

HYDROLOGIC ASSOCIATES U.S.A., INC.

ENVIRONMENTAL CONSULTANTS • HYDROGEOLOGIC TESTING
WELL DRILLING SERVICES • PETROLEUM CONTRACTOR

PROPOSAL SUBMISSION

For:

RFP No. 25-020 – Re-Bid: Water Quality Monitoring Program

Prepared for:

**City Clerk
City of Key West,
1300 White Street
Key West, FL 33040**

September 17, 2025

NASSAU
P.O. Box CB-12762, Suite # 186
Cable Beach, Nassau, Bahamas

MIAMI
CORPORATE HEADQUARTERS
10406 SW 186th Terrace
Miami, Florida 33157
Phone: (305) 252-7118
Fax: (305) 254-0874
WWW.HAIMIAMI.COM

ORLANDO
109 Bayberry Road
Altamonte Springs, Florida 32714

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1. COVER LETTER & EXECUTIVE SUMMARY

Hydrologic Associates, USA, Inc. (HAI) submits for your consideration this Proposal Submission as our response to RFP No. 25-020.

HAI was established in 1988 and incorporated in the State of Florida in response to a growing need for hydrologic and hydrogeologic data collection, data analysis, and interpretation, contamination assessment, assistance in land-use and water resource planning, and technical consultation on environmental issues. HAI has headed Water Quality Data Collection monitoring programs related to groundwater, surface water, rainfall, soil, subsurface geologic materials, canal and stream sediments. Our firm has led environmental science and engineering work in water quality monitoring services for over 30 years. This includes above 8,000 water quality monitoring projects, over 50 environmental remedial action plans, and over 5000 various environmental site investigations. Our corporate headquarters are located in Cutler Bay, Florida and support projects in Monroe County throughout the Florida Keys. The staff of Hydrologic Associates, USA, Inc. has the capability of providing a wide range of services to governmental agencies, universities and the private industry.

Our leadership team includes Jim Miller, Leo Swayze, and Theodore Miller supported by a staff of 27 professionals with expertise in environmental science, geology, engineering, microbiology, and adherence to applicable federal and state environmental regulatory standards. Our company currently employs 21 full-time and 6 part-time staff members. The team includes 2 registered professional geologists and 2 registered professional engineers. Combined, our staff garners over 300 years of experience derived from interdisciplinary scientific investigations and environmental projects in Florida, the Caribbean, and Mexico.

Primary Responsible Contact:

Lauren Padron

- Project Engineer
- lauren@haimiami.com
- 305-244-4014

Alternative Responsible Contact:

Jim Miller

- President of HAI & PE
- jmiller@haimiami.com
- 305-951-7095

Our company is structured to complete projects in four phases after receiving a solicitation: Definition and Planning, Execution, Quality Control and Analysis, and Reporting.

In the definition and planning stage, our professional engineer, professional geologist, and project manager will work together to develop a scope of work, plan of action, and work breakdown schedule.

In our execution stage, our senior project geologist and engineers will work with our field technicians and laborers to implement our plan of action and track the progress and quality of our work.

In our quality control and analysis stage, our professional engineer, professional geologist and senior project geologist will assess if we have achieved our objectives and delivered a quality of service that meets the HAI standards. If further work is required, they will go back to the definitions and planning stage and reconsider what steps must be taken to achieve the closure of a project.

In our reporting stage, one of our engineers or geologists will prepare a report documenting the execution and results of our project with contributions made by our assistant technical specialists and drafters. Either our professional engineer or professional geologist will review the report to ensure it is to HAI standards.

Our proposed approach is geared towards the ultimate goal of maintaining the City of Key West's (hereby also referred to as "the City") waterways clean for the health of its residents and stakeholders. The approach includes:

1. Review and summarize existing water quality data by Geographic Areas of Concern (GOCs) using data analysis and visual heat maps.
2. Identify pollutant mitigation actions and provide defensible recommendations.
3. Design a monitoring plan aligned with EPA, FDEP, and FDOH SOPs that captures both baseline conditions, geomorphological, and tempo-spatial changes in the waterways.
4. Increase beach sampling frequency to support public health decision-making.
5. Deliver timely, transparent reports to the City and public dashboards for community awareness that include visual representations of hotspots and exceedances.
6. Engage stakeholders in quarterly or semi-annual meetings to refine monitoring, mitigation management and ensure continuous alignment with City and FDEP priorities.

We will implement a monitoring program that ensures defensible data, rapid reporting, and transparency to stakeholders. Our approach integrates FDEP SOPs, QA/QC verification, data analysis and community reporting formats consistent with City expectations and national regulations.

L. Swartz
LEW SWARTZ
9.17.25

2. QUALIFICATIONS AND RELEVANT EXPERIENCE

Firm Composition & Structure

- **Business Form:** Corporation
- **Persons with an Interest in the Firm:** Leo J. Swayze, James T. Miller
- **Organization Chart:** See attachments following this section.

Project Team

HAI commits that the project team identified will remain dedicated to the project until completion.

Primary Project Manager:

James T. Miller, President & P.E., 32 years of experience.
Responsible for overall project delivery, compliance, and reporting.

Key Staff:

Phil de Amezola, REM, Role: Project Manager, 34 years of experience (YoE).
Roger Simon, P.G. & LEP, Role: Project Manager, 18 YoE.
Noah Miller, P.E., Role: Technical Lead, 5 YoE.
James Gould, Administrator, Role: Field Supervisor, +20 YoE.
Lauren Padron, Engineering Technical Specialist, Role: Data Manager, 7 YoE.

Subcontractors:

- Eurofins Florida Keys Office in Marathon, FL - NELAP certified laboratory.
- Advanced Environmental Laboratories, Inc. (AEL) in Miramar, FL - TNI/NELAP certified laboratory.

Resumes & Staff Information

Resumes for key staff and subcontractors are included in the Section 2 Attachments immediately following this section. These detail education, certifications, areas of specialization, and relevant project history.

Project History & Relevant Experience

- HAI has excelled in projects of similar scope and size to this City of Key West RFP including but not limited to the following examples:
 - Freshwater Lens Evaluations of Big Pine Key, No Name Key, Stock Island and Key West, Florida Keys
 - Everglades hydrology

- Analysis of historic hydrologic conditions in the Everglades/Big Cypress Basins and adjacent wetland areas.
- City of Hallandale Beach stormwater injection permits where HAI is monitoring surface water quality and stormwater injection to the G-III aquifer through drainage wells (not gravity based).
- UM Hospital Development project requiring surface water quality monitoring.
- Salinity Monitoring Networks Utilized by the US Geological Survey for the following regions and government entities: Miami-Dade County – WAsD & DERM, Broward County – DPEP & OES, Palm Beach County – SFWMD, Big Pine Key – SFWMD.

Areas of Expertise:

- Water-quality and biological sampling/monitoring across coastal and nearshore systems—covering study design, field execution, and defensible reporting.
- Standardized water-data management, including QA/QC screening, database administration, and electronic data deliverable (EDD) production for regulator-ready submittals.
- Regional, multi-site surface-water programs coordinated across numerous stations, with efficient routing, chain-of-custody integrity, and schedule adherence.
- Over 30 years of executing water sample collections in accordance with FDEP Standard Operating Procedures (SOPs), with documented calibration and verification of DO, pH, temperature, specific conductance, and salinity meters.
- Strong familiarity with Federal, State, and Local water quality regulations.
- Extensive laboratory analysis experience. NELAP certification and method detection limits are provided via our sub-contractors Eurofins Florida Keys and AEL (Advanced Environmental Laboratories).

Additional Information:

The qualifications and documents listed below are found in the Section 2 Attachments.

- **Staff Qualifications Document**
- **Quality Assurance Program**
- **Safety/Hazardous Waste Plan**
- **NELAP/NELAC Audit Results**
- **Number of Annual Analyses Performed:** over 100,000.

Leo Swayze
LEO SWAYZE
9.17.25

3. REFERENCES AND QUALITY OF PAST PERFORMANCE

Three client recommendations are provided in this section that we believe serve as appropriate representations of our business relations and documentation of historical successes in water quality monitoring.

Leo Swayze
LEO SWAYZE
9-17-25

4. PROJECT APPROACH

HAI acknowledges and understands the City’s goal to 1.) establish defensible baselines for priority pollutants by geographic areas of concern (GOCs), 2.) detect changes attributable to mitigation actions, 3.) ensure ordinance compliance with City Code Ch. 80, and 4.) improve public communication of beach and nearshore water quality. Our approach follows FDEP SOPs/62-160, uses NELAP laboratories, and implements the monitoring and reporting structures described in this section.

4.1 Objectives & Overview

Objective 1: Baseline – Quantify seasonal baseline for bacteria, nutrients, turbidity, and ordinance-abiding pollutant classes by GOC. All pollutant classes are to be approved by the City Commission.

Objective 2: Mitigation Effectiveness – Measure post-mitigation effect sizes and trends using:

- **Pre & Post Mitigation Seasonal Blocking:** The seasons refer to the Dry season: Nov–Apr; and Wet season: May–Oct. Samples will be within each block, both before and after mitigation at the same station. Comparisons will be made like-with-like, i.e.: comparing dry pre-mitigation with dry post-mitigation.
- **Heat Maps:** showcasing both the seasonal variability and isolating mitigation through quantified “post” effects.

Objective 3: Compliance – Monitor pollutant classes in City Code Ch. 80 for potential shoreline and cruise-ship sources.

Objective 4: Public Health Messaging –

- Produce trend summaries and beach advisories aligned with FDOH reporting.
- Communicate information at the citizen-science level to inform the public through a dashboard that presents data in near-real-time and accessible language.

HAI will convert the City’s historical water-quality data into decision-ready summaries organized by GOC (geographic areas of concern) and COC (contaminant of concern). This will be achieved by implementing time-efficient and FDEP QAQC-compliant analytical methods. Summaries of the data evaluation for each of the water quality parameters and GOCs will be provided as a brief technical memo and presentation brief of results no longer than 10-15 slides unless required. HAI will create heat maps showing the hotspots by detection frequency and exceedance counts of each sampled COC (contaminant of concern). The heat maps will show

concentration gradients for each selected COC across GOCs; including scale bars, symbology, and data vintage.

Based on the identified hotspots and COC concentration, HAI will research effective actions to mitigate the identified pollutants. Pollutant and bacterial levels are usually affected by factors such as wastewater infrastructure, beach type and tidal flush, stormwater controls, policy management, and seasonal air and water temperatures.¹ To identify drivers, linear correlations can be run on the existing water quality data with potential contributors, i.e.; stormwater and wastewater discharge points, land use, tidal stage, and/or rainfall. Contributor data would be obtained from the USGS (United States Geological Survey) and NOAA (National Oceanographic and Atmospheric Administration) databases. Pollutant mitigation usually involves a mixture of beach management policy, updating sanitary infrastructure, reinforcing stormwater and runoff controls, changing coastal beach designs of limited-circulation beaches, and planning ahead of heat-related risks. Each pollutant's mitigation strategy is dependent on its point and non-point sources.

Following the data analysis results, the Water Quality Monitoring Program will be designed by our leading staff with emphasis on identifying the COC baselines, tempo-spatial changes, and mapping pollutants related to the City Ordinance Sec. 80-2. Water quality COCs to be submitted for the City Commission's review can include but are not limited to: fecal indicators, sewage tracers such as sucralose, nutrient indicators (such as total nitrogen (TN), total phosphorous (TP), ammonia, and nitrate plus nitrite (NOx)), total recoverable petroleum hydrocarbons (TRPHs) and polycyclic aromatic hydrocarbon (PAHs) as petroleum and tar wastes, surfactants, turbidity (NTU) measures, salinity anomalies, trade waste metals, calcium, pesticides or herbicides indicating runoff, and PFAS.

Project deliverables would be obtained through several stages as specified in Section 4.2. The project would begin with the planning stage consisting of an estimated 1-4 weeks to confirm objectives, finalize station maps by GOC, select the parameters matrix, and lock unit-rate budget options. Field sampling days will occur weekly between Monday – Thursday and exclude Federal Holidays. Sampling will include bacteria, background NTU (Nephelometric Turbidity Units), and the core parameters specified by the City. Data entry, quality assurances, and correction procedures are specified below in Section 4.3 as well as in the Section 2 QAPP document.

¹ Elizabeth A. Kelly et al., "Effect of Beach Management Policies on Recreational Water Quality," *Journal of Environmental Management* 212 (2018): 266–277, <https://doi.org/10.1016/j.jenvman.2018.02.012>

4.2 Proposed Program Schedule

Phase	Activities	Schedule Window	Products
Mobilization	<ul style="list-style-type: none"> - Confirm objectives with the City Commission. - Finalize station maps by GOC. - Select parameters matrix. - Approve turbidity protocol. 	Weeks 1-4	Final station list; Health & Safety plan addendum
Design	<ul style="list-style-type: none"> - Establish monitoring plan, QA/QC, and schedule. 	Weeks 3-4	Draft Monitoring Program
Baseline	<ul style="list-style-type: none"> - Gather baseline data through field plan execution. - Include analysis and reporting with QA/QC and validation. - Produce GOC scorecards. - Produce heat-map atlas. - Create Brief Report for the City. 	Weeks 5-20 (Dry/Wet blocks)	Monthly dashboard; Monthly GOCs visual heat maps; Event memos; Compliance logs; City Brief Report
Mitigation	<ul style="list-style-type: none"> - Conduct sampling pre- and post-mitigation (BACI*). 	As projects occur	Mitigations Effects Memos; Seasonal heat maps
Commission Package	<ul style="list-style-type: none"> - Finalize analysis of data. - Submit Monitoring Program Report including summary of operations, maintenance and costs. 	Quarterly or Semi-Annual	Final Program Report; Final Summary Presentation

** **BACI**: Before-After-Control-Impact is a study design to assess the environmental impact of a disturbance or change by comparing data from an impacted site with that of a control site which didn't get the mitigation action implemented. Data between the impacted and control sites is compared both before and after the intervention.*

4.3 Organization & Coordination of Staff

The field crew includes two teams of paired field technicians for safety and rapid redeployment. The second field crew team will be cross-trained alternative in case of emergencies such as illness, injury, or other. There will be hourly check-ins with the Field Supervisor and Project Managers for checks. HAI will assign alternate field sampling teams to be utilized in case of emergencies and change of plans to ensure the sampling schedule is kept consistent. Refer to the Section 2 QAPP and HASP plans for further information on the project’s proposed organization and scheduling corrections.

Role	Primary Duties	Level of Effort	Backup/Surge
Project Manager (PM)	Oversight; schedule; Commission briefings	15% FTE*	Deputy PM
Technical Lead (QA Officer)	QAPP/SOPs; data validation; MDL checks, E-forms, QC flags,	20% FTE	Senior Project Manager (PE, PG)
Field Supervisor	Daily crews; safety; COC chain; equipment	40% FTE	Alternate Field Supervisor
Field Team A (2-person)	GOC sampling; beach runs (Mon–Thu)	2 days/week	Reserve Techs
Field Team B (2-person)	Harbor transects; contingency/make-ups	1–2 days/week	Reserve Techs
Data Manager & Analyst	Database, dashboard, heat maps, web layers and design management	25% FTE	Analyst
EuroFins Florida Keys & AEL Subcontractor Labs	NELAP analyses for parameters	As-needed	Alternate NELAP lab

FTE: full-time equivalent metric.

4.4 Data Entry, QAQC, Safety Plan and Correction Procedures

The HAI Quality Assurance and Quality Control Project Plan (QAPP) provided in Section 2 follows the 2017 FDEP SOPs effective 4/16/2018 which are official versions of SOPs cited in the DEP QA Rule, Chapter 62-160, F.A.C..^{2,3} The HAI QAPP includes but is not limited to the following:

² Florida Administrative Code (FAC), “Rule Chapter 62-160: Quality Assurance,” Florida Department of State, accessed September 16, 2025, <https://flrules.org/gateway/ChapterHome.asp?Chapter=62-160>

³ Florida Department of Environmental Protection, “DEP SOPs,” Division of Environmental Assessment and Restoration—Quality Assurance, last modified June 21, 2023, <https://floridadep.gov/dear/quality-assurance/content/dep-sops>

- **Forms and Chain-of-Custody:** Electronic data sheets must include GPS-coordinates, photo of location, wind direction and speed, tide direction, time-date information, observations and crew signatures. Water quality indicators such as temperature, salinity, dissolved oxygen, pH, and TSS (turbidity, suspended solids) recorded at the time of sampling will be included in the data sheet. Datasheets are to be submitted by the end of each field day.
 - If electronic data sheets are unavailable due to signal disruptions or device malfunction, water-proof field data sheets will be on-hand to ensure continuous records. Paper field data sheets are to be photographed and submitted at the end of each field day.
- **Quality Assurance:** Prior to deployment, mandatory checks will be executed for multimeter and turbidity device calibrations, bottle and preservative condition, cooler temperatures, duplicate and blank frequency.
- **Checks:** Field Technicians must complete e-forms or paper forms before departing from each site. The Data Manager is to review incoming data submissions the day-of.
- **Lab submission:** Chain-of-custody documentation is to be transmitted electronically prior to sample receipt with a hardcopy placed in all sample coolers.
- **Validation:** The Eurofins and/or AEL lab will ensure the validity of lab analyses through two stages of screening. Data validation is completed prior to reporting.
- **Error Correction:** Ticketed correction log with versioning; changes only by Data Manager/QA Officer; full audit trail.
- **Quality Plan:** QAPP aligned with 62-160 and FDEP SOPs (latest); includes 10% duplicates, 5% blanks, acceptance criteria, and corrective action process.

4.5 Equipment

- Multiparameter sondes (calibrated daily) including two YSI ProQuatro and a Hanna instrument HI98194.
- Sterile microbiological kits.
- Two Hanna Instrument HI98703 turbidity meters.
- Three Pegasus Alexis peristaltic pumps.
- Minimum of 50 sampling coolers.
- Rented equipment includes but is not limited to: Landtec GEM 5000 Plus Landfill Gas Monitor, MultiRAE multi-gas detector, Stainless steel hand auger for soil sampling, Niskin bottle SW sampler, Kemmerer sampler, Clamshell or Grab sampler, Nephelometer to measure the concentration of suspended particles.

4.6 Subcontractors

- The Eurofins Florida Keys laboratory in Marathon, Florida is approximately 48 miles, or 60-75 minutes via US-1, from Key West, enabling same-day receipt and analysis initiation so all parameters are processed well within holding times. Additional documentation and certifications are provided in the Section 3 Attachments.
- The Advanced Environmental Laboratories (AEL) located in Miramar, Florida will serve as our NELAP-accredited backup lab at approximately 165 miles from Key West. This lab location would also allow same-day courier delivery and on-receipt triage so samples remain within method holding times. Additional documentation and certifications are provided in the Section 3 Attachments.

Leo Swayze
LEO SWAYZE
9.17.25

5. OTHER INFORMATION

Value Add: HAI can develop a Public Dashboard with automated alert thresholds for exceedances per EPA, FDEP and FDOH standards that would be updated in near-real-time. In addition, we offer a visual representation of exceedances through hotspot heat mapping.

Local Familiarity: HAI has been working in the Florida Keys for approximately 20 years. Our firm has acquired extensive technical knowledge of the South Florida environment through our work that is primarily focused on pollutant monitoring and remediation.

In further support of HAI's qualifications, additional documentation is provided in this section to demonstrate available services, our partial client lists by category and all environmental services HAI offers.

Leo Swayze
LEO SWAYZE
9-17-25

6. COST EFFECTIVENESS

Please refer to the cost tables 6.1 – 6.5 in this section for the estimated costs of labor, field sampling, equipment, and optional items.

