



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Jonathan P. Steverson
Secretary

Permit Issued to:

Citrus County Board of County Commissioners
230 West Gulf to Lake Highway
Lecanto, Florida 34461
352-527-5477

WACS Facility ID No.: 39859
Facility Name: Citrus County Class I Central Landfill
Facility Address: 230 West Gulf to Lake Highway
Lecanto, Citrus County, Florida

Contact Person:
Dan Sherlock
230 West Gulf to Lake Highway
dan.sherlock@citrusbocc.com
352-527-7670

Solid Waste Renewal of Operation Permit– Landfill
Permit No.: 21375-025-SO-01
Replaces Permit No.: 21375-018-SO-01

As modified by: Permit No 21375-024-SO-MM issued on 12-19-2013

Includes Minor Modification: 21375-026-SO-MM

Includes Minor Modification: 21375-027-SO-MM

Includes Intermediate Modification: 21375-028-SO-IM

Permit Issued: 08/15/2016
Permit Renewal Application Due Date: 06/15/2026
Permit Expires: 08/15/2026

Permitting Authority
Florida Department of Environmental Protection
Permitting and Compliance Assistance Program
2600 Blair Stone Road, MS 4565
Tallahassee, Florida 32399-2400
850-245-8707 (voice)
850-245-8803 (fax]

SECTION 1 - SUMMARY INFORMATION

A. Authorization

The permittee is hereby authorized to operate the facility described below in accordance with the specific and general conditions of this permit and any documents attached to this permit or specifically referenced in this permit and made a part of this permit.

This solid waste operation permit is issued under the provisions of Chapter 403, Florida Statutes, (F.S.), and Chapters 62-4 and 62-701, Florida Administrative Code, (F.A.C.).

This permit does not relieve the permittee from complying with any other appropriate local zoning or land use ordinances or with any other laws, rules or ordinances. Receipt of any permits from the Department does not relieve the applicant from obtaining other federal, state, and local permits and/or modifications required by law, including those from other Sections within the Department or of the Water Management District.

B. Facility Location

This facility is located near Highway 44 approximately 3 miles east of Lecanto, Citrus County, Florida. The facility is located in Section 1, Township 19S, Range 18E at Latitude 28 ° 51' 07" N. and Longitude 82 ° 26' 12" W (WGS 84).

C. Facility Description

The permittee is hereby authorized to operate a Class I landfill with leachate storage and related facilities (approximately ~~80~~ 99.5 acres) and to provide post closure care of the closed Class I landfill (approximately 60 acres) referred to as the Citrus County Central Landfill subject to the specific and general conditions attached.

Specific conditions are for the Class I Landfill with Leachate Storage, Closed Class I landfill and related appurtenances (currently subject to Final Consent Agreement #05-1078) and the Gas Collection and Control System. Other site operations that are not included as part of this permit are a waste tire processing facility which currently operates under a separate Department Permit and an SOPF registered in accordance with 62-709 F.A.C.

General Information - Phase I, Cells 1, 1A, 2, & 3

Disposal acres	25.8 <u>32</u> acres
Bottom liner design & LCS design	Phase 1 – 16.5 acres – Single, 60 mil HDPE, Primary LCS piping Phase 1A – 3.3 acres – Double, 60 mil HDPE, Primary LCS piping, Geonet LDS Phase 2 – 6 acres – Double, 60 mil HDPE, Primary LCS piping, Tri-planar Geonet LDS Phase 3 – 6.8 acres – See Construction Permit #21375-013-SC/01, or its successors 6.2 acres, GCL, Double 60 mil HDPE textured geomembrane, 259 mil biplaner, geocomposite (secondary), 300 mil triplaner geocomposite (primary), Primary LCS piping
Bottom elevation of cell	Phase 1A – min. +35.35 feet NGA V D at sump Phase 2 – min +35.00 feet NGVD Phase 3 – min 48.00 feet NGA V D, in primary sump
Final top elevation at buildout (including cover)	max. +218.1 feet NAVD (max 215 feet NGA V D in Phase 1/1A)
Slopes	max. 3H:1V side slopes, 3-5% top slope
Gas Collection and Control System	Originally permitted under Construction Permit #21375-016-SC/08, as modified by this permit or its successors

Phase 4

<u>Disposal Acres</u>	<u>19.5</u>
<u>Bottom liner design & LCS design</u>	<p><u>The primary leachate collection and removal system (LCRS) and secondary leak-detection systems (LDS) of the bottom liner are composed of a combination of synthetic and natural materials. The LCRS and LDS consist of the following components from top to bottom:</u></p> <ul style="list-style-type: none"> ▪ <u>24-inch-minimum granular drainage layer with hydraulic conductivity of not less than 1 × 10⁻³ centimeters per second (cm/sec).</u> ▪ <u>Primary LCRS geocomposite – double-sided, nonwoven (at some locations).</u> ▪ <u>Primary geomembrane – 60-mil leachate collection HDPE textured geomembrane liner.</u> ▪ <u>Secondary LDS geocomposite – double-sided, nonwoven.</u> ▪ <u>Secondary geomembrane – 60-mil leak-detection HDPE textured geomembrane liner.</u> ▪ <u>GCL.</u> ▪ <u>Prepared subgrade.</u>
<u>Bottom elevation of cell</u>	<u>36 feet NAVD</u>

<u>Final top elevation at buildout (including cover)</u>	<u>218 feet NAVD</u>
<u>Slopes</u>	<u>max. 3H:1V</u>
<u>Gas Collection and Control System</u>	<u>Horizontal collection lines will be installed for early gas collection. An amended Design Capacity and NMOC Emission Rate Report will be prepared when Phase 4 commences construction, and the Title V Permit will be modified to include Phase 4. Methane accumulation within the landfill will be controlled by installing gas extraction wells. A negative pressure will be applied to the extraction wells via a wellhead that is connected to a gas collection header constructed of HDPE pipe. The gas will then be conveyed through the header to the candlestick flare. The gas extraction wells will be installed on finished side slopes and top slopes on approximately 200-foot centers.</u>

The following is additional information about the facility:

- The facility has a Title V Air Permit (#0170366- 007AV) issued on March 15, 2021 with an expiration date of March 15, 2026. The facility is required to meet the requirements of 62-701.530, F.A.C. and the facility's Title V Air Permit.
- Citizens' Service Area- A Citizens' Service Area is located at the facility, north of the Phase 3, Class I Landfill. The Service Area serves as a drop off point for residents. The Center only accepts household waste, which may include yard trash. All waste which may produce leachate is containerized. The Citizens' Service Area is described in section K.2.C. of the approved Operation Plan.
- Household Hazardous Waste (HHW) – A HHW collection center is located at the facility. The collection center minimizes the quantities of these materials being disposed of in the landfill. The HHW collection center is described in section K.2.C. of the approved Operation Plan.

D. Appendices Made Part of This Permit

APPENDIX 1 - General Conditions

APPENDIX 2 – List of Approved Documents Incorporated into the Permit

APPENDIX 3 – Water Quality Monitoring Plan

~~APPENDIX 4 – Declaration of Restrictive Covenant and Access Agreement, Citrus County Central Landfill Operation Permit Renewal No. 21375-25-SO-01~~

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SECTION 2 - SPECIFIC CONDITIONS

A. Administrative Requirements

1. Documents Part of This Permit. The permit application as revised in final form replaced or amended in response to the Department's Request(s) for Additional Information are contained in the Department's files and are made a part of this permit. Those documents that make up the complete permit application are listed in APPENDIX 2.
2. Permit Modification. Any change to construction, operation, monitoring, or closure requirements of this permit may require a modification to this permit, in accordance with the provisions of Rule 62-701.320(4), F.A.C.
3. Permit Renewal. In order to ensure uninterrupted operation of this facility, a timely and sufficient permit renewal application must be submitted to the Department in accordance with Rule 62-701.320(10), F.A.C. A permit application submitted at least 61 days prior to the expiration of this permit is considered timely and sufficient.
4. Transfer of Permit or Name Change. In accordance with Rule 62-701.320(11), F.A.C., and Rule 62-4.120, F.A.C., the Department must be notified by submitting Form 62-701.900(8) within 30 days: (a) of any sale or conveyance of the facility; (b) if a new or different person takes ownership or control of the facility; or (c) if the facility name or permittee's legal name is changed.
5. Submittals Required Every Five Years. No later than 08/15/2021, the permittee shall submit a report to the Department that contains the following:
 - a. An updated closure plan to reflect changes in closure design, long-term care requirements, and financial assurance requirements.
 - b. A revised closure cost estimate, made by recalculating the total cost of closure or long-term care, in current dollars.
 - c. A demonstration that the leachate collection system has been water pressure cleaned or inspected by video recording.
 - d. An updated operation plan, if operational procedures have changed.

B. Construction Requirements

1. Construction authorized. This permit does not authorize any bottom liner construction activities.

C. Operation Requirements

1. General Operating Requirements. The Permittee shall operate the landfill in accordance with the approved Operation Plan as listed in APPENDIX 2, Document 1.~~fb~~. The Department shall be notified before any changes, other than minor deviations, to the

approved Operation Plan are implemented in order to determine whether a permit modification is required.

2. Operation Plan. A copy of the approved Operation Plan, including the operating record as defined in Rule 62-701.500(3), F.A.C., shall be kept at the onsite administration building and shall be accessible to landfill operators.
3. Authorized Waste Types. The facility is authorized to manage only the following waste types:
 - a. Waste types defined in Rule 62-701.200, F.A.C.:
 - 1) Class I waste.
 - 2) Class III waste.
 - 3) Construction and demolition debris.
 - 4) Yard trash.
 - 6) Industrial Sludge.
 - 7) Domestic Sludge.
 - 8) White goods.
 - b. Other Wastes Specifically Authorized:
 - 1) Asbestos. Asbestos may be accepted and managed in accordance with the requirements of 62-701.520(3), F.A.C.
 - 2) Contaminated Soil. Contaminated soil acceptance is conducted on a case-by-case basis in accordance with 62-713, F.A.C.
 - 3) Motor Vehicles: Motor vehicles are not currently accepted at the CCCL; if motor vehicles are accepted, they will be handled and disposed of in accordance with the requirements of 62-701.520(1), F.A.C.
 - 4) Shredded Waste: The CCCL does not shred waste nor does it currently accept shredded waste; if shredded waste is accepted it will be handled and disposed of in accordance with the requirements of 62-701.520(2), F.A.C.
 - c. Special Wastes: The disposal or control of special wastes shall be in accordance with the most recently approved Operation Plan, Rules 62-701.300(8) and 62-701.520, F.A.C., and any other Department rules, to protect the public safety, health and welfare. The special wastes shall be handled on a first-in, first-out basis.
4. Unauthorized Waste Types. The facility is not authorized to process or dispose any waste types not listed in C.3. above. In addition, the facility is not authorized to process or dispose the following wastes in the Class I Landfill in accordance with Rule 62-701.300(8), F.A.C.
 - a. Lead-acid batteries;
 - b. Used oil, except as provided in Chapter 62-710, F.A.C.;
 - c. Yard trash in a Class I landfill, except as may be allowed pursuant to Section 403.708(12)(c), F.S.;
 - d. Whole waste tires, except as provided in Chapter 72-711, F.A.C.

