

Smith, George

From: Ray Oates <ray.oates@citrusbocc.com>
Sent: Thursday, January 11, 2018 9:34 AM
To: SWD_Waste
Cc: Henry C. Norris; LARRY J. BROCK; Troy D. Hays (thays@jonesedmunds.com)
Subject: Citrus County Central Landfill OP Permit #21375-025-SO-01
Attachments: Leachate Generation 4th Quarter 2017.pdf

Dear Ms. Kidwell:

Attached please find the 2017 Leachate Generation 4th Quarter Report for the Citrus County Central Landfill.

If you have any questions regarding this submittal. Please do not hesitate to contact me.

Ray Oates, PG
Solid Waste Compliance Manager
Citrus County Division of Solid Waste Management
230 W. Gulf to Lake Hwy
Lecanto, FL 34460
(352) 527-7670
(352) 527-7679 Direct #
(352) 527-7672 Fax
Ray.Oates@citrusbocc.com

CONFIDENTIALITY NOTICE: The contents of this email message and any attachments are intended solely for the addressee(s) and may contain confidential and/or privileged information and may be legally protected from disclosure. If you are not the intended recipient of this message or their agent, or if this message has been addressed to you in error, please immediately alert the sender by reply email and then delete this message and any attachments. If you are not the intended recipient, you are hereby notified that any use, dissemination, copying, or storage of this message or its attachments is strictly prohibited. Under Florida Law, e-mail addresses are public records. If you do not want your e-mail address released in response to a public-records request, do not send electronic mail to this entity. Instead, contact this office by phone or in writing.



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

January 10, 2018

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**
2017 Fourth Quarter Leachate Generation and Daily Precipitation Report
WACS I.D. # 39859

Dear Ms. Kidwell:

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 Fourth Quarter of 2017.

Phase 3 Secondary System exceedances occurred as follows:

- October 1, 2017, 850 gallons (permit allowance of 680 gallons) following 0.20-inches of rainfall.
- November 22-24, 2017; 949, 949 and 3,111 gallons following 4.6-inches of rainfall.

There were no exceedances during the month of December.

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

Sincerely

Henry C. Norris Jr.
Director, Citrus County Division of Solid Waste Management

HCN:ro
Enclosures

Submitted Electronically
SWD_Waste@dep
Addresses & cc
Date: 1/10/18
Initials ro

Scanned to E-Bridge
Date 1/10/18
Initials ro
Solid Waste Management

CC: Larry Brock, Interim Director, Department of Public Works (Electronic)
Troy Hays, Senior Manager/VP, Jones Edmunds & Associates – Gainesville Office (Electronic)