6.1 Labor Rate Schedule (attach resumes per Tab 4)

Role / Labor Category	Hourly Rate (\$/hr)
Project Manager	150
Technical Lead / QA Officer	120
Senior Project Geologist	120
Senior Project Engineer	120
Field Supervisor	105
Field Technician (2-person crew)	130
Data Manager & Analyst	120
Assistant Technical Specialist	90
Admin / Project Controls	60

6.2 Field & Sampling Unit Rates

Line Item	Unit	Unit Rate (\$)
Mobilization / Demobilization (local)	per event	150
Field Day – 2-person crew (incl. truck, routine PPE)	per day	150
Background NTU station (paired)	per station	200
Station Visit – Core field parameters (Temp/Sal/DO/pH/NTU)	per station	100
Sample Collection – Bottle Set (general chem/nutrients/metals)	per station	30
Chain-of-Custody & Coolers / Ice	per event	50
Contingency / Weather Make-up Deployment	per event	150

6.3 Laboratory Analytical Unit Rates

Parameter Group	Analytical Method	Unit Rate (\$/sample)
Sewage Indicators		
Marine Fecal Indicator – Enterococci	EPA 1600 (MF) or SM 9230B, Enterolert	60.00
Sewage Tracer – Sucralose / Acesulfame-K	LC-MS/MS (EPA 1694-mod)	750.00
Nutrient Indicators		
Nutrients – TN/TKN/NH ₃ /NO _x /TP	EPA 350	60.00
	EPA 351	45.00
	EPA 353	40.00
	EPA 365	45.00
	EPA 365	45.00
Nutrients – TSS, TDS	EPA 160.2	35.00
	EPA 2540	35.00
Turbidity – NTU		35.00
Industrial Indicators		
Oil & Grease – HEM	EPA 1664	75.00
Petroleum Waste – TRPH	FL-PRO	80.00
Petroleum Waste – PAHs	EPA 8270	105.00
Trade Waste Metals – Cu, Zn, Pb, Ni, Cr	EPA 200.8 / 200.7 / 6020 (ICP-OES)	80.00
Surfactants – MBAS/LAS	EPA 425.1 / SM 5540 C	65.00
Runoff Indicators – Pesticides/Herbicides	EPA 525.2 (GC-MS)	216.00
	508.1 (GC-ECD)	120.00
	531.2 (LC-FLD/UV)	110.00
PFAS screen – PFOS/PFOA ± list	EPA 533 (short chain)	270
	EPA 537.1 (long chain)	270
Additional Parameters		
Calcium – Ca, diss./total	EPA 200.8 / 200.7	32.00
		32.00
Algal Response – Chlorophyll-a	SM 10200 H (ex.)	75.00
Microplastics		1140.00

6.4 Equipment, Instruments & Supplies

Item	Unit	Unit Rate (\$)
Turbidity meter (NTU)	per day	<u>50</u>
GPS-enabled devices / e-forms	per day	<u>25</u>
Sampling pumps / tubing	per day	<u>50</u>
Bottles / Preservatives / Filters	per event	<u>25</u>
Calibration standards & gases	per lot	<u>15</u>
Safety / PPE replenish	per month	<u>25</u>

6.5 Reimbursable Items & Direct Costs

Item	Unit	Unit Rate (\$)
Travel – mileage / fuel	per mile / day	<u>50</u>
Lodging / per diem (if applicable)	per night / day	<u>250</u>
Sample shipping / courier	per cooler	<u>35</u>

Leo Swayze
LEO SWAYZE
9-17-25

7. PROJECT SCHEDULE & DELIVERABLES

A project schedule table is provided below. However, please note that the project schedule and deliverables are also stated in the Section 4.2 Proposed Program Schedule table and the Section 4.3 Organization and Coordination of Staff table.

	Task	Deliverable	Timeline
Task 1	Existing Data Summary & Analysis	Report	Month 1
Task 2	Mitigation Action Report	Memo	Month 2
Task 3	Monitoring Plan	Draft/Final	Month 3
Task 4	Beach Sampling Data	Monthly Memo & Presentation	Weekly
Task 5	Community Summaries	Dashboard + Report	Quarterly
Task 6	Stakeholder Meetings	Notes + Updated Plan	Semi-Annual

HAI is prepared to deliver a defensible, FDEP-compliant Water Quality Monitoring Program that protects Key West waterways, informs public health, and ensures transparent reporting to the community. We hope that our years of experience and rigorous standard operating procedures are to your satisfaction.

Leo Swayze
LEO SWAYZE
9-17-25

8. LITIGATION

- A list of the person’s or entity’s shareholders with five (5) percent or more of the stock or, if a general partnership, a list of the general partners; or, if a limited liability company, a list of its members; or, if a solely owned proprietorship, names(s) of owner(s)
 - Leo James Swayze
 - James T. Miller

- A list of the officers and directors of the entity
 - James T. Miller
 - Leo James Swayze
 - Theodore Miller

- The number of years the person or entity has been operating and, if different, the number of years it has been providing the services, goods, or construction services called for in the bid specifications (include a list of similar projects);
 - 37 years

- The number of years the person or entity has operated under its present name and any prior names;
 - 37 years

- Answers to the following questions regarding claims and suits:
 - a. No
 - b. No
 - c. No
 - d. No
 - e. No
 - f. Customer references are provided below.

Customer Reference 1:
Alexander Little
Chief Operating Officer
Centerline Capital Advisors
15481 SW 12th Street #309,
Sunrise, FL 33326
C: (561) 436-5058 |
O: (954) 688-5573
alittle@centerlineca.com

Customer Reference 2:
Alvaro Sanchez
Project Manager
Skanska USA Building Inc.
350 E Las Olas Boulevard,
Suite 1100
Fort Lauderdale, FL 33301,
United States
954-218-6046
usa.skanska.com

Customer Reference 3:
Douglas Pryor
Director Construction & Distribution
Services
Monroe County School District
5330 2nd Avenue | Stock Island, FL 33040
O: (305) 293-1400 x 53465 |
C: (305) 407-6251
Douglas.Pryor@KeysSchools.com
www.KeysSchools.com

g. Credit references are provided below:

Credit Reference 1:

Byron Hurtado
Vice President of Operations
Bulk Environmental & Industrial
3355 NW 41st Street, Miami,
33142
O: 305-637-5567 M: 678-618-
5250
Byron.Hurtado@bulkexpress.com
www.bulkenvironmental.com

Credit Reference 2:

Stephen Donovan
Technical Sales
Representative
Clean Earth Inc.
(O) 772.380.2761
(M) +1.386.562.8613
sdonovan@cleaneearthinc.com
www.cleaneearthinc.com
1240 Foxmoor St, Moore
Haven, FL 33471

Credit Reference 3:

Advanced Environmental
Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216
Attn : Jarrett "Alex" Smith
(904)363-9350 x236
Email : jsmith@aellab.com

h. Financial statements for the prior three years are provided in the Section 8 Attachments.

Leo Swayze
LEO SWAYZE
9-17-25

9. CITY FORMS

All affidavits and certifications are completed and signed by Leo Swayze, Vice President, an authorized officer/agent of Hydrologic Associates USA, Inc., duly empowered to bind the firm. Evidence of authority in the form of the Sunbiz record is included in the Section 9 Attachments.

Leo Swayze
LEO SWAYZE
9-17-25

10. PROJECT LOCATION & LOCAL PREFERENCE

HAI is headquartered in Cutler Bay, Florida and does not seek to claim local preference in this proposal. The HAI headquarters office is located at 10406 SW 186th Terrace, Miami, FL 33157.

Leo Swayze
LEO SWAYZE
9-17-25

SECTION 2 ATTACHMENTS

INCLUDING:

Organizational Chart, Resumes & Qualifications

Plan: QAPP

Plan: HASP

Sub-Contractor: Eurofins Documentation

Sub-Contractor: AEL Documentation

Hydrologic Associates USA, Inc.

Organization chart

Technical Sampling Administrative

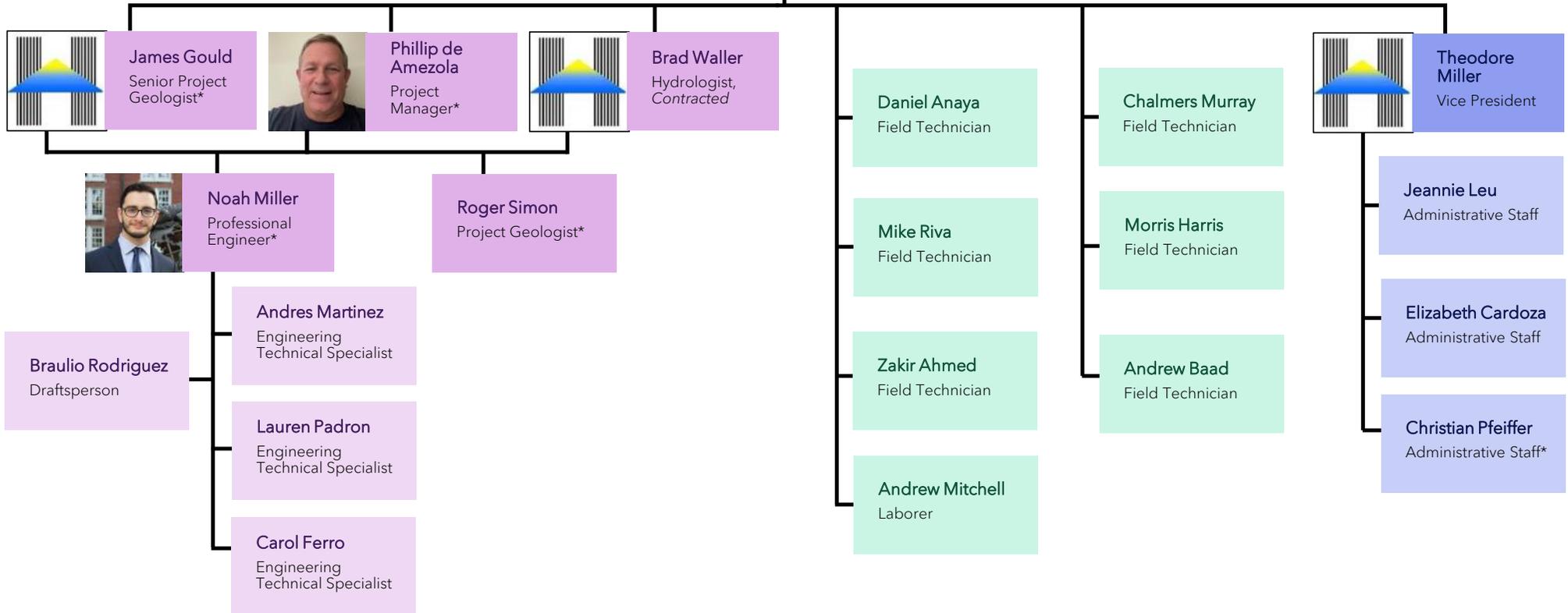
* Key Personnel



James Miller
President,
Professional
Engineer*



Leo Swayze
Vice President,
Professional
Geologist*



HAI Team Members' Experience and Qualifications

James Miller, P.E., President, Project/Contract Manager – James Miller has been working as an environmental engineer for 31 years. After receiving his Associate of Arts in Building Construction Management from Miami Dade College and his Bachelor of Science in Civil Engineering from Florida International University, James worked as a consulting engineer for Intercounty Laboratories and LAW Engineering before joining Hydrologic Associates USA, Inc. in 1997. James acquired his professional engineering licensure in February 1999. He has conducted countless Phase I and Phase II ESAs, performed hundreds of aboveground/underground storage tank assessments and closures, designed and implemented remedial action plans, and has acted as the president of HAI for over two decades.

Leo Swayze III, P.G., Vice President – Leo Swayze III has 50 years of experience in the geological and hydrological fields. After earning his degree in Geology and Chemistry from the University of Miami in 1972, Leo worked for the United States Department of the Interior as a hydrogeologist for 15 years before founding HAI with Bradley Waller and Theodore Miller in 1988. Leo has expertise in theoretical and applied ground-water hydrology, digital modeling of ground-water flow and solute transport, geochemistry of ground-water systems, assessment and remediation of contaminated groundwater, aquifer performance testing, and well drilling.

James Gould, Senior Project Geologist, Project/Site Manager – James Gould is an Environmental Geologist who has 35 years environmental consulting experience and has a thorough knowledge of environmental rules, regulations, policies, and procedures. After receiving a Bachelor's of Science degree in Geology from East Carolina University and his Masters of Science degree in Coastal Zone Management from Nova University, James worked at SSA Environmental, LAW Engineering, Environmental Management Group, and LandScience Inc. before joining HAI in 2011. James has experience as a project manager, an environmental geologist, a director of operations, and a senior project geologist. Mr. Gould has conducted Phase I/Phase II Environmental Site Assessments, Limited Asbestos Surveys, Tank Closure Assessments, Contamination Assessments for petroleum products and other hazardous chemicals, and prepared Solid Waste Permit Applications.

Phillip de Amazola, REM, Project/Site Manager, Field Technician – Phillip received his Bachelor of the Arts degree from Rollins College in Environmental Sciences in 1991. Since then, he has also received Hazardous Materials Site Supervisor Training, an Environmental Manager registration, his indoor environmental consultant certification, and his stormwater management inspector license. Mr. de Amazola has 33 years' experience in the environmental consulting industry. Over the past thirty years Mr. de Amazola has developed and increased the scope of services revenue at HAI. At United Engineering Services, his primary job was to manage a small group of environmental professionals and encourage performance beyond capacity to meet client deadlines and technical excellence. Although he was responsible for the environmental group based in West Palm Beach, Florida, he was the last senior environmental manager throughout the firm and was consulted by the entire firm comprised of 18 different offices throughout Florida, and one in Georgia. His specialized areas include indoor air quality, contamination assessments, site investigations, remedial/feasibility studies, real estate transactional due diligence, remedial design/remedial action implementation at hazardous materials/waste sites including long term operation and maintenance. Mr. de Amazola has conducted and audited field sampling efforts in accordance with the FDEP SOPs and has experience in soil, air, sediment, surface water and groundwater sampling including a variety of innovative environmental drilling techniques. Mr. de Amazola has been involved with a variety of soil and groundwater remedial on-site treatment systems including land farming, soil vapor extraction, soil bioventing, air sparging (in-situ and open hole) and air stripping. Mr. de Amazola's background also includes due diligence and NEPA compliance. As the Principal of Environmental Services, Mr. de Amazola's responsibilities included performance oversight and technical management of site assessments and investigations including but limited to due diligence, contamination assessment, remedial activities, overall risk management, and much more. He is experienced at cost evaluation versus appropriate remedial technologies.

Noah Miller, Professional Engineer, Project/Site Manager, Field Technician – With five years of experience as an environmental engineer, Noah specializes in environmental site investigations, training assistant technical specialists, composing Phase II ESAs, soil and groundwater monitoring, remedial action plan implementation, and analyzing laboratory analytical data. Noah studied at the University of Florida earning a degree in mechanical engineering in 2019.

Roger Simon, PG, Project/Site Manager – Roger is a Professional Geologist, Licensed Environmental Professional, environmental scientist, consultant and project manager with 18+ years of experience in environmental assessment, contamination delineation, permitting of contaminated sites for development, environmental cleanup, cost projections, regulatory compliance and closure, environmental health and safety, and environmental due diligence as an expert in ASTM-1527-21 for assessment of soil, soil vapor, groundwater, surface water, wastewater, and indoor air quality (mold, lead-based paint, asbestos, methane, etc.) in Florida, Georgia, Mexico, and the Caribbean.

Lauren Padron, anticipated EIT, Engineer, Field Technician – Lauren received her Bachelor of Science degree in Mechanical Engineering from Florida International University (FIU) in 2022 and has 3 years of experience as an environmental engineer. After working for a year at WSP USA as a water resource engineer, Lauren joined as a full-time engineer at HAI. Her relevant experience includes Everglades surface water and microbiological sampling as a 3-year senior laboratory technician at the FIU Rehage Lab for Coastal Fish Ecology & Fisheries, shoreline and canal surface water sampling as an intern for Miami Waterkeeper, and groundwater sampling for the STOPR Comprehensive Water Supply Plan encompassing the St. Cloud, Tohopekaliga Water Authority, Orange County, Polk County, and formerly Reedy Creek Improvement District. In the STOPR program, Lauren was a technical lead for the SQL database management and the field lead for groundwater sampling in the District-wide Feasibility Study aiming to analyze future water consumption capacity in the region. Lauren also has experience in reporting of groundwater, surface water, and soil data in accordance with FDEP SOPs. She currently works for HAI while pursuing her professional engineering license.

Resumes and Curriculum Vitae

CURRICULUM VITAE

Name: **James Theodore Miller, P.E.**

Born: 9/25/69
Miami, Florida

Education: Miami Dade Community College
Miami, Florida
AA Building Construction Management, 1988-1990

Florida International University
Miami, Florida
BS Civil Engineering, 1990-1993

Expertise: Environmental Site Assessments and NEPA Hud Forms Part 58
Assessment and Remediation of Contaminated Groundwater
Aboveground/Underground Storage Tank Closures and
Assessments.

Certification: Professional Engineer
OSHA 40-hour training

Experience: Consulting Engineer, Miami, Fl 1993-2005
- Intercounty Laboratories, Inc. 1993-1994
- LAW Engineering, Inc. 1994-1997
- Hydrologic Associates USA, Inc. 1997-Current

Participated in:

- Conducting Phase I and Phase II Environmental Property Assessments
- Conducting Aboveground/Underground Storage Tank Closures and Assessments
- Soil and Groundwater Assessment of Contaminated sites
- Design and implementation of contaminant Remediation Systems
- Collection, computation, and analysis of groundwater data throughout the State of Florida
- Collection, computation, and analysis of drinking water data throughout the State of Florida
- Collection, computation, and analysis of soil throughout the State of Florida.

- NEPA Hud Forms

St. Elizabeth Gardens (2017) -801 NE 33rd Street – Pompano Beach, FL

St. Andrews Tower 2700 NW 99th Avenue – Coral Springs, FL

Block 45 – 152 NW 8th Street – Miami, FL

Oakmonte Village – 8201 Stirling Road – Davie, FL

Marian Towers – 17505 N. Bay Road – Sunny Isles Beach, FL

Saratoga Crossings West – 1105 W. Dania Beach Blvd. – Dania Beach, FL

Saratoga Crossings East – 705 W. Dania Beach Blvd. – Dania Beach, FL

Professional
Memberships:

Florida Association of Environmental Professional (FAEP)

CURRICULUM VITAE

Name: Leo James Swayze III

May 23, 1949
Dover, New Jersey

Education: University of Miami
Coral Gables, Florida
B. Sc. Geology and Chemistry, 1972

University of Miami
Rosenstiel School of Marine and Atmospheric Science
Department of Marine Geology, 1972

First Lieutenant U.S. Army Chemical Corps
Honorable Discharge, 1980

Expertise: Theoretical and applied ground-water hydrology
Digital modeling of ground-water flow and solute transport
Geochemistry of ground-water systems
Assessment and Remediation of contaminated groundwater
Aquifer Performance Testing
Well Drilling

Certification: Registered Professional Geologist, Florida No. 327

Experience: Hydrogeologist
United States Department of the Interior
Geological Survey, Water Resources Division,
Miami, Florida, 1974-88

Participated In

LANDSAT satellite data collection system (DCS) for South Florida including collection, maintenance and analysis.

Hydrologic analysis of the Fahkahatchee Strand, Collier County, Florida

Operational analysis of a shallow injection well for disposal of reject water at the Rock Harbor Reverse-Osmosis water treatment plant, Key Largo, Florida

Feasibility study for the Long Key Reverse-Osmosis water treatment plant, aquifer analysis.

Geophysical and chemical analysis of boreholes in the Floridian Aquifer

Overall supervision of hydrologic investigations in Dade County, Florida, 1977-78

Overall supervision of hydrologic investigations in Palm Beach County, Florida, 1979-82

Project leader, Seepage of water under levees surrounding conservation areas in Dade and Broward Counties.

Project leader, Hydraulic analysis of eastern Palm Beach County, 1985-88

Project leader, Seepage of water from the L-31 Borrow Canal, 1988

Project leader, Hydraulic Analysis of the Everglades Aquifer

**Hydrologic Associates, U.S.A., Inc.
Miami, Florida 1988-Current**

Project Supervisor For:

Flood analysis and statistical forecasting of high water levels in selected areas of South Florida

Hydrologic analysis of undeveloped agricultural areas in Palm Beach County

Technical consultation on water treatment plant operations in Cozumel, Quintana Roo, Mexico

Feasibility study for the construction of a Reverse-Osmosis plant, well field and distribution system for the Island of Cozumel, Quintana Roo, Mexico

3-Dimensional ground-water flow modeling to determine well placement for aquifer restoration, South Florida

Conducting and Supervising Phase I and Phase II Environmental Site Assessments.

