



FLORIDA DEPARTMENT OF Environmental Protection

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

Ron DeSantis

Governor

Alexis A. Lambert

Secretary

Sent Via Electronic Mail

March 17, 2025

In the Matter of an Application for Permit by:

Brett O'Connor, P.E.
Region Engineering Manager
A.C.M.S., Inc.
1780 Hughes Landing Blvd., Suite 800
The Woodlands, Texas 77381
BrettO@WasteConnections.com

UIC Permit: 0450206-001-UC/5EX
WACS Facility ID: 108384
County: Sumter
Class V Injection Well System, IW-1
Exploratory Permit
A.C.M.S., Inc. Heart of Florida Landfill

Notice of Permit

Enclosed is permit number 0450206-001-UC/5EX for a Class V injection well system.

Any party to this Order (permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, (F.S.), by the filing of a Notice of Appeal pursuant to Rules 9.110 and 9.190, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000, Agency_Clerk@FloridaDEP.gov; and by filing a copy of the Notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Notice is filed with the Clerk of the Department.

Permittee: Brett O'Connor, P.E. Region Engineering Manager
A.C.M.S., Inc.
A.C.M.S., Inc. Heart of Florida Landfill

UIC Permit: 0450206-001-UC/5EX
WACS Facility ID: 108384
Date: March 17, 2025

Executing and Clerking:

Executed in Tallahassee, Florida.

State of Florida Department of Environmental Protection

Richard Lobinske

Richard Lobinske, Ph.D.
Environmental Administrator
Aquifer Protection Program
Division of Water Resource Management

Certificate of Service

The undersigned duly designated clerk hereby certifies that this **Notice of Permit** and all copies were sent on the filing date March 17, 2025, to the following listed persons:

Richard Lobinske, DEP/TLH, Richard.Lobinske@FloridaDEP.gov

Annette Solveigh, DEP/TLH, Annette.Solveigh@FloridaDEP.gov

Jeremy Hart, DEP/TLH, Jeremy.R.Hart@FloridaDEP.gov

Edith Chuy, DEP/TLH, Edith.Chuy@FloridaDEP.gov

Cheryl Greenwell, DEP/TLH, Cheryl.Greenwell@FloridaDEP.gov

Alex Courneya, DEP/CD, Alex.Courneya@FloridaDEP.gov

Lu Burson, DEP/CD, Lu.Burson@FloridaDEP.gov

Jasom M. Gorrie, PE, JMG Engineering, Inc., Jason@JMG-Eng.com

Michael Weatherby, PG, Hydrogeo Consulting, MWeatherby@HydrogeoFL.com

Jason Meadows, USEPA/ATL, Meadows.JasonB@EPA.gov

Filing and Acknowledgment

Filed, on this date, pursuant to Section.120.52, Florida Statutes, (F.S.), with the designated Department Clerk, receipt of which is hereby acknowledged.

Dandra Carpenter

Digital signature of Dandra Carpenter

Date: 2025.03.17 10:31:03-04'00'

Clerk

03/17/2025

Date



Florida Department of Environmental Protection

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

Ron DeSantis

Governor

Alexis A. Lambert

Secretary

Underground Injection Control Class V, Group 9, Exploratory Permit

Permittee

Brett O'Connor, P.E., Region Engineering Manager
A.C.M.S., Inc.
1780 Hughes Landing Blvd., Suite 800
The Woodlands, Texas 77381
BrettO@WasteConnections.com

Permit/Certification

UIC Permit Number 0450206-001-UC/5EX
WACS Facility ID: 108384
Date of Issuance: March 17, 2025
Date of Expiration: March 17, 2030
Permit Processor: Jeremy Hart

Facility

A.C.M.S., Inc. Heart of Florida Landfill
1032 County Road 529A
Lake Panasoffkee, Florida 33538

Location

County: Sumter
Latitude: 28°44'1.18" N
Longitude: 82°5'20.35' W

Project: Exploratory Well System IW-1

This permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and the rules adopted thereunder, particularly Chapter 62-528, Florida Administrative Code (F.A.C.). The above-named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department of Environmental Protection (Department) and made a part hereof and specifically described as follows.

To construct one Class V, Group 9 exploratory well (IW-1) and associated monitor well (SZMW-1) for the leachate generated at the ACMS, Inc. Heart of Florida Landfill. Drilling of IW-1 will investigate the nature of the site geology and hydrogeology to determine the feasibility of deep well disposal of non-hazardous industrial wastewater produced from the Heart of Florida Landfill. The exploratory well permit does not allow injection into the well or disposal of wastewater. A future Class I injection well application for construction and testing is required before injection and operational testing after the exploratory phase. The IW-1 construction will be to Class I injection well standards and will consist of a final 16-inch diameter steel casing anticipated to be set to 2,700 feet below land surface (bls) and a 6.71-inch diameter fiberglass-reinforced plastic tubing set to 2,700 feet bls with a cemented annulus, and total depth of 3,200 feet bls. The proposed single-zone monitor well SZMW-1 will be completed in the Lower Floridan aquifer from 1,900 to 2,000 feet bls.