Any unauthorized waste inadvertently received by the facility shall be managed in accordance with the approved Operation Plan.

5. Waste Management and Handling.
 - a. Solid waste shall be formed into cells to construct horizontal lifts. Two working faces may be used in accordance with the approved Operation plan to separate residential and commercial haulers. The working face(s) of the cell, and side grades above land surface, shall be at a slope no greater than three feet horizontal to one-foot vertical rise or as authorized by this permit in accordance with the approved Operation Plan.
 - b. No solid waste shall be disposed of outside of the permitted footprint of the solid waste disposal units.
 - c. The sequence of waste filling shall be as specified in the approved Operation Plan.
6. Landfill Elevation. Final top elevation of the landfill will be 218.1 ft. ~~NGAVD~~, as depicted on the final closure plan. (See APPENDIX 2, Document [1. b\(Drawing FC-1\)](#))
7. Initial Waste Placement. The first layer of waste placed above the liner and leachate collection system shall be a minimum of four feet in compacted thickness and consist of selected wastes containing no large rigid objects that may damage the liner or leachate collection system.
8. Cover Requirements. All solid waste disposed of in the Class I landfill shall be covered as required by Rule 62-701.500(7), F.A.C.
 - a. Initial Cover. Initial cover shall be applied and maintained at the end of each working day in the Class I landfill in accordance with Rule 62-701.500(7)(e) and (f), F.A.C., so as to protect the public health and welfare. A 50/50 mixture (by volume) of mulched yard trash/land clearing debris and soil may be spread over initial cover for soil stabilization and erosion control.
 - b. Alternate initial cover materials that are not identified herein shall be approved by the Department prior to use at the facility. Alternate initial cover material shall not be used outside of the bermed working face area without specific prior Department approval.
 - 1) For those areas where solid waste will be deposited on the working face within 18 hours, initial cover may consist of a temporary cover or tarpaulin.
 - 2) Processed yard waste, unscreened, and then mixed with soil provided that soil makes up at least 50 percent by volume of the mixture, and applied in a six-inch compacted layer.
 - 3) ProGuard SB.
 - 4) ConCover.
 - 5) Posi-Shell.
 - 6) FINN Waste Cover.

- c. Intermediate Cover. Intermediate cover shall be applied and maintained in accordance with Rule 62-701.500(7)(g), F.A.C. An intermediate cover of one (1) foot of compacted earth in addition to the six (6) inch layer of initial cover shall be applied within seven (7) days of cell completion at all landfills if final cover or an additional lift is not to be applied within 180 days of cell completion.
 - d. Soil materials, which have been previously used for intermediate cover, shall not be re-used for intermediate cover. These materials may be re-used as initial cover provided the runoff from these areas is managed as leachate.
9. Erosion Control. Erosion control measures shall be employed to correct any erosion which exposes waste or causes malfunction of the storm water management system. Such measures shall be implemented within three days of occurrence. If the erosion cannot be corrected within seven days of occurrence, the landfill operator shall notify the Department and propose a correction schedule.
10. Contingency Plan and Notification of Emergencies. The Permittee shall notify the Department in accordance with the approved Contingency Plan. Notification shall be made to the Solid Waste Section of DEP's Southwest District office at 813-470-5700 or at web address SWD_Waste@dep.state.fl.us
11. Housekeeping. The facility shall be operated to control dust, vectors, litter and objectionable odors. If objectionable odors are confirmed beyond the landfill property boundary, the owner or operator shall comply with the gas management requirement in Section 2, Part E.
12. Leachate Management.
 - a. The permittee shall operate the leachate management system (including the collection, removal, and storage), and maintain the system as designed, so that leachate is not discharged from the system except as provided for in the Operation Plan.
 - b. Routine inspections and maintenance of the leachate management system shall be conducted in accordance with the schedule established in the Operation Plan.
 - c. The leachate collection pipes shall be cleaned or video inspected at least once every five years. A summary of the results shall be submitted in accordance with Specific Condition 2.A.5.c.
 - d. The permittee, on a daily basis, shall record quantities of leachate generated in gal/day and precipitation at the facility, and shall compare these measurements.
13. Spotters and Operators. This facility shall have the minimum number of spotters present when waste is accepted as specified in the Operation Plan, to be located as specified in the Operation Plan. A trained operator shall be on duty at the facility at all times the facility is operating. Approved training courses can be found at the following web site: <http://www.treco.ufl.edu/sw>.

14. Record Keeping Requirements.
 - a. Waste Quantity Records. Waste records shall be compiled monthly, and copies shall be provided to the Department no less than annually by February 1. This information shall be reported to the Department through the DEP Business Portal located at: <http://www.fldepportal.com/go>.
 - b. Estimate of Remaining Life. The permittee shall submit the annual estimate of the remaining life and capacity by ~~March~~ September 1 of each year. The report is required by Rule 62-701.500(13)(c), F.A.C. and must be submitted to the District Office and to:
Florida Department of Environmental Protection
Solid Waste Section, MS 4565
2600 Blair Stone Road
Tallahassee, Florida, 32399-2400
15. Hazardous Waste. If any regulated hazardous wastes are discovered to be deposited at the facility, the facility operator shall promptly notify the Department, the person responsible for shipping the wastes to the facility, and the generator of the wastes, if known. The area where the wastes are deposited shall immediately be cordoned off from public access. If the generator or hauler cannot be identified, the facility operator shall assure the cleanup, transportation, and disposal of the waste at a permitted hazardous waste management facility. In the event that hazardous wastes are discovered they shall be managed in accordance with the procedures provided in facility Operation Plan.
16. Stormwater. Leachate shall not be discharged into the stormwater management system. Stormwater or other surface water which comes into contact with or mixes with the solid waste or leachate shall be considered leachate and is subject to the requirements of Rule 62-701.500(8), F.A.C.

D. Water Quality Monitoring Requirements

1. Zone of Discharge. The zone of discharge for this facility shall be a three dimensional volume described as extending horizontally 100 feet from the limits of the landfill disposal area or to the property boundary, whichever is less and shall extend vertically down to the first semi-confining unit within the upper Floridian aquifer. The permittee shall ensure that Class G-II water quality standards will not be exceeded at the boundary of the zone of discharge, per Rule 62-520.420, F.A.C., and that ground water minimum criteria will not be exceeded outside the boundary of the zone of discharge, per Rule 62-701.320(17), F.A.C.
2. Water Quality Monitoring Plan. The Water Quality Monitoring Plan for this permit is included in APPENDIX 3.
3. Ground Water Assessment. The permittee shall perform the ground water assessment as required by Final Consent Agreement #05-1078 and its succeeding documents.
4. Corrective Actions. The permittee shall implement corrective actions at the facility to address exceedances of ground water standards reported for monitor wells at the south

and west property boundaries in accordance with Final Consent Agreement #05-1078 Any proposed changes to the monitoring plan (monitoring well locations, sampling frequency or monitoring parameters) that result from the implementation of these corrective actions shall require a modification to the permit in accordance with Specific Condition 2.A.2, prior to the implementation of the monitoring plan changes.

E. Gas Management System Requirements

1. Construction Requirements. All construction shall be done in accordance with the approved gas management system design, drawings, and specifications as specified in Permit # 21375 016-SC/08 or its successors. The Department shall be notified before any changes, other than minor deviations, to the approved design are implemented in order to determine whether a permit modification is required.
 - a. Locations of ambient monitoring points are specified in the approved Operation Plan (See APPENDIX 2, Document 1.f.b.) and are identified in the following table:

Ambient Monitoring Locations			
Administration Building	N/A	Structure	Along baseboard, at cracks in concrete slab or flooring, ground level cabinets, electrical outlets and panels.
Modular Building	N/A	Structure	Along baseboard, at cracks in concrete slab or flooring, ground level cabinets, electrical outlets and panels.
Shop	N/A	Structure	Along baseboard, at cracks in concrete slab or flooring, ground level cabinets, electrical outlets and panels.
Scale House	N/A	Structure	Along baseboard, at cracks in concrete slab or flooring, ground level cabinets, electrical outlets and panels.
<u>Equipment Building</u>	<u>N/A</u>	<u>Structure</u>	<u>Along baseboard, at cracks in concrete slab or flooring, ground level cabinets, electrical outlets and panels.</u>
<u>Storage Shed</u>	<u>N/A</u>	<u>Structure</u>	<u>Along baseboard, at cracks in concrete slab or flooring, ground level cabinets, electrical outlets and panels.</u>
Treatment Facility	N/A	Structure	Along baseboard, at cracks in concrete slab or flooring, ground level cabinets, electrical outlets and panels.
Firing Range	N/A	7 Structures	Along baseboard, at cracks in concrete slab or flooring, ground level cabinets, electrical outlets and panels.
Hazardous Waste Drop-Off Center	N/A	4 Structures	At cracks in concrete slab or flooring, ground level cabinets, electrical outlets and panels.
<u>Chemical Containers 1 and 2</u>	<u>N/A</u>	<u>Cargo Container</u>	<u>At cracks in concrete slab or flooring, ground level cabinets, electrical outlets and panels.</u>
<u>Electronics Container</u>	<u>N/A</u>	<u>Cargo Container</u>	<u>At cracks in concrete slab or flooring, ground level cabinets, electrical outlets and panels.</u>

<u>Paints Container</u>	<u>N/A</u>	<u>Cargo Container</u>	<u>At cracks in concrete slab or flooring, ground level cabinets, electrical outlets and panels.</u>
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b. Locations of LFG monitoring probes are specified in the approved Operation Plan (See Appendix 2. Document 1.f.b.) and are identified in the following table:

Monitoring Probe Number	Depth of Intake (ft)	Station Type	Location Description
GP-1	20	Gas Probe	North of Administration Building
GP-1	40	Gas Probe	North of Administration Building
GP-2	20	Gas Probe	North property boundary Near MW-22
GP-2	40	Gas Probe	North property boundary Near MW-22
GP-3	20	Gas Probe	North property boundary Near MW-18
GP-3	40	Gas Probe	North property boundary Near MW-18
GP-4	20	Gas Probe	Northwest corner of property
GP-4	40	Gas Probe	Northwest corner of property
GP-5	20	Gas Probe	West property boundary near northwest corner
GP-5	40	Gas Probe	West property boundary near northwest corner
GP-6	20	Gas Probe	West property boundary
GP-6	40	Gas Probe	West property boundary
GP-7	20	Gas Probe	West property boundary
GP-7	40	Gas Probe	West property boundary
GP-8	20	Gas Probe	West property boundary near southwest corner
GP-8	40	Gas Probe	West property boundary near southwest corner
GP-9	20	Gas Probe	South property boundary near southwest corner
GP-9	40	Gas Probe	South property boundary near southwest corner
GP-10	20	Gas Probe	South property boundary
GP-10	40	Gas Probe	South property boundary
GP-11	20	Gas Probe	South property boundary west of Flare Station
GP-11	40	Gas Probe	South property boundary west of Flare Station
GP-12	25	Gas Probe	South property boundary southwest of Flare Station
GP-12	50	Gas Probe	South property boundary southwest of Flare Station
GP-12	75	Gas Probe	South property boundary southwest of Flare Station
GP-13	25	Gas Probe	South property boundary
GP-13	50	Gas Probe	South property boundary
GP-13	75	Gas Probe	South property boundary
GP-14	25	Gas Probe	South property boundary near southeast corner
GP-14	50	Gas Probe	South property boundary near southeast corner
GP-14	75	Gas Probe	South property boundary near southeast corner
GP-15	25	Gas Probe	Southeast corner of property
GP-15	50	Gas Probe	Southeast corner of property
GP-15	75	Gas Probe	Southeast corner of property
GP-16	25	Gas Probe	East property boundary near southeast corner
GP-16	50	Gas Probe	East property boundary near southeast corner
GP-16	75	Gas Probe	East property boundary near southeast corner
GP-17	25	Gas Probe	East of Phase I
GP-17	50	Gas Probe	East of Phase I

GP-17	75	Gas Probe	East of Phase I
GP-18	25	Gas Probe	East of Phase II
GP-18	50	Gas Probe	East of Phase II
GP-18	75	Gas Probe	East of Phase II
GP-19	25	Gas Probe	Northeast of Phase II
GP-19	50	Gas Probe	Northeast of Phase II
GP-19	75	Gas Probe	Northeast of Phase II
GP-20	105	Gas Probe	East property boundary near southeast corner
GP-21	115	Gas Probe	East of Phase II
GP-22	70	Gas Probe	North of Administration Building
GP-23	100	Gas Probe	North of Administration Building
GP-24	70	Gas Probe	North property boundary Near MW-22
GP-25	100	Gas Probe	North property boundary Near MW-22
GP-26	70	Gas Probe	North property boundary Near MW-18
GP-27	100	Gas Probe	North property boundary Near MW-18
GP-28	70	Gas Probe	Northwest corner of property
GP-29	100	Gas Probe	Northwest corner of property
GP-30	105	Gas Probe	Southeast corner of property
<u>GP-31 (Proposed)</u>	<u>40</u>	<u>Gas Probe</u>	<u>East property boundary. East of Phase 4</u>
<u>GP-32 (Proposed)</u>	<u>40</u>	<u>Gas Probe</u>	<u>Northeast corner of property.</u>
<u>GP-33 (Proposed)</u>	<u>40</u>	<u>Gas Probe</u>	<u>North property boundary. North of Phase 4.</u>
<u>GP-34 (Proposed)</u>	<u>40</u>	<u>Gas Probe</u>	<u>North property boundary. North of Phase 4.</u>
MW-1R	N/A	GW Well	North of Administration Building
MW-2	N/A	GW Well	Northeast corner of property
MW-3	N/A	GW Well	Southeast corner of property
MW-4	N/A	GW Well	Northwest corner of Phase 3
MW-5	N/A	GW Well	Northwest corner of Phase 3
MW-6	N/A	GW Well	Northwest corner of Phase 3
MW-7	N/A	GW Well	Southeast corner of Phase 2
MW-8R	N/A	GW Well	West of closed Landfill Area B
MW-9	N/A	GW Well	West of closed Landfill Area B
MW-10	N/A	GW Well	North of closed Landfill Area B
MW-11	N/A	GW Well	Northwest corner of Closed Landfill Area B
MW-12	N/A	GW Well	West of Closed Landfill Area B
MW-13	N/A	GW Well	Near southwest corner of Closed Landfill Area B
MW-14	N/A	GW Well	At southwest corner of Closed Landfill Area B
MW-15	N/A	GW Well	South of Closed Landfill Area B
MW-16	N/A	GW Well	Southeast corner of Closed Landfill Area A
MW-17	N/A	GW Well	Southwest of Phase I
MW-18	N/A	GW Well	Near northwest corner of property
MW-19	N/A	GW Well	North of closed Landfill Area B
MW-20	N/A	GW Well	North of closed Landfill Area B
MW-21	N/A	GW Well	North of Closed Landfill Area A
MW-AA	N/A	GW Well	Near MW-12
MW-B	N/A	GW Well	East of Phase I
MW-E	N/A	GW Well	West of Phase I

PZ-1	N/A	GW Well	Near northwest corner of property
PZ-2	N/A	GW Well	Near northwest corner of property

c. Locations of gas extraction or venting wells are specified and shown on Figure 9.1 of the approved Operation Plan (See Appendix 2. Document 1.~~fb~~).

2. Certification of Construction Completion. After construction is completed the engineer of record shall certify to the Department in accordance with Rule 62-701.320(9)(b), F.A.C., that the permitted construction is complete and was performed in substantial conformance with the approved construction plans except where minor deviations were necessary. All deviations shall be described and the reasons therefore enumerated.
3. Operational Requirements. Gas controls shall be operated and maintained so that they function as designed.
4. Monitoring Requirements. Monitoring for methane gas at the property boundary and within structures on the property shall be performed in accordance with the approved Operation Plan (See APPENDIX 2, Document 1.~~fb~~) and its successor documents, but no less than quarterly to determine the effectiveness of the gas migration controls. An active gas venting system ~~shall be~~ has been installed along a segment of the north landfill boundary in proximity to MW-10 (See Appendix 2, Document 1.~~fb~~) The gas monitoring results shall be reported as a percent of the lower explosive limit (LEL), calibrated to methane. The report shall be submitted to the Department under separate cover no later than 15 days after the end of the period in which the monitoring occurred.
5. Gas Remediation Plan. The facility landfill gas management system shall be operated to prevent the concentration of combustible gases from exceeding 25% of the lower explosive limit in structures, excluding gas control or recovery components, and from exceeding the lower explosive limit at or beyond the property boundary. If either of these limits is exceeded then a gas remediation plan shall be designed and implemented in accordance with Rule 62-701.530(3)(a), F.A.C.
6. Odor Remediation Plan. The facility shall be operated to control objectionable odors. If objectionable odors are confirmed beyond the property boundary then upon notification by the Department the permittee shall develop and implement an odor remediation plan in accordance with the requirements of Rule 62-701.530(3)(b), F.A.C.

F. Financial Assurance and Cost Estimates

1. Financial Assurance Mechanism. The permittee may not receive waste for disposal or storage in any disposal unit for which financial assurance has not been approved. Proof that the financial mechanisms are established and funded in accordance with Rule 62-701.630, F.A.C. shall be submitted to the Department at least sixty (60) prior to the planned acceptance of solid waste in any disposal unit. When established, the permittee shall maintain, in good standing, the financial assurance mechanisms. Supporting

documentation and evidence of increases associated with cost estimate increases shall be submitted within the time frames specified in Rule 62-701.630, F.A.C.

All submittals in response to this specific condition shall be sent to:

Florida Department of Environmental Protection
Financial Coordinator - Solid Waste Section
2600 Blair Stone Road, MS 4548
Tallahassee, Florida 32399-2400

2. Cost Estimates.

- a. The permittee shall submit closure cost estimates, including annual adjustments for inflation, in accordance with the requirements of Rule 62-701.630(3) and (4), F.A.C., and 40 CFR Part 264.142(a) using Form 62-701.900(28).
- b. An owner or operator using an escrow account shall submit the annual inflation adjusted estimate(s) between July 1 and September 1. An owner or operator using a letter of credit, guarantee bond, performance bond, financial test, corporate guarantee, trust fund or insurance shall submit the inflation adjusted cost estimate(s) between January 1 and March 1.
- ~~c. This facility is hereby authorized to use on-site soils, rather than off-site soils, as part of the facility's final cover, as fill, or for other closure construction purposes, when calculating the facility's closure costs, subject to the requirements of paragraph 62-701.630(3)d, F.A.C., and the executed Declaration of Restrictive Covenant. Information regarding the location and quantities of materials is provided as Attachment 12 of Attachment R, within the Engineering Report revision dated April 18, 2016 (See APPENDIX 2, Document 3.4.e). The Declaration of Restrictive Covenant is provided as APPENDIX 4 of this permit.~~
- d. All submittals in response to this specific condition shall be sent to the District Office and a copy to the address identified in Specific Condition F.1. or, to the following email address: Financial.Assurance.Working.Group@FloridaDEP.gov.
- ~~e. Updated cost estimates due to the additional work authorized by Permit Modification # 21375-026-SO-MM shall be submitted to the Department within 30 days of permit modification issuance.~~

G. Closure Requirements

1. Closure Permit Requirements. Prior to initiating closure of a solid waste disposal unit, or part of a solid waste disposal unit, the Permittee shall receive authorization from the Department in one of the following ways.
 - a. If the landfill is operating under a Department permit that includes a Closure Plan with sufficient detail to provide reasonable assurance of compliance with the closing requirements of Rule 62-701.600, F.A.C., then the Permittee shall notify the Department at least 30 days prior to initiating the closure activities and receive written approval from the Department prior to beginning the work.
 - b. If the landfill is operating under a Department permit that requires substantive changes to the closing activities in the permitted Closure Plan, then the Permittee shall request a modification of the permit to include sufficient design detail to ensure compliance with the closing requirements of Rule 62-701.600, F.A.C., and shall initiate closing only after the permit has been modified.
 - c. The Permittee shall submit an application to the Department for a closure permit on Form 62-701.900(1) and shall initiate closure activities only after the permit is issued. The application shall include a Closure Plan made up of the following:
 - 1) A closure design plan;
 - 2) A closure operation plan;
 - 3) A plan for long-term care; and,
 - 4) A demonstration that proof of financial assurance for long-term care will be provided.
2. Closure Design. All closure construction shall be done in accordance with the approved closure design plan. The Department shall be notified before any changes, other than minor deviations, to the approved closure design are implemented in order to determine whether a permit modification is required.
3. Closure Operation Plan. All closure activities shall be performed in accordance with the approved closure operation plan.
4. Certification of Closure Construction Completion. After closure construction has been completed, the engineer of record shall certify to the Department on Form 62-701.900(2) that the closure is complete and that it was done in accordance with the plans submitted to the Department except where minor deviation was necessary. All deviations shall be described in detail and the reasons therefore enumerated.
5. List of Closed Units Not in Long-Term Care. The unlined 60 Acre landfill comprising the western portion of the property is currently in post-closure care.