Conducting and Supervising Aquifer Assessment and Remediation of contaminated sites.

Design and construction of effluent treatment systems for the farming industry

Installation of Geologic test holes to determine water supply potential, Aquaductos, San Juan, Puerto Rico.

Aquifer Testing and Consulting, Monserrate.

Aquifer Test Analysis, Deep Injection Wells, Dade County Water and Sewer Authority.

Aquifer Test Analysis, West Wellfield ASR Well, Dade County Water and Sewer Authority.

Aquifer Test Analysis, West Wellfield Biscayne Aquifer Wells, Dade County Water and Sewer.

Imokalee Well Field, Installation of Production Wells, Monitoring Wells, and Aquifer Testing.

City of Hollywood, Installation of two Shallow Injection Wells and Aquifer Testing.

Sombrero Golf Course, Installation of Production Well, Injection Well and Aquifer Testing for a Reverse Osmosis Plant, Marathon, Florida.

Installation of Test Wells and Aquifer Testing, Newton and Everglades Wellfields, Dade County Water and Sewer Authority.

St. Johns Water Management District Well Plugging Project.

Installation of Monitoring Well, Production Well and Aquifer Testing for Reverse Osmosis Plant, Palo Seco Power Plant, San Juan, Puerto Rico.

Hollywood West Wellfield, Installation of 6-24 inch Production Wells and Aquifer Testing, Hollywood, Florida.

Pompano West Wellfield, Installation of Test Well, Observation Wells and Aquifer Testing.

Newton and Everglades Wellfield, Development and Aquifer Testing of New Production Wells.

Installation of Observation Wells, Supply Wells and Aquifer Testing, City of Carolina, Puerto Rico.

Geologic Test Hole for Stormwater Wells, City of Highland Beach, Florida.

BIBLIOGRAPHY

UNITED STATES GEOLOGICAL SURVEY

Swayze, Leo J. and Bancroft, L.A., 1975, The Application of LandSat data from collection latforms and LandSat imagery for fire management, Everglades National Park, Florida:NTIS, 15p.

Swayze, Leo J., and McPherson, B.F., 1977, The effects of the Faka Union canal on water levels in the Fakahatchee Strand, Collier County, Florida. U.S. Geological Survey Water Resources Investigation, 77-61, 19 p.

Swayze, Leo J., 1979, Water-level contour map of the Biscayne Aquifer, Alexander Orr and Southwest well-field areas, Dade County, Florida, October 12, 1978: U.S. Geological Survey Open-File Report 79-1266, 1 p.

Swayze, Leo J., 1980, Altitude of water table and saline-water front, Hialeah-Miami Springs well-field area, Dade County, Florida, October 13, 1978: U.S. Geological Survey Open-File Report 80-8, 1 p.

Swayze, Leo J., 1980, Water-level contour map of the Biscayne Aquifer, Alexander Orr and Southwest well-field areas, Dade County, Florida, May 12, 1978: U.S. Geological Survey Open-File Report 80-221, 1 p.

Swayze, Leo J., 1980, Altitude of water table and saline-water front Hialeah-Miami Springs well-field area, Dade County, Florida, October 5, 1979: U.S. Geological Survey Open-File Report 80-559, 1 p.

Swayze, Leo J., 1980, Altitude of water table and saline-water front Hialeah-Miami Springs well-field area, Dade County, Florida, May 3, 1978: U.S. Geological Survey Open-File Report 80-588, 1 p.

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Swayze, Leo J., 1980, Altitude of water table and saline-water front Hialeah-Miami Springs well-field area, Biscayne aquifer, Dade County, Florida, May 12, 1980: U.S. Geological Survey Open-File Report 80-1211, 1 p.

Swayze, Leo J., 1980, Altitude of water table and chloride concentration at selected wells, Alexander Orr and Southwest well-field areas, Biscayne aquifer, Dade County, Florida, May 9, 1980: U.S. Geological Survey Open-File Report 81-54, 1 p.

Swayze, Leo J., 1981, Altitude of water table, Biscayne Aquifer, Dade County, Florida, April 1978: U.S. Geological Survey Open-File Report 81-225, 1 p.

Swayze, Leo J., 1981, Altitude of water table, Biscayne Aquifer, Dade County, Florida, October 1978: U.S. Geological Survey Open-File Report 81-327, 1 p.

Swayze, Leo J., and McGovern, M., 1981, Lithologic logs and geophysical logs from test drilling in Palm Beach County, Florida, since 1974: U.S. Geological Survey Open-File Report 81-68, 93p.

Swayze, Leo J., 1981, Annotated selected references on natural resources investigations Collier County, Florida: U.S. Geological Survey Open-File Report 81-1184, 45 p.

Swayze, Leo J., and Miller, W.L., 1983, Delineation and description of a zone of higher secondary permeability in the surficial aquifer of Eastern Palm Beach County, Florida: U.S. Geological Survey Water Resources Investigations 83-4249, 48 p.

Swayze, Leo J., 1986, Seepage beneath levee 35B from conservation area 2A: U.S. Geological Survey Water Resources Investigations 87-4280, 22 p.

Swayze, Leo J., Kane R.L., and Stewart, Mark, 1988, Hydraulic Analysis of the Surficial Aquifer, Eastern Palm Beach County, Florida: U.S. Geological Survey Water Resources Investigations, 127 p.

Labowski, J.L., Swayze, L.J., and Howie, B.B., 1988, Hydrology of the Grey Limestone Aquifer near the proposed west wellfield, Dade County, Florida: U.S. Geological Survey Water Resources Investigations, 52 p.

HYDROLOGIC ASSOCIATES U.S.A., INC.

Numerous Reports such as C.A.R.s and R.A.P.s for petroleum and chlorinated hydrocarbon contaminated sites, 1988-2005

Potential Water Supply, Mogadishu and Biadoa, Somalia, 1993

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Aquifer Characteristics, Tutu Aquifer, United States Virgin Islands, 1991-1994

Aquifer Characteristics, Floridan Aquifer, Miami Dade Water and Sewer Authority
1991-1994

U.S. GEOLOGICAL SURVEY TRAINING COURSES

10/20/75 - 10/24/75	Accelerated course in Fortran IV
01/17/77 - 01/28/77	Modeling of Ground-water Flow
05/09/77 - 05/11/77	Fresh-Water Salt-Water Relationships in Aquifers
02/25/80 - 03/07/80	Chemistry for Ground-Water Solute Transport Models
02/02/81 - 02/06/81	Analytical Methods to Determine Aquifer Properties and to Predict Aquifer Response
08/23/81 - 09/03/82	Modeling Transport of Ground-Water Solutes
01/09/84 - 01/13/84	Ground Water-Surface Water Relationships
06/04/84 - 06/15/84	Finite-Element Modeling of Ground-Water Flow
06/24/84 - 06/28/84	Parameter Estimation Techniques for Ground-Water Flow

U.S. GEOLOGICAL SURVEY WORKSHOPS

02/15/78 - 02/17/78	Achieving Your Potential, Orlando, Florida
12/15/78 - 12/16/78	Ground-Water Modeling Workshop, Miami, Florida
02/27/79 - 02/28/79	Ground-Water Modeling Workshop, Tampa, Florida
06/13/79 - 06/14/79	Report Writing, Shipley, Miami, Florida
01/13/81 - 01/15/81	SAS Statistics
10/28/81 - 10/28/81	Advanced Technical Writing, Shipley, Miami, Florida
10/18/82 - 10/21/82	3-Dimensional Modeling of Ground-Water Flow (McDonald Model), Tampa, Florida
12/10/82 - 12/11/82	Advanced Report Writing, Shipley, Miami, Florida

CONTINUING EDUCATION, UNIVERSITY OF MIAMI

01/01/73 - 05/01/73	Vectors and Matrices
01/03/77 - 05/01/77	Environmental Chemistry

01/03/80 - 05/01/80 Caribbean Geology and Geophysics

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ADDITIONAL EDUCATION

01/25/90 - 01/25/90 National Water Well Association Environmental Site Assessment, One Day Course

03/07/91 - 03/07/91 Legal Implication of Conducting Environmental Site Assessments

05/25/91 - 05/25/91 The National Institute for Storage Tank Management 2nd Annual Conference

40 Hour Hazmat Safety Course

Professional Memberships:

National Water Well Association
Miami Geological Society, Treasurer, 1982
South Florida Association of Environmental Professionals
(Board Member)

Committees:

N.W. Wellfield Technical Advisory Committee
West Wellfield Technical Advisory Committee
Munisport Dump Coalition, Technical Advisory Committee

CURRICULUM VITAE

Mr. James R. Gould is an Environmental Geologist who has over 20 years environmental consulting experience and has a thorough knowledge of environmental rules, regulations, policies, and procedures. Mr. Gould has conducted Phase I/Phase II Environmental Site Assessments, Limited Asbestos Surveys, Tank Closure Assessments, Contamination Assessments for petroleum products and other hazardous chemicals, and prepared Solid Waste Permit Applications.

PROFESSIONAL EXPERIENCE

May 2011-Present **SENIOR PROJECT GEOLOGIST**
Hydrologic Associates USA, Inc., Miami, Florida

Manage projects to assess the potential for contamination of soil, groundwater, surface water and potable water of facilities within county, state and federal environmental programs. These responsibilities include:

- Preparing and reviewing Contamination Assessment Reports, Phase I & II Environmental Site Assessment Reports, Tank Closure Assessments Reports, Contamination Assessment Plans, Site Health and Safety Plans, and Cost Proposals.
- Supervising soil penetration tests, monitoring well and recovery well installations.
- Performing field screening of potentially contaminated soil samples.
- Describing geological characteristics of subsurface.
- Collecting soil, groundwater, surface water and potable water samples for chemical analysis.

1999-May 2011 **DIRECTOR OF OPERATIONS/SENIOR PROJECT GEOLOGIST**
LandScience, Inc., North Miami, Florida

Organized and coordinated company operations and procedures in order to ensure organizational effectiveness, efficiency, and quality. These responsibilities included:

- Assigned projects and coordinated schedules.
- Recruited and selected staff.
- Orientated and trained staff.
- Supervised staff.

- Evaluated staff performance.
- Reviewed and edited environmental reports and proposals.
- Interacted with cliental and government agencies.
- Prepared environmental reports, environmental proposals, and Solid Waste Permit applications.

1997-98 PROJECT MANAGER

Environmental Management Group, Inc., Baltimore, Maryland

- Conducted over 80 Phase I Environmental Site Assessments with Limited Asbestos Survey projects.

1991-95 ENVIRONMENTAL GEOLOGIST/PROJECT MANAGER

Law Engineering Companies Group, Inc., Miami, Florida

- Managed projects to assess the potential contamination of soil, groundwater, surface water and potable water for facilities within county, state and federal environmental programs.
- Prepared and reviewed Contamination Assessment Reports, Phase I & II Environmental Site Assessment Reports, Tank Closure Assessments Reports, Contamination Assessment Plans, Site Health and Safety Plans, and Cost Proposals.
- Supervised soil penetration tests, monitoring well and recovery well installations.
- Supervised aquifer and vadose zone characterization tests, i.e., pump tests, slug tests, & percolation tests.
- Performed field screening of potentially contaminated soil samples.
- Described geological characteristics of subsurface.
- Collected soil, groundwater, surface water and potable water samples for chemical analysis.
- Performed soil compaction tests, concrete integrity tests, proctor testing and sieve analysis.

1989-91 PROJECT MANAGER

SSA, Environmental, Inc., Miami, Florida

- Managed projects to assess the potential contamination of soil, groundwater, surface water and potable water for facilities within county, state and federal environmental programs.
- Prepared and reviewed Contamination Assessment Reports, Phase I & II Environmental Site Assessment Reports, Tank Closure Assessments Reports, Contamination Assessment Plans, Site Health and Safety Plans, and Cost Proposals.
- Supervised soil penetration tests, monitoring well and recovery well installations.
- Supervised aquifer and vadose zone characterization tests, i.e., pump tests, slug tests, & percolation tests.
- Collected soil, groundwater, surface water and potable water samples for chemical analysis.

EDUCATION

MS Degree, Coastal Zone Management, 1989

Nova University, Davie, Florida

BS Degree, Geology, 1986

East Carolina University, Greenville, North Carolina

REGISTRATIONS, ACCREDITATIONS, AND CERTIFICATIONS

- South Florida Association of Environmental Professionals
- AHERA Building Inspectors Certificate
- OSHA 40- Hour Health and Safety for Hazardous Waste Operations Training

PHILLIP X. de AMEZOLA, REM, CIEC, MRSA

**12555 SW 69th Avenue
Pinecrest, Florida 33156
561-838-3260
Phil@remapsllc.com**

Objective To join a collaborative team effort and enhance/supplement overall growth and development relative to a wide range of environmental consulting services.

Expertise Environmental Consulting: Management of staff to create synergy and maximize potential for growth, development, technical prowess, and increased revenue in a wide range of environmental expertise. I have a large network of long term clients whom have relied upon my understanding of this industry for over 18 years. Contamination Assessments, Site Investigations, Remedial/Feasibility Studies, Remedial Design/Remedial Action Implementation, Hazardous Materials/Waste Sites, Indoor Air Quality including LEED Clearance Testing, and so much more.

Academic Background Rollins College, Orlando, Florida, B.A., Environmental Sciences, 1991

Registrations Registered Environmental Manager, REM #08849

Licenses Licensed Mold Assessor, State of Florida Department of Business and Professional Regulation, MRSA # 383

Certifications Hazardous Materials Site Supervisor Training, 2002
OSHA 8-Hour Refresher Training, Annual
American Red Cross Standard First Aid and Adult CPR, 2008
Registered Environmental Manager, National Registry of Environmental Professionals #08849
Certified Indoor Environmental Consultant, American Indoor Air Quality Council #0609006
Stormwater Management Inspector, Florida Department of Environmental Protection #7766

Employment History

Hydrologic Associate USA, Inc. August 2014 to Present: Project Manager and technical report writing supervisor for a wide range of environmental consulting industry projects. Duties include but are not limited to management of staff, client and regulatory interaction and closure for projects relating to indoor air-quality, soil and groundwater site assessment, remediation, long-term monitoring, and much more.

Universal Engineering Sciences, Inc. 2005 to June 2013: Environmental Department Manager, West Palm Beach Branch. Responsible for the management of staff and projects from Key West to Port St. Lucie from the West Palm Beach Office. Duties included the management of existing clients and the growth and development of additional revenue streams, profit and loss management including additional services outside conventional environmental consulting. In addition, acted as Principal Environmental Services for Big Box clients including Lowe's, Wal-Mart and Home Depot. Responsible for the mentoring of all environmental staff members to ensure that the work met specific clients high level of standard to minimize risk and liability prior to and subsequent of real estate transactions. Environmental concerns observed during construction or post occupancy was addressed on an as needed basis. Performed LEEDS indoor air quality testing and acted as the lead indoor air quality where applicable. Acted

as the main licensed Mold Assessor accredited through the Florida Department of Business and Professional Regulation (FDBPR). All environmental documents were edited by Mr. de Amezola prior to submittal to due diligence teams which consisted of a group including client civil engineering firms, client project managers, environmental counsel, and others. Required close personal relationships with a team of professionals to meet the end goal of limiting environmental liability and risk management while keeping cost effective actions in mind. Became highly involved when a property of environmental concern was being purchased. Due diligence, remediation and closure of contaminated properties was performed at accelerated timelines to meet construction schedules. Good working relationships with the local regulatory agencies was paramount to expedite closure requirements for contaminated properties. Long term soil and/or groundwater monitoring required in many cases to meet the regulatory agency requirements. Performing this work within constrained budgets was an asset to the clients.

GeoSynec Consultants 2000-2005: Project Manager. Responsible for a number of due diligence projects as well as acting lead indoor air quality professional and health and safety manager for local branch in Boca Raton, Florida. Responsible for the design and construction of dry cleaning solvent remediation systems for the Florida Department of Environmental Protection (FDEP). Constructed and performed Operation and Maintenance of remedial systems associated with dry cleaning solvent contamination. Responsibilities included the maintenance of telemetry and trouble shooting subsequent to the installation and implementation of long term monitoring to ensure the systems were effective. Responsible for at least 10 systems that successfully treated soil and groundwater contamination and received a No Further Action Status or Site Rehabilitation Completion Order.

Managed an as needed contract with the United States Post Office which included the maintenance of and removal and upgrades of a number of fleet maintenance facilities across Florida. The contract required a variety of environmental expertise from indoor air quality, asbestos abatement and maintenance, and fueling system upgrades including removal and installation of new systems, both above ground and underground gasoline, diesel, new and used oil.

IT Group aka Shaw Infrastructure 1993-2000: Senior Hydro-Geologist. Responsible for the removal and long term monitoring of underground and aboveground storage tanks, oil water separators, and innovative remedial technologies performed for the Air Force Center for Environmental Excellence. Activities included the oversight and documentation of the removal and closure of a variety of tank systems including over a 2 mile fuel hydrant pipeline for the Homestead Air Reserve Base. Responsibilities included the management and interaction with clients on a number of projects for the Miami Dade Aviation Department at Miami International Airport, the Florida Department of Transportation, Petroleum Pre-Approval Program, and the Dry-Cleaning Program for the FDEP. The corporate environment was primarily geared for large scale projects outside of the private sector.

Service Station Aid 1991-1993: Staff Scientist. Conducted soil and groundwater sampling and documentation of underground storage tank (UST) removal as part of the state funded Early Detection Incentive (EDI) Program. Because the company was a service station supplier of underground tanks and pumps, there was a component of understanding the installation of new fueling systems as well as the upgrades required to meet regulatory compliance.

Experience

Mr. de Amezola has over 20 years experience in the environmental consulting industry. Over the past twenty years Mr. de Amezola has developed and increased scope of services and overall revenue at Universal Engineering Sciences, Inc. from approximately

\$10K/month to anywhere from \$40K to \$150K Net Profit/month for the West Palm Beach Branch alone. In addition, Mr. de Amezola was responsible for the maintenance of larger corporate firms, and managed all environmental services provided to this corporate sector of clients including but not limited to Wal-Mart, Lowes, and McDonalds. The oversight and continuity required to manage such clients was one of Mr. de Amezola's many responsibilities required to service these types of clients. Revenue streams for this work increased his overall value to well over \$500K per annum for the West Palm Beach Branch alone. His primary job was to manage a small group of environmental professionals and encourage performance beyond capacity to meet revenue goals, client deadlines and technical excellence. Although he was responsible for the environmental group based in West Palm Beach, Florida, he was the last senior environmental manager throughout the firm and was consulted by the entire firm comprised of 18 different offices throughout Florida, and one in Georgia. In addition, Mr. de Amezola now has a good understanding of the construction materials testing industry including but not limited to, soil suitability characterization, special inspections, and geotechnical engineering. His specialized areas include indoor air quality, contamination assessments, site investigations, remedial/feasibility studies, real estate transactional due diligence, remedial design/remedial action implementation at hazardous materials/waste sites including long term operation and maintenance. Mr. de Amezola has conducted and audited field sampling efforts in accordance with the FDEP SOPs and has experience in soil, air, sediment, surface water and groundwater sampling including a variety of innovative environmental drilling techniques. Mr. de Amezola has been involved with a variety of soil and groundwater remedial on-site treatment systems including land farming, soil vapor extraction, soil bioventing, air sparging (in-situ and open hole) and air stripping. Mr. de Amezola's background also includes due diligence and NEPA compliance. As the Principal of Environmental Services, Mr. de Amezola's responsibilities included performance oversight and technical management of site assessments and investigations including but limited to due diligence, contamination assessment, remedial activities, overall risk management, and much more. He is experienced at cost evaluation versus appropriate remedial technologies. As such, valued consulting is provided to clients who return for that level of excellence.

Mr. de Amezola was responsible for the generation and oversight of approximately \$250,000.00 to \$500,000.00 of revenue based upon his contacts and industry knowledge for the West Palm Beach Branch alone. The revenue generated as part of his role as a corporate liason brings the total to well over \$1,000,000.00 per annum. It is the interpersonal relationships Mr. de Amezola has developed over the years with corporate attorneys, clients as well as the private and public sector in the South Florida Region that makes him such an asset to any firm.