In Accordance With: The Application to Construct DEP Form No. 62-528.900(1) received 6/20/2024, and response to the Department's request for additional information dated 8/15/2024.

Permittee: Brett O'Connor, P.E. Region Engineering Manager
A.C.M.S., Inc.
A.C.M.S., Inc. Heart of Florida Landfill

UIC Permit Number: 0450206-001-UC/5EX
WACS Facility ID: 108384
Date: March 17, 2025

Location: A.C.M.S., Inc. Heart of Florida Landfill, 1032 County Road 529A, Lake Panasoffkee, Florida 33538, in Sumter county.

The exploratory and monitor wells, as designated below by well name and Water Assurance Compliance System (WACS) Testsite identification (ID), and construction details at this facility, are as follows:

Table 1
Exploratory Well

Well Name	WACS Testsite ID	Well Depth (Feet bls)	Casing Size ¹ (Inches)	Casing Thickness (Inches)	Casing or Tubing Type	Casing Depth or Interval (Feet bls)
IW-1	14269	3,200	36	0.375	Steel	1,400
			26	0.375	Steel	2,050
			16	0.5	Steel	2,700
			6.71	0.25	FRP ²	2,700
					Open Hole	2,700 – 3,200

Injection Well Notes: ¹All sizes in outside diameter. To be constructed with new, unused steel with a cemented annulus and ² fiberglass reinforced plastic. Casing sizes are nominal.

Table 2
Monitor Wells

Well Name	WACS Testsite ID	Monitor Zone	Casing Size ¹ (Inches)	Casing Thickness (Inches)	Casing Type	Casing Depth (Feet bls)	Monitoring Depth (Feet bls)
SZMW-1	31784		16	0.5	Steel	1,400	
			5.87	0.22	FRP ¹	1,900	
		Upper Zone					*1,900 – 2,000

Monitor Well Notes: ¹All sizes in outside diameter. To be constructed with new, unused steel and ² fiberglass reinforced plastic. Sizes are nominal. *To be installed at the base of the lower-most USDW as defined by information collected from both the IW-1 and SZMW-1 data collection.

Subject To: Specific Conditions I-VI and General Conditions 1-24.

Specific Conditions

I. General Requirements

1. This permit is for A.C.M.S., Inc. to construct exploratory well IW-1 with a final 16-inch diameter steel casing anticipated to be set to 2,700 feet below land surface (bls) and a 6.71-inch diameter fiberglass reinforced plastic tubing set to 2,700 feet bls with a cemented annulus, and total depth of 3,200 feet bls. The proposed single-zone monitor well SZMW-1 will be completed in the Lower Floridan aquifer

from 1,900 to 2,000 feet bls. The exploratory well permit does not allow injection of wastewater into the wells. This permit does not authorize the construction or operational testing of any other well or wells. [62-528.440(2)(a), F.A.C.]

2. In the event a well must be plugged or abandoned, the permittee shall obtain a permit from the Department as required by Chapter 62-528, Florida Administrative Code. When no longer used for their intended purpose, these wells shall be properly plugged and abandoned. Within 180 days of well abandonment, the permittee shall submit to the Department the proposed plugging method, pursuant to Rule 62-528.460, F.A.C. [62-528.435(6) and 62-528.460(1), F.A.C.]

II. Site Requirements

1. A drilling pad shall be provided to collect spillage of contaminants and to support the heaviest load that will be encountered during drilling.
[62-528.410(9)(b), F.A.C.]
2. No drilling operations shall begin without an approved disposal site for drilling fluids, cuttings, or waste. It shall be the permittee's responsibility to obtain the necessary approval(s) for disposal prior to the start of construction. A detailed disposal plan shall be submitted to the Department prior to the commencement of drilling activities for the exploratory and monitor well. [62-528.410(9)(a), F.A.C.]
3. Specific drilling pad dimensions and design drawings for Department record shall be provided prior to commencing construction and shortly after selection of the drilling contractor. [62-528.410(9)(b), F.A.C.]
4. The water table monitor wells surrounding the well pads shall be sampled and analyzed prior to drilling the exploratory and monitor wells and then weekly thereafter. Sampling shall include specific conductance ($\mu\text{mhos}/\text{cm}$), pH (standard units), chloride (mg/L), temperature (C), and water level (feet or PSI).
[62-528.410(9)(b), F.A.C.]
5. Hurricane Preparedness – Upon the issuance of a "Hurricane Watch" by the National Weather Service, the preparations to be made include but are not necessarily limited to the following:
 - a. Secure all on-site salt and stockpiled additive materials to prevent surface and/or groundwater contamination.
 - b. Properly secure drilling equipment and rig(s) to prevent damage to well(s) and on-site treatment process equipment.
[62-528.307(1)(f), F.A.C.]