6. Use of Closed Landfill

a. The use of an approximately six-acre area in the southwest corner of the closed 60-acre Class I landfill has been approved by the Department, as follows:

1) **Firearms Training Facility (existing)** – the Citrus County School Board, Withlatchoochee Technical Institute (WTI) operates the Criminal Justice Academy (CJA) which includes firearms training. The existing firearms training facility includes five shooting ranges (3 pistol ranges, 1 rifle range, 1 tactical range), each of which contain earthen berms on 3 sides. The CJA provides firearms training for: law enforcement, correctional and correctional probation officer basic recruits and sworn officers; firearms instructors; retired law enforcement officers; hunter safety for the general public through the Florida Fish and Wildlife Conservation Commission (FWC); tactical training for specialty teams; and to provide hunter safety training for the general public through the FWC. Shooting shall be limited into the constructed earthen berms, no skeet or trap shooting shall be allowed.

2) **Firearms Training Facility Maintenance** – areas within the firearms training facilities shall be maintained to provide adequate surface slopes for drainage to the existing storm water retention area. No penetrations of the closed landfill cover system shall be allowed without first obtaining written approval from the Department. Lead removal shall be conducted at least yearly (or more often depending on soil testing results) by a Department-licensed company for proper treatment or disposal. Documentation of soil testing locations and results, lead removal, and subsequent soil treatments to maintain neutral pH shall be maintained by the WTI and made available to the Department upon request. Soil testing and lead removal shall be performed to comply with the Department’s document entitled “Best Management Practices for Environmental Stewardship of Florida Shooting Ranges,” dated 2004, or successor document.

b. Use of closed landfill areas requires consultation with and approval by the Department **prior to** conducting activities in accordance with Rule 62-701.610(7), F.A.C. The Department retains regulatory control over any activities which may affect the integrity of the environmental protection measures such as the landfill cover, drainage, final cover materials (soil and vegetation), leachate collection system, bottom liner, monitoring systems or stormwater controls. A plan detailing the proposed activities and evaluation of the potential effects on the landfill systems (including engineering designs, calculation and plans, as appropriate) shall be submitted for Department review to comply with the requirements of the Department’s document entitled “Guidance for Disturbance and Use of Old Closed Landfills or Waste Disposal Areas in Florida, Version 2.2”, dated August 19, 2015, or successor document. Authorization to use the Citrus County Central Landfill for activities not described in Specific Condition 2.G.6.a., may require a modification of this permit to comply with Specific Condition 2.A.2.

H. Long Term Care Requirements

1. Long term care has not yet been initiated at this facility

Permit originally executed in Leon County, Florida by Fletcher Herral, Acting Program Administrator, Permitting and Compliance Assistance Program on August 15, 2016.

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APPENDIX 1

General Conditions

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.161, 403.727, or 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:

- (a) Have access to and copy any records that must be kept under conditions of the permit;
 - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
 - (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.
- Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- (a) A description of and cause of noncompliance; and
- (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit or a copy thereof shall be kept at the work site of the permitted activity.

12. The permittee shall comply with the following:

- (a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- (b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained

at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

(c) Records of monitoring information shall include:

1. the date, exact place, and time of sampling or measurements;
2. the person responsible for performing the sampling or measurements;
3. the dates analyses were performed;
4. the person responsible for performing the analyses;
5. the analytical techniques or methods used;
6. the results of such analyses.

13. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

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APPENDIX 2

List of Approved Documents Incorporated into the Permit

The approved application documents for the Citrus County Central Class I Landfill Permit Renewal consist of the following:

1. Permit Number 21375-028-SO-IM
 - a. Application for Intermediate Modification to Permit No. 21375-025-SO-01. Prepared by Jones Edmunds & Associates for Citrus County. Dated April 26, 2022. Received by the Tallahassee Solid Waste Section on April 29, 2022.
Oculus Link:
[https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&\[guid=8.342262.1\]&\[profile=Permitting Authorization\]](https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=8.342262.1]&[profile=Permitting Authorization])
 - b. Permit Drawings. Application for Intermediate Modification to Permit No. 21375-025-SO-01. Prepared by Jones Edmunds & Associates for Citrus County. Dated April 26, 2022. Received by the Tallahassee Solid Waste Section on April 29, 2022.
Oculus Link:
[https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&\[guid=8.342263.1\]&\[profile=Permitting Authorization\]](https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=8.342263.1]&[profile=Permitting Authorization])
 - c. Request for Additional Information No. 1. Application for Intermediate Modification to Permit No. 21375-025-SO-01. Dated May 25, 2022.
Oculus Link:
[https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&\[guid=8.343298.1\]&\[profile=Permitting Authorization\]](https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=8.343298.1]&[profile=Permitting Authorization])
 - d. Response to Request for Additional Information No. 1. Application for Intermediate Modification to Permit No. 21375-025-SO-01. Prepared by Jones Edmunds & Associates for Citrus County. Dated August 19, 2022. Received by the Tallahassee Solid Waste Section on August 19, 2022.
Oculus Link:
[https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&\[guid=8.346968.1\]&\[profile=Permitting Authorization\]](https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=8.346968.1]&[profile=Permitting Authorization])
 - e. Water Quality Monitoring Plan. Application for Intermediate Modification to Permit No. 21375-025-SO-01. Prepared by Jones Edmunds & Associates for Citrus County. Dated September 9, 2022. Received by the Tallahassee Solid Waste Section on September 9, 2022.
Oculus Link:
[https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&\[guid=8.347356.1\]&\[profile=Permitting Authorization\]](https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=8.347356.1]&[profile=Permitting Authorization])

- f. Operation Plan. Application for Intermediate Modification to Permit No. 21375-025-SO-01. Prepared by Jones Edmunds & Associates for Citrus County. Dated September 9, 2022. Received by the Tallahassee Solid Waste Section on September 9, 2022.
Oculus Link:
[https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&\[guid=8.347355.1\]&\[profile=Permitting_Authorization\]](https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=8.347355.1]&[profile=Permitting_Authorization])
2. Permit Number 21375-027-SO-MM
- a. Application for Minor Modification to Permit No. 21375-025-SO-01, prepared by Jones Edmunds & Associates for Citrus County, dated June 28, 2021 and received by the Department June 29, 2021.
Oculus Link:
[https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&\[guid=8.327654.1\]&\[profile=Permitting_Authorization\]](https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=8.327654.1]&[profile=Permitting_Authorization])
- b. Operation Plan, prepared by Jones Edmunds & Associates for Citrus County, dated June 28, 2021 and received by the Department June 29, 2021.
Oculus Link:
[https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&\[guid=8.328640.1\]&\[profile=Permitting_Authorization\]](https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=8.328640.1]&[profile=Permitting_Authorization])
- c. Closure and Long-Term Care Plan, prepared by Jones Edmunds & Associates for Citrus County, dated June 28, 2021 and received by the Department June 29, 2021.
Oculus Link:
[https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&\[guid=8.328641.1\]&\[profile=Permitting_Authorization\]](https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=8.328641.1]&[profile=Permitting_Authorization])
3. Permit Number 21375-026-SO-MM
- a. Application for Minor Modification to Permit No. 21375-025-SO-01, prepared by Jones Edmunds for Citrus County, dated May 1, 2018 and received by the Department May 1, 2018. Appendix B of Document includes Supplemental Operation Plan
[https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&\[guid=8.277670.1\]&\[profile=Permitting_Authorization\]](https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=8.277670.1]&[profile=Permitting_Authorization])
- b. Approved Operation Plan, modified June 28, 2018.
[https://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&\[guid=8.280999.1\]](https://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&[guid=8.280999.1])

Previously Approved Documents Included by Reference

4. Permit Number 21375-025-SO-01
- a. Final Consent Agreement #05-1078, dated September 21, 2005.
[http://depedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.188588.1\]](http://depedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.188588.1])

- b. Citrus County Central Landfill Operations Permit Renewal Application, prepared by SCS Engineers for Citrus County, dated October 13, 2015 and received by the Department October 15, 2015.
[http://depedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.249077.1](http://depedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.249077.1)
 - d. Department Request for Additional Information #1, dated November 5, 2015.
[http://depedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.238389.1](http://depedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.238389.1)
 - e. Response to Department Request for Additional Information #1, dated April 18, 2016.
[http://depedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.249079.1](http://depedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.249079.1)
5. Permit Number 21375-018-SO-01
- a. Final Closure Plan Revision Date 4/21/2010
[http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&\[guid=8.80241.1](http://depedms.dep.state.fl.us/Oculus/servlet/shell?command=getEntity&[guid=8.80241.1)
- 6. Links to Documents deemed relevant but not included as part of permit**
- a. Previous permit 21375-018-SO-01, issued December 20, 2010.
[http://depedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.99836.1](http://depedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.99836.1)
 - b) Previous Permit Modification 21375-024-SO/MM, issued December 19, 2013.
[http://depedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.189630.1](http://depedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.189630.1)
 - c) Status of Compliance Letter for Consent Agreement OGC Case No. 05-1078, dated October 27, 2009.
[http://depedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.61364.1](http://depedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.61364.1)
 - d) Citrus Central Landfill Site Assessment Report Prepared by Jones-Edmunds & Associates, Inc., dated January 2009
[http://depedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&\[guid=8.249087.1](http://depedms.dep.state.fl.us:80/Oculus/servlet/shell?command=getEntity&[guid=8.249087.1)
 - e) Citrus Central MW-4R Abandonment Authorization prepared by SCS Engineers dated December 2, 2010

[https://depdms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&\[guid=8.97523.1\]](https://depdms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=8.97523.1])

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APPENDIX 3 WATER QUALITY MONITORING PLAN

Citrus County Central Class I Landfill

PERMIT NO: 21375-025-SO-01

WACS FACILITY ID: 39859

PERMIT DATE: ~~July 10, 2018~~ November xx, 2022

I. GENERAL

1. The field testing, sample collection and preservation and laboratory testing, including quality control procedures, shall be in accordance with Chapter 62-160, F.A.C. Approved methods as published by the Department or as published in Standard Methods, ASTM, or EPA Methods shall be used. **[62-701.510(2)(b), F.A.C.]**
2. The organization collecting samples at this site must use the Field and Laboratory Standard Operating Procedures (DEP-SOP-001/01) referenced in Chapter 62-160, F.A.C. The laboratory designated to conduct the chemical analyses must be certified by the Florida Department of Health Environmental Laboratory Certification Program (DOH ELCP). This Certification must be for the test method and analyte(s) that are reported. **[62-160.210(1), 62-160.300(1), 62-701.510(2)(b), F.A.C. and DEP SOP FS 1008.]**

NOTE: DEP-SOP-001/01 can be accessed at:

<http://www.dep.state.fl.us/water/sas/sop/sops.htm>

3. The permittee must ensure that the analytical laboratory conducting the analyses uses analytical methods capable of achieving detection limits at or below the Groundwater Cleanup Target Levels (GCTLs) or the Freshwater Surface Water Cleanup Target Levels (SWCTLs) in Table I, Chapter 62-777, F.A.C. except those listed in Table C of the "FDEP Guidance for the Selection of Analytical Methods and for the Evaluation of Practical Quantitation Limits dated 10/12/2004". GCTLs and SWCTLs that are not water quality standards are used as screening tools and interim guidelines for ground water minimum criteria until standards are promulgated. **[DEP SOP FM 1000]**
4. If, at any time, analyses detect parameters which are significantly above background water quality, or which are at levels above the Department's water quality standards or criteria specified in Chapter 62-520, F.A.C., in the detection wells or at the edge of the Zone of Discharge, the Permittee may confirm the data by resampling the affected wells within thirty (30) days of receipt of the sampling data. Should the permittee choose not to resample, the Department will consider the water quality analysis as representative of current ground water conditions at the facility. If the data is confirmed, or if the permittee chooses not to resample, the permittee shall notify the Department within 14 days of this finding. **[62-701.510(6)(a), F.A.C.]**

If the resampling event detects parameters which are significantly above background water quality, or which are at levels above the Department’s water quality standards or criteria specified in Chapter 62-520, F.A.C., the Permittee shall notify the Department in writing within 14 days of receipt of the sampling data. Confirmed data must be submitted to the Department within 60 days from completion of lab analyses, unless a different due date is approved. Use “CONF” (for confirmation data) in the report type column. **[62-701.510(8)(a), F.A.C.]**

Upon notification by the Department, the permittee shall initiate evaluation monitoring in accordance with Rule 62-701.510(6)(a), F.A.C.