Indoor Air Quality Assessments

Mr. de Amezola was the lead Program Manager for Universal's Indoor Air Quality Program. Mr. de Amezola was responsible for: technical review and project guidance for Universal's IAQ staff, report review, and IAQ Program development. Mr. de Amezola has performed air quality assessments and clearance testing for private clients, insurance agencies, and government entities including LEEDS clearance testing. Mr. de Amezola has performed IAQ assessments in residential dwellings, commercial facilities, and industrial facilities.

Although the primary goal of an IAQ Assessment is to determine the potential cause and extent of mold proliferation and to quantify the genera present, his understanding of building dynamics and mold allows him to provide valued consulting for a variety of potential problems. Diagnosis of sick buildings is a combination of art and science. In addition to assessment for biological air contaminants, Mr. de Amezola also has the capability to assess for chemical air contaminants, particulate air contaminants, and assess the standard environmental parameters of a given facilities ambient air. Mr. de Amezola

also provides remediation and clearance testing management services after the completion of an IAQ remediation project to ensure the client is completely satisfied. Mr. de Amezola carried the license through the State of Florida Department of Business and Professional Regulation for Universal's team of IAQ professionals.

**Select
Project
Experience**

Solid Waste Construction Projects

- **NPL Superfund Site, Wingate Road Municipal Incinerator and Landfill Site, Ft. Lauderdale, Florida.** Performed as the Construction Quality Assurance (CQA) Monitor and Project Scientist during the \$6 million closure of a 60-acre municipal incinerator and ash landfill. The contaminants of concern at the site included dioxin, PCB's, and heavy metals. The work included large scale building demolition, asbestos abatement, highly contaminated ash sampling and disposal, deep monitoring well abandonment, lake bottom sediment removal, geophysical surveys, soil and ash excavation, on-site soil borrow investigation/mining, landfill capping, and long term groundwater monitoring. The landfill cap included the installation of 1,688,462 ft² (156,220 m²) 40-mil (1-mm) thick Low Linear Density Polyethylene (LLDPE) geomembrane, 206,227 ft² (19,166 m²) geocomposite drainage layer, and approximately 4,000 linear feet of oblong corrugated gas vent pipe with polyethylene gas vent stations.

Environmental Remediation Projects

- **United States Post Office (USPS), Port St. Lucie Main Post Office, Port St. Lucie, St. Lucie County, Florida.** Responsible for conducting comprehensive technical writing and closure documentation at former underground storage tank, including source removal activities. Managed field efforts and documentation of quarterly sampling events.
- **USPS, Fort Lauderdale VMF, Fort Lauderdale, Florida.** Responsible for overseeing the removal of one 6,000-gallon double-walled unleaded gasoline UST, two 6,000-gallon double-walled diesel USTs, one 1,000-gallon new oil UST, one 500-gallon used oil UST, and all associated piping, electrical wiring, and conduit. GeoSyntec was responsible for preparing project plans and specifications, construction management and oversight, soil and groundwater sampling, and submittal of TCAR to FDEP. Performed source removal activities adjacent to Dispenser Island and obtained Site Rehabilitation Completion Order for the site.
- **Opa-Locka Airport, New Radar Tower Construction, Opa-Locka, Miami-Dade County, Florida.** Mr. de Amezola served as the Project Manager for a dewatering remediation system. Unforeseen petroleum impacts to the soil were observed during the excavation of soil and associated dewatering activities which required the design, installation, and management of a remedial system to address the dewatering system groundwater effluent and discharge. Mr. de Amezola designed and managed the system including the laboratory analytical sampling of groundwater before, during and after the dewatering remedial train. This project included a component of negotiations with the local regulatory agency (DERM) and the Miami Dade County Aviation Department. The project can be characterized by the successful treatment of over 2,000,000 gallons of groundwater during the course of the project. Mr. de Amezola's ability to quickly and effectively address specific client needs is indicative of his overall experience in the South Florida area. Due to the time sensitive nature of this project and budgetary constraints as this issue was not anticipated, the demands of the project required a major commitment from Mr. de Amezola. The client was extremely thankful that Mr. de Amezola could negotiate the approval of the dewatering remediation system

and associated discharge by DERM within the timeframe required. As this was an unplanned construction activity, there was an issue with budgetary constraints. Mr. de Amezola addressed this issue with a cost effective solution in order to keep the construction of the new radar tower within the schedule and budget.

- **USPS, Little River Station, Miami, Dade County, Florida.** Managed and implemented Arsenic Background Study and Restrictive Covenants.
- **Homestead Air Reserve Station.** Prepared comprehensive technical closure documentation for 185 USTs, 53 ASTs, 35 oil/water separators and fuel hydrant system. Managed various aspects of long term groundwater monitoring and installation, operation & maintenance of soil vapor extraction, air sparging, bioventing, and landfarming remedial systems.
- **Florida Department of Environmental Protection Dry Cleaner and Petroleum Pre-Approval Programs.** Managed Pre-Approval site assessments at various petroleum contaminated sites in the south and central Florida areas. Managed and performed on-site contamination assessment/delineation, remedial system construction oversight and operation and maintenance activities at various Dry Cleaning facilities in Florida.

Due Diligence

- **Cingular Wireless, LLC - Conducted ASTM Phase I and II site assessments.** Performed NEPA compliance evaluations and due diligence investigation focusing on threatened and endangered species, wetlands, historic structures, flood plains and Native American religious sites. Involved in various aspects of local and state government compliance.
- **Financial Institutions**
As part of the recent real estate market decline, Universal has performed a number of Phase I ESA's in accordance with the All Appropriate Inquiry (AAI) and ASTM 1527-05 on foreclosed properties for a number of lending institutions ranging from gasoline stations to multi-tenant residential high rise buildings. Specific due diligence protocols for Small Business Authority (SBA), HUD Housing, and other clients which require out of scope and/or additional assessment such as hazardous building materials investigation to include assessment and evaluation of disposal of ballasts, air conditioning, mercury switches, etc.
- **Wal-Mart**
Mr. de Amezola served as the Corporate liaison for all environmental work performed for Wal-Mart. In order to maintain continuity in reporting for such a large client, Mr. de Amezola acted as the single point of contact for any and all environmental related issues associated with Wal-Mart projects. References can be provided upon request. His duties include peer review and assistance with the development of protocols developed on a site specific basis. Due diligence includes a wide variety of services include Phase I ESA's in accordance with Wal-Mart specific protocols as well as ASTM 1527-05, stormwater screening, opinions of probable costs, site assessments, and remediation. Additional duties include the maintenance and relationships with regulatory entities, legal counsel, and local municipalities required to develop a retail entity such as the above referenced.

Professional Affiliations

National Registry of Environmental Professionals
South Florida Association of Environmental Professionals
Indoor Air Quality Association

References

Available upon request. Dependent upon specific sector, Mr. de Amezola would like to provide the most appropriate references based upon either private or public sector.

Noah Miller

nmiller2990@gmail.com | (305) 873-4930 | 14511 SW 122 Place, Miami, FL 33186

Experience

Project Engineer January 2020 – Present

Hydrologic Associates | Miami, FL

- Assess the potential for contamination of soil, groundwater, surface water and potable water of facilities within county, state and federal environmental programs.
- Preparing and reviewing Contamination Assessment Reports, Phase I & II Environmental Site Assessment Reports, Tank Closure Assessments Reports, Contamination Assessment Plans, Site Health and Safety Plans, and Cost Proposals.
- Supervising soil penetration tests, monitoring well and recovery well installations.
- Performing field screening of potentially contaminated soil samples.
- Describing geological characteristics of subsurface.
- Collecting soil, groundwater, surface water and potable water samples for chemical analysis.

Mechanical Engineering Intern May 2019 – August 2019

P2S Inc. | Long Beach, CA

- Designed HVAC systems for higher education institutions. Systems included ductwork, returns, diffusers, thermostats, variable air volume boxes, and water piping
- Created point clouds from 360-degree pictures in Autodesk ReCap, imported the point clouds into Revit and used them to create a 3D models of central cooling plants
- Researched and presented on net-zero energy building technologies and designs in monthly meetings

Environmental Engineering Intern July 2018 – August 2018

Hydrologic Associates | Miami, FL

- Trained two employees on the use of AutoCAD for the purposes of drafting engineering drawings
- Generated data visualizations and analysis for environmental engineering reports
- Drafted engineering drawings, technical plans for hydrology jobs, and structural blueprints

Senior Teaching Assistant; COP2271 – MATLAB May 2017 – December 2019

University of Florida | Gainesville, FL

- Reviewed course material, discussing MATLAB techniques, during 8 weekly office hours with over 400 students semesterly
- Created rubrics for weekly homework assignments and exams to communicate expectations to students and maintain consistency between myself and ten graders
- Mentored new teaching assistants on their responsibilities and methodology

Undergraduate Researcher January 2017 - April 2017

University of Florida | Gainesville, FL

- Learned the underlying components and information used to create SVG files
- Programmed an XY plotting robot to read and reproduce hand drawings
- Developed a curriculum for undergraduate engineers based on the research

Education

University of Florida

• B.S. Mechanical Engineering, 2019

• Certification in Engineering Leadership, 2019

Software

• Certified: SolidWorks

• Proficient: MATLAB, AutoCAD, Photoshop

• Certification in Engineering Leadership, 2019

Roger Simon, PG, LEP

Miami, Florida

roger@haimiami.com

rgrsimon@gmail.com

305-766-4409

Summary

Professional Geologist, Licensed Environmental Professional, environmental scientist, consultant and project manager with 18+ years of experience in environmental assessment, contamination delineation, permitting of contaminated sites for development, environmental cleanup, cost projections, regulatory compliance and closure, environmental health and safety, and environmental due diligence as an expert in ASTM-1527-21 for assessment of soil, soil vapor, groundwater, surface water, wastewater, and indoor air quality (mold, lead-based paint, asbestos, methane, etc.) in Florida, Georgia, Mexico, and the Caribbean.

Education

Bachelor of Geophysical Science, Department of the Geophysical Sciences, University of Chicago

Experience

Hydrologic Associates USA, Inc., Miami, Florida

3/2024 to Present

- Senior Project Manager responsible for designing environmental investigations for land development projects, commercial and industrial facilities under active regulatory enforcement, and compliance investigations for solid waste facility permitting in Miami-Dade County
- Responsible for providing technical expertise companywide, including preparing technical documents for expert witness cases, directing field operations, and optimizing field and office procedures to enhance operations, report preparation, and invoicing
- Responsible for client acquisition and business development, marketing environmental services, and client point of contact
- Prepared seven figure bid for environmental services for new Concourse K construction at Miami International Airport

Langan Engineering and Environmental Services, Inc., Miami, Florida

10/2011 to 2/2024

- Project Manager responsible for client acquisition and business development, client point of contact, proposal preparation, budgeting, monthly invoicing, weekly staffing, report preparation, regulatory interaction, recruiting, and all facets of operating a profit center
- Managed projects with over \$1MM fee billings annually, supervised team of five staff geologists and scientists
- Designed and implemented investigations for environmental assessment and remediation including: cost projections for due diligence and regulatory compliance, storage tank closure assessment reports (TCARs), Phase I and II Environmental Site Assessments, site investigation reports (SIRs), contamination assessment plans (CAPs), development of conceptual site models, hydrogeological studies for stormwater injection wells, reasonable assurance investigations and reports, NPDES compliance testing, TRI and Tier II reporting, FDEP, Broward County EPD, and Miami-Dade County DERM violations and permit compliance including natural and anthropogenic background studies
- Assisted with Stormwater pollution prevention plans (SWPPPs) for NPDES compliance, spill prevention, control and countermeasure (SPCCs), remedial action plans, (RAPs), National Environmental Policy Act (NEPA) studies, wetlands and endangered species reviews
- Expert in data analysis including advanced statistical and graphical methods (AutoCAD, EPA ProUCL)

ES Consultants, Inc., Miami, Florida

5/2009 to 8/2011

- Project Manager and Environmental Scientist; conducted scientific investigations for environmental assessment and remediation
- Conducted field investigations in accordance with FDEP SOPs; conducted field work for all projects as sole field staff
- Managed and maintained environmental equipment, vehicle, supplies, and sample inventory
- Performed assessment and cleanup for petroleum storage systems, roadway construction projects, soil characterization, new construction
- Performed compliance monitoring for landfills and lakefills
- Completed assessment and remediation for arsenic at various FP&L sites in Miami-Dade County
- Soil characterization and soil management plan at the Port of Miami Tunnel Project
- Under DERM contract, conducted site assessment for Miami-Dade County properties for the GSA, ISD, MDAD (MIA, OPF, TMB), PROS, PHCD, and MDC Transportation and PW departments

CRB Geological and Environmental Services, Inc., Miami, Florida

9/2007 to 11/2008

- Environmental Scientist, Environmental Consultant, FL Asbestos Inspector
- Phase I/Phase II site assessments for groundwater, soil, and air quality analysis and monitoring
- Operation and maintenance of remedial systems and sub-surface contamination assessment
- Conducted all field work for all projects as sole field staff, and prepared technical reports for clients and regulatory agencies

Select Regulatory Compliance and Remediation Projects:

Doral View Residential Community, Miami, FL – Site assessment for arsenic during redevelopment of the former Fontainebleau golf course
Former Eastern Airlines Remediation System Closure, MIA, FL – Completed investigations for closure and remedial system decommissioning
Former Republic Metals Refining, Opa Locka, FL – Industrial release assessment and compliance groundwater monitoring
FIU Doral Soil Screening, Doral, FL – SIR, CAP implementation, soil reuse testing, groundwater and surface water monitoring
Former Harold's Auto Wynwood, Miami, FL – Site assessment and remedial action plan for petroleum plume
Former Rooney Palace, Miami Beach, Florida – Chlorinated solvent assessment and remediation for mixed-use development
Ft. Lauderdale-Hollywood International Airport, Hollywood, FL - Petroleum remediation; open-pit air sparging prior to expansion of Terminal 4
Indian Creek Country Club, Village of Indian Creek, FL – Compliance testing, site investigation for golf course permitting and construction
Kare Kemical Facility Opa Locka Airport, Opa Locka, FL – Contamination assessment for pesticides and metals
Lopefra Lakefill, Medley, FL – Characterized over 800,000 cy of imported fill for DERM approval of lakefilling Miami International Airport, Miami, FL – Eastern Airlines Industrial Waste Pipeline Closure, Tank Farm Dike 2 and 3 Closure,
MSC Cruise Terminal Berth 8 and 9, Miami, FL– Soil Management Plan approval, characterized over 1MM cy of excavation and dredging spoils
Sole Mia (former Biscayne Landings) North Miami, FL - Long Term Care landfill permit groundwater and surface water monitoring testing
Strata at Wynwood, (Wynwood Square), Miami, Florida – Site assessment, remediation, and construction permitting for mixed-use development
Mandarin Hotel Redevelopment, Brickell Key, FL - Site assessment and construction permitting for mixed-use development

Select Due Diligence Projects:

Baha Mar Casino and Resort, Nassau, Bahamas
Calder Racecourse and Casino, Miami, Florida
Citizen M Hotel Brickell, Miami, Florida
Gulfstream Park Casino, Hallandale Beach, Florida
The Heritage at Boca Raton, Boca Raton, Florida
Mercedes-Benz Stadium, Atlanta, Georgia
US Consulate Offices, Matamoros and Nuevo Laredo, Mexico
Venetian Parc Residential Community, Miami, Florida

Select Development Projects:

AVE at Opa-Locka Airport, Opa-Locka, Florida
1000 Museum Tower, Miami, Florida
Aventura Mall Expansion, Aventura, Florida
Homestead Intermodal Station, Homestead, Florida
Link at Douglas Residential Towers and Underline, Miami, Florida
Marathon Airport Apron Expansion, Marathon, Florida
MiLine Development (Phase One), Miami, Florida
TRX Warehouse, Doral, Florida

Certifications

Professional Geologist License No, PG3247
Licensed Environmental Professional, INSTEP EP394
40-Hour HAZWOPER
NIOSH 582 Microscopy
NAUI Scuba Diver

Languages

Native English
Fluent Spanish
Fluent Portuguese

Select Client List

13th Floor Investments
Akerman LLP
Aria Development Group
Asahi Refining of Florida
Atlantic Pacific Companies
Baptist Health of South Florida
Belmont Villages
Bilzin Sumberg
BH3 Management
Bridge Industrial Development
CBRE
CIM Group
City of Hallandale Beach
City of Homestead
City of Miami
The Congress Group
Compeling Solutions, Inc.
Cymbal Development
Fincantieri Infrastructure, on behalf of MSC Cruise Lines
Florida International University
Goldstein Environmental Law Firm
Foundry Commercial
Greenberg Traurig, P.A.
Indian Creek Country Club

Inspirata Management
Kaufmann Lynn Construction
Kushner Development
Landmark Companies
Link Construction
Lincoln Property Company
Lopefra Corporation
Lowell Dunn Companies
Mana Properties
McDowell Housing Partners
McNally Environmental Law
More Development Company
Namdar Group
Nextera, Florida Power & Light
PGIM
Plaza Equity Partners
Ram Realty
The Related Group
Resia (former AHS Residential)
Sagard Real Estate
Sharpe Project Development
Trademark Metals Recycling
Urban X group
Witkoff Group
ZOM Development

Lauren N. Padron

Environmental Engineer offering technical problem-solving, data processing, analysis, CAD designing, and environmental services. Background of 5 years in Everglades ecology: land & marine fieldwork, ArcGIS quantitative & qualitative analysis, chemical analysis, data processing, citizen-science workshop and outreach. Programming: Python, MatLab, C++, R Studio.

EDUCATION

Aug. 2019 – Dec. 2022

[3.20 GPA] (3.7 years)

Aug. 2015 – Dec. 2018

[3.47 GPA] (3.3 years)

Florida International University – Miami, FL

Mechanical Engineering B.S.

Fluidics Route – thermodynamics, fluid mechanics and mechatronics.

Philosophy B.A.

Science Route – ecology, biology, geology, and chemistry.

WORK EXPERIENCE

Sept. 2023 – Present

HAI USA, Inc., Cutler Bay, FL

Environmental Engineer - South Florida environmental compliance reporting.

Oct. 2022 – Sept. 2023

(1 year)

WSP USA, Miami, FL

Water Resources Engineer – *Process Improvement, Autodesk Civil 3D, Utility Conveyance Design, Project Fulfillment, Client Outreach, Report Drafting.*

Highlighted Projects:

- **STOPR Master Consulting Project:** water level & quality environmental monitoring, restructured SOPs, and SQL data processing for reporting.
- **CWRP – Continuing Water Resources Program:** Polk county compliance.
- **Toho Polk County:** data QAQC, conveyance profiles, specifications.

Jan. 2019 – Aug. 2022

(4 years)

Coastal Fisheries Research Lab, P.I.: Dr. Jennifer Rehage, Miami, FL

Research Technician – Everglades ecology field and technical work; with water, sediment, & food web sampling, telemetry, isotope sampling, technical writing, citizen- science presentations, and data pre-processing.

Oct. 2021 – Dec. 2021

(3 months)

Miami Waterkeeper, Advisor: Dr. Elizabeth Kelly, Coral Gables, FL

Water Sampling Volunteer – Collected and prepared Miami-Dade & Broward County water samples for weekly quality checks and pathogen identification using standard laboratory procedures.

PROJECTS

Jan. 2022 – Dec. 2022

Hours: 20-30/week

(1 year)

PIXEL Emergent Contaminant Water Filter Pilot – CREST NSF funded project

Proposed, obtained funding, and led; design, construction, and lab testing of pilot water treatment for 5 contaminants most often found in S.FL waters.

Jul. 2022 – Sep. 2022

Hours: 10-15/week

(5 months)

Mechanical Microfluidics Lab, FIU MME, (P.I.: Dr. Boymelgreen)

Research Student – Literary review of nanoplastic sampling detection tech., natural aggregation, and biological effects on marine fauna and ecology.

May 2022 – Aug. 2022

H: 35/w.

(4 months)

NSF Coastal Ecosystem REU Fellowship, FIU Branch [Under construction]

Research Fellow – hotspot risk assessment GIS Story Map “South Florida Risk Assessment and scaled state-of-the-art solutions to wastewater disposal.” All MD disposal types and decentralized, sustainable engineering solutions.