III. Construction and Testing Requirements

A. General

1. Any construction, modification, repair, or abandonment of a well shall be performed by a Florida licensed water well contractor, licensed under Chapter

Permittee: Brett O'Connor, P.E. Region Engineering Manager
A.C.M.S., Inc.
A.C.M.S., Inc. Heart of Florida Landfill

UIC Permit Number: 0450206-001-UC/5EX
WACS Facility ID: 108384
Date: March 17, 2025

62-532, F.A.C., to engage in the business of construction, modification, repair, or abandonment of a well. [62-532.200, F.A.C.]

2. Well construction shall follow the requirements of Rule 62-532.500 for Water Well Construction Standards. [62-532.500, F.A.C.]
3. The measurement points for drilling and logging operations shall be surveyed and referenced to the North American Vertical Datum of 1988 (NAVD 88) prior to the onset of drilling activities for the exploratory and monitor wells. [62-160.240(3)(b)3., F.A.C.]
4. Blow-out preventers or comparable flow control devices shall be installed on the exploratory and monitor wells prior to penetration of the Floridan aquifer system. [62-528.410(9)(c), F.A.C.]
5. The Department shall be notified 7 days prior to the mobilization of drilling operations to the site. [62-528.430(1), F.A.C.]
6. Waters spilled during construction or testing of the exploratory well system shall be contained and properly disposed. [62-528.307(1)(e) and (f), and 62-528.410(9)(b), F.A.C.]
7. If additives that were not approved in the permit application are used during grouting, for lost circulation, or for any other reason, information on their properties shall be submitted to the Department prior to their use for review and approval. [62-528.410(5)(c), F.A.C.]
8. No more than 6% bentonite gel shall be used to cement any casing or tubing unless advance approval is received from the Department due to conditions found during the drilling and logging of the well. [62-528.410(5)(f) and 62-528.420(5)(c), F.A.C.]

B. Evaluation and Testing

1. The construction, geophysical logging, and packer testing programs shall be implemented in accordance with this permit and as proposed in the following submittals:
 - HydroGeo Consulting, LLC and JMG Engineering, Inc., "Florida Department of Environmental Protection Class V, Group 9, Exploratory Well Construction Permit Application on behalf of Heart of Florida Environmental dated June 13, 2024. Application was received June 20, 2024.
 - Consulting, LLC and JMG Engineering, Inc."Request for Additional Information (RAI) No. 1 Response" received on August 15, 2024.
[62.528.307(1)(b), F.A.C.]
2. Exact depths of casing seats and monitor intervals shall be determined based on field conditions and the results obtained during the construction and testing

program and are subject to the conditions of this permit. The exploratory well will be constructed first followed by the monitor well. [62-528.410(4)(c), F.A.C.]

3. Interval or packer tests shall be conducted in both exploratory and monitor wells to identify confinement and the base of the USDW.
 - a. The program shall include the number of interval or packer tests identified in the permit application, at intervals which are to be field determined.
 - b. At least one interval or packer test shall be conducted in each proposed monitoring interval.
 - c. Interval or packer tests shall be conducted in the anticipated confining intervals, from the lowermost zone of the USDW to the top of the potential injection zone. Results from the interval or packer tests will contribute to the demonstration of confinement. To the extent feasible, the interval or packer tests shall be performed over intervals that are sufficiently narrow so as not to include high hydraulic conductivity beds.
 - d. Water samples shall be collected from each interval or packer test, and analyzed for total dissolved solids (TDS), chlorides, specific conductance, ammonia, total Kjeldahl nitrogen, and sulfate.

[62-528.405(1)(a) and (2)(a), and 62-528.420(6)(f), F.A.C.]

4. Department approval is required prior to the following stages of construction and testing:

Exploratory Wells:

- a. Intermediate (26-inch) casing seat in exploratory well
- b. Final (16-inch) casing seat in exploratory well
- c. Final seat for tubing and packer in exploratory well
- d. Intermediate (16-inch) casing seat in monitor well
- e. Final (5.87-inch O.D.) casing seat in monitor well
- f. Monitoring zone selection

[62-528.410(4)(c) and 62-528.420(4)(c), F.A.C.]

5. The depth of the USDW and the background water quality of the monitor zones shall be determined during drilling and testing using the following information:
 - a. Water samples from packer test data with analysis and interpretation.
 - b. Geophysical logging upon reaching the total depth of the appropriate pilot hole interval including the following logs at a minimum: caliper, gamma ray, dual induction, and borehole compensated sonic. Other logs as identified in the permit application documents shall be run.

[62-528.405(1)(a) and 62-528.405(3)(b), F.A.C.]

6. The lower monitoring interval shall be positioned in a zone below the base of the USDW that can produce adequate water for collection of representative groundwater samples. The purpose of the lower monitor zone is to verify the effectiveness of the confining unit and external mechanical integrity of the

exploratory well. This zone shall be placed far enough below the base of the USDW to function as an early warning for fluid movement. [62-528.425(1)(g)4., F.A.C.]