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 FLOW METER	Secondary 80-1 (S) FLOW GAL	80-2 (P) LS FLOW METER	Primary 80-2 (P) FLOW GAL	80-1 (P) LS FLOW METER	Primary 80-1 (P) FLOW GAL	80-2 (P) LS FLOW METER	Primary 80-3 (S) LS FLOW METER	Secondary 80-3 (S) FLOW GAL	80 (P-1) LS FLOW METER	Primary 80 (P-1) FLOW GAL	80 (P-2) LS FLOW METER	Secondary 80 (P-2) FLOW GAL	LIFT STATION # (P)	LIFT STATION FLOW GAL	2, 3, MASTER LIFT STATION	LEACHATE FORCE MAIN METER	FORCE MAIN FLOW GAL						
10/01/17	Sun	0.20	12167	50	5877490	6331	1592720	-96	4871492	18351	65531	587	27263154	10578	1104369	850	3901635	366	37037	15628	43000					
10/02/17	Mon	0.00	12217	77	5883821	1543	1592624	-80	4889843	17634	66118	539	27273732	1451	1105219	666	3902021	50	21880	15671	15000					
10/03/17	Tue	0.00	12294	73	5885364	9309	1592544	-80	4907477	20940	66657	475	27275183	501	1105885	661	3902071	234	32113	15686	24000					
10/04/17	Wed	0.00	12367	66	5894673	5090	1592464	5	4828417	12261	67132	516	27275684	45	1106546	445	3902305	40	18468	15710	13000					
10/05/17	Thu	0.20	12433	60	5899763	5450	1592469	-35	4940678	16570	67648	349	27275729	71	1106991	226	3902345	1036	23727	15723	17000					
10/06/17	Fri	0.00	12493	31	5905213	0	1592434	-11	4957248	14257	67997	374	27275800	23	1107217	443	3903381	-30	15087	15740	15000					
10/07/17	Sat	0.00	12524	35	5905213	924	1592423	-1	4971505	14232	68371	372	27275823	2	1107660	325	3903351	398	16287	15756	14000					
10/08/17	Sun	0.00	12559	34	5906137	923	1592422	-1	4985737	14232	68743	372	27275825	2	1107985	324	3903749	367	16253	15769	14000					
10/09/17	Mon	0.60	12593	37	5907060	8586	1592421	-24	4999969	12862	69115	374	27275827	102	1108309	213	3904116	0	22150	15783	13000					
10/10/17	Tue	0.00	12630	44	5915646	0	1592397	-9	5012831	12892	69489	368	27275929	6	1108522	212	3904116	314	13827	15796	9000					
10/11/17	Wed	0.00	12674	73	5915646	4831	1592388	-20	5025723	12835	69857	381	27275935	25	1108734	433	3904430	439	18997	15805	19000					
10/12/17	Thu	0.00	12747	61	5920477	8001	1592368	-7	5038558	12901	70238	200	27275960	81	1109167	213	3904869	0	21450	15824	18000					
10/13/17	Fri	0.00	12808	28	5928478	0	1592361	-7	5051459	10695	70438	184	27276041	6	1109380	214	3904869	291	11411	15842	10000					
10/14/17	Sat	0.00	12836	56	5928478	5438	1592354	-7	5062154	12252	70622	287	27276047	46	1109594	214	3905160	356	18642	15852	17000					
