Smith, George

From: Tift, Rachel

Sent: Tuesday, September 05, 2017 9:06 AM

To: SWD_Waste

Subject: FW: WACS 39859, Citrus County Central Landfill Inspection Response

Attachments: FDEP Inspection Response 8.30.17.pdf

From: Ray Oates [mailto:ray.oates@citrusbocc.com]

Sent: Friday, September 1, 2017 3:46 PM

To: Tift, Rachel

Cc: Henry C. Norris; Troy D. Hays (thays@jonesedmunds.com); LARRY J. BROCK **Subject:** WACS 39859, Citrus County Central Landfill Inspection Response

Dear Ms. Tift:

In reply to your site inspection of February 22, 2017, and subsequent inspection-related correspondence dated August 15, 2017; attached please find our response(s) to each of two (2) FDEP Current Violations and seven (7) Areas of Concern.

The attached file also includes the following.

- 1. Annual Site Life Calculation dated January 13, 2016.
- 2. Final Closure Soils Certification (related to *Declaration of Restrictive Covenant and Access Agreement*), dated August 27, 2017.
- 3. Second Quarter, 2017, Leachate Generation and Daily Precipitation Report, dated April 5, 2017, and
- 4. Second Quarter 2017, Phase 3 Secondary Leachate Flow Chart (3-D, Flow vs. Rainfall over time).

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

Respectfully,

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

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Board of County Commissioners

DEPARTMENT OF PUBLIC WORKS SOLID WASTE MANAGEMENT DIVISION

8/30/2017

Ms. Rachel Tift
Engineering Specialist, Compliance Assurance
Florida Department of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, Florida, 33637-0926

RE: Citrus County Central Class I Landfill and Closed Class I Landfill

Facility ID Number 39859

Citrus County

Dear Ms. Tift:

In response to your correspondence dated August 15, 2017, enclosed please find our response to matters pertaining to Consent Order #05-1078 and your current areas of concern:

CITRUS CENTRAL SLF 02/22/2017

FDEP Current Violations:

Rule: 62-701.510(3), 62-701.510(4), 62-701.730(10), 62-701.730(8)(f), 62-713.400(3)

Question Number: 1.6

Explanation: VOCs were reported above groundwater standards at MW-7 and MW-19 in the second SA 2016 Groundwater Monitoring Report and first SA 2017 Groundwater Monitoring Report. The first SA 2016 Groundwater Monitoring Report attributed the VOC exceedances at these wells to landfill gas. Corrective Action: On 2/22/2017 prior to the inspection, DEP, Citrus County, and Jones Edmunds had a meeting to discuss landfill gas migration and groundwater exceedances at the facility. After the inspection, the facility assessed the adequacy of the existing landfill gas monitoring system and groundwater monitoring system and submitted a plan (Landfill Gas Assessment and Groundwater Delineation plan, revised 6/6/2017, received 6/9/2017) to retrofit/expand both systems to determine the extent and path of landfill gas migration and impacts to groundwater. Please submit updates on the implementation of the Landfill Gas Assessment and Groundwater Delineation plan. The results of the expanded monitoring should be used to develop a remediation plan.

County Response Question Number 1.6:

The three groundwater wells and the eleven landfill gas monitoring probes proposed in the 6/6/2017 Landfill Gas Assessment and Groundwater Delineation Plan (Plan) were installed July 24th through August 18th at the landfill. The three groundwater wells have been developed and sampled and we are currently awaiting the analytical results from the laboratory. All of the landfill gas monitoring probes were fitted with dedicated tubing. As detailed in the Plan, the existing and

new landfill gas monitoring probes were fitted with tubing to multiple depths for measuring landfill gas levels at discrete intervals in the probe. The County is currently working on a report detailing the well and probe construction details and the initial sampling event of the new groundwater wells. The report will be submitted to FDEP by the October 24, 2017 deadline included in the Landfill Gas Assessment and Groundwater Delineation plan.

FDEP Current Areas of Concern:

Area: Phase III

Rule: 62-701.500(7)(d)

Question Number: 2.17

Explanation: At the time of the inspection, a narrow working face was not being practiced in Phase 3, and daily and intermediate cover was sparse in places leaving waste exposed. Corrective Action: Documentation was provided via email on 3/3/2017 and 3/10/2017 which included: pictures of efforts to reduce the working face area and improve cover, the landfill daily inspection log updated to include a checklist item for maintaining the working face width < 50' x 75', and a copy of a Citrus County memo dated 2/24/2017 used to brief operations staff on the permit requirements related to the working face and daily and intermediate cover. Please continue to maintain a narrow working face and apply initial and intermediate cover as required so that waste is not exposed.

Area: Phase III

Rule: 62-701.500(7)(e)
Question Number: 2.18
Explanation: See 2.17
Corrective Action: See 2.17

Area: Phase III

Rule: 62-701.500(7)(f)
Question Number: 2.19
Explanation: See 2.17.
Corrective Action: See 2.17.

County Response Question Number 2.17:

As documented via email on 3/3/2017 and 3/10/2017 and per your direction, we are continuing to maintain a narrow working face and applying initial and intermediate cover as required so that waste is not exposed.

Comment 1.2 - It appears that a landfill survey was conducted in September 2016 but an annual estimate of remaining life was not received. Please provide.

County Response Comment Number 1.2:

Please see the attached Annual Site Life Calculation Report and supporting documentation prepared on December 21, 2016. GET SEALED COPY FROM MARK SCHROEDER

Comment 1.8 - Please be reminded that the wording in the next audit note submitted should be revised per the request sent to Ms. Angela Vick of the Citrus County Board of County Commissioners by the Solid Waste Financial Assurance group on 4/27/2016.

County Response Comment 1.8:

FDEP's reminder is noted. The Citrus County Clerk's Office (Solid Waste Financial Assurance group) in in receipt of the FDEP's letter by Mr. Tor JM Benjar, (dated April 27, 2016). We have reminded our Clerk's Office personnel of the importance of making the FDEP's requested language changes in the 2017 Financial Assurance Report.

Comment 1.9 - Please be reminded that the report required by Appendix 4 of Permit 21375-25-SO/01, Declaration of Restrictive Covenant and Access Easement Agreement, Item 2.c, is due to the Department by July 1 each year. The report is necessary in order for the Department to review cost estimates. Please provide the report as soon as practical, but by no later than September 1, 2017.