7. The data and analysis supporting the selection of the monitoring intervals shall be submitted to the Department after the collection, interpretation, and analysis of all pertinent cores, geophysical logs, packer tests and analysis of fluid samples. The Department shall approve the final selection of the specific upper and lower monitoring intervals prior to monitor well completion. [62-528.420(4)(c), F.A.C.]
8. To identify the upper and lower monitoring zones, the following information from the potential injection and monitor wells and all available on-site sources of data shall be analyzed, interpreted and submitted for Department review and approval:
 - a. Borehole televiewer or downhole television survey.
 - b. The characteristics of the transition zone (especially regarding TDS) in the vicinity of the base of the USDW.
 - c. Packer test data including water quality (TDS, chlorides, sulfate, specific conductance, ammonia, and total Kjeldahl nitrogen, at a minimum).
 - d. The specific capacity of the proposed upper and lower monitoring zones based on packer testing results.
 - e. The identification of the base of the USDW.
[62-528.420(4)(c), F.A.C.]
9. Confinement shall be demonstrated using at a minimum, directly measured lithologic properties, geophysical evidence, and tests performed while pumping the formation. [62-528.405(2)(c), F.A.C.]
10. Test results pertaining to formation testing shall include and/or specifically reference the following informational and quality control items:
 - a. Information that documents the calibration of tools, including field checks prior to testing.
 - b. The conditioning/development of the borehole prior to logging, including the techniques used and the time periods in which they were applied, and
 - c. Pertaining to packer/pump testing - recording the pumping rate regularly throughout the test to account for possible variations in the pumping rate, and providing information regarding the detection of packer leaks, if any, during testing.
[62-528.405(2) and (3), F.A.C.]
11. Representative samples of circulation fluid shall be collected when drilling with water, air, or reverse air during the drilling of the pilot holes of exploratory and monitor wells. Representative samples of circulation fluid shall be collected at a minimum of every 90 feet during drilling. The circulation fluid samples shall be

Permittee: Brett O'Connor, P.E. Region Engineering Manager
A.C.M.S., Inc.
A.C.M.S., Inc. Heart of Florida Landfill

UIC Permit Number: 0450206-001-UC/5EX
WACS Facility ID: 108384
Date: March 17, 2025

analyzed for chloride and specific conductance at a minimum. [62-528.405(1)(a), 62-528.420(6)(g), F.A.C.]

12. If effluent is encountered or suspected during pilot hole drilling and testing, the Department shall be notified immediately by telephone and in writing and immediate appropriate precautionary measures shall be taken to prevent any upward fluid movement. [62-528.440(2)(d), F.A.C.]

C. Mechanical Integrity

1. Mechanical Integrity:
 - a. Injection is prohibited until the permittee affirmatively demonstrates that the well has mechanical integrity, and a construction permit has been issued for a Class I injection well. Note that under this Class V exploratory well permit, injection of wastewater is not allowed even after demonstrating mechanical integrity.
 - b. If the Department determines that the exploratory well lacks mechanical integrity, written notice shall be given to the permittee.
[62-528.307(2)(f), F.A.C.]
2. Mechanical integrity of each potential injection well shall be determined pursuant to Rules 62-528.300(6)(b) and (c), F.A.C. For wells with a fluid-filled casing/tubing annulus, this includes both continuous annular monitoring and a pressure test of the casing/tubing annulus every 5 years. [62-528.300(6)(b) and (c), F.A.C.]
3. Verification of pressure gauge calibration must be provided to the Department representative at the time of the test and in the certified test report. [62-528.300(6)(f), F.A.C.]
4. The Department's Central District office must be notified a minimum of seven (7) calendar days prior to all testing for mechanical integrity on the exploratory well. Any change in the approved testing procedure must be approved by the Department before testing begins. All testing must be initiated during daylight hours, Monday through Friday other than State Holidays, unless approval has been given by the Department. An evaluation of test results must be submitted with all test data. [62-528.300(6)(f), F.A.C.]

D. Surface Equipment

1. The integrity of the monitoring zone sampling systems shall be maintained at all times. Sampling lines shall be clearly and unambiguously identified by monitoring zone at the point at which samples are drawn. All reasonable and prudent precautions shall be taken to ensure that samples are properly identified by monitor well name or zone and that samples obtained are representative of those zones. Sampling lines and equipment shall be kept free of contamination

with independent discharges and no interconnections with any other lines. [62-528.307(1)(f) and 62-528.307(2)(b), F.A.C.]