May 2020 – Dec. 2020

H: 30/w.

(8 months)

Ronald E. McNair Post-Baccalaureate Achievement Program, FIU Branch

Research Student or Scholar – “WWT Disposal Type Sources of Contaminants in South Florida” ArcGIS quantitative, proximity analysis and mapping.

SKILLS

 **Microsoft Office** – Advanced.  **Excel** – Proficient.  **AutoDesk** – Proficient.  **ArcGIS** – Proficient.  **MATLab** – Competent.  **Python** – Competent.  **C++** – Intermediate.  **R** – Novice.  **SQL** – Novice.  **Spanish/English** – Native fluency & translation.  **Science Communication.**  **South Florida Ecology.**  Research data handling, lab and remote Everglades land & marine field work.

Education and Professional Registrations

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LICENSEE DETAILS

9:25:44 AM 9/17/2025

Licensee Information

Name:	MILLER, JAMES T. (Primary Name)
Main Address:	10406 SW 186TH TERRACE MIAMI Florida 33157
County:	DADE
License Location:	10406 SW 186 10406 SW 186TH TERRACE MIAMI FL 33157
County:	DADE

License Information

License Type:	Professional Engineer
Rank:	Prof Engineer
License Number:	53873
Status:	Current,Active
Licensure Date:	02/12/1999
Expires:	02/28/2027

Special Qualifications

Qualification Effective

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Alternate Names

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Ron DeSantis, Governor

Melanie S. Griffin, Secretary



STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

MOLD-RELATED SERVICES LICENSING PROGRAM

THE MOLD ASSESSOR HEREIN IS CERTIFIED UNDER THE
PROVISIONS OF CHAPTER 468, FLORIDA STATUTES

MILLER, JAMES T

10406 SW 186TH TERRACE
MIAMI FL 33157

LICENSE NUMBER: MRSA2031

EXPIRATION DATE: JULY 31, 2026

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ISSUED: 06/10/2024

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Melanie S. Griffin, Secretary



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FLORIDA BOARD OF
PROFESSIONAL ENGINEERS

STATE OF FLORIDA
DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION

BOARD OF PROFESSIONAL ENGINEERS

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES

MILLER, NOAH GILBERT

10406 SW 186 TERRACE
MIAMI FL 33157

LICENSE NUMBER: PE99375

EXPIRATION DATE: FEBRUARY 28, 2027

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BOARD OF PROFESSIONAL GEOLOGISTS

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PROVISIONS OF CHAPTER 492, FLORIDA STATUTES

SWAYZE, LEO JAMES

HYDROLOGIC ASSOCIATES USA INC
10406 SW 186TH TERRACE
MIAMI FL 33157

LICENSE NUMBER: PG327

EXPIRATION DATE: JULY 31, 2026

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ISSUED: 07/12/2024

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PROVISIONS OF CHAPTER 492, FLORIDA STATUTES

SIMON, ROGER

468 DE LEON DRIVE
MIAMI FL 33166

LICENSE NUMBER: PG3247

EXPIRATION DATE: JULY 31, 2026

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Certificate of Completion

This certifies that

Phillip De Amezola

has successfully completed

8 Hour HAZWOPER Refresher Training

Refresher certification does NOT necessarily indicate initial 24 or 40 Hour HAZWOPER certification

In Accordance w/Federal OSHA Regulation 29 CFR 1910.120(e) & (p)

And all State OSHA/EPA Regulations as well including 29 CFR 1926.65 for Construction.

This course (Version 2) is approved for 8 Contact Hours (0.8 CEUs) of continuing education per the California Department of Public Health for Registered Environmental Health Specialist (REHS) (Accreditation # 044).

Safety Unlimited, Inc., Provider #5660170-2, is accredited by the International Association for Continuing Education and Training (IACET) and is accredited to issue the IACET CEU. As an IACET Accredited Provider, Safety Unlimited, Inc. offers CEUs for its programs that qualify under the ANSI/IACET Standard. Safety Unlimited, Inc. is authorized by IACET to offer 0.8 CEUs for this program.

Julius P. Griggs

Julius P. Griggs
Instructor #892

2303035455201

Certificate Number

3/3/2023

Issue Date



UNLIMITED, Inc.
OSHA Compliant Safety Training Since 1993

2139 Tapo St., Suite 228 Simi Valley, CA 93063
(855) 784-2677 or 805 306-8027
<https://www.safetyunlimited.com>

Scan this code or visit [safetyunlimited.com/v](https://www.safetyunlimited.com/v) to verify certificate.

Proof of initial certification and subsequent refresher training is NOT required to take refresher training

Certificate of Completion

This certifies that

James T. Miller

has successfully completed

8 Hour HAZWOPER Refresher Training

Refresher certification does NOT necessarily indicate initial 24 or 40 Hour HAZWOPER certification

In Accordance w/Federal OSHA Regulation 29 CFR 1910.120(e) & (p)

And all State OSHA/EPA Regulations as well including 29 CFR 1926.65 for Construction.

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Julius P. Griggs

Julius P. Griggs
Instructor #892

2303045455199

Certificate Number

3/4/2023

Issue Date



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UNLIMITED, Inc.

OSHA Compliant Safety Training Since 1993

2139 Tapo St., Suite 228 Simi Valley, CA 93063

(855) 784-2677 or 805 306-8027

<https://www.safetyunlimited.com>

Proof of initial certification and subsequent refresher training is NOT required to take refresher training

State of Florida

Department of State

I certify from the records of this office that HYDROLOGIC ASSOCIATES U.S.A., INC. is a corporation organized under the laws of the State of Florida, filed on July 5, 1988.

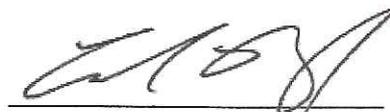
The document number of this corporation is K28029.

I further certify that said corporation has paid all fees due this office through December 31, 2023, that its most recent annual report/uniform business report was filed on March 8, 2023, and that its status is active.

I further certify that said corporation has not filed Articles of Dissolution.

*Given under my hand and the
Great Seal of the State of Florida
at Tallahassee, the Capital, this
the Eighth day of March, 2023*




Secretary of State

Tracking Number: 8486200041CC

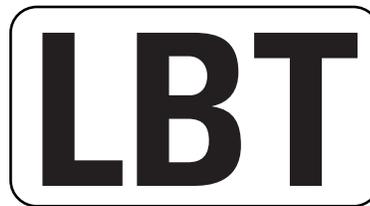
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Local Business Tax Receipt

Miami-Dade County, State of Florida

-THIS IS NOT A BILL - DO NOT PAY



6929617

RECEIPT NO.

RENEWAL

7205446

BUSINESS NAME/LOCATION
HYDROLOGIC ASSOCIATES

USA INC

10406 SW 186TH TER

CUTLER BAY, FL 33157-6723



EXPIRES
SEPTEMBER 30, 2025

Must be displayed at place of business

Pursuant to County Code

Chapter 8A - Art. 9 & 10

OWNER

HYDROLOGIC ASSOCIATES USA INC

SEC. TYPE OF BUSINESS

196

SPEC MECHANICAL

CONTRACTOR

**PAYMENT RECEIVED
BY TAX COLLECTOR**

75.00 07/15/2024

CHECK21-24-026137

Worker(s)

10

PCC050784

This Local Business Tax Receipt only confirms payment of the Local Business Tax. The Receipt is not a license, permit, or a certification of the holder's qualifications, to do business. Holder must comply with any governmental or nongovernmental regulatory laws and requirements which apply to the business.

The RECEIPT NO. above must be displayed on all commercial vehicles - Miami-Dade Code Sec 8a-276.

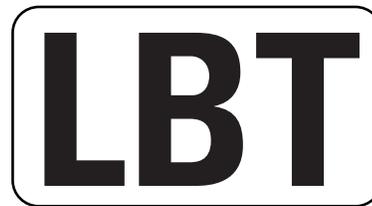
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Local Business Tax Receipt

Miami-Dade County, State of Florida

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RECEIPT NO.

RENEWAL

2079457

BUSINESS NAME/LOCATION
HYDROLOGIC ASSOCIATES

USA INC

10406 SW 186TH TER

CUTLER BAY, FL 33157-6723



EXPIRES
SEPTEMBER 30, 2025

Must be displayed at place of business

Pursuant to County Code

Chapter 8A - Art. 9 & 10

OWNER

HYDROLOGIC ASSOCIATES USA INC

SEC. TYPE OF BUSINESS

212 CONSULTANT

**PAYMENT RECEIVED
BY TAX COLLECTOR**

100.00 07/15/2024

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Quality Assurance Plan



HYDROLOGIC ASSOCIATES U.S.A., INC.

ENVIRONMENTAL CONSULTANTS • HYDROGEOLOGIC TESTING
WELL DRILLING SERVICES • PETROLEUM CONTRACTOR

QUALITY ASSURANCE PROJECT PLAN (QAPP)

For

City of Key West Water Quality Monitoring Program

September 17, 2025

A

A1. PROJECT MANAGEMENT

A1.1 Purpose and Scope

This QAPP defines how HAI will plan, collect, analyze, validate, and report water quality data for the City of Key West. The plan establishes a quality system that meets Rule 62-160, Florida Administrative Code (F.A.C.) and applicable Florida Department of Environmental Protection (FDEP) Standard Operating Procedures (SOPs).

A1.2 Roles and Responsibilities

Role	Responsibilities
Responsible Official	– Approves QAPP, provides resources, signs deliverables and manages team.
Project Manager (PM)	– Schedule, scope, budget, City coordination, issue resolution.
QA Officer	– Quality system oversight, internal audits, data validation, corrective actions.
Technical Lead	– Methods and measurement quality objectives, parameter matrix, lab coordination
Field Supervisor	– Field safety, crew deployment, calibration logs, chains of custody (COCs), equipment readiness.
Field Technicians	– Site measurements and sampling, field quality control, documentation.
Data Manager	– Electronic data deliverables (EDDs), database quality checks, dashboard publishing
Primary Laboratory: Eurofins	– NELAP-accredited analyses and laboratory quality control.
Secondary Laboratory: AEL	– NELAP-accredited surge and contingency analyses.

A1.3 Communication

There will be weekly coordination between the PM, QA Officer, Field Supervisor, and Data Manager. The City will receive notifications of any conditions that risk data quality or the program schedule. Stop-work authority is granted to all team members when conditions are unsafe or quality requirements cannot be met. Corrective actions are to be initiated by the QA Officer and tracked to closure.

A1.4 Document Control

Document control and change management are overseen by the QA Officer, who maintains versioning and distribution. Each revision states what changed, the effective date, and the approving signatures. Any modification that could affect quality objectives, methods, or reporting is initiated through a formal change request and approved before implementation.

A2. PROJECT DESIGN

A2.1 Monitoring Design Overview

Geographic Areas of Concern (GOCs) and stations are to be fully defined with the City. Station selection will include consideration of beaches, harbor approaches, canals or limited-circulation waters, and reference locations with better flushing. Monitoring will capture wet and dry seasonal conditions and co-sample turbidity against an up-current background reference. Parameters are to be finalized with the City.

A2.2 Schedule Stages

The mobilization stage will allow HAI to confirm objectives with the City, identify the stations of GOCs, and assemble the parameter matrix and quality controls needed to begin the monitoring program. The design lock will finalize station selection criteria, route sequencing, quality control frequencies, data collection forms, and laboratory logistics so field teams can operate consistently across events.

Baseline monitoring will then proceed in defined wet and dry seasonal blocks using the same methods and laboratories to maintain comparability. Mitigation studies will follow a Before–After–Control–Impact (BACI) design that compares pre- and post-conditions at

impact locations to ensure there are contemporaneous results at control locations, while all comparisons are to be made within the same season.

At regular intervals, HAI will compile validated results into dashboards and technical roll-ups for City review, highlighting data quality summaries and any recommended adjustments to the monitoring program. Detailed dates will be provided in the project schedule once confirmed with the City. Sampling is planned for Monday through Thursday, excluding federal holidays. Any sites missed due to weather, access, or equipment will be rescheduled in the earliest available window within the same seasonal block to preserve comparability and proper data analysis.

A3. DATA QUALITY OBJECTIVES AND ACCEPTANCE CRITERIA

A3.1 Quality Objectives

Quality objectives are set to ensure the collected data is fit for use and analysis. Completeness is targeted at 90 percent of planned stations and parameters in each seasonal block. Precision is evaluated with field duplicates against method-appropriate relative percent difference targets, and with laboratory precision within control limits. Accuracy is confirmed through laboratory control samples, matrix spikes, and calibration verifications. Sensitivity is maintained by using reporting limits (RLs) and method detection limits (MDLs) that meet the program targets stated in the methods list. Representativeness is addressed through station selection and timing within each GOC and season, and comparability is maintained by applying consistent methods, units, and metadata across events and laboratories.

A3.2 Quality Control Frequency

Field quality control will include: duplicates collected at a minimum frequency of ten percent per parameter class, field or equipment blanks at a minimum of five percent for organics and metals with additional blanks for per- and polyfluoroalkyl substances (PFAS) as needed, and a temperature controls for each cooler.

A4. FIELD CHECKS

A4.1 Field Measurements and Calibration

Field technicians are to calibrate multiparameter sondes and turbidity meters, record three turbidity replicates and report the mean, maintain daily calibration and verification logs, and document tide, wind, wave, recent rainfall, and any visual observations such as sheen, floatables, and odors.

A4.2 Sample Collection, Preservation, and Holding

FDEP SOPs will be followed for container types, preservation, filtration, and holding time. Coolers will be packed with ice to maintain temperature control. Materials that can bias results will be avoided, such as polytetrafluoroethylene in PFAS sampling.

A4.3 Chains of Custody

COCs must be complete for every sample and included in shipment. Technicians will seal coolers, document transfers, and transmit electronic copies before courier departure. HAI will maintain custody until a receipt by the laboratory is verified.

A4.4 Field Notes & Records

Field technicians are to use electronic forms with required fields for station identification, coordinates, time, crew, calibrations, in-situ readings, sample identifiers, quality control samples, cooler identification and temperature, and observations. Otherwise, the field crew will use waterproof paper forms when electronics are unavailable and upload images the same day.

A5. DATA MANAGEMENT AND VALIDATION

Electronic field forms feed a central database. The Data Manager applies automated checks for completeness, required fields, valid codes, and unit consistency. The laboratories will provide results and quality control packages in an electronic data deliverable format.

HAI performs Level 2A and Level 2B validation before reporting. These checks include holding time, preservation, method identification, calibration continuity, blank contamination, recoveries, and precision. Qualifiers such as U for not detected at the reporting limit, J for estimated, B for associated blank contamination, H for holding time exceedance, and R for rejected are applied as needed. Other qualifiers are provided by the laboratories. Data usability is assigned for each result and summarized by parameter group.

Results retain links to station, date and time, method, batch, laboratory sample identifier, and qualifiers. All figures and tables carry a data-vintage annotation that states the collection window and the as-of date for the dataset.

A6. AUDITS & CORRECTIVE ACTION

The QA Officer conducts internal field and data audits during wet and dry seasons. Non-conformances such as temperature exceptions, blank contamination, or precision failures trigger corrective actions that can include resampling, retraining, instrument service, or method adjustment. Actions are logged and verified for effectiveness before closure.

A7. HEALTH AND SAFETY

Field work follows the Safety and Hazardous Waste Management Plan for heat, lightning, biological exposure, chemical handling, decontamination, and waste management. Stop-work authority applies to all crew members.

A8. REPORTING DELIVERABLES

- Monthly dashboards and scorecards with key statistics, heat maps where appropriate, and exceptions.
- Quarterly or semi-annual technical memoranda with methods, results, validation summaries, heat maps, and recommendations.
- Final report and presentation package for City Commission review.

B

Our field technicians are trained to follow HAI’s standard operating procedures when collecting soil and groundwater samples, calibrating sampling equipment, decontaminating sampling equipment, and maintaining sampling equipment. Physical copies of the SOPs are kept on hand by our field technicians when performing the corresponding field work.

B1. Sampling Team Members’ Experience and Task Performance

Daniel Anaya – 19 years’ experience conducting soil and groundwater sampling.

Mike Riva – 3 years’ experience conducting soil sampling.

Zakir Ahmed – 3 years’ experience conducting soil sampling.

Chalmers Murray – 23 years’ experience conducting soil and groundwater sampling.

Our seniormost field technicians (5 years’ experience or greater) are provided scopes of work by our professional engineer, professional geologist, and senior project geologist. The team members coordinate and discuss the scope of work to ensure all HAI staff understand the scope of work and responsibilities required of them. HAI technical staff will supervise fieldwork conducted by our field technicians. Additionally, our less experienced field technicians (2-5 years’ experience) will assist senior HAI staff in sample collection which they are qualified for.

B2. Sampling Team Members’ Training and Certifications

Daniel Anaya – Trained in groundwater and soil sampling as outlined by the FDEP SOP and meets the qualifications set by the American Society of Testing and Materials (ASTM) and performs Phase I and Phase II Environmental Assessments in accordance with the standard issued by ASTM Standard Practice E 1527-05.

Chalmers Murray – Trained in groundwater and soil sampling as outlined by the FDEP SOP. Participated in FDEP 8-hour sampling seminar.

Mike Riva – Trained in soil sampling as outlined by the FDEP SOP.

Zakir Ahmed – Trained in soil sampling as outlined by the FDEP SOP.

B3. HAI Field Quality Control Requirements

Use the following SOPs in conjunction with field quality control. Note that field quality control blanks are required when using other, specific HAI sampling SOPs to collect samples for certain analytes, as further discussed in this SOP.

Field quality control measures monitor the sampling event to ensure that the collected samples are representative of the sample source.

Field-collected blanks must demonstrate that the collected samples have not been contaminated by:

- The sampling environment
- The sampling equipment
- The sample container
- The sampling preservatives
- Sample transport
- Sample storage

Sample Containers

Sample containers must be free from contamination by the analytes of interest or any interfering constituents and must be compatible with the sample type.

Sampling Operations

Sampling operations are monitored through the collection of quality control samples.

1. When collected, analyze all quality control samples for the same parameters as the associated samples. The Florida Department of Environmental Protection provides the list of test in each group in Table FA 1000-2.
 - 1.1. When collected, collect blanks for the following parameter groups and tests:
 - Volatile Organic Compounds (*e.g.*, volatile organic aromatics)
 - Extractable Organics (*e.g.*, PCBs and pesticides)
 - Metals
 - Ultra-trace Metals (metals collected by “clean-hands” sampling techniques for sub-ppb analyses)
 - Inorganic Non-metallics (*e.g.*, nutrients)
 - Radionuclides (total Alpha and Beta emitters)
 - Petroleum Hydrocarbons (*e.g.*, FL-PRO) and Oil & Grease
 - Volatile Inorganics (sulfide, hydrogen sulfide, or sulfite)
 - Aggregate Organics except Biochemical Oxygen Demand (*e.g.*, TOX, COD, TOC)
 - 1.2. Blanks are not required for:
 - Microbiological - viruses

- Microbiological-bacteria (e.g., total and fecal coliform)
 - Microbiological-protozoa (e.g., Giardia)
 - Toxicity (e.g., Whole Effluent Toxicity)
 - Field parameters such as pH, Specific Conductance, Residual Chlorine, Temperature, Light Penetration, Dissolved Oxygen, ORP and Salinity
 - Radon
 - Biologicals (e.g., Chlorophyll)
 - Biological Community (e.g., Stream Condition Index)
 - Physical and Aggregate Properties (e.g., color, hardness, turbidity)
 - Biochemical Oxygen Demand
2. Preserve, transport, document and handle all quality control samples as if they were samples. Once collected, they must remain with the sample set until the laboratory has received them.
 3. Except for trip blanks, prepare all quality control samples **on-site in the field**.
 - 3.1. Do not prepare precleaned equipment blanks in advance at the base of operations.
 - 3.2. Do not prepare field-cleaned equipment blanks after leaving the sampling site.
 4. Perform and document any field QC measures specified by the analytical method (such as trip blanks for volatile organics in each cooler).