II. GROUND WATER QUALITY MONITORING

1. The ~~sixteen~~ **twenty-three** ground water monitoring wells and twelve piezometers (water level measurements only) included in this monitoring plan and designated for water quality testing and water level measurements are listed on **Attachment A** and shown on **Attachment B**. **[62-701.510(3)(d)2 & 3, F.A.C.]**
2. Any initial sample collected from a new ground water monitoring well, unless the new monitoring well is installed to replace an existing well within the monitoring network, shall be analyzed for the following Initial Ground Water Monitoring Parameters. **[62-701.510(5)(b), F.A.C.]**

Field Parameters	Laboratory Parameters
1. Static water level in wells before purging	1. Ammonia – N, Total
2. Dissolved oxygen	2. Chlorides
3. pH	3. Iron
4. Specific conductivity	4. Nitrate
5. Temperature	5. Sodium
6. Turbidity	6. Total dissolved solids (TDS)
7. Colors and sheens (by observation)	7. Those parameters listed in 40 CFR Part 258, Appendix II.*

* Mercury not listed because it is included in Appendix II.

* Appendix I is not listed because it is a subset of Appendix II

3. The active background, compliance and detection monitoring wells for the landfill shall be routinely sampled and analyzed semi-annually (during the periods from Jan. 1- June 30, and from July 1-Dec. 31) for the following Ground Water Monitoring Parameters. **[62-701.510(5)(c) & (7)(a), F.A.C.]**

Field Parameters	Laboratory Parameters
1. Static water level in wells before purging	1. Ammonia – N, Total
2. Dissolved oxygen	2. Chlorides
3. pH	3. Iron
4. Specific conductivity	4. Mercury
5. Temperature	5. Nitrate
6. Turbidity	6. Sodium
7. Colors and sheens (by observation)	7. Total dissolved solids (TDS)
	8. Those parameters listed in 40 CFR Part 258 Appendix I

4. Assessment wells MW-18, 18D, MW-19, and MW-19D shall be routinely sampled and analyzed semi-annually (during the periods from Jan. 1- June 30, and from July 1-Dec. 31) for the following Ground Water Monitoring Parameters. (Final Consent Agreement #05-1078 and its succeeding documents)

Field Parameters	Laboratory Parameters
1. Static water level in wells before purging	1. Benzene
2. Dissolved oxygen	2. Methylene chloride
3. pH	3. Vinyl chloride
4. Specific conductivity	
5. Temperature	
6. Turbidity	
7. Colors and sheens (by observation)	

5. All water quality analyses will be performed on unfiltered samples unless approved by the Department.

III. SURFACE WATER MONITORING

1. Surface water samples will be collected whenever a discharge from the landfill occurs. The sample will be collected from the body of water from which the discharge occurred. The Department will be notified within 24 hours of discovery of a discharge event. The samples shall be analyzed for the following Surface Water Monitoring Parameters. **[62-701.510(5)(d) & (7)(b), F.A.C.]**

Field Parameters	Laboratory Parameters
1. Surface Water Elevation	1. Unionized ammonia as N
2. Specific Conductivity	2. Total hardness as CaCO ₃
3. pH	3. Biochemical oxygen demand (BOD ₅)
4. Dissolved oxygen	4. Iron
5. Turbidity	5. Mercury
6. Temperature	6. Nitrate
7. Colors and sheens (by observation)	7. Total Dissolved Solids (TDS)
	8. Total Organic Carbon (TOC)
	9. Fecal Coliform
	10. Total Phosphorus as P
	11. Chlorophyll A
	12. Total nitrogen
	13. Chemical Oxygen Demand (COD)
	14. Total Suspended Solids (TSS)
	15. Those parameters listed in 40 CFR Part 258 Appendix I

IV. MONITORING WELL REQUIREMENTS

1. If a monitoring well or piezometer becomes damaged or inoperable, the Permittee shall notify the Department within two (2) days of discovery with a written report within ten (10) days of notice. The written report shall describe what problem has occurred and the remedial measures that have been taken to prevent a recurrence. The Department can require the replacement of inoperable monitoring wells or piezometers. **[62-520.600(6)(I), F.A.C.]**
2. New or replacement monitoring well design or placement must be approved by the Department. The design and construction of these wells must be based on site-specific borings with appropriate supporting data such as grain size distribution analyses, in-situ hydraulic conductivity testing, and depth to water. Wells shall be installed using standard, accepted practices for well construction. **[62-701.510(3), F.A.C. and 62-520.600(3) and (6), F.A.C.]**
3. All wells and piezometers shall be clearly and permanently labeled and the well site maintained so that the well is visible at all times. Unless otherwise authorized in a Department permit, new monitoring wells, and existing monitoring wells at the time of permit renewal, shall have protective bollards or other devices installed around them if they are located in areas of high traffic flow to prevent damage from passing vehicles. **[62-701.510(3)(d)5, F.A.C.]**
4. The Department shall be notified in writing before any monitoring wells are abandoned or plugged. Wells shall be abandoned in accordance with Rule 62-532.500(5) F.A.C. and the rules of the Southwest Florida Water Management District. The permittee shall submit a written report to the Department within 30 days of well abandonment. **[62-701.510(3)(d)6, F.A.C.]**

V. REPORTING REQUIREMENTS

A. FIELD ACTIVITIES

1. The Department must be notified in writing, hard copy or e-mail, at least fourteen (14) days prior to the installation and/or sampling of any monitoring well(s) so that the Department may collect split samples. **[62-701.510(8)(a), F.A.C.]**

B. MONITORING WELL COMPLETION REPORT

2. One (1) paper copy and one (1) electronic copy (Adobe pdf format) of the Monitoring Well Completion Report, Form 62-701.900(30), F.A.C., (**Attachment C**) must be submitted to the Department within thirty (30) days after installation of any new or replacement monitoring well(s). In addition, as-built well construction diagrams and soil boring logs that cover the entire depth of the monitoring well(s) must be submitted to the Department. **[62-520.600(6)(j), F.A.C.]**

NOTE: The top of casing elevation of each well, to the nearest 0.01 feet, and the latitude and longitude of each well in degrees, minutes and seconds, to two (2) decimal places, must be determined and certified by a Florida Licensed Surveyor and Mapper and provided on the form. **[62-701.510(3)(d)1 & 62-520.600(6)(i), F.A.C.]**

C. SURVEYING

3. One (1) paper copy and one (1) electronic copy (Adobe pdf format) of a drawing must be submitted within sixty (60) days following monitoring well installation showing the location of all monitoring sites (active, abandoned, and Evaluation Monitoring), piezometers, water bodies and waste filled areas. The location of features on the drawing must be horizontally and vertically located by standard surveying techniques. The drawing shall include all monitoring well locations, each monitoring well name and identification (WACS) number, the top of casing, pad elevation, permanent benchmark(s) and/or corner monument marker(s) referenced to a nationally recognized datum (such as NGVD 1929 or NAVD 1988) to the nearest 0.01 feet. The latitude and longitude of each well in degrees, minutes and seconds, to two (2) decimal places, must be determined and provided on the drawing. The survey shall be conducted and certified by a Florida Licensed Surveyor and Mapper. **[62-701.510(1)(c)&(3)(d)1, and 62-520.600(6)(i), F.A.C.]**
4. If a monitoring well is being replaced or new wells are being added to an existing ground water monitoring plan, only the new wells need to be surveyed as long as all other monitoring wells in the monitoring plan have been surveyed and certified by a Florida Licensed Surveyor and Mapper and there is no reason to believe that the elevations have changed. The location and elevation determinations and the certification must be provided with the Monitoring Well Completion Report upon completion of each new well. **[62-701.510(3)(d)1, F.A.C.]**

D. DEPTH MEASUREMENTS

5. A total depth measurement must be made on each well at time of the Technical Report or every five years. This measurement is to be reported as total apparent depth below ground surface and should be compared to the original total depth of the well.

E. INITIAL AND SEMIANNUAL SAMPLING AND SUBMITTING ELECTRONIC DATA

6. Required monitoring reports must be submitted to the Department within sixty (60) days from completion of laboratory analyses and shall follow the Department's electronic reporting requirements using the ADaPT software. **[Rule 62-701.510(8)(a), F.A.C.]**
7. Required water quality monitoring reports and analytical results shall be submitted electronically. Water quality monitoring reports shall be submitted in Adobe pdf format. The water quality data Electronic Data Deliverable (EDD) shall be provided to the Department in a comma separated text file electronic format consistent with requirements for importing the data into the Department's databases as summarized at: <http://www.dep.state.fl.us/waste/ADaPT/>. Water quality monitoring reports shall be signed and sealed by a Florida registered professional geologist or professional engineer with experience in hydrogeological investigations and shall include the following:
 - a) Cover letter ;
 - b) Summary of exceedances and recommendations;
 - c) Ground water contour maps;
 - d) Laboratory report of results, including chain of custody forms;
 - e) Water levels, water elevation table;
 - f) Water Quality Monitoring Certification using Form Rule 62-701.900(31), F.A.C. **(Attachment D)**;
 - g) Appropriate information using the Groundwater Sampling Log, Form FD 9000-24 (DEP-SOP-001/01) **(Attachment E)**; and,
 - h) Laboratory and Field EDDs and error logs, as applicable.