2. The surface equipment and piping for the exploratory and monitor wells shall be kept free of corrosion at all times. [62-528.307(1)(f) and 62-528.307(2)(b), F.A.C.]
3. Spillage onto the exploratory or monitor well pads during construction activities, and any waters spilled during mechanical integrity testing, maintenance, testing, or repairs to the system shall be contained on the pads and discharged through an approved method of disposal. [62-528.307(1)(f) and 62-528.307(2)(b), F.A.C.]
4. After well construction activities are complete, the exploratory well pads are not, unless specific approval is obtained from the Department, to be used for storage of any material or equipment at any time. [62-528.307(1)(f) and 62-528.307(2)(b), F.A.C.]
5. Four surficial aquifer monitor wells, identified as Pad Monitor Wells (PMWs), shall be located near the corners of the pads to be constructed for the exploratory and monitor wells, and shall be identified by number or pad location, i.e. NW, NE, SW, and SE. If located in a traffic area the well head(s) must be protected by traffic bearing enclosure(s) and cover(s). Each cover must lock and be specifically marked to identify the well and its purpose. The PMWs shall be sampled as follows:
 - a. During the construction and associated testing phases, the PMWs shall be sampled weekly for chlorides (mg/L), specific conductance ($\mu\text{mhos}/\text{cm}$ or $\mu\text{S}/\text{cm}$), field temperature, and water level relative to the North American Vertical Datum of 1988 (NAVD 88). Chlorides and specific conductance may be from field or lab samples.
 - b. Initial PMW analyses shall be submitted prior to the onset of drilling activities.
 - c. The PMWs shall also be sampled for total dissolved solids (mg/L, laboratory samples) during the first four weeks of PMW sampling and at all times when specifically requested by the Department.
 - d. The results of the PMW analyses shall be submitted to the Department in the weekly progress report. The PMWs shall be retained in service throughout the construction phase of the project. Upon completion of construction, the permittee may submit a request to the Department for cessation of sampling followed by capping, or plugging and abandonment of these wells.

[62-528.410(9)(b), F.A.C.]

IV. Quality Assurance/Quality Control

1. The permittee shall ensure that the construction of this exploratory well system shall be as described in the application and supporting documents. Any proposed modifications to the permit, construction procedures, testing procedures,

completion procedures, or any additional work not described in the application or supporting documents shall be submitted in writing to the Aquifer Protection Program (APP) Tallahassee office for review and clearance prior to implementation. Changes of negligible impact to the environment and staff time will be reviewed by the program manager, cleared when appropriate and incorporated into this permit. Changes or modifications other than those described above will require submission of a completed application and appropriate processing fee as per Rule 62-4.050, F.A.C. [62-4.050, F.A.C.]

2. All water quality samples required by this permit shall be collected in accordance with the appropriate Department Standard Operation Procedures (SOP), pursuant to Chapter 62-160, F.A.C., Field Procedures. A certified laboratory shall conduct the analytical work, as provided by Chapter 62-160, F.A.C., Laboratory Certification. Department approved test methods shall be utilized, unless otherwise stated in this permit. All calibration procedures for field testing and laboratory equipment shall follow manufacturer's instrumentation manuals and satisfy the requirements of the Department SOPs. A listing of the SOPs pertaining to field and laboratory activities is available at the DEP website at:
<http://www.dep.state.fl.us/water/sas/sop/sops.htm> [62-4.246, 62-160, F.A.C.]
3. All reports submitted to satisfy the requirements of this permit shall be signed by a person authorized under Rule 62-528.340(1), F.A.C., or a duly authorized representative of that person under Rule 62-528.340(2), F.A.C. All reports required by this permit which are submitted to the Department shall contain the following certification as required by Rule 62-528.340(4), F.A.C.:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.
[62-528.340(1), (2), and (4), F.A.C.]

4. Analyses shall be conducted on unfiltered samples, unless filtered samples have been approved by the Department as being more representative of groundwater conditions. [62-520.310(5), F.A.C.]
5. A professional engineer registered pursuant to Chapter 471, F.S., shall be retained throughout the construction period to be responsible for the construction operation and to certify the application, specifications, completion report, and other related

documents. The Department shall be notified immediately of any change of engineer. [62-528.440(5)(b), F.A.C.]

6. Continuous on-site supervision by qualified personnel (engineer and/or geologist, as applicable) is required during all testing and geophysical logging operations. [62-528.440(5)(b), F.A.C.]

V. Reporting Requirements

1. The drilling and construction schedule, site layout of drilling pad, and pad monitor well locations shall be submitted to the Department during site preparation but prior to drilling operation commencement for the exploratory well system. [62-528.430(2)(a), F.A.C.]
2. Weekly progress reports shall be submitted to the APP Tallahassee office and Central District offices throughout the construction period for each well. These reports, which may be submitted by electronic mail, shall be submitted within 48 hours of the end of the period of record and shall include at a minimum the following information:
 - a. A cover letter summary of the daily engineer report, driller's log, and a projection for activities in the next reporting period.
 - b. Daily engineer's reports and driller's/work logs with detailed descriptions of all drilling progress, cementing, testing, logging, and casing installation activities.
 - c. Description of daily footage drilled by diameter of bit, size of hole opener, or reamer being used.
 - d. Collection of drilling cuttings every 10 feet and at every formation change.
 - e. Description of work during installation and cementing of casing, including amounts of casing and cement used. Details of cementing operations shall include the number of cementing stages, and the following information for each stage of cementing: the volume and type of cement pumped, the theoretical fill depth, and the actual tag depth. From both the physical tag and the geophysical logs, a percent fill shall be calculated. An explanation of any deviation between actual versus theoretical fill shall be provided.
 - f. Details of the additions of salt or other materials to suppress well flow, including the date, depth, and amount of material used.
 - g. Description of testing accomplished including (but not limited to) pumping and packer tests.
 - h. Lithologic logs and core descriptions with cuttings description, formation and depth encountered.
 - i. Geophysical logs, video logs, and deviation survey results.
 - j. Water quality analyses, including but not limited to the weekly water quality analysis and water levels for the PMWs.
 - k. Well development records.
 - l. Description of any construction problems that developed during the reporting period and current status.