County Response Comment 1.9:

The Soils Covenant Area Report was forwarded to Ms. Melissa Madden of FDEP on August 28, 2017. Attached is a copy of the report.

Comment 2.22 - Several Phase 3 leakage action rate (LAR) exceedances were noted during the month of June 2017 in the 2017 Quarter 2 Leachate Generation and Daily Precipitation Report. Please provide an update on the status of the storm water controls currently in place and their effectiveness in reducing leachate generation in Phase 3. If these controls are found to be adequate, additional investigation into the continued exceedances of the Phase 3 LAR may be required. Please note that the 2017 Quarter 1 Leachate Generation and Daily Precipitation Report (.xls file) was not attached to the submittal email dated April 7, 2017. Please provide this report.

County Response Comment 2.22:

Attached is a copy of the 2017 Quarter 1 Leachate Generation and Daily Precipation report. In our continued efforts to reduce Phase 3 leakage action rates (LAR's), we have performed maintenance to the swales located at the top of the embankments of the active waste cell to reduce the area of influence of leachate generation and to decrease the potential for surface water infiltration into the secondary liner.

Attached is graph of Second Quarter 2017 Phase 3 Secondary Leachate Flow, plotted along with date and rainfall data. The graphs shows exceedances for the periods of June 10th through June 14th, and June 29th through June 30th, when respective rainfall amounts of 3.3 inches and 1.9 inches were recorded.

In the past, summer rainfall events exceeding 1.0-2.0 inches occasionally resulted in secondary liner exceedances of 680 gallons/day. Based on our observations of the relationship between rainfall and LAR exceedances, our maintenance to the swales surrounding the active waste cell appear to support a consequential reduction in secondary leachate flow.

Comment 3.13 - GP-3 appeared damaged at the time of the inspection. Jones Edmunds personnel evaluated the adequacy of this well and determined that the probe was bent in the protective casing. The County proposed to cut this probe at the surface and install a new pad with a flush mount cover. Please provide updates on the progress of this repair.

County Response Comment 3.13:

GP-3 was bent over; however, the probe was open to the original total depth and functioning correctly. The casing was put back vertical and the pad was reinforced with compacted soil under and around it. The PVC probe is not damaged and is working as intended. At this time the probe will continue to have the above ground stick-up. Therefore, flush mount completion is not necessary. It has been repaired.

Comment 3.14 - Landfill gas odors were detected at the facility near the property boundary north of the closed landfill areas. Please continue to monitor this area and implement the Landfill Gas Assessment and Groundwater Delineation plan (see Corrective Action for Area of Concern Item 1.6).

County Response Comment 3.14:

We will continue to monitor landfill gas odors throughout the facility as well as near the property boundary north of the closed landfill areas. Newly installed gas and groundwater wells (see County Response 1.6) should detect concentrations of any north and northwest migrating landfill gas. The GCCS expansion design by Jones Edmunds is approximately 90% and we expect the expansion of the solar powered vapor extraction north of the closed cells to be operational by the second quarter of 2018.

If you should need additional information or clarification of these responses, please let me know.

Sincerely

Henry C. Norris, Jr.

Director, Citrus County Division of Solid Waste Management

HCN:RO

CC: Jeff Rogers, P.E., Director, Department of Public Works (Electronic)

Troy Hays, Jones Edmunds



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 13, 2016

Mr. Steve Morgan Dept of Environmental Protection 13051 N Telecom Parkway Temple Terrace, FI 33637-0926

Re: Citrus County Central Class I Landfill (FDEP Permit No. 21375-018-S0/01)

Annual Site Life Calculation Transmittal for Phases 1/1A, 2 and 3

Dear Mr. Morgan:

Pursuant to Specific Condition # C.13.e. of the subject operation permit (which requires landfill site life calculations to be submitted annually no later than January 15th of each year), please find enclosed 2015 Site Life Calculations reports and supporting documentation prepared by Citrus County Division of Engineering.

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

Sincerely,

Henry C. Norris, Jr. Director, Division of

Solid Waste Management

CC: Jeff Rogers, P.E. Director, Dept. Of Public Works (w/o map attachments)

> Scanned to E-Bridge Initials 70

Solid Waste Management



DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING

3600 W. Sovereign Path, Suite 241 Lecanto, Florida 34461

Telephone: (352) 527-5446 Fax: (352) 527-5476

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

TTY Telephone: (352) 527-0825 or (352) 527-5312

CITRUS COUNTY CENTRAL LANDFILL OCTOBER 2016 SITE LIFE CALCULATION ANNUAL REPORT

FDEP PERMIT NO. 21375-008-S0/01 PHASES 1/1A, 2 and 3

Located in S1/T19S/R18E, Citrus County, Florida

Prepared for:

Citrus County Department of Public Works
Solid Waste Management Division
Attn: Henry Norris, Director
230 W. Gulf-to-Lake Highway
Lecanto, FL 34461
(352) 527-7670

Prepared on December 19, 2016

Mark E Schroder, P.E. FL. License No. 67585

County Engineer

Citrus County's Department of Public Works - Division of Engineering has calculated the remaining site life for Phases 1/1A, 2 and 3 of the Citrus County Central Landfill based on the past twelve months of data. The remaining airspace was estimated using population projections, projections of future waste receipts and topographic survey efforts performed by the Citrus County Survey Section in September 2016. The topographic survey information was compiled using real time kinematic satellite navigation (GPS) and is based on NAVD88 datum.

Phases 1/1A,2, and 3:

The airspace consumed from October 1, 2015 (the date of the previous topographic survey as prepared by the Citrus County Survey Section and as referenced in the December 2015 Site Life Calculation Report) to September 29, 2016 (the date of the current survey) was calculated by comparing the digitally generated surfaces from the two surveys. The airspace consumed during this time period was 89,425CY, as shown on sheet 1 of 3 in attachment A. Waste tonnage records supplied by Citrus County Solid Waste Management Division for the same period recorded 88,186 tons entering the landfill. This translates to an effective airspace consumption rate of 1,904lb./CY or 1.05 CY/TN of waste disposed. The volume of the Cap was entered on the calculation as zero. For the calculations, the final closure surface has been lowered by two feet and the final 4' cap will be installed after 2' of settlement. Therefore the volume of the cap was entered into the calculations as 0CY assuming that the airspace will be available before placement.

