

Smith, George

From: Ray Oates <ray.oates@citrusbocc.com>
Sent: Thursday, January 10, 2019 12:28 PM
To: SWD_Waste; Chamberlain, Justin
Cc: Henry C. Norris; Randall S. Olney
Subject: WACS ID #39859, Citrus County Central Landfill, 4th Quarter Leachate and Daily Precipitation Report
Attachments: 4th Quarter 2018 Leachate Report.pdf

Dear Mr. Chamberlain:

Attached please find the 4th Quarter (2018) Leachate and Daily Precipitation Report for the Citrus County Central Landfill.

I am sorry I failed to attached the report in the email sent to your attention a few moments ago.

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

Regards,

Ray Oates, PG
Solid Waste Compliance Manager
Citrus County Division of Solid Waste Management
230 W. Gulf to Lake Highway
Lecanto, FL 34461

Ray Oates, PG
Solid Waste Compliance Manager
Citrus County Division of Solid Waste Management
230 W. Gulf to Lake Highway
Lecanto, FL 34461

Phone: 352-527-7679 Fax: 352-527-7672

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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

TDD Telephone 527-5303

email: landfillinfo@bocc.citrus.fl.us

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

January 8, 2019

Department of Environmental Protection
Solid Waste Section
13051 N Telecom Pkwy
Temple Terrace, FL 33637-0926

Re: **Citrus County Central Landfill - Permit No. 21375-018-SO/01**
Leachate Generation and Daily Precipitation Report
WACS I.D. # 39859 - Electronic Submittal

Gentlemen:

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 months of October, November and December 2018.

There were no exceedances during the reporting period.

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

cc: Randall Olney, PE, Director, Department of Public Works (Electronic)