- m. Interpretations included with all test results and logs submitted.
- n. Documentation of disposal of drilling fluids, cuttings, formation water, or waste as per specific condition II.2.

[62-528.410(9)(a) and 62-528.430(1), F.A.C.]

3. The final selection of specific potential injection and monitor intervals must be approved by the Department. In order to obtain an approval, the permittee shall submit a written request to the APP Tallahassee office. All casing seat requests for the exploratory and monitor wells shall be accompanied by technical justification. To the extent possible, each casing seat request should address the following items:
 - a. Lithologic and geophysical logs with interpretations, as the interpretations relate to the casing seat.
 - b. Water quality data (including but not necessarily limited to TDS concentrations).
 - c. Identification of confining units, including hydrogeologic data and interpretations.
 - d. Identification of monitor zones.
 - e. Casing depth evaluation (mechanically secure formation, potential for grout seal).
 - f. Lithologic drilling rate and weight on bit data, with interpretations (related to the casing seat).
 - g. Identification of the base of the USDW using water quality and geophysical log interpretations.
 - h. A certified (PE or PG) evaluation of all logging and test results submitted with test data.
 - i. Transmissivity or specific capacity of proposed monitor zone.
 - j. Packer test drawdown curves and interpretation.

[62-528.410(4)(c), 62-528.420(4)(c), F.A.C.]

4. The short-term injection test request shall contain the following justifications:
 - a. Cement bond logs and interpretation.
 - b. Final downhole television survey with interpretation.
 - c. Demonstration of mechanical integrity, which shall include pressure testing results, and temperature logging results (if the injection test is to be after any of these mechanical integrity tests).
 - d. Reasonable assurance that adequate confinement exists.
 - e. Planned injection testing procedures.
 - f. Proposed source water to be used. Wastewater may not be used for the test. An analysis of the proposed water source is required prior to Department approval, according to the table below:

Permittee: Brett O'Connor, P.E. Region Engineering Manager
A.C.M.S., Inc.
A.C.M.S., Inc. Heart of Florida Landfill

UIC Permit Number: 0450206-001-UC/5EX
WACS Facility ID: 108384
Date: March 17, 2025

Water Source	Required Analyses
Potable Water	No analysis needed.
Groundwater	<p>Sample the water for:</p> <ul style="list-style-type: none">total dissolved solids (mg/L)chloride (mg/L)specific conductance (temperature compensated, $\mu\text{mhos}/\text{cm}$ or mS/cm)total suspended solids (TSS) (mg/L)nitrogen, ammonia, total as N (mg/L)nitrogen, total Kjeldahl as N (TKN, mg/L)nitrogen, nitrate, total as N (mg/L)sodium (mg/L)potassium (mg/L)calcium (mg/L)magnesium (mg/L)total iron (mg/L)bicarbonate (mg/L)phosphorous, total as P (mg/L)pH (standard units, s.u.)sulfate, total as SO_4 (mg/L)field temperature ($^{\circ}\text{C}$)gross alpha (picoCuries per liter [pCi/L])combined radium-226 and radium-228 (pCi/L)
Surface Water	<p>As above for groundwater, with the additional constituents:</p> <ul style="list-style-type: none">total coliform (CFU/100ML)fecal coliform (cfu/100mL)<i>Escherichia coli</i> (cfu/100mL)Enterococci (cfu/100mL)turbidity (Nephelometric Turbidity Unit [NTU])

[62-528.405(3)(b), F.A.C.]

- Upon completion of analysis of cores and sample cuttings recovered during the construction of wells covered by this permit (when no longer needed by the well owner), the permittee shall contact the Geological Sample Acquisition & Management Section of the Florida Geological Survey (FGS) to arrange for the transfer of the cores and cuttings. [62-528.450(5), F.A.C.]
- All cores and cuttings for FGS shall be shipped to the Florida Geological Survey, Geological Sample Acquisition & Management Section, 3915 Commonwealth Boulevard, Tallahassee, Florida 32399. All cores and samples shall clearly identify the site name, well name/number, depths of samples/cores, and the

Permittee: Brett O'Connor, P.E. Region Engineering Manager
A.C.M.S., Inc.
A.C.M.S., Inc. Heart of Florida Landfill

UIC Permit Number: 0450206-001-UC/5EX
WACS Facility ID: 108384
Date: March 17, 2025

latitude/longitude location of the well(s) using the form in this permit. [62-528.450(5), F.A.C.]