The remaining life through build out of Phases 1/1A, 2 and 3 was estimated by multiplying the future projected quantities of waste by the current effective airspace consumption rate. Waste tonnage was assumed to increase each year at the same rate as the population. Population growth in Citrus County from 2015 to 2016 was significantly higher than past years. This year population growth has been estimated using the "Medium" projections in the University of Florida Bureau of Economic Research (BEBR) population projections for Citrus County. The projected waste tonnage for each year is multiplied by the effective airspace consumption rate to obtain the airspace volume consumed each year. This is then subtracted from the remaining airspace for each year until the available airspace is depleted. The calculations indicate that Phases 1/1A, 2, and 3 have approximately 1,823,829CY of available airspace as of the September 29, 2016 survey (Attachment #1, Sheet 2) and that this airspace could be completely utilized by July 2032. This assumes that waste will continue to be added to the landfill at the current generation rates and effective density. As Statutory Recycling is implemented waste generation rates will decrease thereby adding a factor of safety to the calculations. For quick reference, the previous Site Life Calculation Report prepared on December, 15 2015 estimated this date to be September 2030 Using Low projection.

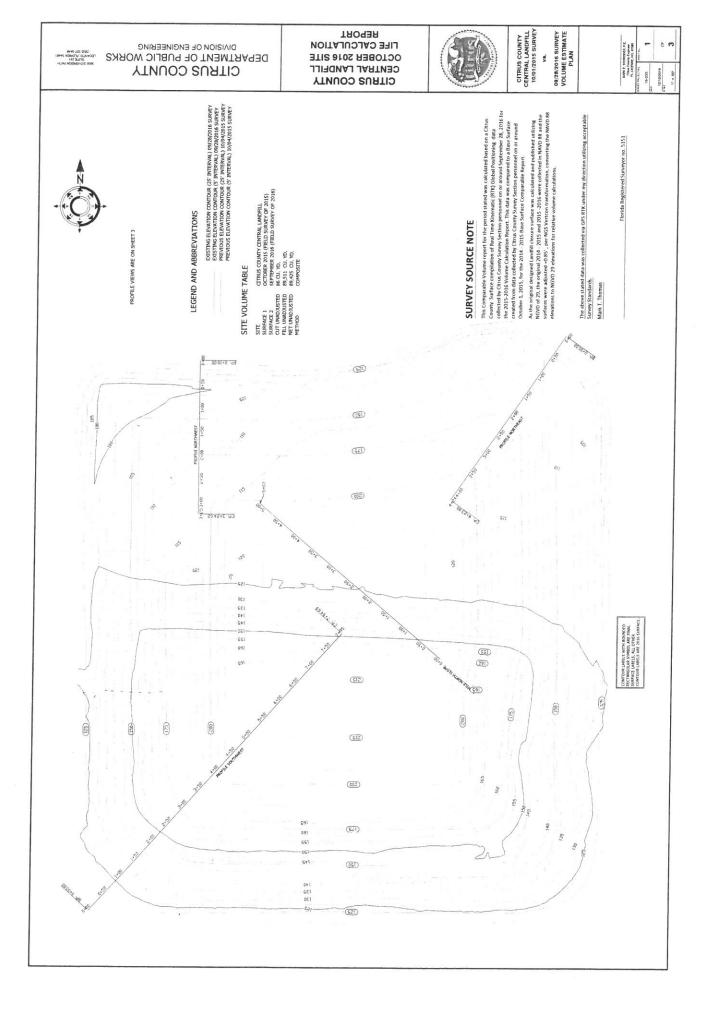
Phases 1/1A, 2, and 3

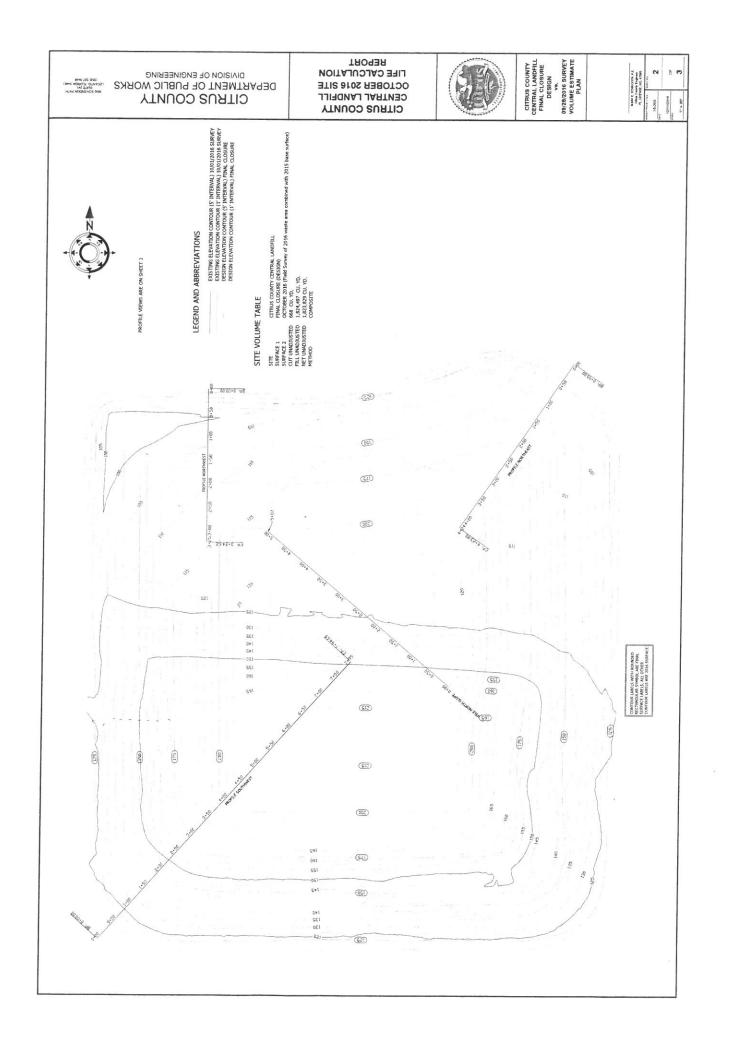
Landfill Side Slopes

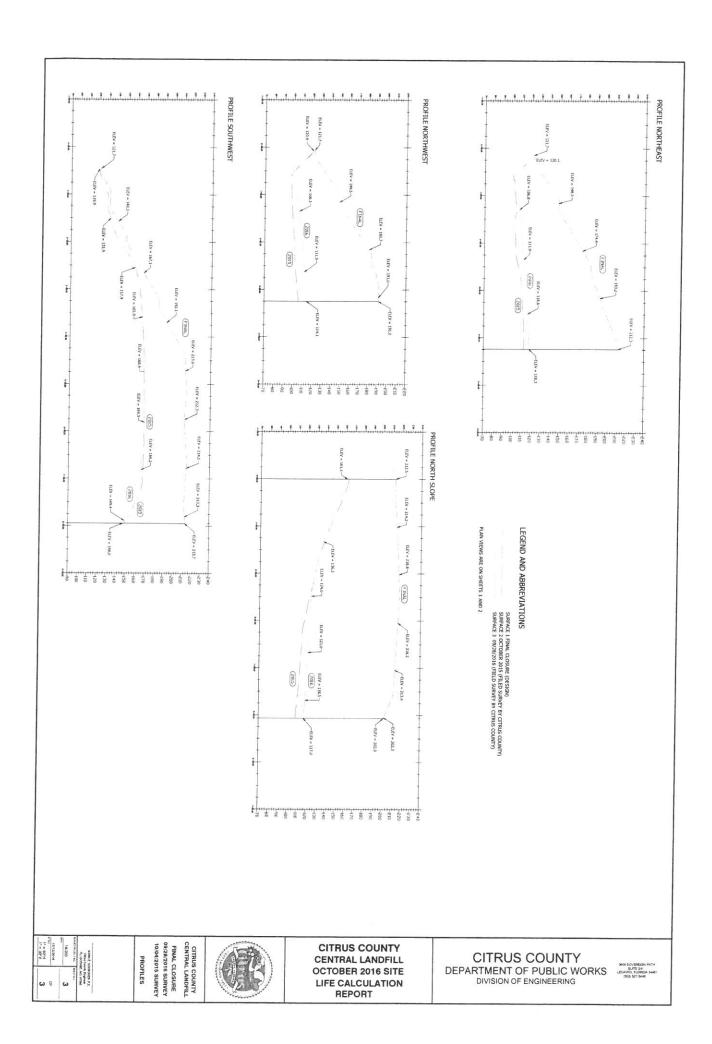
Specific Condition C.13.f of the site's FDEP Permit (Permit No. 21375-008-S0/01) requires that the disposal capacity and site life calculations submitted each year be accompanied by a survey indicating that the actual above grade side slopes are no greater than the design slopes and that the top elevation does not exceed the design elevation. As shown in the cross-sections provided on Sheet 3 of Attachment #1, the side slopes appear to be less than or equal to the design slopes, and the design top elevation of the landfill has not been attained.

ATTACHMENT 1 VOLUME CALCULATION DRAWINGS

(Refer to 24"x36" Drawings)







ATTACHMENT 2 SITE LIFE CALCULATIONS

ATTACHMENT 2 SITE LIFE CALCULATIONS

CITRUS COUNTY SOLID WASTE MANAGEMENT DIVISION CENTRAL LANDFILL SITE LIFE CALCULATION **DECEMBER 2016 REPORT**

Objective:

Calculate the October 2016 remaining site life for Phases 1 thru 3 using waste tonnage records from Citrus

County and calculated waste generation projections.

Approach:

1. Calculate the available airspace as of the most recent survey.

2. Calculate the "Effective Density" using volume consumed between October 2015 through September 2016.

3. Use the effective density to calculate the remaining life of the available airspace.

Available Airspace Calculation:

Airspace available from Oct 2016 to Final Grade =

1,823,829 CY

(From Survey)

Air volume consumed Oct 2015 through September 2016 =

92,654 CY (From SWM)

Effective Density Calculation:

Waste Disposed of between 10/2015 through 09/2016 =

88,186 tons

Effective Density=

88,186

2,000

1,903.56

(From Landfill Records)

92,654

ton CY

ton

lbs/CY

Effective Airspace Consumption Rate=

92,654 CY 88,186 ton 1.05

CY/ton

Assuming the waste will be filled up to the final capacity and allowed to settle before placing the cover soil.

Cap Volume =

0

Subtract Cap Volume from air volume (airspace available) to determine useable waste volume for site life calculation.

CY

Remaining Volume= 1,823,829

CY =

1,823,829 CY

Site Life Calculation

The site life calculation is based on Citrus County waste tonnage records and population projections from the University of Florida Bureau of Business and Economic Research (BEBR). The historic population growth trends have been lower than the BEBR Low estimates. This year population growth was significantly higher than past years. Therefore, the Medium population projection was used.

0

FISCAL YEAR	TONNAGE	VOLUME CONSUMED (CY)	NET REMAINING AIRSPACE (CY)
2013-2014	79,908	113,295	
2014-2015	82,992	87,197	1,823,829
2015-2016	88,186	92,654	1,731,175
2016-2017	90,079	94,643	1,636,532
2017-2018	91,036	95,648	1,540,884
2018-2019	91,992	96,653	1,444,231
2019-2020	92,949	97,658	1,346,572
2020-2021	93,924	98,683	1,247,889
2021-2022	94,899	99,708	1,148,182
2022-2023	95,875	100,732	1,047,450
2023-2024	96,850	101,757	945,693
2024-2025	97,825	102,781	842,911
2025-2026	98,728	103,730	739,182
2026-2027	99,631	104,678	634,503
2027-2028	100,533	105,627	528,876
2028-2029	101,436	106,575	422,301
2029-2030	102,339	107,524	314,777
2030-2031	103,120	108,345	206,432
2031-2032	103,902	109,166	97,266
2032-2033	104,684	109,988	-12,722
2033-2034	105,465	110,809	-123,531
2034-2035	106,247	111,630	-235,161

CONCLUSION:

Estimated Phases 1/1A, 2 & 3 Fill Completion Date = July 2032

CITRUS COUNTY CENTRAL LANDFILL WASTE TONNAGE PROJECTION

Year	*Population (BEBR Medium Estimate)	% Change in Population	Tons/Year
		r opulation	Tons/Tear
2010 ⁽¹⁾	141,236		
2011 ⁽¹⁾	140,956	-0.20%	81,477
2012 ⁽¹⁾	140,761	-0.14%	81,326
2013 ⁽¹⁾	140,519	-0.17%	81,326
2014 ⁽¹⁾	140,796	0.20%	79,908
2015 ⁽¹⁾	138,100	-1.95%	82,992
2016	143,054	3.46%	88,186
2017	146,192	2.15%	90,079
2018	147,762	1.06%	91,036
2019	149,331	1.05%	91,992
2020	150,900	1.04%	92,949
2021	152,500	1.05%	93,924
2022	154,100	1.04%	94,899
2023	155,700	1.03%	95,875
2024	157,300	1.02%	96,850
2025	158,900	1.01%	97,825
2026	160,380	0.92%	98,728
2027	161,860	0.91%	99,631
2028	163,340	0.91%	100,533
2029	164,820	0.90%	101,436
2030	166,300	0.89%	102,339
2031	167,580	0.76%	103,120
2032	168,860	0.76%	103,902
2033	170,140	0.75%	104,684
2034	171,420	0.75%	105,465
2035	172,700	0.74%	106,247
2036	173,860	0.67%	106,956
2037	175,020	0.66%	107,665
2038	176,180	0.66%	108,374
2039	177,340	0.65%	109,083
2040	178,500	0.65%	109,792

^{*}Population projection data for Citrus County originated from the University of Florida Bureau of Economic and Business Research (BEBR) Florida Population Studies, Bulletin 168. A linear interpolation for yearly population increase was performed between the years in bold.

The 2016 "Tons/Year" amount is based on scale house data supplied by the Waste Management Department and is based upon the monthly collection reports from 10/01/2015 - 09/30/2016.

⁽¹⁾ Previously reported value: 2015 Site Life Calculation Annual report.

CITRUS COUNTY CENTRAL LANDFILL WASTE TONNAGE PROJECTION

Year	*Population (BEBR Medium Estimate)	% Change in Population	Tons/Year
			Torrer Toda
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2016	143,054	3.46%	88,186
2017	146,192	2.15%	90,079
2018	147,762	1.06%	91,036
2019	149,331	1.05%	91,992
2020	150,900	1.04%	92,949
2021	152,500	1.05%	93,924
2022	154,100	1.04%	94,899
2023	155,700	1.03%	95,875
2024	157,300	1.02%	96,850
2025	158,900	1.01%	97,825
2026	160,380	0.92%	98,728
2027	161,860	0.91%	99,631
2028	163,340	0.91%	100,533
2029	164,820	0.90%	101,436
2030	166,300	0.89%	102,339
2031	167,580	0.76%	103,120
2032	168,860	0.76%	103,902
2033	170,140	0.75%	104,684
2034	171,420	0.75%	105,465
2035	172,700	0.74%	106,247
2036	173,860	0.67%	106,956
2037	175,020	0.66%	107,665
2038	176,180	0.66%	108,374
2039	177,340	0.65%	109,083
2040	178,500	0.65%	109,792

^{*}Population projection data for Citrus County originated from the University of Florida Bureau of Economic and Business Research (BEBR) Florida Population Studies, Bulletin 168. A linear interpolation for yearly population increase was performed between the years in bold.

The 2016 "Tons/Year" amount is based on scale house data supplied by the Waste Management Department and is based upon the monthly collection reports from 10/01/2015 - 09/30/2016.

⁽¹⁾ Previously reported value: 2015 Site Life Calculation Annual report.



Board of County Commissioners

DEPARTMENT OF PUBLIC WORKS DIVISION OF ENGINEERING

3600 W. Sovereign Path, Suite 241 Lecanto, Florida 34461

Telephone: (352) 527-5446 Fax: (352) 527-5482 Citrus Springs/Dunnellon/Inglis/Yankeetown area - Toll Free (352) 489-2120 TTY Telephone: (352) 527-0825 or (352) 527-5312

August 25, 2017

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

RE: FDEP Permit #21375-18-SO/01

Final Closure Soils

DearMr. Norris,

In accordance with Appendix 4 of the above-referenced permit, *Declaration of Restrictive Covenant and Access Agreement*, Item 2.c, I have performed a site inspection and topographic analysis of the "Soils Covenant Area" depicted in Figure 1 attached to the SCS Engineers letter to Mr. Henry Freedenberg PE, PG dated May, 3, 2016. With this Letter I hereby provide the following certification:

The Quantity Of Suitable Soils Needed For Use As Final Cover Of The Facility Remains Within The Restricted Property.

If you have any questions or require additional information, please don't hesitate to contact me.

Sincerely,

No 67585

NO 07363

*

STATE O

Mark E Schroder P.E.O R

FL License #67585

Citrus County Departifient of Public Works

Engineering Division - Engineer I

Scanned to E-Bridge

Date 8/28/17
Initials RU

Solid Waste Management

Submitted Electronically
SWD Waste@den

SWD_Waste@dep
Addresses & cc

Date: 8/28/17

Initials <u>Ru</u>

813 621-0080 FAX 813 623-6757 www.scsengineers.com

SCS ENGINEERS

May 3, 2016

File No: 09210021.26

Mr. Henry Freedenberg PE, PG

Solid Waste Section Florida Department of Environmental Protection 2600 Blair Stone Road, MS 4565 Tallahassee, Florida 32399

RE:

Soils Covenant for the Citrus County Central Landfill Operations Permit Renewal

Permit No: 21375-18-SO/01

Dear Mr. Freedenberg,

Citrus County intends to complete a covenant with the Florida Department of Environmental Protection in order to allow for the preservation of a volume of soil that the State of Florida could utilize to close the permitted landfill Phases 1 through 3. This would only occur if the County fails to conduct the closure when the landfill is filled to the permitted capacity. SCS Engineers has computed the necessary volumes to provide the closure soil based on computer modeling for the final configuration of the landfill. The area shown on Figure 1 will provide sufficient cover material to close Phases 1 through 3. The attached cover material calculations include one foot of intermediate cover and two feet of protective liner cover.

Please note that the calculations include the one foot thick intermediate cover as per the regulations. The County has been placing the intermediate cover in accordance with the regulations on those locations where the waste fill has reached final grades. Therefore, more soil material is available in the covenant designated borrow area than is necessary for the final closure.

On behalf of Citrus County, SCS is pleased to present this information.

Sincerely,

Ian U. Spurlock, E.I. Staff Professional

SCS ENGINEERS

CC: Cory Dilmore, FDEP

Philip J. Ciaravella, FDEP Larry Brock, Citrus County Henry Norris, Citrus County Cathy Winter, Citrus County

Attachments

Charles E. "Ed" Hilton, Jr. P.E.