Submitted Electronically
SWD_Waste@dep
Addresses & cc
Date: 1/10/19
Initials: RD

Scanned to E-Bridge
Date 1/10/19
Initials RD
Solid Waste Management

CITRUS COUNTY CENTRAL LANDFILL

			PHASE 1 AND 1A						PHASE 2						PHASE 3				7 ACRE			TOTAL		Force Main Flow	
		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 #5 (P)	LIFT STATION FLOW GAL	2, 3, MASTER LIFT STATION	LEACHATE FORCE MAIN METER	FORCE MAIN FLOW GAL				
12/01/18	Sat	0.00	37773	12	6774152	2048	1585898	-2	8392522	3239	86945	12	30099213	6452	1259685	106	4028938	396	12263	OOS	6000				
12/02/18	Sun	0.30	37785	11	6776200	2047	1585896	-2	8395761	3238	86957	11	30105665	6451	1259791	105	4029334	395	12256	OOS	6000				
12/03/18	Mon	1.40	37796	24	6778247		1585894	-1	8398999	2813	86968	10	30112116	6592	1259896	6	4029729	0	9444	OOS	5000				
12/04/18	Tue	0.00	37820	98	6778247	163	1585893	1	8401812	2697	86978	9	30118708	0	1259902	175	4029729	458	3601	OOS	0				
12/05/18	Wed	0.00	37918	127	6778410	9	1585894	-3	8404509	2715	86987	9	30118708	6296	1260077	18	4030187	340	9511	OOS	4000				
12/06/18	Thu	0.00	38045	120	6778419	4888	1585891	-13	8407224	4077	86996	13	30125004	6445	1260095	192	4030527	0	15722	OOS	6000				
12/07/18	Fri	0.00	38165	93	6783307	3537	1585878	-14	8411301	3454	87009	12	30131449	5947	1260287	34	4030527	340	13403	OOS	5000				
12/08/18	Sat	0.00	38258	83	6786844	4419	1585864	-2	8414755	4239	87021	11	30137396	6310	1260321	100	4030867	228	15388	OOS	6000				
12/09/18	Sun	0.00	38341	83	6791263	4418	1585862	-2	8418994	4238	87032	11	30143706	6310	1260421	100	4031095	227	15385	OOS	6000				
12/10/18	Mon	0.50	38424	141	6795681	4555	1585860	-9	8423232	3299	87043	8	30150016	5962	1260521	7	4031322	338	14301	OOS	4000				
12/11/18	Tue	0.00	38565	121	6800236	3	1585851	1	8426531	2557	87051	9	30155978	0	1260528	187	4031660	452	3330	OOS	0				
12/12/18	Wed	0.00	38686	108	6800239	0	1585852	-3	8429088	3365	87060	10	30155978	6049	1260715	3	4032112	0	9532	OOS	5000				
12/13/18	Thu	0.20	38794	39	6800239	4717	1585849	-11	8432453	4162	87070	13	30162027	6097	1260718	188	4032112	339	15544	OOS	6000				
12/14/18	Fri	4.00	38833	43	6804956		1585838	-5	8436615	5093	87083	10	30168124	6790	1260906	5	4032451	797	12733	OOS	9000				
12/15/18	Sat	0.00	38876	96	6804956	1449	1585833	-7	8441708	5238	87093	14	30174914	17413	1260911	292	4033248	170	24665	OOS	8000				
12/16/18	Mon	0.00	38972	95	6806405	1448	1585826	-8	8446946	5238	87107	13	30192327	17412	1261203	292	4033418	170	24660	OOS	8000				
12/17/18	Mon	0.00	39067	103	6807853	3361	1585818	-15	8452184	5407	87120	11	30209739	7683	1261495	229	4033588	739	17518	OOS	8000				
12/18/18	Tue	0.00	39170	101	6811214	2962	1585803	-16	8457591	6280	87131	15	30217422	16206	1261724	193	4034327	0	25741	OOS	10000				
12/19/18	Wed	3.50	39271	54	6814176	5688	1585787	-22	8463871	6285	87146	20	30233628	8634	1261917	0	4034327	800	21459	OOS	6000				
12/20/18	Thu	1.00	39325	77	6819864	2852	1585765	-20	8470156	8928	87166	23	30242262	11049	1261917	371	4035127	339	23619	OOS	7000				
12/21/18	Fri	0.50	39402	127	6822716	10	1585745	-7	8479084	6854	87189	20	30253311	21365	1262288	190	4035466	0	28559	OOS	14000				
12/22/18	Sat	0.00	39529	110	6822726	1634	1585738	-14	8485938	6546	87209	15	30274676	14510	1262478	293	4035466	396	23490	OOS	6000				
12/23/18	Mon	0.00	39639	109	6824360	1633	1585724	-14	8492484	6545	87224	14	30289186	14510	1262771	293	4035862	396	23486	OOS	10000				
12/24/18	Mon	0.00	39748	73	6825993	1721	1585710	-6	8499029	5933	87238	14	30303696	12719	1263064	102	4036258	169	20725	OOS	8000				
12/25/18	Tue	0.00	39821	73	6827714	1720	1585704	-6	8504962	5932	87252	13	30316415	12718	1263166	102	4036427	169	20721	OOS	8000				
12/26/18	Wed	0.00	39894	52	6829434	3926	1585698	0	8510894	7386	87265	47	30329133	8265	1263268	186	4036596	455	20317	OOS	97000				
12/27/18	Thu	0.00	39946	8	6833360	3079	1585698	-11	8518280	7261	87312	44	30337398	15204	1263454	194	4037051	336	26115	OOS	31000				
12/28/18	Fri	0.00	39954	10	6836439	0	1585687	10	8525541	5650	87356	34	30352602	7652	1263648	16	4037387	0	13372	OOS	7000				
12/29/18	Sat	0.00	39964	26	6836439	1630	1585697	0	8531191	5726	87390	34	30360254	11329	1263664	210	4037387	346	19301	OOS	4000				
12/30/18	Sun	0.00	39990	26	6838069	1630	1585697	0	8536917	5725	87424	33	30371583	11329	1263874	210	4037733	445	19398	OOS	8000				
12/31/18	Mon	0.00	40016	37	6839699	603	1585697	2	8542642	5095	87457	29	30382912	7104	1264084	116	4038178	161	13147	OOS	4000				
01/01/19	Tue		40053		6840302		1585699		8547737		87486		30390016		1264200		4038339			OOS					
TOTAL		11.40		2280		66150		-199		155215		541		290803		4515		9401				312000			

Operator Notes: Force main (Leachate) meter out of service
flows estimated by leachate pump hours.