7. A final report of the construction and testing of the exploratory well and monitor wells shall be submitted no later than 120 days after the completion of well construction and testing, pursuant to Rule 62-528.430(1)(e), F.A.C. In addition, a copy of the cover letter for the report shall be sent to the U. S. Environmental Protection Agency, Region 4, UIC program, 61 Forsyth St. SW, Atlanta, Georgia 30303-8909, or R4gwuic@EPA.gov. This report shall include as a minimum, definitions of the potential injection interval, all relevant confining units, all monitor zones, and the depth of the base of the USDW, including all relevant data and interpretations. [62-528.605(2), F.A.C.]

VI. Abnormal Events

1. In the event the permittee is temporarily unable to comply with any of the conditions of a permit due to breakdown of equipment, power outages or destruction by hazard of fire, wind, or by other cause, the permittee of the facility shall notify the Central District. [62-528.415(4)(a), F.A.C.]
2. Notification shall be made in person, by telephone, or by electronic mail (e-mail) within 24 hours of breakdown or malfunction to the Central District Office. [62-528.307(1)(x), F.A.C.]
3. A written report of any noncompliance referenced in Specific Condition Number VI.1. above shall be submitted to the Central District Office and the APP Tallahassee office within five days after its occurrence. The report shall describe the nature and cause of the breakdown or malfunction, the steps being taken or planned to be taken to correct the problem and prevent its reoccurrence, emergency procedures in use pending correction of the problem, and the time when the facility will again be operating in accordance with permit conditions. [62-528.415(4)(b), F.A.C.]

4. Reporting Requirements

The permittee shall report to the Department's Central District Office any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the permittee becomes aware of the circumstances. The written submission shall contain: A description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

Permittee: Brett O'Connor, P.E. Region Engineering Manager
A.C.M.S., Inc.
A.C.M.S., Inc. Heart of Florida Landfill

UIC Permit Number: 0450206-001-UC/5EX
WACS Facility ID: 108384
Date: March 17, 2025

- a. The following shall be included as information which must be reported within 24 hours under this condition:
 - 1) Any unanticipated bypass which causes any reclaimed water or effluent to exceed any permit limitation or results in an unpermitted discharge,
 - 1) Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
 - 2) Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
 - 3) Any unauthorized discharge to surface or groundwaters.
- b. Oral reports as required by this subsection shall be provided as follows:
 - 1) For unauthorized releases or spills of treated or untreated wastewater reported pursuant to subparagraph (a)4. that are in excess of 1,000 gallons per incident, or where information indicates that public health or the environment will be endangered, oral reports shall be provided to the **State Watch Office Toll Free Number** 800-320-0519, as soon as practical, but no later than 24 hours from the time the permittee becomes aware of the discharge. The permittee, to the extent known, shall provide the following information to the State Watch Office:
 - a) Name, address, and telephone number of person reporting;
 - a) Name, address, and telephone number of permittee or responsible person for the discharge;
 - b) Date and time of the discharge and status of discharge (ongoing or ceased);
 - c) Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater);
 - d) Estimated amount of the discharge;
 - e) Location or address of the discharge;
 - f) Source and cause of the discharge;
 - g) Whether the discharge was contained on-site, and cleanup actions taken to date;
 - h) Description of area affected by the discharge, including name of water body affected, if any; and
 - i) Other persons or agencies contacted
 - 1) Oral reports, not otherwise required to be provided pursuant to subparagraph b.1 above, shall be provided to the Department's Central District office within 24 hours from the time the permittee becomes aware of the circumstances.
- c. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the

Permittee: Brett O'Connor, P.E. Region Engineering Manager
A.C.M.S., Inc.
A.C.M.S., Inc. Heart of Florida Landfill

UIC Permit Number: 0450206-001-UC/5EX
WACS Facility ID: 108384
Date: March 17, 2025

environment, the Department's Central District office shall waive the written report.

[403.077(2)(d), F.S., 62-528.307(1)(e) and 62-528.307(1)(x), F.A.C.]

5. Pollution Notification

- a. In accordance with subsection 403.077, F.S., in the event of a reportable pollution release, an owner or operator of the installation at which the reportable pollution release occurs must provide to the department information reported to the State Watch Office within the Division of Emergency Management pursuant to any department rule, permit, order, or variance, within 24 hours after the owner's or operator's discovery of such reportable pollution release. The Department's Pollution Notice website is at <https://FloridaDEP.gov/pollutionnotice>.
- a. If multiple parties are subject to the notification requirements based on a single reportable pollution release, a single notification made by one party in accordance with this section constitutes compliance on behalf of all parties subject to the requirement. However, if the notification is not made in accordance with this section, the department may pursue enforcement against all parties subject to the requirement.
- b. If, after providing notice pursuant to paragraph (a), the owner or operator of the installation determines that a reportable pollution release did not occur or that an amendment to the notice is warranted, the owner or operator may submit a letter to the department documenting such determination.
- c. If, after providing notice pursuant to paragraph (a), the installation owner or operator discovers that a reportable pollution release has migrated outside the property boundaries of the installation, the owner or operator must provide an additional notice to the department that the release has migrated outside the property boundaries within 24 hours after its discovery of the migration outside of the property boundaries.