Quality Control Blanks

Collect field quality control blanks to monitor the sample collection process, decontamination procedures, quality of sample preservatives and sample storage and transport conditions, to help ensure that samples are representative of the sampling source and have not been artificially contaminated by the sample collection process.

Precleaned Equipment Blanks

Precleaned equipment blanks monitor the on-site sampling environment, sampling equipment decontamination, sample container cleaning, the suitability of sample preservatives and analyte-free water, and sample transport and storage conditions for water, waste, soil, or sediment samples.

1. Collect these blanks using sampling equipment that has been brought to the site precleaned and ready for use. The cleaning procedures used for the blank collection must be identical to those used for the field sample collection.
2. Collect these blanks before the equipment set has been used.
3. Prepare equipment blanks by rinsing the sampling equipment set with the appropriate type of analyte-free water and collecting the rinse water in appropriate sample containers.

Field-Cleaned Equipment Blanks

Field-cleaned equipment blanks monitor on-site sampling environment, sampling equipment decontamination, sample container cleaning, the suitability of sample preservatives and analyte-free water, and sample transport and storage conditions.

4. Collect these blanks using sampling equipment that has been cleaned in the field (i.e., between sampling points). The cleaning procedures used for the blank collection must be identical to those used for the field sample collection.
5. Prepare field-cleaned equipment blanks immediately after the equipment is cleaned in the field and before leaving the sampling site.
6. Prepare equipment blanks by rinsing the sampling equipment set with the appropriate type of analyte-free water and collecting the rinse water in appropriate sample containers.
7. For intermediate sampling devices or equipment, site-water rinsing is defined as the decontamination step, if this is the only cleaning that will be performed on the equipment prior to collecting the sample. In this case, after rinsing the intermediate device 3 times with analyte free water, collect the equipment blank with a subsequent rinse of the device using additional analyte-free water to collect sufficient blank volume.

Trip Blanks

Trip blanks monitor the sample container cleaning, the suitability of sample preservatives and analyte-free water, and sample transport and storage conditions.

1. The organization that is providing the VOC vials must provide the trip blanks by filling two or more VOC vials with analyte-free water and preservatives (if needed).
 - 1.1. To prevent degradation of the trip blank, long-term storage of prepared trip blanks is not recommended.
2. These aqueous matrix blanks are applicable if samples are to be analyzed for volatile constituents (volatile organics, methyl mercury, etc.) in water, waste, soils, or sediments.
3. Place a set of trip blanks in each transport container used to ship/store empty VOC vials. They must remain with the VOC vials during the sampling episode and must be transported to the analyzing laboratory in the same shipping or transport container(s) as the VOC samples.
4. When samples from more than one site are transported in the same ice chest, the same trip blank may be used for all of the samples, provided all samples and the trip blank are analyzed at the same lab.
5. Trip blanks must be opened **only** by the laboratory after the blank and associated samples have been received for analysis. The trip blank is aqueous and must be analyzed by water sample analytical techniques, even when the collected sample matrix is non-aqueous.

Field Blanks

Field blanks monitor the on-site sampling environment, sample container cleaning, the suitability of sample preservatives and analyte-free water, and sample transport and storage conditions for water, waste, soil or sediment samples.

1. Prepare field blanks by pouring analyte-free water into sample containers for each parameter set to be collected.
2. Field blanks are not required if equipment blanks are collected.

Field Duplicates

Field duplicates are designed to measure the variability in the sampling process.

1. GENERAL CONSIDERATIONS: Remember the following when collecting field duplicates.
 - 1.1. Collect duplicates by **repeating** (simultaneously or in rapid succession) the entire sample acquisition technique that was used to obtain the first sample.
 - 1.2. Collect, preserve, transport and document duplicates in the same manner as the samples. **These samples are not considered laboratory duplicates.**
 - 1.3. When collected, analyze field duplicates for the same parameters as the associated samples.
 - 1.4. If possible, collect duplicate samples from sampling locations where contamination is present.
 - 1.5. Field duplicates must be collected if required by the analytical method.

Water Duplicates

Collect water duplicates by sampling from successively collected volumes (i.e., samples from the next volume of sample water).

Soil Duplicates

Collect soil duplicates from the same sample source (i.e., soil from the same soil sampling device).

Mandatory Field Quality Controls

1. The respondent, permittee or contractor and the sampling organization are responsible for ensuring that blanks (excluding trip blanks) are collected at a minimum of 5% of each reported test result/matrix combination for the life of a project.
 - 1.1. Collect at least one blank for each reported test result/matrix combination each year for each project.
 - 1.2. If a party wishes to claim that a positive result is due to external contamination sources during sample collection, transport or analysis, then at least one field collected blank (excludes trip blanks) must have been collected at the same time the samples were collected and analyzed with the same sample set.
 - 1.3. A project will be defined by the organization responsible for collecting the samples for the project.
 - 1.4. When applicable, define the scope of the project in conjunction with the appropriate HAI team member.
2. When collecting a set of blanks, use the following criteria:
 - 2.1. Equipment Blanks:
 - 2.1.1. Collect field-cleaned equipment blanks if any sample equipment decontamination is performed in the field.
 - 2.1.2. If no decontamination is performed in the field, collect precleaned equipment blanks if the equipment is not certified clean by the vendor or the laboratory providing the equipment.

2.1.3. Equipment blanks are not required for volatile organic compounds.

2.1.4. Collect equipment blanks for autosampler tubing after installing, or, prior to installation in sampler, including bulk tubing lengths later installed in multiple samplers. If tubing is changed during every sampling event, collect equipment blanks for 5% of the tubing changes. If tubing is not changed at every event, collect a blank at each tubing change.

2.2. Field Blanks:

2.2.1. Collect field blanks if no intermediate device is used to collect the samples or if the sampling equipment is certified clean by the vendor or the laboratory providing the equipment.

2.2.1.1. If a sample container is used as an intermediate sample collection device, collect an equipment blank by rinsing the decontaminated collection container as the substitute for the field blank.

2.2.2. Field blanks are not required for volatile organic compounds.

2.3. Trip Blanks:

2.3.1. These blanks are applicable if samples are to be analyzed for volatile organic compounds.

Split Samples

HAI may require split samples as a means of determining compliance or as an added measure of quality control. Unlike duplicate samples that measure the variability of both the sample collection and laboratory procedures, split samples measure only the variability **between** laboratories. Therefore, the laboratory samples must be subsamples of the same parent sample and every attempt must be made to ensure sample homogeneity.

Collect, preserve, transport and document split samples using the same protocols as the related samples. In addition, attempt to use the same preservatives (if required).

If split samples are incorporated as an added quality control measure, HAI recommends that all involved parties agree on the logistics of collecting the samples, the supplier(s) of the preservatives and containers, the analytical method(s), and the statistics that will be used to evaluate the data.

Soils, Sediments, Chemical Wastes and Sludges

Collecting split samples for these matrices is not recommended because a true split sample in these matrices is not possible.

Water

Collect split samples for water in one of two ways:

1. Mix the sample in a large, appropriately precleaned, intermediate vessel (a churn splitter is recommended). This method shall not be used if volatile or extractable organics, oil and grease or total petroleum hydrocarbons are of interest. While continuing to thoroughly mix the sample, pour aliquots of the sample into the appropriate sample containers. Alternatively:

2. Fill the sample containers from consecutive sample volumes **from the same sampling device**. If the sampling device does not hold enough sample to fill the sample containers, use the following procedure:

- 2.1. Fill the first container with half of the sample, and pour the remaining sample into the second container.
- 2.2. Obtain an additional sample, pour the first half into the **second** container, and pour the remaining portion into the first container.
- 2.3. Continue with steps described in sections 2.1 and 2.2 above until both containers are filled.

Quality Control Documentation

Document all field quality control samples in the permanent field records.

1. At a minimum, record the following information:

- The type, time, date and location that the quality control sample was collected; and
- The preservative(s) (premeasured or added amount) and preservation checks performed.

2. If blanks are collected/prepared by the field organization, maintain records of the following:

- Type of analyte-free water used;
- Source of analyte-free water (include lot number if commercially purchased);
- A list of the sampling equipment used to prepare the blank.

If items above are specified in an internal SOP, you may reference the SOP number and revision date in the field notes. Note any deviations to the procedure in the field notes.

3. For trip blanks, record the following:

- Date and time of preparation
- Storage conditions prior to release to the sample collecting organization
- Type of analyte-free water used
- Source and lot number (if applicable) of analyte-free water
- Specific transport container (e.g. ice chest, cooler) used to transport empty VOC vials and field samples.
- Include trip blank information in the sampling kit documentation.

4. For duplicates, record the technique that was used to collect the sample.

5. For split samples, identify the method used to collect the samples and the source(s) of the sample containers and preservatives.

B4. HAI Surface Water Sampling Standard Operating Procedures

1. INTRODUCTION AND SCOPE

1.1. This section presents standard operating procedures to be used to consistently collect representative surface water samples. Each collection event must be performed so that samples are neither contaminated nor altered from improper handling.

1.2. The following topics include acceptable equipment selection and equipment construction materials; and standard grab, depth-specific and depth-composited surface water sampling techniques.

2. GENERAL CAUTIONS

2.1. When using watercraft, take samples near the bow, away and upwind from any gasoline outboard engine. Orient watercraft so that bow is positioned in the upstream direction.

2.2. When wading, collect samples upstream from the body.

2.3. Avoid disturbing sediments in immediate area of sample collection.

2.4. Collect water samples prior to taking sediment samples when obtaining both from the same area (site).

2.5. Consider the representativeness of selected sampling locations, for example, when attempting to characterize a water body that may be stratified or heterogeneous.

2.6. Unless dictated by permit, program or order, sampling at or near structures (e.g., dams, weirs or bridges) may not provide representative data because of unnatural flow patterns.

2.7. Collect surface water samples from downstream towards upstream.

3. EQUIPMENT AND SUPPLIES

3.8. Use sampling equipment constructed of materials consistent with the analytes of interest. The Florida Department of Environmental Protection's Tables 1000-1 and 1000-2 for material selection. Select equipment based on the analytes of interest, the specific equipment use and the available equipment. Refer to Florida Department of Environmental Protection's Table 1000-3 for selection of appropriate equipment.

3.9. For information on sample container size and construction, preservation and holding time requirements, see Florida Department of Environmental Protection's Tables 1000-4, 1000-5, 1000-8, 1000-9 and 1000-11.

Surface Water Sampling Techniques

Use the following protocols when collecting surface water samples.

1. **MANUAL SAMPLING:** Use manual sampling for collecting grab samples for immediate in-situ field analyses. Also use manual sampling in lieu of automatic equipment over extended periods of time for composite sampling, especially when it is necessary to observe and/or note unusual conditions.

1.1. Surface Grab Samples

Collect surface grab samples within the top 12 inches of the water column. Avoid skimming the surface of the water during collection unless specifically required by

the sampling plan. Very shallow water bodies require careful techniques of sample collection to avoid disturbing sediments (1.1.4 below).

Where practical, use the actual sample container as the collection device (direct grab). Sample containers attached to poles are also considered direct grabs.

The use of unpreserved sample containers is encouraged since the same container can be submitted for laboratory analysis after appropriate preservation. This procedure reduces sample handling and potential loss of analytes or contamination of the sample from other sources (e.g., additional sampling equipment, environment, etc.).

1.1.1. Direct Grab Technique

1.1.1.1. Using an unpreserved sample container to collect the sample:

- Remove the container cap and slowly submerge the container, opening first, into the water.
- Invert the bottle so the opening is upright and pointing upstream into the oncoming direction of water flow (if applicable). Allow water to run slowly into the container until filled.
- Return the filled container quickly to the surface.
- Pour out a small volume of sample away from and downstream of the sampling location. This procedure allows for addition of preservatives and sample expansion. Do not use this step for volatile organics or other analytes where headspace is not allowed in the sample container.
- Add preservatives, if required, securely cap container, label and complete field notes.

1.1.1.2. Using a sample container with premeasured preservative to collect the sample. (An unpreserved sample container may also be used with this technique.)

- Submerge the unopened sample container to the appropriate level.
- Turn the container so that the opening is upright and pointing upstream into the oncoming direction of water flow (if applicable).
- Open the container and allow the water to run into the container almost full (leave an air space).
- Cap the container and return to the surface.

1.1.1.3. If preservatives have been added, invert the container several times to ensure sufficient mixing of sample and preservatives.

1.1.1.4. Check preservation of the sample and adjust pH with additional preservative, if necessary. When a pH adjustment is made and a prepreserved container was used to collect the sample, always check all containers for proper preservation.

1.1.2. Sampling with an Intermediate Vessel or Container: If the sample cannot be collected directly into the sample container to be submitted to the laboratory, use an unpreserved sample container or an intermediate vessel (e.g., beakers, buckets or dippers) to obtain the sample. Where applicable, ensure that the bulk sample collected with the intermediate device is well mixed before distribution

into individual sample containers in order to maintain homogeneity of the samples. These vessels must be appropriately cleaned and constructed including any poles or extension arms used to access the sample location.

1.1.2.1. Rinse the intermediate vessel with ample amounts of site water prior to collecting the first sample. Discard rinsate away from or downstream of the sampling location.

1.1.2.2. After adequate rinsing, fill the intermediate vessel with sample water. Minimize agitation or aeration of the sample if volatile organic compounds are to be collected.

1.1.2.3. Fill sample containers from the intermediate vessel. Minimize agitation or aeration during filling if volatile organic compounds are to be collected. Do not touch the sample container with the intermediate vessel.

1.1.2.4. Leave adequate headspace in the sample container. This procedure allows for addition of preservatives (if required) and sample expansion. Do not use this step for volatile organics or other analytes where headspace is not allowed in the sample container.

1.1.2.5. Add preservatives if required, securely cap container, label and complete field notes.

1.1.2.6. Invert the container several times to ensure sufficient mixing of sample and preservatives.

1.1.2.7. Check preservation of the sample and adjust pH with additional preservative, if necessary.

1.1.3. Pump and Tubing: Use appropriate pumps, equipment, and tubing.

Do not Collect oil & grease, TRPH, or FL-PRO samples with a pump.

1.1.3.1. Lower tubing to a depth 6-12 inches below water surface, where possible.

1.1.3.2. Pump several tubing volumes through the system to flush the tubing prior to collecting the first sample.

1.1.3.3. Fill individual sample bottles via the discharge tubing, being careful not to remove the inlet tubing from the water.

1.1.3.4. Do not touch the discharge tubing to the sample container.

1.1.3.5. Leave adequate headspace in the sample container. This procedure allows for addition of preservatives (if required) and sample expansion. Do not use this step for volatile organics or other analytes where headspace is not allowed in the sample container.

1.1.3.6. Add preservatives if required, securely cap container, label and complete field notes.

1.1.3.7. Invert the container several times to ensure sufficient mixing of sample and preservatives.

1.1.3.8. Check preservation of the sample and adjust pH with additional preservative, if necessary.

1.1.4 Sampling in shallow water

1.1.4.1. Do not collect a grab sample from water less than ten (10) cm deep due to the risk of disturbing sediment or flocculent bottom material.

1.1.4.2. Especially for waters with low or no flow, use extreme caution to avoid disturbing the sediment.

1.1.4.3. Use of an intermediate device may be appropriate to avoid creation of a sediment plume in cases of low or no flow.

1.2. Depth Grab Samples: Examples of equipment that may be used for depth grab sampling include Kemmerer, Niskin, Van Dorn and similar samplers; pumps with tubing and double check-valve bailers. Do not collect oil & grease, TRPH or FL-PRO samples with a pump.

1.2.1. Kemmerer, Niskin and Van Dorn Type Devices

1.2.1.1. Many of these samplers are constructed of plastic and rubber that preclude their use for all volatile and extractable organic sampling. Some newer devices are constructed of stainless steel or are all Teflon or Teflon-coated. These are acceptable for all analyte groups without restriction.

1.2.1.2. Measure the water column to determine maximum depth and sampling depth prior to lowering the sampling device.

1.2.1.3. Mark the line attached to the sampler with depth increments so that the sampling depth can be accurately recorded.

1.2.1.4. Lower the sampler slowly to the appropriate sampling depth, taking care not to disturb the sediments.

1.2.1.5. At the desired depth, send the messenger weight down to trip the closure mechanism.

1.2.1.6. Retrieve the sampler slowly.

1.2.1.7. Rinse the sampling device with ample amounts of site water prior to collecting the first sample. Discard rinsate away from and downstream of the sampling location.

1.2.1.8. Fill the individual sample bottles via the discharge tube. Sample bottles must be handled as described in sections 1.1.3.3 – 1.1.3.8 above.

1.2.2. Double Check-Valve Bailers: Collect samples using double check-valve bailers if the data requirements do not necessitate a sample from a strictly discrete interval of the water column. Bailers with an upper and lower check-valve can be lowered through the water column and water will continually be displaced through the bailer until the desired depth is reached, at which point the bailer is retrieved.

1.2.2.1. Sampling with this type of bailer must follow the same protocols outlined in section 1.2.1 above except that a messenger weight is not applicable.

1.2.2.2. Although not designed specifically for this kind of sampling, a bailer is acceptable when a mid-depth sample is required.

1.2.2.3. Note: This sampler does not perform as well as the devices described above or the pump and tubing described in section 1.2.3 below.

1.2.2.4. As the bailer is dropped through the water column, water is displaced through the body of the bailer. The degree of displacement depends upon the check-valve ball movement to allow water to flow freely through the bailer body.

1.2.2.5. Slowly lower the bailer to the appropriate depth. Upon retrieval, the two check-valves seat, preventing water from escaping or entering the bailer.

1.2.2.6. Rinse the sampling device with ample amounts of site water prior to collecting the first sample.

1.2.2.7. Fill the individual sample bottles via the discharge tube. Sample bottles must be handled as described in sections 1.1.3.3 – 1.1.3.8 above.

1.2.3. Pump and Tubing: Use appropriate pumps, equipment and tubing. Do not collect oil & grease, TRPH or FL-PRO samples with a pump.

1.2.3.1. Measure the water column to determine the maximum depth and the sampling depth.

1.2.3.2. Tubing will need to be tied to a stiff pole or be weighted down so the tubing placement will be secure. Do not use a lead or metallic weight if collecting metals samples. Any dense, non-contaminating, non-interfering material will work (brick, stainless steel weight, etc.). Tie the weight with a lanyard (braided or monofilament nylon, etc.) so that it is located below the inlet of the tubing.

1.2.3.3. Pump several tubing volumes through the system to flush the tubing prior to collecting the first sample.

1.2.3.4. Fill the individual sample bottles via the discharge tube, being careful not to remove the inlet tubing from the water. Do not touch the discharge tubing to the sample container.

1.2.3.5. Leave adequate headspace in the sample container. This procedure allows for addition of preservatives (if required) and sample expansion. Do not use this step for volatile organics or other analytes where headspace is not allowed in the sample container.

1.2.3.6. Add preservatives if required, securely cap container, label and complete field notes.

1.2.3.7. Invert the container several times to ensure sufficient mixing of sample and preservatives.

1.2.3.8. Check preservation of the sample and adjust pH with additional preservative, if necessary.

2. **AUTOMATIC SAMPLERS**: Use automatic samplers when several sites are to be sampled at frequent intervals or when a continuous sample is required. Composite samplers can be used to collect time composite or flow proportional. Use appropriate equipment and tubing.

The use of automatic samplers for collecting surface water samples will more frequently run into situations where sampling equipment is deployed on-site for a long term or dedicated to the site.

2.10. Installing and Programming the Composite Sampler

2.1.1. Use all new or precleaned pump tubing each time the sampler is brought to the field and set up. If the automatic sampler is deployed in the field for extended periods, it is recommended to replace the tubing at a minimum of every six months. Other replacement schedules may be required, depending on the specific installation and project requirements. Inspect the tubing each time the composite-sample container is picked up. If there is evidence of loss of elasticity or discoloration or other conditions that would impact the quality of the sample (such as algal growth), or the pumping flow rate, then replace the tubing.

2.1.1.1. Cut the proper length of precleaned Teflon or Tygon tubing.

2.1.1.2. Equipment Blanks: Autosampler tubing equipment blank can be collected prior to installation in sampler, including bulk tubing lengths later installed in multiple samplers. If tubing is changed at every sampling event a blank must be collected at a frequency of 5% of tubing changes. If tubing is not changed at every sampling event, collect a blank at each tubing change. Collect the blank by passing analyte-free water through the equipment that is exposed to the sample.