All submittals in response to this specific condition shall be sent both to:

Florida Department of Environmental Protection Southwest District Office Air/Solid Waste Section 13051 N. Telecom Parkway Tampa, Florida 33637-0926 Email to: SWD_Waste@dep.state.fl.us	Florida Department of Environmental Protection Solid Waste Section 2600 Blair Stone Road, MS 4565 Tallahassee, Florida, 32399-2400 Email to: ADaPT.EDDs.and.Reports@dep.state.fl.us
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F. WATER ELEVATIONS

8. Water levels in all monitoring wells, whether sampled or not, all piezometers and all surface water sites must be measured to the nearest 0.01 foot and reported semiannually. Surface water elevations at sampling locations must be measured to the nearest 0.01 foot on the same day as ground water levels in the wells and piezometers and reported semiannually. All water level measurements must be made within a one-day period. These measurements should be reported in a table that includes well or surface water point name, date water level measured, measuring point elevation referenced to a nationally recognized datum (such as NGVD 1929 or NAVD 1988), depth to water and calculated water level elevation referenced to the same nationally recognized datum. The ground water elevations shall be reported in the ADaPT data for the upload into WACS. **[62-701.510(8)(a)8, F.A.C.]**

G. GROUND WATER CONTOUR MAPS

9. Ground water elevation contour maps for each monitored aquifer zone must be submitted semiannually to the Department, with contours at no greater than one foot intervals unless site specific conditions dictate otherwise. Ground water elevation contour map(s) should include monitoring well and piezometer locations, ground water elevation at each monitoring well or piezometer location referenced to a nationally recognized datum (such as NGVD 1929 or NAVD 1988), a bar scale, north arrow, ground water contour interval, date of measurement and ground water flow direction. The map(s) must incorporate adjacent and on-site surface water elevations where appropriate. These maps shall be signed and sealed pursuant to Florida Statutes (F.S.) Chapters 471 and 492 which require that documents requiring the practice of professional engineering or professional geology, as described in Chapter 471 or 492, F.S., be signed and sealed by the professional(s) who prepared or approved them. This certification must be made by a licensed professional who is able to demonstrate competence in this subject area. **[62-701.510(8)(a)9, F.A.C.]**

H. TECHNICAL REPORT

10. A technical report, signed and sealed by a professional geologist or professional engineer with experience in hydrogeologic investigations, shall be submitted to the Department approximately every two and one-half years during the active life of the facility, and every five years during the long-term care period. The report shall summarize and interpret the water quality monitoring results and water level measurements collected since the last Technical Report. The report shall contain, at a minimum, the following **[62-701.510(8)(b), F.A.C.]**:
 - a) Tabular displays of any data which shows that a monitoring parameter has been detected, and graphical displays of any leachate key indicator parameters detected (such as pH, specific conductance, TDS, TOC, sulfate, chloride, sodium and iron), including hydrographs for all monitor wells;
 - b) Trend analyses of any monitoring parameters consistently detected;
 - c) Comparisons among shallow, middle, and deep zone wells;
 - d) Comparisons between background water quality and the water quality in detection and compliance wells;

- e) Correlations between related parameters such as total dissolved solids and specific conductance;
- f) Discussion of erratic and/or poorly correlated data;
- g) An interpretation of the ground water contour maps, including an evaluation of ground water flow rates; and
- h) An evaluation of the adequacy of the water quality monitoring frequency and sampling locations based upon site conditions.

11. One (1) paper and one (1) electronic copy (Adobe pdf format) of the Technical Report shall be submitted to the Department on the following schedule: **[62-701.510(8)(b), F.A.C.]**

Report	Sampling Periods Covered	Number of Semi- Annual Sampling Events in Report	Date Technical Report Due
Interim Permit Report	Second semi-annual event 2015 through Second semi-annual event 2017	5	March 31, 2018
Interim Permit Report	First semi-annual event 2018 through first semi-annual event 2020	5	September 30, 2020
Interim Permit Report	Second semi-annual event 2020 through Second semi-annual event 2022	5	March 31, 2023
Interim Permit Report	First semi-annual event 2023 through First semi-annual event 2025	5	September 30, 2025
Interim Permit Report	Second semi-annual event 2025 through Second semi-annual event 2026	3	At time of permit renewal

12. Required water quality monitoring reports and water quality data for the Technical Report shall be submitted in electronic format as described in Specific Conditions V. 6 and 7 of this Appendix. **[62-160.240, and 62-701.510(8)(a), F.A.C.]**

List of Attachments

Attachment A– Water Quality Sampling Testsite Information

Attachment B –Water Quality Monitoring Locations Map

Attachment C– Monitoring Well Completion Report Form

Attachment D – Ground Water Monitoring Report Certification Form

Attachment E – Water Sampling Log

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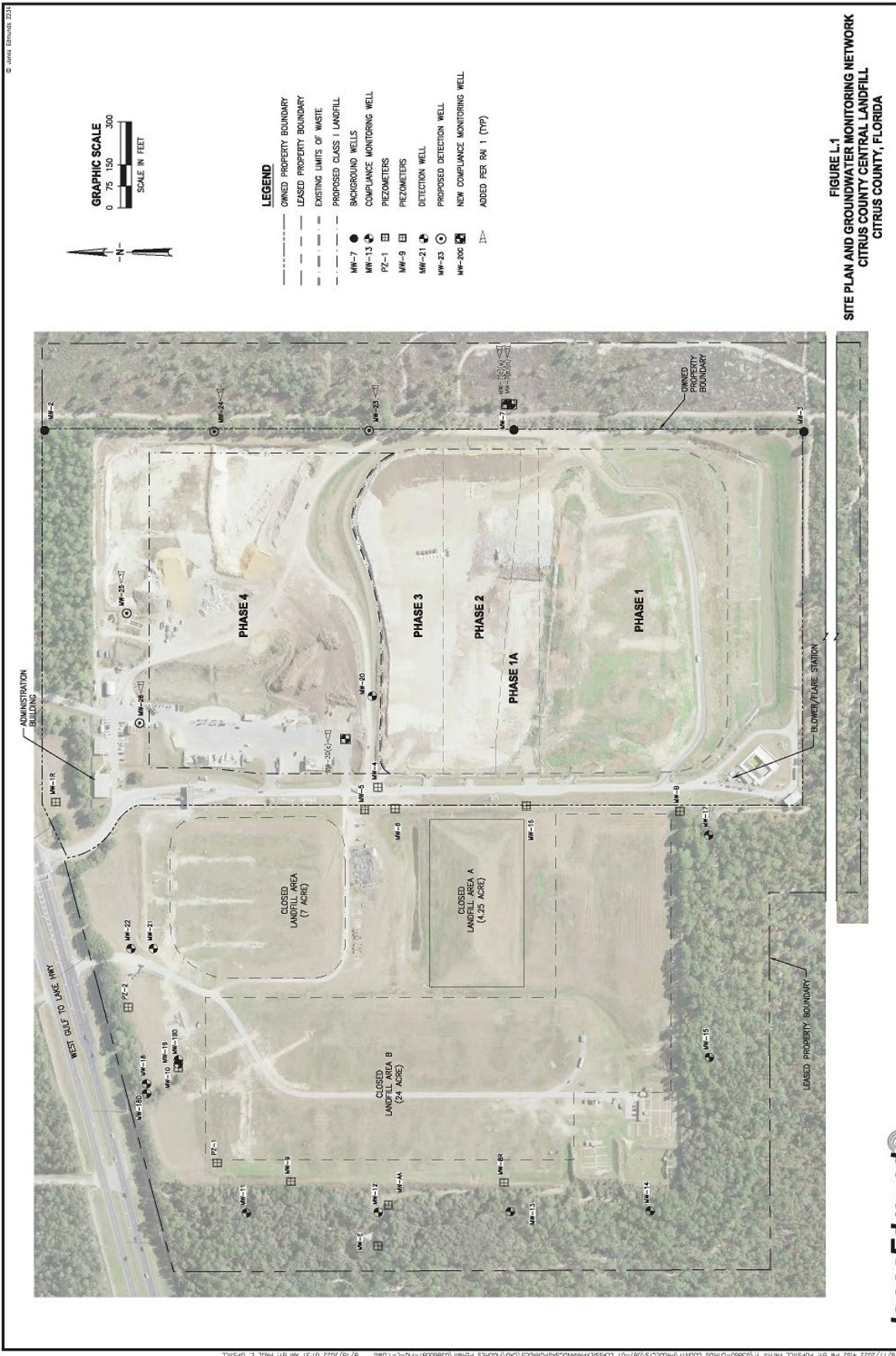
Attachment A – Water Quality Sampling Testsite Information

<u>Well Number</u>	<u>WACS Testsite #</u>	<u>Aquifer</u>	<u>Designation</u>
Existing Monitor Wells			
MW-3	150	Floridan	Background
MW-7	179	Floridan	Background
<u>MW-7C(S)</u>	<u>31255</u>	<u>Floridan</u>	<u>Compliance</u>
<u>MW-7C(D)</u>	<u>31256</u>	<u>Floridan</u>	<u>Compliance</u>
MW-10	22010	Floridan	Compliance
MW-11	22011	Floridan	Compliance
MW-12	22012	Floridan	Compliance
MW-13	22013	Floridan	Compliance
MW-14	22014	Floridan	Compliance
MW-15	22015	Floridan	Compliance
MW-17	22017	Floridan	Compliance
MW-18	22709	Floridan	Assessment
MW-18D	30343	Floridan	Assessment
MW-19	22710	Floridan	Assessment
MW-19D	30344	Floridan	Assessment
MW-20 ¹	23691	Floridan	Compliance
<u>MW-20C</u>	<u>31257</u>	<u>Floridan</u>	<u>Compliance</u>
MW-21	27449	Floridan	<u>Compliance-Detection</u>
MW-22	30345	Floridan	Compliance
<u>MW-23²</u>	<u>31259</u>	<u>Floridan</u>	<u>Detection</u>
<u>MW-24²</u>	<u>31260</u>	<u>Floridan</u>	<u>Detection</u>
<u>MW-25²</u>	<u>31261</u>	<u>Floridan</u>	<u>Detection</u>
<u>MW-26³</u>	<u>31262</u>	<u>Floridan</u>	<u>Detection</u>
Existing Piezometers			
MW-1R	165	Floridan	Piezometer
MW-2	149	Floridan	Piezometer
MW-5	167	Floridan	Piezometer
MW-6	168	Floridan	Piezometer
MW-8R	180	Floridan	Piezometer
MW-9	181	Floridan	Piezometer
MW-16	22016	Floridan	Piezometer
MW-AA	169	Floridan	Piezometer
MW-B	65	Floridan	Piezometer
MW-E	171	Floridan	Piezometer
PZ-1A	22711	Floridan	Piezometer
PZ-2A	22712	Floridan	Piezometer

Scheduling Notes:

1. MW-20 to be abandoned as part of Phase 4 construction
2. MW-23, MW-24, and MW-25 to be installed as part of Phase 4 construction
3. MW-26 to be installed prior to placement of waste in Subcell 4b

Attachment B –Water Quality Monitoring Locations Map



JonesEdmunds



ATTACHMENT C
Florida Department of Environmental Protection

DEP Form # 62-701.900(30)
Form Title: Monitoring Well Completion Report
Effective Date: January 6, 2010
Incorporated in Rule 62-701.510(3), F.A.C.