Vice President 5131

	SCS ENGINEERS				
		SHEET	1	OF	1
CLIENT	DDG IT CT				
Value 1000 1000 1000 1000 1000 1000 1000 10	PROJECT		JOB NO.		
Citrus County	Operations Permit Renewal		09210021.26	3	
SUBJECT		BY		DATE	
Closure Soil Calculations		IUS		3/9/2016	
		CHECKED		DATE	
		CEH		3/9/2016	

Volume of Soil for closure of Phases 1-3

The volume includes 12" of Intermediate Cover addition to in place cover plus 24" protective cover soil over the liner. From the Closure Cost Estimate Calculations sheets the total soil volume required is:

3' x 1,531,581 sq. ft. = 4,594,743 cu. ft. = 170,176 cu. yd.

The calculation is based on the surface area of the proposed closure, including side slope consideration.

Immediately following this page, Figure 1 shows the approximate area being set aside for soils covenant area. The area is approximately 148,226 sq. ft. and 80 feet deep at its deepest. This area contains a total volume of 171,875 cu. yd. of soil. Therefore there is enough soil in the soils covenant area for the closure construction.

Soil Classifications

Based on the CH2M HILL geotechnical investigation provided to DEP in the <u>Application for Permit, Citrus County Transfer Station</u>, Volume II, received by FDEP on June 11, 2009, the following information is provided.

"The soil boring and soundings generally encountered medium dense to dense sand, silty sand and clayey sand to the maximum borings and sounding depth of 80 feet, except for borings B-1, B-3, B-6 and B-12, which encountered very loose to loose sand from ground surface to approximately 10 feet below the ground surface. The water table was not encountered in any of the borings."

Borings B-1(60'), B-3(60'), B-10(30'), P-6(30') and P-7(25') are near or inside the soils covenant area as seen on Figure 1. The locations of all the borings can be seen on Figure 2 by King Engineering Associates. Based on the Soil classifications from the report the soils are classified as SP, SM, SP-SM, SM-SC and SP-SC. These soil types are acceptable for closures. During the closure project(s) the material excavated will be monitored for unsuitable material and any found will be removed from the application.

Note: The County has decided not to build the Transfer Station and associated improvements shown on the King drawing.

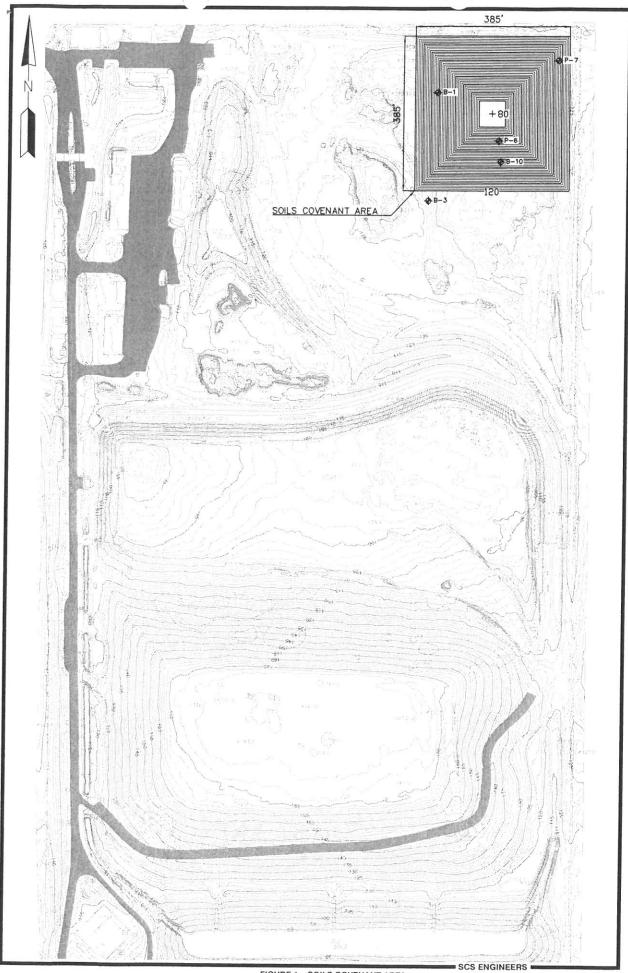


FIGURE 1 - SOILS COVENANT AREA



Bo: J of County Commiss. ners 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

April 5, 2017

Florida Department of Environmental Protection Solid Waste Section 13051 N Telecom Pkwy Temple Terrace, FI 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

Dear FDEP:

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 January, February and March, 2017; together with the Year-to-Date Leachate Tracking Summary.

Exceedances on 2/16/17 and 3/03/17-3/-5/17 from secondary flow phases 1 and 1A were related to intermittent pump failure.

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

Sincerely

Henry C. Norris, Jr. Director, Citrus County

Division of Solid Waste Management

Scanned to E-Bridge Date 4/7/17

initials

Solid Waste Management

HCN:RO

CC: Jeff Rogers, P.E., Director, Department of Public Works (Electronic)

Troy Hays, Jones Edmunds – Gainesville (Electronic)

