1583510	-15	9337786	5502	91086	10	31789110	11969	1283610	102	4052906	0	14650	2001	11000													
07/21/19	Sun	0.80	49065	63	7126937	2	1583495	-15	9343288	5502	91096	9	31801079	11969	1283707	101	4052906	0	17631	2012	15000													
07/22/19	Mon	1.60	49128	40	7126939	1	1583480	12	9348790	4096	91105	8	31813048	6112	1283808	215	4052906	0	10484	2042	16000													
07/23/19	Tue	2.00	49168	45	7126940	8	1583492	0	9352886	6793	91113	11	31819160	14824	1284023	205	4052906	0	21886	2058	18000													
07/24/19	Wed	1.30	49213	71	7126948	0	1583492	1	9359679	8434	91124	14	31833984	17744	1284228	380	4052906	0	26644	2076	30000													
07/25/19	Thu	1.00	49284	63	7126948	0	1583493	-12	9368113	9109	91138	13	31851728	26042	1284608	603	4052906	0	35818	2106	31000													
07/26/19	Fri	0.50	49347	59	7126948	0	1583475	-6	9377222	8205	91151	14	31877770	16499	1285211	586	4052906	0	25367	2137	34000													
07/27/19	Sat	0.00	49406	50	7126948	0	1583475	1	9385427	9135	91165	14	31894269	19705	1285807	580	4052906	0	29485	2171	29000													
07/28/19	Sun	1.10	49456	49	7126948	0	1583476	0	9394562	9134	91179	14	31913974	19705	1286387	580	4052906	0	29482	2200	29000													
07/29/19	Mon	0.00	49505	39	7126948	1	1583476	-7	9403696	9229	91193	16	31933679	16426	1286967	205	4052906	0	25909	2229	28000													
07/30/19	Tue	0.20	49544	42	7126949	2	1583469	-11	9412925	9231	91209	19	31950105	15070	1287172	408	4052906	0	24761	2257	25000													
07/31/19	Wed	0.40	49586	60	7126951	8	1583458	4	9422156	9036	91228	13	31965175	14751	1287580	390	4052906	0	24262	2282	23000													
08/01/19	Thu		49646		7126959		1583462		9431192		91241		31979926	417964	1287970	8986	4052906			2305	650000													
TOTAL		18.20		1433		33		-513		197497		388		417964			8986		2															

Leachate Action Rates:

Phase 1/A - 830 gpd

Phase 2 - 600 gpd

Phase 3 - 680 gpd

Start Leachate in Storage

86,715
GALLONS

End Leachate in Storage

99,405
GALLONS

REVIEWED BY

Henry C. Morris Jr.