MONITORING WELL COMPLETION REPORT

DATE: _____

FACILITY NAME: Citrus County Central Class I Landfill

DEP PERMIT NO.: 21375-025-SO-01 WACS FACILITY ID NO.: 39859

WACS MONITORING SITE NUM.: _____ WACS WELL NO.: _____

WELL TYPE: BACKGROUND DETECTION COMPLIANCE

LATITUDE: _____ ° _____ ' _____ " LONGITUDE: _____ ° _____ ' _____ "

(see back for LAT / LONG requirements):

Coordinate Accuracy _____ Datum _____ Elevation Datum _____

Collection Method _____ Collection Date _____

Collector Name _____ Collector Affiliation _____

AQUIFER MONITORED: _____

DRILLING METHOD: _____ DATE INSTALLED: _____

INSTALLED BY: _____

BORE HOLE DIAMETER: _____ TOTAL DEPTH: _____ (BLS)

CASING TYPE: _____ CASING DIAMETER: _____ CASING LENGTH: _____

SCREEN TYPE: _____ SCREEN SLOT SIZE: _____ SCREEN LENGTH: _____

SCREEN DIAMETER: _____ SCREEN INTERVAL: _____ TO _____ (BLS)

FILTER PACK TYPE: _____ FILTER PACK GRAIN SIZE: _____

INTERVAL COVERED: _____ TO _____ (BLS)

SEALANT TYPE: _____ SEALANT INTERVAL: _____ TO _____ (BLS)

GROUT TYPE: _____ GROUT INTERVAL: _____ TO _____ (BLS)

TOP OF CASING ELEVATION (NGVD): _____ GROUND SURFACE ELEVATION (NGVD): _____

DESCRIBE WELL DEVELOPMENT: _____

POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): _____

DATE AND TIME MEASURED: _____

REMARKS: _____

NAME OF PERSON PREPARING REPORT: _____

(Name, Organization, Phone No., E-mail)

Northwest District	Northeast District	Central District	Southwest District	South District	Southeast District
160 Government Center Pensacola, FL 32501-5794 850-595-8360	7825 Baymeadows Way Ste 200B Jacksonville, FL 32256-7590 904-807-3300	3319 Maguire Blvd., Ste. 232 Orlando, FL 32803-3767 407-894-7555	13051 N. Telecom Pky. Temple Terrace, FL 813-632-7600	2295 Victoria Ave., Ste. 364 Fort Myers, FL 33901-3881 239-332-6975	400 North Congress West Palm Beach, FL 561-681-6600

NOTE: ATTACH AS-BUILT MW CONSTRUCTION DIAGRAM AND LITHOLOGIC LOG.(NGVD) NATIONAL GEODETIC VERTICAL DATUM OF 1988 (BLS) = BELOW LAND SURFACE

Latitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Longitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Eastings and northings (State Plane Coordinates) **must** be converted to latitude and longitude.

Coordinate Accuracy: the measured, estimated degree of correctness of the measurement. An accuracy of 15 feet or 5 meters is preferred.

Datum: the horizontal reference for measuring locations on the Earth's surface. NAD83 North American Datum of 1983 is preferred.

Elevation Datum: the reference datum from which elevation measurements are made. NGVD88 (National Geodetic Vertical Datum of 1988) is preferred.

Collection Method: the method or mechanism used to derive the measurements, e.g. GPS, map, aerial photo, etc.

Collection Date: the date and time on which the measurements were taken.

Collector Name: the name of the person taking the measurement.

Collector Affiliation: the agency or company for whom the collector works.

ATTACHMENT D
Florida Department of Environmental Protection
GROUND WATER MONITORING REPORT
Rule 62-520.900(2)

PART I GENERAL INFORMATION

- (1) Facility Name Citrus County Central Class I Landfill
Address _____
City _____ Zip _____ County _____
Telephone Number () _____ E-mail address _____
- (2) WACS_Facility 39859
- (3) DEP Permit Number 21375-025-SO-01
- (4) Authorized Representative's Name _____ Title _____
Address _____
City _____ Zip _____ County _____
Telephone Number () _____ E-mail address _____
- (5) Type of Discharge _____ N/A
- (6) Method of Discharge _____ N/A

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submission of false information including the possibility of fine and imprisonment.

Date Owner or Authorized Representative's Signature

PART II QUALITY ASSURANCE REQUIREMENTS

Sampling Organization _____
Analytical Lab NELAC #/ HRS Certification _____
Lab Name _____
Address _____
Phone Number () _____

E-mail Address _____

From DER Form Rule 62-520.900(2), F.A.C.

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Attachment E WATER SAMPLING LOG DEP-SOP-001/01 FS 2200 Groundwater Sampling Form FD 9000-24

FACILITY NAME: Citrus County Central Class I Landfill			FACILITY LOCATION:		
MONITORING_SITE_NUM:		WACS_WELL:		DATE:	

PURGING DATA

WELL DIAMETER (inches):	TUBING DIAMETER (inches):	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER:
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WELL VOLUME PURGE: 1 WELL VOLUME = (TOTAL WELL DEPTH - STATIC DEPTH TO WATER) X WELL CAPACITY
 (only fill out if applicable)
 = (feet - feet) X gallons/foot = gallons

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
 (only fill out if applicable)
 = gallons + (gallons/foot X feet) + gallons = gallons

INITIAL PUMP OR TUBING DEPTH IN WELL (feet):		FINAL PUMP OR TUBING DEPTH IN WELL (feet):			PURGING INITIATED AT:		PURGING ENDED AT:		TOTAL VOLUME PURGED (gallons):	
--	--	--	--	--	-----------------------	--	-------------------	--	--------------------------------	--

TIME	VOLUME PURGED (gallons)	CUMUL. VOLUME PURGED (gallons)	PURGE RATE (gpm)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µmhos/cm or µS/cm)	DISSOLVED OXYGEN (circle mg/L or % saturation)	TURBIDITY (NTUs)	COLOR (describe)	ODOR (describe)

WELL CAPACITY (Gallons Per Foot): 0.75" = 0.02; 1" = 0.04; 1.25" = 0.06; 2" = 0.16; 3" = 0.37; 4" = 0.65; 5" = 1.02; 6" = 1.47; 12" = 5.88
TUBING INSIDE DIA. CAPACITY (Gal./Ft.): 1/8" = 0.0006; 3/16" = 0.0014; 1/4" = 0.0026; 5/16" = 0.004; 3/8" = 0.006; 1/2" = 0.010; 5/8" = 0.016

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:				SAMPLER(S) SIGNATURES:				SAMPLING INITIATED AT:		SAMPLING ENDED AT:	
PUMP OR TUBING DEPTH IN WELL (feet):				SAMPLE PUMP FLOW RATE (mL per minute):				TUBING MATERIAL CODE:			
FIELD DECONTAMINATION: Y N				FIELD-FILTERED: Y N FILTER SIZE: _____ µm Filtration Equipment Type: _____				DUPLICATE: Y N			

SAMPLE CONTAINER SPECIFICATION			SAMPLE PRESERVATION				INTENDED ANALYSIS AND/OR METHOD	SAMPLING EQUIPMENT CODE
SAMPLE ID CODE	# CONTAINERS	MATERIAL CODE	VOLUME	PRESERVATIVE USED	TOTAL VOL ADDED IN FIELD (mL)	FINAL pH		

REMARKS:

MATERIAL CODES: AG = Amber Glass; CG = Clear Glass; PE = Polyethylene; PP = Polypropylene; S = Silicone; T = Teflon; O = Other (Specify)

SAMPLING/PURGING EQUIPMENT CODES: APP = After Peristaltic Pump; B = Bailer; BP = Bladder Pump; ESP = Electric Submersible Pump; PP = Peristaltic Pump
 RFPP = Reverse Flow Peristaltic Pump; SM = Straw Method (Tubing Gravity Drain); VT = Vacuum Trap; O = Other (Specify)

- NOTES: 1. The above do not constitute all of the information required by Chapter 62-160, F.A.C.
 2. STABILIZATION CRITERIA FOR RANGE OF VARIATION OF LAST THREE CONSECUTIVE READINGS (SEE FS 2212, SECTION 3)**

PERMITTEE NAME: Citrus County Board of County Commissioners
FACILITY NAME: Citrus County Central Class I Landfill

PERMIT NO.: 21375-025-SO-01
WACS Facility ID: 39859

pH: ± 0.2 units **Temperature:** ± 0.2 °C **Specific Conductance:** $\pm 5\%$ **Dissolved Oxygen:** all readings $\leq 20\%$ saturation (see Table FS 2200-2); optionally, ± 0.2 mg/L or $\pm 10\%$ (whichever is greater) **Turbidity:** all readings ≤ 20 NTU; optionally ± 5 NTU or $\pm 10\%$ (whichever is great

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FLORIDA DEPARTMENT OF Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, FL 32399-2400

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Shawn Hamilton
Secretary

Permit Issued to:

Citrus County Board of County Commissioners
230 West Gulf to Lake Highway
Lecanto, Florida 34461
352-527-5477

WACS Facility ID No.: 39859
Facility Name: Citrus County Class I Central Landfill
Facility Address: 230 West Gulf to Lake Highway
Lecanto, Citrus County, Florida

Contact Person:
Dan Sherlock
230 West Gulf to Lake Highway
dan.sherlock@citrusbocc.com
352-527-7670

Solid Waste Construction Permit – Class I Landfill
Permit No.: 21375-029-SC-01

Permit Issued: **November xx, 2022**
Permit Renewal Application Due Date: **September xx, 2027**
Permit Expires: **November xx, 2027**

Permitting Authority

Florida Department of Environmental Protection
Permitting and Compliance Assistance Program
2600 Blair Stone Road, MS 4565
Tallahassee, Florida 32399-2400
850-245-8707

SECTION 1 - SUMMARY INFORMATION

A. Authorization

The permittee is hereby authorized to construct the facility described below in accordance with the specific and general conditions of this permit and any documents attached to this permit or specifically referenced in this permit and made a part of this permit.

This solid waste construction permit is issued under the provisions of Chapter 403, Florida Statutes, Florida Administrative Code Chapters 62-4 and 62-701.

This permit does not relieve the permittee from complying with any other appropriate local zoning or land use ordinances or with any other laws, rules or ordinances. Receipt of any permits from the Department does not relieve the applicant from obtaining other federal, state, and local permits and/or modifications required by law, including those from other Sections within the Department or of the Water Management District.

B. Facility Location

This facility is located near Highway 44 approximately 3 miles east of Lecanto, Citrus County, Florida. The facility is located in Section 1, Township 19S, Range 18E at Latitude 28 ° 51' 07" N. and Longitude 82 ° 26' 12" W (WGS 84).

C. Facility Description

Phase 4 of Citrus County Central Class I landfill has a disposal area of 19.5 acres and an anticipated operation life of 19 years. The primary design features of Phase 4 are described in the "General Information" table provided in Appendix 3.