CITRUS COUNTY CENTRAL LANDFILL

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32 15644	2 14632	2101	200	W OOCHZE	6000	2/371/66 /	0	6361 A	1455	1722 2998161 A	1722	1405651 A	0	5144/14 A	т	W OIECIT	000		041341
15648		1014	107	034300 A	6530	32 24364927 A	32	6329 A	2766	1882 2995395 A	1882	1403769 A	3445	5141269 A		2130 A	200		01/30/17
72		88/	27	074107	6520	33 24359388 4	33	6296 A	2766	2992629 A	1882	1401887 A	3447	513/822 A		V 9007	000		04/29/47
39		564	3 -	924030 A	5270	104 24353109 A	104	6192 A	2720	2989909 A		1400895 A		513/811 A		V 94/117	000		01/28/17
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31		880		037760 A	7640	24339345 4	0	6185 A	1464	837 2986993 A	837	1398286 A	0	513/811 A	_	V 46.017	000		01/26/17
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		117		023650 A	7806	24315204 A	0	6185 A	3365	2979621 A	2606	1392905 A	6034	190 5131/69 A	061	A 41 /602	200	Man de	01/23/47
			310	073478	7806	24307308 A	0	6185 A		2976255 A	2606	1390299 A	6035	5125/34 A	191	V 670607	130	0 0	01/22/
				023162 A	3930	24303376 A	0	6185 A		2973704 A	1171	1389128 A		V 66CRLIC	τ	200000	080	_	01/21/17
				023025 A	5884	0 24297712 A	0	6185 A		2971166 A	1779	1387349 A		5116358 A	_	V 211007	38	7 50	01/20/17
				V DSOLCO	4750	0 24292962 A	0	6185 A	2567	2968599 A	824	1386525 A	т	7000110	7	200440	000	01/19/17 Thu	01/19/
				923063 A	4805	0 24288157 A	0	6185 A	1364	2967235 A		1384/06 A	Т	5111121 A		208892 4	000		01/18/
12431			346	922817 A	5381	24282776 A	0	6185 A	1350	2965885 A		V CI OCOCI	_	1	105	208697 4	000	17 Tue	01/17/17
		220		922815 A	6039	24276737 A	0	6185 A		2963393 A	1	A 11 C70C1	2010	5111127 A	200	208497 A	0.00	17 Mon	01/16/17
3 0		3		922813 A	6040	24270697 A	0	6185 A	2492	V LOGOGEZ		1001ZU	1107	5109764 1		208279 A	0 00		01/15/17
78				922808 A	6648	24264049 A	0	6185 A	T	V CZCGCGZ	1004	1381307		5106374 A	\neg	208061 A	0.00	17 Sat	01/14/17
71			240	922568 A	6789	24257260 A	0	6185 A	T	W 1707667	0/6	1370562 A	т	5106374 A		207860 A	0.00	17 Fri	01/13/17
47		256	2	922566 A	11604	24245656 A	0	P CRIG	T	A OZCACEZ		1378575 0	0	5106374 A		207674 A	0.00	17 Thu	01/12/17
36		253	3	922563 A	9710	24235946 A	C	O I BO A	T	2054220		1376933 A	0	5106374 A	_	207420 A	0.00	01/11/17 Wed	01/11/
55			232	922331 A	0	24235946 A	9	01/0/A	T	A 65.515.05		1375057 A	6268	5100106 A	\neg	207170 A	0.00	17 Tue	01/10/17
30		491	2	922329 A	14157	54 24221789 A	24	0122 A	T	2060549 4	-	1372122 A	30	5100076 A	\neg	206895 A	0.00	01/09/17 Mon	01/09/
30		493	3	922326 A	14157	24207632 A	55	606/ A	T	2047186 A	1405	1370717 A	6	5100070 A		206460 A	0.00	17 Sun	01/08/17
34			0	922326 A	0	24207632 A	-	0000 A	T	2042004	Т	1369312	0	5100064 A	\neg	206025 A	0.00	17 Sat	01/07/17
47			235	922091 A	12515		233	5833 A	T	A \$30000		1366468 A	2429	5097635 A	\neg	205837 A	2.70	17 Fn	01/06/17
31			6	922085 A	3204	24191913 A		5000 A	T	V P802.202		1364697 A	2082	5095553 A		205543 A	0.00	17 Thu	01/05/17
80	141 8380		0	922085 A	2928	24188985 A		5000	T	29355QA		1363760 A	0	5095553 A	242	205301 A	0.00	01/04/17 Wed	01/04/
06	162 11206	16	3	922082 A	36/1	24185314 A		5622 4	1	293310H A	1	1361961 A	1167	5094386 A	141	205160 A	0.00	17 Tue	01/03/17
51	67 9551	267	8	9220/4 A	2007	V /0/10147		V EE BS	1	2930587 A	\neg	1361060 A	4113	5090273 A	159	205001 A	0.00	NON /	11.70110
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CITRUS COUNTY CENTRAL LANDFILL

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15608	819	A 94	926924 A	11295	0 24496304 A	0	6724 A	T	10201 POC	$\overline{}$	1436429 A	2121	5176626 A		230818 ()	1.10	17 Thu	02/23/17
12672	723		1	5934	244903/0 A		W #710	1	3041826 4	1749	1434680 A	т	5176626 A		230093	0.20	17 Wed	02/22/17
7485	786		1	5369	24465001 A	-	877A A	2603	A ECCEPTOR	1727	1432953 A	2408	5174218 A	653	229440 0	0.00	17 Tue	02/21/17
13784	753			55/3	30 244/9420 A		6753 A	T	3037958 A		1432102 A		5174218 A	561	228879 0	0.70	17 Mon	02/20/17
13775	754	A 12	1	55/3	30 244/3835 A			T	3035450 A		1430737 A		5169880 A	-	228193 0	0.00		02/19/17
9918	757		1	2401	0 244000FA	T	T	T	3032952 A		1429372 A		5165541 A	686	227507 0	0.00		71/81/70
6110	1401		1	3182	0 2446374 A	T	6611 A	1	3031456 A	929	1428443 A	2012	5163529 A	748	226759 0	0.00		02/17/17
8989			1	33//	0 244390 J.A		8611 A	1	3030168 A	1635	1426808 A	5	5163524 A	1150	225609 0	0.00	-	02/16/1/
11780			- 1	5777	0 24454519 7		T	1	3027562 A	1006	1425802 A		5163524 A	658	224951 0	0.00	_	1/101/70
11457			-1	5406	244543104		6611 A		3025928 A	1671	1424131 A	2979	5160545 A	628	224323	0.00	i ue	11/11/20
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8	/26		- 1	6790	51 24431886 A	I	1		3017984 A		1418742 A	28	5154200 A		221558	0.00		11/01/20
13289	1075		W RICCZE	2147	45 24425709 A		1		3016681 A	878	1417864 A		5154200 A	676	220882 0	000	_	11/60/20
12983	717			1770	0 24412070 A		T	1	3014204 A	1646	1416218 A		5152446 A	690	220192	000		18072
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9907	974		1	5454	0 24403140 A		T	1310	3010322 A		1414367 A	\neg	5147051 A	543	218974 0	000	02/06/17 Mon	02/06/
9910	975		1	5455	0 24397685 A		T	T	3008289 A	1278	1413089 A	\neg	5145909 A	795	218179 0	0 00	17 Sun	02/05/17
6667	576	A 45	925017 A	3420	0 24394265 A		T	1	3006255 A	1278	1411811 A	1143	795 5144766 A	795	217384 0	0.00		02/04/17
8190	750		1	5937	24388328 A		T	T	3004815	1807	1410004 A	0	531 5144766 A	531	216853 0	0.00	17 Fri	02/03/17
6841	651			4644	24363684 A		T	1787	3003428	866	1409138 A	0	713 5144766 A	713	216140 0	0.00	_	02/02/17
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4/6/2017 Shared/ Leachate Files