[403.077(2)(d), F.S., 62-528.307(1)(e) and 62-528.307(1)(x), F.A.C.]

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 section 403.141, F.S. *[62-528.307(1)(a)]*
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. *[62-528.307(1)(b), F.A.C.]*

Permittee: Brett O'Connor, P.E. Region Engineering Manager
A.C.M.S., Inc.
A.C.M.S., Inc. Heart of Florida Landfill

UIC Permit Number: 0450206-001-UC/5EX
WACS Facility ID: 108384
Date: March 17, 2025

3. As provided in subsection 403.087(7), F.S., the issuance of this permit does not convey any vested rights or exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor 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. [62-528.307(1)(c), F.A.C.]
4. This permit conveys no title to land, 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. [62-528.307(1)(d), F.A.C.]
5. This permit does not relieve the permittee from liability for harm to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties there from; 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. [62-528.307(1)(e), F.A.C.]
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 or are 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. [62-528.307(1)(f), F.A.C.]
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 this 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.
 - d. Reasonable time will depend on the nature of the concern being investigated. [62-528.307(1)(g), F.A.C.]

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 the 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.
[62-528.307(1)(h), F.A.C.]
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 proscribed 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. *[62-528.307(1)(i), F.A.C.]*
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. *[62-528.307(1)(j), F.A.C.]*
11. This permit is transferable only upon Department approval in accordance with rules 62-4.120 and 62-528.350, F.A.C. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department. *[62-528.307(1)(k), F.A.C.]*
12. This permit or a copy thereof shall be kept at the work site of the permitted activity. *[62-528.307(1)(l), F.A.C.]*
13. 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 shall be extended automatically unless the Department determines that the records are no longer required.
 - b. The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including 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.
- d. The permittee shall furnish to the Department, within the time requested in writing, any information which the Department requests to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit.
- e. If the permittee becomes aware that 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.
[62-528.307(1)(m), F.A.C.]

14. All applications, reports, or information required by the Department shall be certified as being true, accurate, and complete. [62-528.307(1)(n), F.A.C.]

15. Reports of compliance or noncompliance with, or any progress reports on, requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each scheduled date. [62-528.307(1)(o), F.A.C.]

16. Any permit noncompliance constitutes a violation of the Safe Drinking Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. [62-528.307(1)(p), F.A.C.]

17. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. [62-528.307(1)(q), F.A.C.]

18. The permittee shall take all reasonable steps to minimize or correct any adverse impact on the environment resulting from noncompliance with this permit. [62-528.307(1)(r), F.A.C.]

19. This permit may be modified, revoked and reissued, or terminated for cause, as provided in 40 C.F.R. sections 144.39(a), 144.40(a), and 144.41 (1998). The filing of a request by the permittee for a permit modification, revocation or reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition. [62-528.307(1)(s), F.A.C.]

Permittee: Brett O'Connor, P.E. Region Engineering Manager
A.C.M.S., Inc.
A.C.M.S., Inc. Heart of Florida Landfill

UIC Permit Number: 0450206-001-UC/5EX
WACS Facility ID: 108384
Date: March 17, 2025

20. The permittee shall retain all records of all monitoring information concerning the nature and composition of injected fluid until five years after completion of any plugging and abandonment procedures specified under rule 62-528.435, F.A.C. The permittee shall deliver the records to the Department office that issued the permit at the conclusion of the retention period unless the permittee elects to continue retention of the records. *[62-528.307(1)(t), F.A.C.]*
21. All reports and other submittals required to comply with this permit shall be signed by a person authorized under rules 62-528.340(1) or (2), F.A.C. All reports shall contain the certification required in rule 62-528.340(4), F.A.C. *[62-528.307(1)(u), F.A.C.]*
22. The permittee shall notify the Department as soon as possible of any planned physical alterations or additions to the permitted facility. In addition, prior approval is required for activities described in rule 62-528.410(1)(h). *[62-528.307(1)(v), F.A.C.]*
23. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or injection activity which may result in noncompliance with permit requirements. *[62-528.307(1)(w), F.A.C.]*
24. The permittee shall report any noncompliance which may endanger health or the environment including:
 - a. Any monitoring or other information which indicates that any contaminant may cause an endangerment to an underground source of drinking water; or
 - b. Any noncompliance with a permit condition or malfunction of the injection system which may cause fluid migration into or between underground sources of drinking water.

Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause, the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

[62-528.307(1)(x), F.A.C.]

Permittee: Brett O'Connor, P.E. Region Engineering Manager
A.C.M.S., Inc.
A.C.M.S., Inc. Heart of Florida Landfill

UIC Permit Number: 0450206-001-UC/5EX
WACS Facility ID: 108384
Date: March 17, 2025

Issued this 17th day of March 2025
State of Florida
Department of Environmental Protection

Richard Lobinske

Richard Lobinske, Ph.D.
Environmental Administrator
Underground Injection Control
Aquifer Protection Program
Division of Water Resource Management