D. Appendices Made Part of This Permit

APPENDIX 1 - General Conditions

APPENDIX 2 – Approved Application Documents

APPENDIX 3 – General Information

E. Attachments for Informational Purposes Only

ATTACHMENT 1 - Time Sensitive Action Chart

If any of the time deadlines in the Time Sensitive Action Chart are inconsistent with the time deadlines in the permit conditions, the time deadline in the permit condition shall be followed.

SECTION 2 - SPECIFIC CONDITIONS

A. Administrative Requirements

1. Documents Part of This Permit. The permit application **as revised in final form replaced or amended** in response to the Department's Request(s) for Additional Information are contained in the Department's files and are made a part of this permit. Those documents that make up the complete permit application are listed in APPENDIX 2.
2. Permit Modification. Any change to construction, operation, monitoring, or closure requirements of this permit may require a modification to this permit, in accordance with the provisions of Rule 62-701.320(4), F.A.C.
3. Permit Renewal. In order to ensure uninterrupted operation of this facility, a timely and sufficient permit renewal application must be submitted to the Department in accordance with Rule 62-701.320(10), F.A.C. A permit application submitted at least 61 days prior to the expiration of this permit is considered timely and sufficient.
4. Transfer of Permit or Name Change. In accordance with Rule 62-701.320(11), F.A.C., the Department must be notified by submitting Form 62-701.900(8) within 30 days: (a) of any sale or conveyance of the facility; (b) if a new or different person takes ownership or control of the facility; or (c) if the facility name or permittee's legal name is changed.
5. Air Construction Permit Requirements. The Citrus County Central Class I landfill has a Title V Air Permit (#0170366-007-AV expires March 15, 2026). The landfill owner or operator must determine whether the construction activities at the landfill authorized by this solid waste permit require any notifications or modifications of the air permit.

B. Construction Requirements

1. Construction authorized. This Permit authorizes construction of Phase 4 of the Citrus County Central Class I landfill as described in Appendix 3 of this permit and as detailed in the approved application documents in APPENDIX 2.
2. General Construction Requirements. All construction shall be done in accordance with the approved design, drawings, CQA plan, and specifications. The Department shall be notified before any changes, other than minor deviations, to the approved design are implemented in order to determine whether a permit modification is required.

3. Notifications. The Permittee shall notify the Department at least 10 days prior to the commencement of construction of the liner system.
4. Leachate System Flushing. The leachate system main corridor pipeline shall be water pressure cleaned or inspected by video recording after construction and prior to disposal of waste per Rule 62-701.500(8)(h), F.A.C.
5. Certification of Construction Completion. Upon completion of construction, the engineer of record shall certify to the Department in accordance with Rule 62-701.320(9)(b), F.A.C., that the permitted construction is complete and was done in substantial conformance with the approved construction plans except where minor deviations were necessary. All deviations shall be described in detail and the reasons therefore enumerated. The following documents shall be submitted along with the Certification:
 - a. The final report and record drawings showing that the liner system has been installed in substantial conformance with the plans and specifications for the liner system. The record drawings must include the results of the surveys of the liner, base grade and collection pipe slopes.
 - b. The final report showing the results of the geomembrane liner leak location survey.
 - c. Results of testing of geosynthetics and soil components of the liner system.
 - d. Proof of flushing or video recording of the leachate collection system.
6. Construction Quality Assurance. The Construction Quality Assurance (CQA) Plan submitted with the permit application shall be followed for preparing the subgrade and installing and testing the liner system and related components. The CQA engineer or the engineer's designee shall be on-site at all times during construction of the liner system to monitor the construction activities including preparation of the sub-base, placement of the liner components and leachate collection system, and placement of the drainage and protective layer over the primary liner.
7. Approval of Certification. The permittee shall not begin using newly constructed Phase 4 Disposal Facility until one of the following has occurred: (1) the Department has stated in writing that it has no objection to the certification of construction completion; or (2) at least 30 days have passed since the certification was submitted and the Department has not responded in writing to the certification.

C. Operation Requirements

1. General Operation Requirements. The Permittee shall operate the landfill in accordance with Operation Permit Number 21375-025-SO-01 as modified by Permit Modification Number 21375-028-SO-IM and its successors.
2. Leachate Management. Leachate shall be managed in accordance with Operation Permit Number 21375-025-SO-01 as modified by Permit Modification Number 21375-028-SO-IM and its successors.

D. Water Quality Monitoring Requirements

Water quality monitoring requirements are included in Operation Permit Number 21375-025-SO-01 as modified by Permit Modification Number 21375-028-SO-IM and its successors.

E. Gas Management System Requirements

Landfill gas requirements are included in Operation Permit Number 21375-025-SO-01 as modified by Permit Modification Number 21375-028-SO-IM and its successors.

F. Financial Assurance and Cost Estimates

Financial Assurance requirements are included in Operation Permit Number 21375-025-SO-01 as modified by Permit Modification Number 21375-028-SO-IM and its successors.

G. Closure Requirements

Closure requirements are included in Operation Permit Number 21375-025-SO-01 as modified by Permit Modification Number 21375-028-SO-IM and its successors.

H. Long Term Care Requirements

Long Term Care requirements are included in Operation Permit Number 21375-025-SO-01 as modified by Permit Modification Number 21375-028-SO-IM and its successors.

EXECUTION AND CLERKING

Executed in Tallahassee, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Kimberly A. Walker, Program Administrator
Permitting and Compliance Assistance Program

FILING AND ACKNOWLEDGMENT

FILED, on this date, pursuant to Section 120.52, F. S., with the designated Department Clerk, receipt of which is hereby acknowledged.

Clerk

Date

APPENDIX 1 – General Conditions

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.161, 403.727, or 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
 - (a) Have access to and copy any records that must be kept under conditions of the permit;
 - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
 - (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.Reasonable time may depend on the nature of the concern being investigated.
8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
 - (a) A description of and cause of noncompliance; and

- (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
11. This permit or a copy thereof shall be kept at the work site of the permitted activity.
12. The permittee shall comply with the following:
- (a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
- (b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
- (c) Records of monitoring information shall include:
1. the date, exact place, and time of sampling or measurements;
 2. the person responsible for performing the sampling or measurements;
 3. the dates analyses were performed;
 4. the person responsible for performing the analyses;
 5. the analytical techniques or methods used;
 6. the results of such analyses.
13. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

APPENDIX 2 – Approved Application Documents

1. Application for New Construction Permit and Intermediate Modification to Permit No. 21375-025-SO-01. Prepared by Jones Edmunds & Associates for Citrus County. Dated April 26, 2022. Received by the Tallahassee Solid Waste Section on April 29, 2022.
Oculus Link:
[https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&\[guid=8.342262.1\]&\[profile=Permitting_Authorization\]](https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=8.342262.1]&[profile=Permitting_Authorization])
2. Permit Drawings. Application for New Construction Permit and Intermediate Modification to Permit No. 21375-025-SO-01. Prepared by Jones Edmunds & Associates for Citrus County. Dated April 26, 2022. Received by the Tallahassee Solid Waste Section on April 29, 2022.
Oculus Link:
[https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&\[guid=8.342263.1\]&\[profile=Permitting_Authorization\]](https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=8.342263.1]&[profile=Permitting_Authorization])
3. Request for Additional Information No. 1. Application for New Construction Permit and Intermediate Modification to Permit No. 21375-025-SO-01. Dated May 25, 2022.
Oculus Link:
[https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&\[guid=8.343298.1\]&\[profile=Permitting_Authorization\]](https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=8.343298.1]&[profile=Permitting_Authorization])
4. Response to Request for Additional Information No. 1. Application for New Construction Permit and Intermediate Modification to Permit No. 21375-025-SO-01. Prepared by Jones Edmunds & Associates for Citrus County. Dated August 19, 2022. Received by the Tallahassee Solid Waste Section on August 19, 2022.
Oculus Link:
[https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&\[guid=8.346968.1\]&\[profile=Permitting_Authorization\]](https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=8.346968.1]&[profile=Permitting_Authorization])
5. Water Quality Monitoring Plan. Application for New Construction Permit and Intermediate Modification to Permit No. 21375-025-SO-01. Prepared by Jones Edmunds & Associates for Citrus County. Dated September 9, 2022. Received by the Tallahassee Solid Waste Section on September 9, 2022.
Oculus Link:
[https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&\[guid=8.347356.1\]&\[profile=Permitting_Authorization\]](https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=8.347356.1]&[profile=Permitting_Authorization])
6. Operation Plan. Application for New Construction Permit and Intermediate Modification to Permit No. 21375-025-SO-01. Prepared by Jones Edmunds & Associates for Citrus County. Dated September 9, 2022. Received by the Tallahassee Solid Waste Section on September 9, 2022.
Oculus Link:
[https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&\[guid=8.347355.1\]&\[profile=Permitting_Authorization\]](https://depedms.dep.state.fl.us:443/Oculus/servlet/shell?command=getEntity&[guid=8.347355.1]&[profile=Permitting_Authorization])

APPENDIX 3 – General Information

Phase 4	
Disposal Acres	19.5
Bottom liner design & LCS design	<p>The primary leachate collection and removal system (LCRS) and secondary leak-detection systems (LDS) of the bottom liner are composed of a combination of synthetic and natural materials. The LCRS and LDS consist of the following components from top to bottom:</p> <ul style="list-style-type: none"> ▪ 24-inch-minimum granular drainage layer with hydraulic conductivity of not less than 1×10^{-3} centimeters per second (cm/sec). ▪ Primary LCRS geocomposite – double-sided, nonwoven (at some locations). ▪ Primary geomembrane – 60-mil leachate collection HDPE textured geomembrane liner. ▪ Secondary LDS geocomposite – double-sided, nonwoven. ▪ Secondary geomembrane – 60-mil leak-detection HDPE textured geomembrane liner. ▪ GCL. ▪ Prepared subgrade.
Bottom elevation of cell	36 feet NAVD
Final top elevation at buildout (including cover)	218 feet NAVD
Slopes	max. 3H:1V
Gas Collection and Control System	<p>Horizontal collection lines will be installed for early gas collection. An amended Design Capacity and NMOC Emission Rate Report will be prepared when Phase 4 commences construction, and the Title V Permit will be modified to include Phase 4. Methane accumulation within the landfill will be controlled by installing gas extraction wells. A negative pressure will be applied to the extraction wells via a wellhead that is connected to a gas collection header constructed of HDPE pipe. The gas will then be conveyed through the header to the candlestick flare. The gas extraction wells will be installed on finished side slopes and top slopes on approximately 200-foot centers.</p>

ATTACHMENT 1 – Time Sensitive Action Chart		
Specific Condition	Submittal Due Date	Required Item
A.3	No later than September xx, 2027	Submit permit renewal application
A.4	Within 30 days of transfer of permit or name change	Submit Form 62-701.900(8)
B.3	At least 10 days prior to start of construction of the liner system	Notify the Department
B.5	Upon completion of construction	Submit the Certification of Construction Completion to the Department