10/15/17	Sun	0.10	12892	55	5933916	5438	1592347	0	5074406	11732	71099	189	27276138	32	1110021	213	3905516	366	18637	15867	16000					
10/16/17	Mon	0.30	12947	50	5939354	0	1592340	0	5086657	11732	71195	0	27276138	16	1110231	208	3905872	0	12213	15885	7000					
10/17/17	Tue	0.00	12997	106	5939354	0	1592340	0	5098389	11692	71384	209	27276170	16	1110439	206	3905872	708	24162	15904	24000					
10/18/17	Wed	0.00	13103	90	5939354	10089	1592340	1	5110081	12780	71593	172	27276186	116	1110439	206	3905872	0	15296	15928	12000					
10/19/17	Thu	0.00	13193	85	5949443	0	1592329	-12	5122861	14830	71765	156	27276302	32	1110645	205	3906580	276	4668	15940	1000					
10/20/17	Fri	0.00	13278	76	5949443	0	1592329	-13	5137691	4131	71921	0	27276334	0	1110850	198	3906580	195	11808	15941	12000					
10/21/17	Sat	0.00	13354	41	5949443	5392	1592316	-33	5141822	5891	71921	124	27276334	0	1111048	198	3906856	195	11808	15941	12000					
10/22/17	Sun	0.00	13395	40	5949435	5392	1592283	-32	5147713	5890	72045	124	27276334	0	1111246	197	3907051	195	11806	15953	12000					
10/23/17	Mon	0.20	13435	74	5960227	0	1592251	-16	5153603	5312	72363	182	27276334	8165	1111443	203	3907246	821	6248	15965	2000					
10/24/17	Tue	0.00	13509	107	5960227	0	1592235	-75	5158775	5312	72363	182	27276334	8165	1111443	203	3907246	821	6248	15965	2000					
10/25/17	Wed	0.00	13616	148	5960227	12	1592160	-25	5164087	5171	72545	200	27276334	0	1111563	210	3908272	328	6044	15969	11000					
10/26/17	Thu	0.00	13764	148	5960239	17	1592135	-14	5169258	4133	72745	229	27276334	0	1112270	197	3908600	0	4710	15980	12000					
10/27/17	Fri	0.00	13912	133	5960256	8996	1592121	-19	5173391	6443	72974	2	27276334	0	1112471	312	3909324	724	16480	15992	6000					
10/28/17	Sat	0.00	14045	130	5969252	10	1592102	-11	5179834	4099	72976	117	27276334	0	1112471	312	3909324	0	4657	15998	5000					
10/29/17	Sun	0.00	14175	130	5969252	9	1592091	-12	5183933	4099	73093	116	27276334	0	1112783	312	3909324	0	4654	16003	4000					
10/30/17	Mon	0.00	14305	143	5969271	6	1592079	-13	5188032	3134	73209	0	27276334	0	1113095	209	3909324	731	4210	16007	0					
10/31/17	Tue	0.00	14448	151	5969277	3280	1592066	-36	5191166	5274	73209	0	27276334	0	1113304	411	3910055	0	9080	16007	4000					
11/01/17	Wed		14599		5972557		1592030		5196440		73209		27276334		1113715		3910055			16011						
TOTAL		1.60		2432		95067		-690		324948		7678		21345		9346		8420			383000					