Leakage Action Rates:
Phase 1/1A - 930 gpd
Phase 2 - 600 gpd
Phase 3 - 680 gpd
Total 2,210

Start Leachate in Storage
78,255 GALLONS

End Leachate in Storage
92,003 GALLONS

REVIEWED BY
Henry C. Norris Jr.

CITRUS COUNTY CENTRAL LANDFILL

DATE	DAY	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	LIFT STATION METER #5 (P)	LIFT STATION FLOW GAL	2, 3, MASTER LIFT STATION	LEACHATE FORCE MAIN METER	FORCE MAIN FLOW GAL
11/01/18	Thu	35468	27	6715355	2799	1586058	-12	8293644	3780	86599	11	29957916	8211	1256953	181	4020819	412	15409
11/02/18	Fri	35495	70	6718154	2575	1586046	-3	8297424	3207	86610	12	29966127	4746	1257134	64	4021231	114	10785
11/03/18	Sat	35565	69	6720729	2574	1586043	-3	8300631	3206	86622	12	29970873	4746	1257198	63	4021345	114	10781
11/04/18	Sun	35634	70	6723303	2574	1586040	-2	8303837	3207	86634	12	29975619	4745	1257261	63	4021459	114	10783
11/05/18	Mon	35704	25	6725877	4583	1586038	-9	8307044	3532	86646	14	29980364	0	1257324	187	4021573	801	9133
11/06/18	Tue	35729	44	6730460	192	1586029	-1	8310576	2810	86660	29	29980364	6680	1257511	5	4022374	0	9759
11/07/18	Wed	35773	51	6730652	0	1586028	-1	8313386	4164	86689	-5	29987044	6498	1257516	196	4022374	594	11497
11/08/18	Thu	35824	45	6730652	0	1586027	-1	8317550	2092	86684	7	29993542	7183	1257712	8	4022968	160	9494
11/09/18	Fri	35869	27	6730652	4475	1586026	-11	8319642	3646	86691	13	30000725	0	1257720	196	4023128	343	8689
11/10/18	Sat	35966	46	6735127	1929	1586015	-6	8323288	3674	86704	13	30007025	6603	1257916	71	4023471	265	12595
11/11/18	Sun	35942	46	6737056	1929	1586009	-6	8326962	3673	86717	12	30007328	6603	1257987	71	4023736	264	12592
11/12/18	Mon	35988	46	6738985	1929	1586003	-6	8330635	3673	86729	13	30013931	6602	1258058	71	4024000	264	12592
11/13/18	Tue	36034	25	6740914	0	1585997	-6	8334308	1613	86742	6	30020533	5818	1258129	3	4024264	0	7459
11/14/18	Wed	36059	47	6740914	4007	1585991	-6	8335921	3931	86748	14	30026351	0	1258132	191	4024264	802	8986
11/15/18	Thu	36106	138	6744921	13	1585985	4	8339852	2761	86762	9	30026351	6262	1258323	0	4025066	0	9187
11/16/18	Fri	36244	140	6744934	8	1585989	-2	8342613	2338	86771	9	30032613	6790	1258323	196	4025066	0	9479
11/17/18	Sat	36384	95	6744942	2352	1585987	-6	8344951	3743	86780	12	30039403	3025	1258519	96	4025066	399	9716
11/18/18	Sun	36479	95	6747294	2351	1585981	-6	8348694	3743	86792	11	30042428	3025	1258615	96	4025465	398	9713
11/19/18	Mon	36574	63	6749645	4188	1585975	-13	8352437	4228	86803	15	30045453	6903	1258711	10	4025863	343	15737
11/20/18	Tue	36637	98	6753833	0	1585962	8	8356665	2532	86818	9	30052356	6527	1258721	193	4026206	0	9367
11/21/18	Wed	36735	110	6753833	4370	1585970	-20	8359197	3896	86827	15	30058883	3465	1258914	103	4026206	399	12338
11/22/18	Thu	36845	110	6758203	4369	1585950	-19	8363093	3895	86842	15	30062348	3465	1259017	102	4026605	398	12335
11/23/18	Fri	36955	61	6762572	0	1585931	0	8366988	3533	86857	10	30065813	7579	1259119	4	4027003	0	11187
11/24/18	Sat	37016	75	6762572	1166	1585931	-2	8370521	3321	86867	10	30073392	3211	1259123	93	4027003	398	8272
11/25/18	Sun	37091	74	6763738	1166	1585929	-2	8373842	3321	86877	10	30076603	3210	1259216	93	4027401	397	8269
11/26/18	Mon	37165	105	6764904	2130	1585927	-2	8377163	2893	86887	12	30079813	6619	1259309	3	4027798	0	11760
11/27/18	Tue	37270	170	6767034	7	1585925	-3	8380056	3274	86899	11	30086432	0	1259312	183	4027798	798	4440
11/28/18	Wed	37440	131	6767041	3	1585922	-1	8383330	1912	86910	7	30086432	6737	1259495	0	4028596	0	8789
11/29/18	Thu	37571	144	6767044	12	1585921	0	8385242	2621	86917	9	30093169	6044	1259495	190	4028596	0	9020
11/30/18	Fri	37715	58	6767056	7096	1585921	-23	8387863	4659	86926	19	30099213	0	1259685	0	4028596	342	12151
12/01/18	Sat	37773	2305	6774152	58797	1585898	-160	8392522	98878	86945	346	30099213	141297	1259685	2732	4028938	0	117000