CITRUS COUNTY CENTRAL LANDFILL

57				300		65536		42153		60011		24743		1.00	TOTAL	10
5 5 2	933485		24714906		6933		3121645		148640/		00211420					
7 -	933435 A	4081	0 24710825 A		6933 A	1389	3120256 A	905	1485502 A	77	5241123 A	000	269620	000		04/01/1
	933378 A	3743	0 24707082 A		6933 A	2441	3117815 A	906	1484596 A	+	W 1016070		259114	000	_	03/31/17
13	933254 A	3185		0	6933 A	1390	3116425 A	1764	1482832 A		5237059 A		258601	000	Thu	03/30/17
277	037077 A	4631	24699366 A	0	6933 A	2515	3113910 A	978	1481854 A	Т	0234//3 A		250070	000	7 Wed	03/29/17
00	A SCHOOL	4444	0 24694922 A	0	6933 A	2536	3111374 A	1730	1480124 A	1	5233721 A	1	267444	3 8		03/28/47
170	V ODSCED	4429	0 24690493 A	0	6933 A	2014	3109360 A	1305	1478819 A	1	5231945 A	523	107007	+		0.37777
100	V 7142CE	4429	24686064 A	0	6933 A	2015	3107345 A	1306	1477513 A		5230168 A	/23	265304	+	_	03/26/17
98	032412 A	COOL	0 24682182 A	000	6933 A		3105937 A	1794	1475719 A		5228022 A	555	254923 O	+	_	03/24/17
282	A 250256	2005	24678297 A		6933 A		3103384 A	944	1474775 A	0	5228022 A	625	254298 O	0.00	_	03/23/17
269	931/63 A	4960	24000012 A		6933 A	1	3101980 A	1762	1473013 A		5228022 A	576	253722 O	000	-	11/2/10
266	93149/ A	4400	24666060 A		E033 A	1	3099299 A	1360	1471653 A	2740	5225282 A		253038 O	0.00		03/21/1/
205	931292 A	4904	0 24664496 4		6933 A	1	3097869 A	1361	1470292 A	25	5225257 A	748	252290 O	000	-	03/20/1/
206	931086 A	4954	34650633 A		V 2200	1	3095465 A		1468963 A	1147	5224110 A	729	251561 O	000		11/81/50
94	W ZEGOCE	0000	24649200 A		V 2259		3093060 A		1467633 A	1148	5222962 A		250831 O	000		11/81/60
309	A CBOOCA	5345	24649365 A	0 0	6933 A		3091308 A		1466745 A	11	5222951 A		249954 O	0.00	-	03/1////
116	93056/ A	6000	001 7C042 C		6924 A		3089916 A	1760	1464985 A	10	5222941 A		249177 O	000	-	03/16/1/
13/	930430 A	0567	A 0/1670h7		6015	1	3087342 A	1341	1463644 A	6	5222935 A		248305 O	000		03/10/1/
76	930354 A	0003	24022013 A		6901 A	1	3084545 A	1342	1462302 A		5222919 A	894	247411 O	0.00	7 Tue	03/14/1/
241	930113 A	4829	246777642 A	7	6804	1	3080771 A	1862	1460440 A	6865	5216054 A	617	246794 O	1.00	7 Mon	03/13/17
242	929871 A	4829	24617781 A		6888	1381		1322	1459118 A	1219	5214835 A	661	246133 O	0.00		03/12/17
336	929536 A	443/	2 240005 A	2	6903	T	_	1323	1457795 A	1220	5213615 A	662	245471 O	0.00	17 Sat	03/11/17
78	929458 A	4/59	22 Z40U3/29 A	T	6970 0	1		944	1456851 A	0	5213615 A	667	244804 O	0.00		03/10/17
200	A 897,676	CCBG	53 34803750 A		T	1	\neg	1710	1455141 A	2036	5211579 A	838	243966 O	0.00	+	11/60/50
340	928918 A	5481	A C741 ACA7		6810 A	2947		1953	1453188 A	0	5211579 A	747	243219 O	0.00		03/08/17
137	928781 A	6641	0 24584/84 A	T	T	1	3068458 A	1788	1451400 A	0	5211579 A	660	242669 O	0.00	17 Tue	03/07/17
181	928600 A	5899	245/8885 A		W 7679	T	3085833 A	1851	1449549 A	2946	5208633 A	720	241839 O	0.00	17 Mon	03/06/17
184	928416 A	5899	245/2986 A		T	Ť	\neg	1181	1448368 A	12432	5196201 A	1802	240037 O	0.00	17 Sun	03/05/17
39	928377 A	5202	2456//84 A	1	0700 A	T	$\overline{}$	1181	1447187 A	12432	5183769 A		238235 O	0.00	17 Sat	03/04/17
4	928373 A	5454	22 24562330 A		T	T	V 5000500	1180	1446005 A	542	5183227 A	1842	236293 O	0.00	_	03/03/17
6	928367 A	5495	24556835 A	T	T	1	Т	873	1445132 A	0	5183227 A		235417 O	0.00	17 Thu	03/02/17
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CITRUS COUNTY CENTRAL LANDFILL LEACHATE GALLONS

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0	0	0	0	0	0	0	0	0	0	0.00	JUNE
0	0	0	0	0	0	0	0	0	0	0.00	MAY
0	0	0	0	0	0	0	0	0	C	0.00	Arkir
233826	159000	0	159000	0	392826	c	70000	00000			>DB
711401	101000		.0.000				20067	355838	6921	1 00	MARCH
134770	197000	0	197000	0	331772	0	23137	299649	8986	3.10	FLBRUARY
236409	169000	0	169000	0	405409	0	14187	381136	10086	3.90	'UARY
BALANCE	DISPOSAL	ON-SITE	OFF-SITE	OFF-SITE	LEACHATE	PROJECT	PHASE 1,1A, 2 & 3	PH	LEACHATE	<u></u>	MONTH
		ETTLOEN	(KAVV) FOR	(NAV) FOX		SBECIAL	LEACHATE		TOTAL OF	RAN	
			(BANA) FOR	(BAM) FOR		S S S	SECONDARY		7-ACRE		
			LEACHATE !			IFACHATE	TOTAL OF	TOTAL OF			
			FORCE MAIN	HAULED		SURFACE	80-ACRE	80-ACRE			

Scanned to E-Bridge Date 4/7/7 Initials 20 Solid Waste Menagement

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