CITRUS COUNTY CENTRAL LANDFILL

		PHASE 1 AND 1A				PHASE 2				PHASE 3				7 ACRE		TOTAL	Force Main Flow					
DATE	DAY	RAIN IN INCHES	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 METER	LIFT STATION FLOW GAL	2, 3, MASTER LIFT	LEACHATE FORCE MAIN METER	FORCE MAIN FLOW GAL	
09/01/19	Sun	0.00	50999	39	7127023	5	1583569	18	9667008	7298	91988	30	32422941	12530	1298850	270	4053478	95	20285	20285	3205	3205
09/02/19	Mon	0.00	51038	39	7127028	5	1583607	18	9674306	7898	92018	30	32435471	12530	1299120	269	4053573	95	20884	20884	3223	18000
09/03/19	Tue	0.00	51077	34	7127033	7	1583625	18	9682204	5931	92048	25	32448001	10424	1299389	191	4053668	720	17350	17350	3241	16000
09/04/19	Wed	0.00	51111	11	7127040	10	1583643	18	9688135	1288	92073	5	32458425	9952	1299580	392	4054368	14	11690	3257	3257	0
09/05/19	Thu	0.00	51122	5	7127050	7	1583661	18	9689423	0	92078	0	32468377	11700	1299972	191	4054402	266	12187	3257	3257	0
09/06/19	Fri	0.00	51127	53	7127057	7	1583679	18	9689423	0	92078	0	32480017	18435	1300163	183	4054668	0	18668	3257	3257	0
09/07/19	Sat	0.00	51180	84	7127064	8	1583697	18	9689423	0	92078	0	32498512	6622	1300346	181	4054668	275	7188	3257	3257	0
09/08/19	Sun	0.00	51264	33	7127072	9	1583715	18	9689423	11415	92078	23	32505134	2807	1300527	184	4054943	269	3136	3257	3257	7000
09/09/19	Mon	0.00	51297	147	7127081	6	1583733	0	9689423	11415	92078	22	32507941	6134	1300527	184	4055212	0	17908	3302	3264	38000
09/10/19	Tue	0.00	51444	147	7127087	5	1583733	0	9700838	11415	92101	22	32514075	6134	1300711	183	4055212	0	17908	3302	3264	37000
09/11/19	Wed	0.00	51591	55	7127092	10	1583733	28	9712253	11840	92136	13	32520209	24581	1300894	204	4055212	471	36788	3339	3339	10000
09/12/19	Thu	0.00	51646	43	7127102	10	1583761	40	9724093	7719	92136	7	32544780	1482	1300894	204	4055483	434	9899	3372	3372	10000
09/13/19	Fri	0.00	51689	54	7127112	9	1583761	40	9731812	5223	92143	20	32546272	7997	1301098	102	4055917	290	5636	3382	3382	5000
09/14/19	Sat	0.00	51743	51	7127121	7	1583801	20	9737035	4917	92163	22	32546272	7997	1301098	102	4056207	132	13248	3387	3387	10000
09/15/19	Sun	0.00	51794	51	7127128	6	1583821	20	9741952	4917	92185	21	32554269	7996	1301200	102	4056339	132	13245	3397	3397	9000
09/16/19	Mon	0.00	51845	66	7127134	4	1583841	25	9746869	4852	92206	23	32564285	5472	1301302	205	4056471	304	10647	3406	3406	9000
09/17/19	Tue	0.00	51911	73	7127138	7	1583866	21	9751721	4461	92229	26	32567737	2977	1301507	195	4056471	304	8064	3415	3415	10000
09/18/19	Wed	0.30	51984	60	7127145	4	1583887	16	9756182	4407	92255	23	32567737	2977	1301702	185	4056775	108	13002	3425	3425	11000
09/19/19	Thu	0.00	52044	65	7127149	10	1583903	18	9760589	4180	92278	20	32579021	5515	1301887	198	4056775	108	10114	3436	3436	10000
09/20/19	Fri	0.00	52109	69	7127159	15	1583921	14	9764769	4088	92298	19	32584536	5328	1302085	198	4056883	161	9694	3446	3446	9000
09/21/19	Sat	0.00	52178	68	7127174	11	1583935	9	9768857	4157	92317	19	32589864	7113	1302085	292	4057044	353	12022	3455	3455	10000
09/22/19	Sun	0.00	52246	67	7127185	11	1583944	9	9773014	4156	92336	21	32596977	7113	1302377	291	4057397	353	12019	3465	3465	9000
09/23/19	Mon	0.00	52313	76	7127186	159	1583953	1	9777170	4651	92355	21	32604090	6982	1302668	200	4057750	287	12377	3474	3474	8000
09/24/19	Tue	0.00	52389	146	7127355	7	1583965	11	9781821	4012	92376	19	32611072	4877	1302868	205	4058037	269	9322	3482	3482	11000
09/25/19	Wed	0.00	52535	62	7127362	6	1583965	14	9785833	3908	92395	18	32615949	4840	1302868	205	4058037	269	9322	3493	3493	9000
09/26/19	Thu	0.00	52597	53	7127368	7	1583979	12	9789741	4245	92433	20	32620789	7248	1303073	196	4058306	288	8620	3502	3502	9000
09/27/19	Fri	0.00	52650	49	7127375	10	1583991	6	9793986	3421	92449	16	32628037	4830	1303266	105	4058306	288	8620	3511	3511	1000
09/28/19	Sat	0.00	52699	47	7127385	10	1583997	0	9797407	4076	92449	17	32632867	5518	1303269	105	4058594	353	10126	3512	3512	0
09/29/19	Sun	0.00	52746	47	7127395	9	1583997	0	9801483	4075	92466	17	32638385	5518	1303374	105	4058947	352	10123	3512	3512	0
09/30/19	Mon	0.00	52793	30	7127404	7	1583997	29	9805558	3196	92483	15	32643903	4353	1303479	0	4059299	0	7630	3512	3512	21000
10/01/19	Tue	0.00	52823	1824	7127411	388	1584026	437	9808754	141746	92498	510	32648256	4353	1303479	4629	4059299	5821	3533	3533	3533	328000

Leachate Action Rules:
Phase 1/A - 920 gpd
Phase 2 - 600 gpd
Phase 3 - 680 gpd
Total 1,719

Start Leachate in Storage

50,760
GALLONS

End Leachate in Storage

64,508
GALLONS

REVIEWED BY
Henry C. Norris Jr.