Leakage Action Rates:

Phase 1/1A - 930 gpd

Phase 2 - 600 gpd

Phase 3 - 680 gpd

Total 2,210

Operator Notes: October 30th Leachate flow meter went out of service, Leachate flows estimated off Leachate pump hours - W1

Start Leachate in Storage

74,025
GALLONS

End Leachate in Storage

78,255
GALLONS

REVIEWED BY

Henry C. Norris Jr.

CITRUS COUNTY CENTRAL LANDFILL

			PHASE 1 AND 1A						PHASE 2						PHASE 3				7 ACRE		TOTAL	Force Main Flow	
		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 #5 (P)	LIFT STATION FLOW GAL	2, 3, MASTER LIFT STATION	LEACHATE FORCE MAIN METER	FORCE MAIN FLOW GAL		
10/01/18	Mon	0.00	34372	7	6618285	0	1586896	-22	8151445	5226	86026	12	29763208	0	1248990	416	4012250	338	5977	20011	11000		
10/02/18	Tue	0.20	34379	13	6618285	11337	1586874	-72	8156671	9230	86038	28	29763208	5547	1249406	468	4012588	165	26716	20022	39000		
10/03/18	Wed	0.00	34392	23	6629622	23	1586802	-18	8165901	5639	86066	14	29768755	18000	1249874	408	4012753	878	24967	20061	0		
10/04/18	Thu	0.00	34415	14	6629645	3260	1586784	-40	8171540	5335	86080	23	29786755	0	1250282	200	4013631	0	8792	20061	1000		
10/05/18	Fri	0.00	34429	21	6632905	1691	1586744	-35	8176875	5838	86103	36	29786755	0	1250482	412	4013631	43	7970	20062	12000		
10/06/18	Sat	0.00	34450	8	6634596	2790	1586709	-43	8182713	5434	86103	36	29786755	0	1250894	330	4013674	206	8761	20074	9000		
10/07/18	Sun	0.00	34458	8	6637386	2789	1586666	-43	8188147	5434	86139	36	29786755	0	1251224	325	4013880	205	8754	20083	8000		
10/08/18	Mon	0.00	34466	6	6640175	2797	1586623	-27	8193581	5864	86178	23	29786755	0	1251549	391	4014085	341	9395	20091	0		
10/09/18	Tue	0.00	34472	4	6642972	5943	1586596	-56	8199445	6538	86198	27	29786755	0	1251940	436	4014426	744	13636	20091	14000		
10/10/18	Wed	0.00	34476	4	6648915	0	1586540	-13	8205983	4557	86225	15	29786755	0	1252376	396	4015170	0	4959	20105	15000		
10/11/18	Thu	0.00	34480	23	6648915	0	1586527	-19	8210540	1104	86240	7	29786755	0	1252772	392	4015170	0	1507	20120	0		
10/12/18	Fri	0.00	34503	82	6648915	7514	1586508	-67	8211644	4807	86247	42	29786755	14902	1253164	387	4015170	760	13525	20120	1000		
10/13/18	Sat	0.00	34585	34	6656429	3870	1586441	-31	8216451	4931	86289	28	29786755	14902	1253551	327	4015930	170	24231	20121	28000		
10/14/18	Sun	0.00	34619	34	6660299	3870	1586410	-31	8221382	4931	86317	28	29801657	14901	1253878	326	4016100	170	24229	20149	27000		
10/15/18	Mon	0.00	34653	8	6664169	0	1586379	-31	8226313	3368	86345	12	29816558	25086	1254204	388	4016270	299	4044	20176	1000		