- Composite sample containers may be cleaned either in the field or in a fixed base operation. Demonstrate cleaning effectiveness by collecting equipment blanks on the composite sample containers according to the frequency specified in FQ 1000.
- Collect sample container equipment blanks by adding analyte-free water to the cleaned sample container, mix the water thoroughly within the container and then pour off an aliquot for analysis.

2.1.1.3. Put the collection sieve and tubing in the appropriate sample location, using conduit if necessary to hold it in place. Ensure the supporting conduit does not contaminate the incoming sample water.

2.1.1.4. Program the sampler per manufacturer's directions and as required in the permit or work plan conditions.

2.1.1.5. Automatic Sampler Security: Place a lock or seal on the sampler to prevent or detect tampering. This procedure, however, does not prevent tampering with the sampler tubing.

2.2. Sample Acquisition

2.2.1. At the end of each sampling period, stir the contents of the composite jug and transfer the contents into the respective containers. If the sampler was configured to collect discrete samples, ensure that the contents of each container are adequately mixed while pouring the sample into the sample container.

2.2.2. Immediately preserve the sample, if required, securely cap container, label and complete field notes.

2.3. Long Term Deployment of Automatic Composite Samplers: In certain sampling situations, automatic composite samplers are permanently installed at

surface water stations and remain in the field for months or even years. Under these conditions, there are specific sampling issues that need to be addressed.

2.3.1. Sample Preservation

2.3.1.1. If the only analyte of interest is Total Phosphorus and the project is unrelated to an NPDES permit, the sample must be chemically preserved with sulfuric acid (H₂SO₄) but it need not be cooled to ≤6°C in wet ice.

2.3.1.2. The acid must be in the container prior to drawing the first composite sample into the container.

2.3.1.3. When using large (i.e., 3 gallon) composite sample containers, and there is potential for the sample size to vary greatly due to variable flow rates at the site, the volume of acid for preservation should be small (e.g., 1 to 2 mL of 50% H₂SO₄). **Do not over acidify the sample.** Upon sample pick-up, if needed, add additional acid to achieve the proper pH adjustment for preservation.

2.3.1.4. If parameters other than total phosphorus are to be analyzed, appropriate additional preservation (e.g., cooling with ice or refrigeration) is required.

2.3.1.5. Deviations from these SOPs concerning preservation and holding times relating to remote and long term deployments due to site specific considerations must be agreed upon by project management.

2.3.2. Cleaning Requirements

2.3.2.1. Clean composite sampler containers after collection of each composite sample using cleaning solutions and procedures specified in HAI's SOP.

2.3.2.2. Composite sample containers may be cleaned either in the field or in a fixed based operation. Demonstrate cleaning effectiveness by collecting equipment blanks on the composite sample containers according to the frequency specified in HAI's SOP. Collect sampler container equipment blanks by adding analyte-free water to the cleaned sample container, mix the water thoroughly within the container and then pour off an aliquot for analysis.

2.3.2.3. Inspect and replace tubing at a minimum of every six months or when applicable, as discussed in section 2.1.1 above. Collect equipment blanks as specified in section 2.1.1.2 above. If the tubing is being replaced for multiple autosamplers at the same time, one equipment blank may be collected on the entire length of replacement tubing. Collect this equipment blank by passing analyte-free water through the entire length of new tubing.

B5. HAI Cleaning/Decontamination Standard Operating Procedures

1. PERFORMANCE CRITERIA

1.1. The cleaning/decontamination procedures must ensure that all equipment that contacts a sample during sample collection is free from the analytes of interest and constituents that would interfere with the analytes of interest.

1.2. The detergents and other cleaning supplies cannot contribute analytes of interest or interfering constituents unless these are effectively removed during a subsequent step in the cleaning procedure.

1.3. The effectiveness of any cleaning procedure (including all cleaning reagents) must be supported by equipment blanks with reported non-detected values.

1.4. For toxicity tests, the effectiveness of any cleaning procedure must be supported by control samples with acceptable survival and reproduction or growth.

The cleaning procedures outlined in this SOP are designed to meet the above-mentioned performance criteria. Alternative cleaning reagents or procedures may be used. However, the organization must be prepared to demonstrate through documentation (i.e., company-written protocols and analytical records) and historical data (i.e., absence of analytes of interest in equipment blanks) that it consistently meets these performance criteria. Field quality control measures must support the use of alternative reagents or procedures.

Cleaning Reagents

Recommendations for the types and grades of various cleaning supplies are outlined below. The recommended reagent types or grades were selected to ensure that the cleaned equipment is free from any detectable contamination.

1. **DETERGENTS:** Use Luminox (or a non-phosphate solvent based equivalent), Liqui-Nox (or a non-phosphate equivalent) or Alconox (or equivalent). EPA recommends Luminox (or equivalent) since solvent rinses can be eliminated from the cleaning process. Liquinox (or equivalent) may be substituted (solvent rinses, when applicable, must be performed), and Alconox (or equivalent) may be substituted if the sampling equipment will not be used to collect phosphorus or phosphorus-containing compounds.

2. SOLVENTS

Note: If the detergent Luminox (or equivalent) is used, solvent rinses are not required.

2.1. Use pesticide grade isopropanol as the rinse solvent in routine equipment cleaning procedures. This grade of alcohol must be purchased from a laboratory supply vendor.

2.2. Other solvents, such as acetone or methanol, may be used as the final rinse solvent if they are pesticide grade. However, methanol is more toxic to the environment and acetone may be an analyte of interest for volatile organics. Do not use acetone if volatile organics are of interest.

2.3. Properly dispose of all wastes according to applicable regulations. Containerize all solvents (including rinsates) for on-site remediation or off-site disposal, as required.

- 2.4. Pre-clean equipment that is heavily contaminated with organic analytes with reagent grade acetone and hexane or other suitable solvents.
- 2.5. Use pesticide grade methylene chloride when cleaning sample containers.
- 2.6. Store all solvents away from potential sources of contamination (gas, copier supplies, etc.).
3. ANALYTE-FREE WATER SOURCES
 - 3.1. Analyte-free water is water in which all analytes of interest and all interferences are below method detection limits.
 - 3.2. Maintain documentation (such as results from equipment blanks) to demonstrate the reliability and purity of analyte-free water source(s).
 - 3.3. The source of the water must meet the requirements of the analytical method and must be free from the analytes of interest. In general, the following water types are associated with specific analyte groups:
 - Milli-Q (or equivalent polished water): suitable for all analyses.
 - Organic-free: suitable for volatile and extractable organics.
 - Deionized water: not suitable for volatile and extractable organics if the analytes of interest are present in concentrations that affect the result.
 - Distilled water: not suitable for volatile and extractable organics, metals or ultra-trace metals.
 - 3.4. Use analyte-free water for blank preparation and the final decontamination water rinse.
 - 3.5. In order to minimize long-term storage and potential leaching problems, obtain or purchase analyte-free water just prior to the sampling event. If obtained from a source (such as a laboratory), fill the transport containers and use the contents for a single sampling event. Empty the transport container(s) at the end of the sampling event.
 - 3.6. Discard any analyte-free water that is transferred to a dispensing container (such as a wash bottle) at the end of each sampling day.
4. ACIDS
 - 4.1. Reagent Grade Nitric Acid: 10 - 15% (one volume concentrated nitric acid and five volumes deionized water).
 - 4.1.1. Use for the acid rinse unless nitrogen components (e.g., nitrate, nitrite, etc.) are to be sampled.
 - 4.1.2. If sampling for ultra-trace levels of metals, use an ultra-pure grade acid.
 - 4.2. Reagent Grade Hydrochloric Acid: 10% hydrochloric acid (one volume concentrated hydrochloric and three volumes deionized water). Use when nitrogen components are to be sampled.
 - 4.3. If samples for both metals and the nitrogen-containing components are collected with the equipment, use the hydrochloric acid rinse, or thoroughly rinse with hydrochloric acid after a nitric acid rinse.
 - 4.4. If sampling for ultra trace levels of metals, use an ultra-pure grade acid.

- 4.5. Freshly prepared acid solutions may be recycled during the sampling event or cleaning process. Dispose appropriately at the end of the sampling event, cleaning process or if acid is discolored or appears otherwise contaminated (e.g., floating particulates). Transport only the quantity necessary to complete the sampling event.
- 4.6. Dispose of any unused acids according to FDEP and local ordinances.

Reagent Storage Containers

The contents of all containers must be clearly marked.

1. DETERGENTS: Store in the original container or in a high density polyethylene (HDPE) or polypropylene (PP) container.
2. SOLVENTS
 - 2.1. Store solvents to be used for cleaning or decontamination in the original container until use in the field. If transferred to another container for field use, the container must be either glass or fluoropolymer (FP).
 - 2.2. Use dispensing containers constructed of glass, FP, or stainless steel. Note: if stainless steel sprayers are used, any components (including gaskets and transfer lines) that contact the solvents must be constructed of inert materials.
3. ANALYTE-FREE WATER: Transport in containers appropriate to the type of water to be stored. If the water is commercially purchased (e.g., grocery store), use the original containers when transporting the water to the field. Containers made of glass, FP, polypropylene, or Polyethylene (PE) are acceptable.
 - 3.1. Use glass, FP, polypropylene or PE to transport organic-free sources of water on-site.
 - 3.2. Dispense water from containers made of glass, FP, PE or polypropylene.
 - 3.3. Do not store water in transport containers before beginning a sampling event, unless satisfactory long-term storage of analyte-free water for a specified maximum storage time has been documented for the analytes of interest. The water should be replaced and the maximum storage time shortened if it is determined that the analyte-free water has been contaminated, e.g., by the analysis of field-QC blanks or other QC blanks that have been composed using the water stored in the container.
 - 3.4. Store and dispense acids using containers made of glass, FP, PE or polypropylene.

FC 1003. *General Requirements*

1. Before using any equipment, clean/decontaminate all sampling equipment (pumps, tubing, lanyards, split spoons, etc.) that are exposed to the sample.
 - 1.1. Before installing, clean (or obtain as certified precleaned) all equipment that is dedicated to a single sampling point and remains in contact with the sample medium (e.g., permanently installed groundwater pump).
 - 1.2. Clean this equipment any time it is removed for maintenance or repair.
 - 1.3. Replace dedicated tubing if discolored or damaged.

2. Clean all equipment in a designated area having a controlled environment (house, laboratory, or base of field operations) and transport to the field precleaned and ready to use, unless otherwise justified.
3. Rinse all equipment with water after use, even if it is to be field-cleaned for other sites. Rinse equipment used at contaminated sites or used to collect in-process (e.g., untreated or partially treated wastewater) samples immediately with water.
4. Whenever possible, transport sufficient clean equipment to the field so that an entire sampling event can be conducted without the need for cleaning equipment in the field.
5. Segregate equipment that is only used once (i.e., not cleaned in the field) from clean equipment and return to the in-house cleaning facility to be cleaned in a controlled environment.
6. Protect decontaminated field equipment (including well sounders) from environmental contamination by securely wrapping and sealing with one of the following:
 - 6.1. Aluminum foil (commercial grade is acceptable);
 - 6.2. Untreated butcher paper; or
 - 6.3. Clean, untreated, disposable plastic bags. Plastic bags may be used:
 - For all analyte groups except volatile and extractable organics;
 - For volatile and extractable organics, if the equipment is first wrapped in foil or butcher paper or if the equipment is completely dry.
7. Containerize all solvent rinsing wastes, detergent wastes and other chemical wastes requiring off-site or regulated disposal. Dispose of all wastes in conformance with applicable regulations.

Cleaning Sample Collection Equipment

ON-SITE/IN-FIELD CLEANING

1. Cleaning equipment on-site is not recommended because:
 - 1.1. Environmental conditions cannot be controlled.
 - 1.2. Wastes (solvents and acids) must be containerized for proper disposal.
2. If performed, follow the appropriate cleaning procedure.
3. Ambient temperature water may be substituted in the hot, sudsy water bath, and hot water rinses.
4. Rinse all equipment with water after use, even if it is to be field-cleaned for other sites. Rinse equipment used at contaminated sites or used to collect in-process (e.g., untreated or partially treated wastewater) samples immediately with water.

HEAVILY CONTAMINATED EQUIPMENT

In order to avoid contaminating other samples, isolate heavily contaminated equipment from other equipment and thoroughly decontaminate the equipment before further use. Equipment is considered heavily contaminated if it:

- Has been used to collect samples from a source known to contain significantly higher levels than background;
 - Has been used to collect free product; or
 - Has been used to collect industrial products (e.g., pesticides or solvents) or their by-products.
1. Cleaning heavily contaminated equipment in the field is not recommended.
 2. ON-SITE PROCEDURES
 - 2.1. Protect all other equipment, personnel and samples from exposure by isolating the equipment immediately after use.
 - 2.2. At a minimum, place the equipment in a tightly sealed untreated plastic bag.
 - 2.3. Do not store or ship the contaminated equipment next to clean, decontaminated equipment, unused sample containers, or filled sample containers.
 - 2.4. Transport the equipment back to the base of operations for thorough decontamination.
 - 2.5. If cleaning must occur in the field, and in order to document the effectiveness of the procedure, collect and analyze blanks on the cleaned equipment.
 3. CLEANING PROCEDURES
 - 3.1. If organic contamination cannot be readily removed with scrubbing and a detergent solution, prerinse equipment by thoroughly rinsing or soaking the equipment in acetone.
 - 3.1.1. Do not use solvent soaks or rinses if the material is clear acrylic.
 - 3.1.2. Use hexane only if preceded and followed by acetone.
 - 3.2. In extreme cases, it may be necessary to steam clean the field equipment before proceeding with routine cleaning procedures.
 - 3.3. After the solvent rinses (and/or steam cleaning), use the appropriate cleaning procedure.
 - 3.3.1. Scrub, rather than soak all equipment with sudsy water.
 - 3.3.2. If high levels of metals are suspected and the equipment cannot be cleaned without acid rinsing, soak the equipment in the appropriate acid. Do not use stainless steel equipment when heavy metal contamination is suspected or present, since stainless steel cannot be exposed to prolonged acid soaks.
 - 3.4. If the field equipment cannot be cleaned utilizing these procedures, discard unless further cleaning with stronger solvents and/or oxidizing solutions is effective as evidenced by visual observation and blanks.
 - 3.5. Clearly mark or disable all discarded equipment to discourage use.

GENERAL CLEANING

Follow these procedures when cleaning equipment under controlled conditions. Check manufacturer's instructions for cleaning restrictions and/or recommendations.

Procedure for FP, Stainless Steel and Glass Sampling Equipment

This procedure must be used when sampling for **ALL** analyte groups: extractable organics, metals, nutrients, etc. or if a single decontamination protocol is desired to clean all **FP**, stainless steel and glass equipment.

1. Rinse equipment with hot tap water.
2. Soak equipment in a hot, sudsy water solution (Liqui-Nox or equivalent).
3. If necessary, use a brush to remove particulate matter or surface film.
4. Rinse thoroughly with hot tap water.
5. If samples for trace metals or inorganic analytes will be collected with the equipment and the equipment **is not** stainless steel, thoroughly rinse (wet all surfaces) with the appropriate acid solution.
6. Rinse thoroughly with analyte-free water. Use enough water to ensure that all equipment surfaces are thoroughly flushed with water.
7. If samples for volatile or extractable organics will be collected, rinse with isopropanol. Wet equipment surfaces thoroughly with free-flowing solvent. Rinse thoroughly with analyte-free water.
8. Allow to air dry. Wrap and seal as soon as the equipment is air-dried.
9. If isopropanol is used, the equipment may be air-dried without the final analyte-free water rinse; however, **the equipment must be completely dry before wrapping or use.**
10. Wrap clean sampling equipment.

General Cleaning Procedure for Plastic Sampling Equipment

1. Rinse equipment with hot tap water.
2. Soak equipment in a hot, sudsy water solution (Liqui-Nox or equivalent).
3. If necessary, use a brush to remove particulate matter or surface film.
4. Rinse thoroughly with hot tap water.
5. Thoroughly rinse (wet all surfaces) with the appropriate acid. Check manufacturer's instructions for cleaning restrictions and/or recommendations.
6. Rinse thoroughly with analyte-free water. Use enough water to ensure that all equipment surfaces are thoroughly flushed with water. Allow to air dry as long as possible.
7. Wrap clean sampling equipment.

AUTOMATIC SAMPLERS, SAMPLING TRAINS AND BOTTLES

1. When automatic samplers are deployed for extended time periods, clean the sampler using the following procedures when routine maintenance is performed. Inspect deployed samplers prior to each use. At a minimum, change the tubing if it has become discolored or has lost elasticity.
2. Clean all automatic samplers (such as ISCO) as follows:
 - 2.1. Wash the exterior and accessible interior portions of the automatic samplers (excluding the waterproof timing mechanisms) with laboratory detergent and rinse with tap water.

- 2.2. Clean the face of the timing case mechanisms with a clean, damp cloth.
- 2.3. Check all tubing (sample intake and pump tubing). Change the tubing every six months (if used frequently) or if it has become discolored (i.e., affected by mold and algae) or if it has lost its elasticity.
3. AUTOMATIC SAMPLER ROTARY FUNNEL AND DISTRIBUTOR
 - 3.1. Clean with hot sudsy water and a brush.
 - 3.2. Rinse thoroughly with analyte-free water.
 - 3.3. Air dry.
 - 3.4. Replace in sampler.
4. REUSABLE GLASS COMPOSITE SAMPLE CONTAINERS
 - 4.1. If containers are used to collect samples that contain oil, grease or other hard to remove materials, it may be necessary to rinse the container several times with reagent-grade acetone before the detergent wash. If material cannot be removed with acetone, discard the container.
 - 4.2. Wash containers. End with a final solvent rinse if organics are to be sampled.
 - 4.3. Invert containers to drain and air dry for at least 24 hours.
 - 4.4. Cap with aluminum foil, FP film or the decontaminated FP-lined lid.
 - 4.5. After use, rinse with water in the field, seal with aluminum foil to keep the interior of the container wet, and return to the laboratory or base of operations.
 - 4.6. **Do not recycle or reuse containers if:**
 - 4.6.1. They were used to collect in-process (i.e., untreated or partially treated) wastewater samples at industrial facilities;
 - 4.6.2. A visible film, scale or discoloration remains in the container after the cleaning procedures have been used; or
 - 4.6.3. The containers were used to collect samples at pesticide, herbicide or other chemical manufacturing facilities that produce toxic or noxious compounds. Such containers must be properly disposed of (preferably at the facility) at the conclusion of the sampling activities.
 - 4.6.4. If the containers described above are reused, check no less than 10% of the cleaned containers for the analytes of interest **before** use. If found to be contaminated, (i.e., constituents of interest are found at method detection levels or higher), then **discard the containers.**
5. REUSABLE PLASTIC COMPOSITE SAMPLE CONTAINERS
 - 5.1. Inspect the containers. Determine if the containers can be reused.
6. GLASS SEQUENTIAL SAMPLE BOTTLES FOR AUTOMATIC SAMPLER BASED FOR SEQUENTIAL MODE
 - 6.1. Clean glass sequential sample bottles to be used for collecting inorganic samples by using a laboratory dishwasher or manually.
 - 6.1.1. Rinse with appropriate acid solution.
 - 6.1.2. Rinse thoroughly with tap water.

- 6.1.3. Wash in dishwasher at wash cycle, using laboratory detergent cycle, followed by tap and analyte-free water rinse cycles.
- 6.2. Replace bottles in covered, automatic sampler base; cover with aluminum foil for storage.
- 6.3. Rinse bottles in the field with water as soon as possible after sampling event.
7. Glass Sequential Sample Bottles (Automatic Sampler based for Sequential Mode) to be used for Collecting Samples for Organic Compounds
 - 7.1. Use cleaning procedures. Allow containers to thoroughly air dry before use.
 - 7.2. Replace bottles in covered, automatic sampler base; cover with aluminum foil for storage.
8. BOTTLE SIPHONS USED TO TRANSFER SAMPLES FROM COMPOSITE CONTAINERS
 - 8.1. Rinse tubing with solvent and dry overnight in a drying oven.
 - 8.2. Cap ends with aluminum foil and/or FP film for storage.
 - 8.3. Seal in plastic for storage and transport.
 - 8.4. Flush siphon thoroughly with sample before use.