Leakage Action Rates:

Phase 1/1A - 930 gpd

Phase 2 - 600 gpd

Phase 3 - 680 gpd

Total 1,719

Start Leachate In Storage

173,430
GALLONS

End Leachate In Storage

160,740
GALLONS

REVIEWED BY

HENRY

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	80-3 (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		
11/01/17	Wed	0.00	14599	117	5972557	5147	1592030	-10	5196440	5315	73209	105	27284499	0	1113715	209	3910055	278	11161	16011	2000
11/02/17	Thu	0.00	14716	105	5977704	0	1592020	-21	5201755	3120	73314	0	27284499	0	1113924	403	3910333	442	4049	16013	0
11/03/17	Fri	0.00	14821	110	5977704	0	1591999	-23	5204875	4125	73314	0	27284499	0	1114327	421	3910775	0	4633	16013	10000
11/04/17	Sat	0.00	14931	101	5977704	5876	1591976	-23	5209000	5059	73314	0	27284499	16378	1114748	208	3910775	360	27959	16023	24000
11/05/17	Sun	0.00	15032	100	5983580	5876	1591953	-23	5214059	5058	73314	0	27300877	16378	1114566	208	3911135	359	27956	16047	24000
11/06/17	Mon	0.00	15132	100	5989456	0	1591930	-23	5219117	3079	73314	239	27317255	0	1115164	218	3911494	285	3896	16071	4000
11/07/17	Tue	0.00	15232	117	5989456	0	1591907	-16	5222196	4120	73553	1	27317255	27	1115382	209	3911779	0	4457	16075	11000
11/08/17	Wed	0.00	15349	94	5989456	5324	1591891	-16	5226316	3226	73553	1	27317282	4963	1115591	214	3911779	0	8843	16086	11000
11/09/17	Thu	0.00	15443	93	5994780	0	1591875	-12	5229542	4134	73554	0	27317282	4963	1115805	205	3911779	1001	10384	16097	5000
11/10/17	Fri	0.00	15536	140	5994780	9394	1591863	-54	5233676	4515	73554	350	27322245	24214	1116010	213	3912780	0	14558	16102	6000
11/11/17	Sat	0.00	15676	94	6004174	2958	1591809	-96	5238191	5209	73904	4	27322245	24214	1116223	207	3912780	379	32969	16108	25000
11/12/17	Sun	0.00	15770	93	6007132	2957	1591713	-88	5243400	5208	73908	4	27346459	24213	1116430	207	3913159	379	32973	16133	24000
11/13/17	Mon	0.00	15863	91	6010089	0	1591625	10	5248608	3058	73912	3	27370672	0	1116637	0	3913538	0	3162	16157	8000
11/14/17	Tue	0.00	15954	122	6010089	0	1591635	0	5251666	5287	73915	37	27370672	9097	1116637	230	3913538	306	15079	16165	16000
11/15/17	Wed	0.00	16076	136	6010089	0	1591635	7	5256953	3120	73952	30	27379769	14682	1116667	0	3913844	429	3722	16181	0
11/16/17	Thu	0.00	16212	127	6010089	16	1591642	-63	5260073	3455	73982	390	27379769	14682	1116667	166	3914273	286	19059	16181	14000
11/17/17	Fri	0.00	16339	133	6010105	2354	1591579	26	5263528	3091	74372	1	27394451	0	1117033	70	3914559	0	5675	16195	2000
11/18/17	Sat	0.00	16472	131	6012459	2354	1591605	-10	5266619	4180	74372	17	27394451	0	1117103	104	3914559	334	7110	16197	6000
11/19/17	Sun	0.20	16603	131	6014813	2355	1591595	-10	5270799	4179	74390	16	27394451	0	1117207	103	3914893	333	7107	16203	6000
11/20/17	Mon	0.00	16734	118	6017768	0	1591585	-20	5274978	2060	74406	19	27394451	0	1117310	216	3915226	278	2671	16209	3000
11/21/17	Tue	0.30	16852	116	6017768	7306	1591565	-10	5277038	4252	74425	4	27394451	25244	1117526	949	3915504	395	12063	16212	0
11/22/17	Wed	0.00	16968	124	6024474	153	1591555	-34	5281280	4476	74429	1	27394451	25244	1118475	949	3915899	471	31383	16212	30000
11/23/17	Thu	4.10	17092	123	6024627	152	1591521	-35	5285766	4476	74429	1	27418695	25244	1118475	949	3916370	471	31381	16242	29000
11/24/17	Fri	0.20	17215	156	6024779	0	1591486	-153	5290242	9926	74430	0	27444939	15795	1119424	3112	3916841	1107	29943	16271	53000
11/25/17	Sat	0.00	17371	126	6024779	3251	1591333	-22	5300168	5573	74430	0	27460734	8993	1122536	320	3917948	0	18241	16324	15000
11/26/17	Sun	0.00	17497	125	6028030	3251	1591311	-22	5305741	5572	74430	0	27468727	8993	1122556	319	3917948	0	18237	16339	15000
11/27/17	Mon	0.00	17622	103	6031281	0	1591289	-153	5313713	6400	74430	0	27476719	1731	1123175	232	3917948	724	9037	16364	28000
11/28/17	Tue	0.00	17725	85	6031281	4723	1591136	-25	5317713	4252	74430	0	27480450	74	1123407	203	3918672	322	9634	16383	6000
11/29/17	Wed	0.00	17810	97	6036004	785	1591111	5	5321965	4231	74430	0	27480524	74	1123610	195	3918994	324	5637	16389	0
11/30/17	Thu	0.00	17907	105	6036789	0	1591116	-17	5326196	3134	74430	0	27480524	0	1123805	195	3919318	0	3417	16389	1000
12/01/17	Fri		18012		6036789		1591099		5329330		74430		27480524		1124000		3919318			16390	
TOTAL		4.80		3413		64232		-931		132890		1221		196025		10285			9263		379000