10/16/18	Tue	0.00	34661	11	6664169	5914	1586348	-95	8229681	7028	86357	4	29816558	25086	1254592	216	4016569	448	38707	20177	32000		
10/17/18	Wed	0.00	34672	16	6670083	0	1586348	-95	8236709	2871	86361	7	29841644	252	1254808	255	4017017	0	3306	20209	12000		
10/18/18	Thu	0.00	34688	7	6670083	2106	1586253	-45	8239580	4951	86368	23	29841896	18811	1255063	239	4017017	0	26092	20221	10000		
10/19/18	Fri	0.00	34695	25	6672189	1269	1586208	-40	8244531	4433	86391	24	29860707	16278	1255302	253	4017017	761	23003	20231	26000		
10/20/18	Sat	0.00	34720	45	6673458	3354	1586168	-15	8248964	4634	86415	25	29876985	7215	1255555	133	4017778	171	15562	20257	14000		
10/21/18	Sun	0.00	34765	45	6676812	3354	1586153	-46	8253598	4633	86440	23	29884200	7215	1255688	132	4017949	171	15527	20271	14000		
10/22/18	Mon	0.00	34810	54	6680166	3861	1586107	-16	8258231	3844	86483	19	29891415	11899	1255820	183	4018120	458	20302	20285	18000		
10/23/18	Tue	0.00	34864	42	6684027	1832	1586091	3	8262075	2886	86482	12	29903314	0	1256003	193	4018578	0	4968	20303	1000		
10/24/18	Wed	0.00	34906	62	6685859	5862	1586094	0	8264961	4849	86494	18	29903314	11358	1256196	187	4018578	341	22490	20304	11000		
10/25/18	Thu	0.00	34968	27	6691721	5955	1586094	0	8269810	4892	86512	15	29914672	9772	1256196	187	4018919	458	21306	20315	20000		
10/26/18	Fri	0.70	34995	45	6697676	972	1586094	-19	8274702	2713	86527	11	29924444	9430	1256383	191	4019377	342	13685	20335	21000		
10/27/18	Sat	0.00	35040	106	6698648	2173	1586075	-1	8277415	2903	86538	11	29933874	3643	1256574	96	4019719	0	8931	20356	1000		
10/28/18	Sun	0.00	35146	105	6700821	2173	1586074	-1	8277415	2902	86549	11	29937517	3642	1256670	96	4019719	1	8929	20357	1000		
10/29/18	Mon	0.00	35251	68	6702994	3766	1586073	0	8283220	3615	86560	13	29941159	8981	1256766	0	4019720	758	17201	20358	0		
10/30/18	Tue	0.00	35319	84	6706760	3089	1586073	-42	8286835	2805	86573	11	29950140	0	1256766	187	4020478	0	6134	20358	0		
10/31/18	Wed	0.00	35403	66	6709849	5506	1586031	27	8289640	4004	86584	15	29950140	7776	1256953	0	4020478	341	17735	20358	0		
11/01/18	Thu		35469		6715355		1586058		8293644		86599		29957916		1256953		4020819						
TOTAL		0.90		1097		97070		-838		142199		573		194708		7963		8569				347000	

Leakage Action Rates:
Phase 1/1A - 930 gpd
Phase 2 - 600 gpd
Phase 3 - 680 gpd
Total 2,210

Start Leachate in Storage

83,543
GALLONS

End Leachate in Storage

74,025
GALLONS

REVIEWED BY

Henry C. Norris Jr.