Leakage Action Rates:

Phase 1/1A - 930 gpd

Phase 2 - 600 gpd

Phase 3 - 680 gpd

Total 1,719

Start Leachate in Storage

160,740
GALLONS

End Leachate in Storage

156,510
GALLONS

REVIEWED BY

HENRY

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	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 # (P)	LIFT FLOW GAL	2, 3, MASTER LIFT STATION	LEACHATE FORCE MAIN METER	FORCE MAIN FLOW GAL															
12/01/17	Fri	0.00	18012	103	6036789	0	1591099	-10	5329330	4127	74430	0	27480524	61	1124000	216	3919318	446	4943	16390	10000																
12/02/17	Sat	0.00	18115	116	6036789	3480	1591089	-14	5333457	4256	74430	129	27480585	27	1124216	302	3919764	151	8447	16400	5000																
12/03/17	Sun	0.00	18231	116	6040269	3479	1591075	-15	5337713	4255	74559	128	27480612	26	1124518	302	3919915	150	8441	16405	4000																
12/04/17	Mon	0.00	18347	104	6043748	0	1591060	-13	5341968	3116	74687	9	27480638	0	1124820	209	3920065	716	4141	16409	0																
12/05/17	Tue	0.00	18451	99	6043748	0	1591047	-4	5345084	3088	74696	18	27480638	0	1125029	217	3920781	61	3479	16409	5000																
12/06/17	Wed	0.00	18550	96	6043748	0	1591043	-10	5348172	3134	74714	19	27480638	0	1125246	426	3920842	0	3665	16411	2000																
12/07/17	Thu	0.00	18646	182	6043748	10726	1591033	1315	5351306	3042	74733	81	27480638	0	1125672	206	3920842	614	16166	16416	4000																
12/08/17	Fri	1.40	18828	124	6054474	0	1592348	-171	5354348	5937	74814	12	27480638	29555	1125878	236	3921456	314	38007	16420	64000																
12/09/17	Sat	0.00	18952	173	6054474	5	1592177	-1	5360285	8419	74826	232	27510193	0	1126339	225	3921770	547	9600	16484	14000																
12/10/17	Sun	0.20	19125	172	6054474	4	1592176	-1	5368704	8418	75058	232	27510193	0	1126339	225	3922317	547	9597	16498	13000																
12/11/17	Mon	0.00	19297	148	6056413	1687	1592175	-6	5377122	8726	75290	1	27510384	191	1126564	224	3922864	333	11304	16511	15000																
12/12/17	Tue	0.00	19445	123	6056170	6323	1592169	-13	5385848	4995	75291	4	27510384	0	1126788	214	3923197	0	11434	16526	12000																
12/13/17	Wed	0.00	19568	142	6062493	19	1592156	-15	5390843	1569	75295	9	27510384	0	1126790	210	3923953	0	2480	16538	1000																
12/14/17	Thu	0.00	19627	117	6062512	0	1592141	-13	5392412	2162	75304	4	27510384	10597	1127214	209	3923953	0	18684	16541	7000																
12/15/17	Fri	0.00	19710	129	6062512	4386	1592128	-49	5394574	3387	75308	25	27510384	4736	1127423	110	3923953	529	10690	16548	17000																
12/16/17	Sat	0.00	19956	108	6066898	0	1592079	-36	5397961	5203	75333	40	27520981	4736	1127423	110	3924482	528	10688	16555	16000																
12/17/17	Sun	0.00	20064	108	6066898	0	1592043	-36	5403164	5203	75373	39	27525717	4736	1127643	15	3925010	306	4524	16561	5000																
12/18/17	Mon	0.00	20172	81	6066898	0	1592007	-18	5412482	4115	75412	16	27530453	8	1127658	200	3925316	437	8059	16566	4000																
12/19/17	Tue	0.00	20253	99	6066898	5736	1591998	-42	5414061	2626	75446	4	27530461	0	1127858	204	3925753	288	3712	16590	2000																
12/20/17	Wed	0.00	20352	37	6072634	595	1591980	-42	5414061	2626	75446	28	27530461	19	1128062	196	3926041	0	1934	16592	0																
12/21/17	Thu	0.00	20389	100	6073229	0	1591938	-1	5416687	1788	75450	28	27530461	19	1128062	196	3926041	0	1934	16592	0																
12/22/17	Fri	0.00	20489	118	6073229	0	1591937	0	5418475	2576	75478	65	27530480	17358	1128062	196	3926041	0	1934	16592	0																
12/23/17	Sat	0.00	20607	107	6073229	2136	1591937	0	5421051	3354	75493	12	27547838	4492	1128258	71	3926441	186	10408	16605	13000																
12/24/17	Sun	0.00	20714	106	6075365	2136	1591937	0	5424405	3354	75493	62	27547838	4492	1128258	71	3926441	186	10408	16605	3000																
12/25/17	Mon	0.30	20820	106	6075501	2136	1591937	0	5424405	3354	75493	62	27547838	4492	1128258	71	3926441	186	10408	16605	3000																
12/26/17	Tue	0.00	20926	122	6079637	4136	1591937	0	5427759	3354	75617	61	27556822	4491	1128400	71	3926813	185	10404	16611	3000																
12/27/17	Wed	0.00	21048	110	6083773	0	1591937	0	5431113	3207	75678	28	27561313	0	1128471	217	3926998	400	8110	16614	1000																
12/28/17	Thu	0.00	21158	180	6083773	5425	1591937	0	5436690	3482	75735	68	27561313	0	1128688	210	3927398	284	3003	16615	2000																
12/29/17	Fri	0.00	21338	167	6088198	6	1591937	0	5440172	2075	75803	81	27561313	94	1128898	206	3927992	410	3039	16619	2000																
12/30/17	Sat	0.00	21505	156	6089204	2422	1591937	0	5442247	3291	75884	88	27561407	9118	1129104	221	3928402	354	15650	16619	9000																
12/31/17	Sun	0.00	21661	156	6091626	2422	1591937	0	5445538	3291	75972	88	27570525	9118	1129325	221	3928756	354	15650	16628	9000																
01/01/18	Mon		21817		6094048		1591937		5448829		76060		27579643		1129546		3929110			16637																	
TOTAL		1.90		3805		57259		838		119499		1630		99119		5546		9792				247000															

Leachate Action Rules:

Phase 1/1A - 930 gpd

Phase 2 - 600 gpd

Phase 3 - 650 gpd

Total 1,719

Start Leachate in Storage

156,510
GALLONS

End Leachate in Storage

43,358
GALLONS

REVIEWED BY

HENRY