FILTRATION EQUIPMENT

1. Dissolved Constituents using in-line, Molded and Disposable Filter Units
 - 1.5. Peristaltic Pump
 - 2.1.1. Clean the pump.
 - 2.1.2. Clean the pump head tubing.
 - 2.1.3. Clean other tubing types such as polyethylene according to the appropriate procedures.
 - 1.6. Other Equipment Types (e.g., pressurized FP bailer)
 - 2.1.1. Follow the appropriate cleaning regimen for other types of equipment that utilize in-line, molded and disposable filters.
9. Dissolved Constituents using Non-disposable Filtration Units (e.g., syringes, "tripod assembly")
 - 1.7. Stainless Steel or Glass Units
 - 2.1.1. Assemble and apply pressure to the apparatus after each rinse step (water and acid) to drive rinsing solution through the porous filter holder in the bottom of the apparatus.
 - 2.1.2. Remove and clean any transfer tubing according to the appropriate cleaning procedures.
 - 2.1.3. Assemble the unit and cap both the pressure inlet and sample discharge lines (or whole unit if a syringe) with aluminum foil to prevent contamination during storage.
 - 2.1.4. If the unit will **not** be used to filter volatile or extractable organics, seal the unit in an untreated plastic bag to prevent contamination.
 - 1.8. Reusable In-Line Filter Holders

- 2.1.1. Clean, assembling and applying pressure to the apparatus after each rinse step (water and acid) to drive rinsing solution through the porous filter holder in the bottom of the apparatus.
- 2.1.2. Assemble the unit and wrap with aluminum foil to prevent contamination during storage.
- 2.1.3. If the unit will **not** be used to filter volatile or extractable organics, seal the unit in an untreated plastic bag to prevent contamination.

10. FILTERS

- 1.9. Do not clean filters.

SAMPLE TUBING DECONTAMINATION

1. Check tubing:
 - 1.1. For discoloration: Remove discolored tubing from use until it can be cleaned. If the discoloration cannot be removed, discard the tubing.
 - 1.2. For elasticity (if used in a peristaltic-type pump): Discard any tubing that has lost its elasticity.
2. Transport all tubing to the field in precut, **precleaned** sections.
3. FLUOROPOLYMER, POLYETHYLENE AND POLYPROPYLENE TUBING
 - 3.1. New Tubing: Follow this procedure unless the manufacturer/supplier provides certification that the tubing is clean.
 - 3.1.1. Fluoropolymer
 - 3.1.1.1. Rinse outside of tubing with pesticide-grade solvent.
 - 3.1.1.2. Flush inside of tubing with pesticide-grade solvent.
 - 3.1.1.3. Dry overnight in drying oven or equivalent (zero air, nitrogen, etc.).
 - 3.1.2. Polyethylene and Polypropylene
 - 3.1.2.1. Clean the exterior and interior of the tubing by soaking in hot, sudsy water.
 - 3.1.2.2. Thoroughly rinse the exterior and interior of the tubing with tap water, followed by analyte-free water.
 - 3.2. Reused Tubing
Use the following procedure for in-lab cleaning. **Field cleaning is not recommended:**
 - 3.2.1. Clean the exterior of the tubing by soaking in hot, sudsy water in a stainless steel sink (or equivalent non-contaminating material). Use a brush to remove any particulates, if necessary.
 - 3.2.2. Use a small bottle brush and clean the inside of the tubing ends where the barbs are to be inserted or cut 1-2 inches from the ends of the tubing after cleaning.
 - 3.2.3. Rinse tubing exterior and ends liberally with tap water.

3.2.4. Rinse tubing surfaces and ends with the appropriate acid solution, tap water, isopropanol, and finally analyte-free water. Note: Eliminate the isopropanol rinse for polyethylene or polypropylene tubing.

3.2.5. Place tubing on fresh aluminum foil or clean polyethylene sheeting. Connect all of the precut lengths of tubing with FP inserts or barbs.

3.2.6. Cleaning configuration:

3.2.6.1. Place cleaning reagents: [sudsy water; acid; isopropanol] in an appropriately cleaned container (2-liter glass jar is recommended).

3.2.6.2. Place one end of the FP tubing into the cleaning solution.

3.2.6.3. Attach the other end of the FP tubing set to the influent end of a pump.

3.2.6.4. Recycle the effluent from the pump by connecting a length of FP tubing from the effluent to the glass jar with the cleaning reagents.

3.2.6.5. Recycling as described above may be done for all appropriate reagents, **except** the final isopropanol rinse and the final analyte-free water rinse. Disconnect the tubing between the effluent end of the pump and the jar of cleaning reagents.

3.2.6.6. Containerize isopropanol in a waste container for proper disposal.

3.2.6.7. Analyte-free water may be discarded down the drain.

3.2.7. Using the above configuration:

3.2.7.1. Pump hot, sudsy water through the connected lengths. Allow the pump to run long enough to pump at least three complete tubing volumes through the tubing set.

3.2.7.2. Using the same procedure, successively pump tap water, the acid solution(s), tap water, isopropanol, and finally analyte-free water through the system.

3.2.7.3. Leave the FP inserts or barbs between the precut lengths and cap or connect the remaining ends.

3.2.8. After the interior has been cleaned, rinse the exterior of the tubing with analyte-free water.

3.2.9. Wrap the connected lengths in aluminum foil or untreated butcher paper and store in a clean, dry area until use.

11. Flexible Tubing used in Pump Heads of Automatic Samplers and other Peristaltic Pumps

Replace tubing after each sampling point if samples are collected through the tubing. Unless the pump is deployed to collect samples from the same location over a long period of time, remove and wash the tubing after each sampling event

1.10. Flush tubing with hot tap water then sudsy water.

1.11. Rinse thoroughly with hot tap water.

1.12. Rinse thoroughly with analyte-free water.

- 1.13. If used to collect metals samples, flush the tubing with an appropriate acid solution, followed by thorough rinsing with analyte-free water. If used to collect both metals and nitrogen components use hydrochloric acid (see FC 1001, section 4.1.1).
- 1.14. Install tubing in peristaltic pump or automatic sampler.
- 1.15. Cap both ends with aluminum foil or equivalent.

2. STAINLESS STEEL TUBING

Clean the exterior and interior of stainless steel tubing as follows:

- 2.1. Using sudsy water, scrub the interior and exterior surfaces.
- 2.2. Rinse with hot tap water.
- 2.3. Rinse with analyte-free water.
- 2.4. If volatile or extractable organics are to be sampled, rinse all surfaces with isopropanol. Use enough solvent to wet all surfaces with free flowing solvent.
- 2.5. Allow to air dry or thoroughly rinse with analyte-free water.

12. GLASS TUBING

- 2.6. Use new glass tubing.
- 2.7. If volatile or extractable organics are to be sampled, rinse with isopropanol.
- 2.8. Air dry for at least 24 hours.
- 2.9. Wrap in aluminum foil or untreated butcher paper to prevent contamination during storage.
- 2.10. Discard tubing after use.

13. MISCELLANEOUS NON-INERT TUBING TYPES (TYGON, RUBBER, PVC, ETC.)

2.11. New Tubing

- 2.1.1. As a general rule, new tubing may be used without preliminary cleaning.
- 2.1.2. Protect new tubing from potential environmental contamination by wrapping in aluminum foil and sealing in untreated plastic bags or keep in the original sealed packaging until use.
- 2.1.3. If new tubing is exposed to potential contamination, rinse the exterior and interior tubing surfaces with hot tap water followed by a thorough rinse with analyte-free water.
- 2.1.4. If new tubing is to be used to collect samples, thoroughly rinse the tubing with sample water (i.e., pump sample water through the tubing) before collecting samples.

2.12. Reused Tubing

- 2.1.1. Flush tubing with sudsy solution of hot tap water and laboratory detergent.
- 2.1.2. Rinse exterior and interior thoroughly with hot tap water.
- 2.1.3. Rinse exterior and interior thoroughly with analyte-free water.
- 2.1.4. If used to collect only metals samples, flush the tubing with nitric acid, followed by a thorough rinse with analyte-free water.
- 2.1.5. Cap ends in aluminum foil and store in clean, untreated plastic bags to prevent contamination during storage and transport.

PUMPS

1. SUBMERSIBLE PUMPS

1.1. Pumps used for Purging and Sampling Metals and/or Volatile and Extractable Organics

1.1.1. Construction of pump body and internal mechanisms (bladders, impellers, etc.), including seals and connections, must follow FDEP Tables FS 1000-1, FS 1000-2 and FS 1000-3.

1.1.2. Tubing material must follow FDEP Tables FS 1000-1, FS 1000-2 and FS 1000-3.

1.1.3. Clean pump exterior Note: omit the solvent rinse if the pump body is constructed of plastic (e.g., ABS, PVC, etc.).

1.1.4. Clean the pump internal cavity and mechanism as follows:

1.1.4.1. If used only for purging, thoroughly flush the pump with water before purging the next well.

1.1.4.2. When used for purging and sampling, completely disassemble the pump (if practical) and decontaminate between each well.

1.1.4.3. When used for purging and sampling and the pump cannot be (practicably) disassembled, then clean the internal cavity/mechanism by pumping several gallons of sudsy water, followed by several gallons of tap water, and finally, several gallons of analyte-free water.

1.1.4.4. If multiple sampling points are located in an area that is not accessible by a vehicle, and it is difficult to return to the vehicle for cleaning or to transport all cleaning materials to the staging location, at a minimum thoroughly rinse the pump with water.

1.1.5. Clean FP tubing.

1.1.6. Clean stainless steel tubing.

1.1.7. Clean other types of tubing.

1.2. Pumps used for Purging and Sampling all Analytes except Metals, Volatile and Extractable Organics

1.2.1. Pump construction: no restrictions.

1.2.2. Pump tubing material: no restrictions.

1.2.3. Scrub the exterior of the pump with appropriate metal-free, phosphate-free or ammonia-free detergent solution.

1.2.4. Rinse the exterior with tap water and analyte-free water.

1.2.5. Rinse the interior of the pump and tubing by pumping tap or analyte-free water through the system using a clean bucket or drum.

2. ABOVE-GROUND PUMPS USED FOR PURGING AND SAMPLING

2.1. Pumps used only for Purging

2.1.1. The exterior of the pump must be free of oil and grease.

2.1.2. Select tubing according to FDEP Tables FS 1000-1, FS 1000-2 and FS 1000-3.

2.1.3. Clean the tubing that contacts the formation water according to the appropriate protocol for construction materials

2.2. Pumps used for Sampling

2.2.1. Clean the exterior of the pump with a detergent solution followed by a tap water rinse. Use clean cloths or unbleached paper towels that have been moistened with the appropriate solution to wipe down the pump.

2.2.2. Select tubing according to FDEP Tables FS 1000-1, FS 1000-2 and FS 1000-3.

2.2.3. Clean the tubing that contacts the formation water according to the appropriate protocol for construction materials.

ANALYTE-FREE WATER CONTAINERS

This section pertains to containers that are purchased to transport, store and dispense analyte-free water. It does not apply to water that has been purchased in containers.

1. NEW CONTAINERS

1.1. Wash containers and caps, omitting the solvent rinse if plastic (polyethylene or polypropylene) containers are being cleaned.

1.2. Cap with FP film or the bottle cap. The bottle cap must be composed of the same material as the container and cannot be lined.

2. REUSED CONTAINERS

2.1. Immediately after emptying, cap with aluminum foil, FP film or the container cap.

2.2. Wash the exterior of the container with lab-grade detergent solution and rinse with analyte-free water.

2.3. Rinse the interior thoroughly with analyte-free water.

2.4. Invert and allow to drain and dry.

ICE CHESTS AND SHIPPING CONTAINERS

3. Wash the exterior and interior of all ice chests with laboratory detergent after each use.

4. Rinse with tap water and air dry before storing.

5. If the ice chest becomes severely contaminated with concentrated waste or other toxic or hazardous materials clean as thoroughly as possible, render unusable, and properly dispose.

Field Instruments and Drilling Equipment

FIELD INSTRUMENTS (TAPES, METERS, ETC.)

Follow manufacturer's recommendations for cleaning instruments. At a minimum:

1. Wipe down equipment body, probes, and cables with lab-grade detergent solution. Check manufacturer's instructions for recommendations and/or restrictions on cleaning.

2. Rinse thoroughly with tap water.

3. Rinse thoroughly with analyte-free water.

4. Store equipment according to the manufacturer's recommendation or wrap equipment in aluminum foil, untreated butcher paper or untreated plastic bags to eliminate potential environmental contamination.

SOIL BORING EQUIPMENT

This section pertains only to equipment that is not used to collect samples. Clean split spoons, bucket augers and other sampling devices.

1. Remove oil, grease, and hydraulic fluid from the exterior of the engine and power head, auger stems, bits and other associated equipment with a power washer or steam jenny or wash by hand with a brush and sudsy waster (no degreasers).
2. Rinse thoroughly with tap water.

WELL CASING CLEANING

These are recommended procedures for cleaning well casing and riser pipes. HAI recommends only using casing that is designed for subsurface environmental groundwater monitoring.

1. Casing that has been contaminated with grease, hydraulic fluid, petroleum fuel, etc. may require additional cleaning or deemed unusable.
2. All casings and riser pipes should be cleaned before installation, unless the casing is received wrapped and ready for installation:
 - 2.1. Steam clean all casings and riser pipes except PVC. Steam cleaning criteria shall meet the following: water pressure - 2500 psi; water temperature - 200°F.
 - 2.2. Rinse thoroughly with tap (potable) water. This tap water must be free of the analytes of interest.

Sample Containers

OBTAINING CLEAN CONTAINERS

1. Obtain clean sample containers in one of three ways:
 - 1.1. From commercial vendors as precleaned containers. The cleaning grades must meet EPA analyte specific requirements. Keep all records for these containers (lot numbers, certification statements, date of receipt, etc.) and document the container's intended uses;
 - 1.2. From internal groups within the organization that are responsible for cleaning and maintaining containers; or
 - 1.3. From a subcontracted laboratory that is accredited under the National Environmental Laboratory Accreditation Program (NELAP).
 - 1.3.1. The contractor must verify that the laboratory follows the container cleaning procedures.
 - 1.3.2. If the laboratory cleaning procedures are different, the contractor must require that the laboratory use the following cleaning procedures or provide documentation and historical records to show that their in-house procedure produces containers that are free from the analytes of interest.

CONTAINER CLEANING PROCEDURES

1. Refer to FDEP Table FC 1000-2. Follow the cleaning steps in the order specified in the chart.
2. Cleaning procedures that are different from those outlined may be used as long as blanks collected in the containers are free from the analytes of interest and any analytical interferences and the cleaning procedures are supported by historical and continuing documentation.
3. Inspect all containers before cleaning. **Do not recycle or reuse containers if:**
 - 3.1. Containers were used to collect in-process (i.e., untreated or partially treated) wastewater samples at industrial facilities;
 - 3.2. A visible film, scale or discoloration remains in the container after the cleaning procedures have been used; or
 - 3.3. Containers were used to collect samples at pesticide, herbicide or other chemical manufacturing facilities that produce toxic or noxious compounds. Such containers shall be properly disposed of (preferably at the facility) at the conclusion of the sampling activities.
 - 3.4. If the containers described above are reused, check no less than 10% of the cleaned containers for the analytes of interest before use. If found to be contaminated (i.e., analytes of interest are found at MDL levels or higher), discard the containers.

Documentation

Document cleaning procedures described below for the indicated activities.

FIELD EQUIPMENT

1. IN-FIELD CLEANING
 - 1.1. Initially identify the procedures that are used to clean equipment in the field by SOP numbers and dates of usage.
 - 1.2. Record the date and time that equipment was cleaned.
2. IN-HOUSE CLEANING
 - 2.1. Retain any cleaning certificates, whether from a laboratory or commercial vendor.
 - 2.2. Identify the procedure(s) that are used to clean equipment by the SOP number and dates of usage.
 - 2.3. Record the date that the equipment was cleaned.

SAMPLE CONTAINERS

1. Organizations that order precleaned containers must retain the packing slips, and lot numbers of each shipment, any certification statements provided by the vendor and the vendor cleaning procedures.
2. Organizations that clean containers must maintain permanent records of the following:
 - 2.1. Procedure(s) used to clean containers by SOP number and dates of usage.
 - 2.2. If containers are certified clean by the laboratory the laboratory must record:

- Type of container;
- Date cleaned;
- SOP used;
- Person responsible for cleaning;
- Lot number (date of cleaning may be used) of the batch of containers that were cleaned using the same reagent lots and the same procedure;
- The results of quality control tests that were run on lot numbers; and
- Any additional cleaning or problems that were encountered with a specific lot.

REAGENTS AND OTHER CLEANING SUPPLIES

Maintain a record of the lot number with the inclusive dates of use for all acids, solvents, and other cleaning supplies.

B6. Sampling Equipment Maintenance Procedures

Sampling equipment is inspected at the end of each day for any visual signs of damage or wear. Additionally, the accuracy of the logs is verified when performing initial and continuing calibration verification. If any maintenance is required, the equipment is sent in for repair by the equipment manufacturer and backup equipment is used. Equipment is decontaminated between samples and at the end of each day.

Safety, Health, & Hazardous Waste Plan



HYDROLOGIC ASSOCIATES U.S.A., INC.

ENVIRONMENTAL CONSULTANTS • HYDROGEOLOGIC TESTING
WELL DRILLING SERVICES • PETROLEUM CONTRACTOR

**PROPOSED SAFETY, HEALTH & HAZARDOUS WASTE PLAN
(HASP)**

For

**City of Key West Water Quality Monitoring Program
RFP No. 25-020**

September 17, 2025

Proposed Safety, Health & Hazardous Waste Plan (HASP)

Applies To: Field staff conducting shoreline and pier/jetty access sampling only (no vessel operations)

Effective Date: September 17, 2025

Revision: 0

1. Purpose and Scope

This plan safeguards field staff during surface water sampling at coastlines, beaches, seawalls, piers, and stormwater outfalls within the City of Key West. It establishes safe-work practices, personal protective equipment, spill response, and hazardous waste handling appropriate to these activities.

2. Roles and Responsibilities

- **Project Manager:** Authorizes field work, ensures this HASP is implemented, coordinates incident reporting to the City.
- **Field Supervisor:** Conducts tailgate safety briefings, verifies site controls, approves daily go/no-go.
- **Field Technicians:** Follow this HASP, complete checklists, stop work if conditions are unsafe, report near misses and incidents.
- **QA Officer:** Reviews incident reports and corrective actions, maintains training and fit-for-duty records.

3. Stop-Work Authority

Any team member will immediately stop work when hazards exceed controls or when procedures cannot be completed safely. Examples include lightning within 10 miles, unsafe surf or tides, chemical splash, loss of required PPE, or access conditions that create fall or traffic risks.

4. Principal Hazards and Controls

4.1 Environmental and Physical

- **Heat/UV:** Work in shade when possible; 15-minute cool breaks per hour when heat index is high; hydrate before, during, after shifts; sunscreen SPF \geq 30.
- **Lightning/Storms:** Use the 30/30 rule; suspend work if thunder is heard; resume 30 minutes after last thunder.

- **Slips/Trips/Falls:** Wear non-slip footwear; test footing; avoid algae-covered surfaces; maintain three-point contact on ladders and access steps.
- **Tides/Wave Action:** Sample only within planned tidal windows; keep minimum two-person team with one spotter when working within two body-lengths of an unprotected edge.
- **Traffic/Public Interaction:** Use high-visibility apparel when near roads or shared paths; set cones/signage where permitted; maintain situational awareness.

4.2 Chemical and Biological

- **Acids/Preservatives/Disinfectants:** Wear splash protection; open bottles at waist level away from face; neutralize small acid drips with baking soda in spill kit; double-bag contaminated wipes.
- **Pathogens (sewage-impacted waters):** Use nitrile gloves and eye protection; avoid hand-to-mouth contact; wash or sanitize hands before breaks; cover cuts; use disinfectant wipes on tools and coolers after sampling.
- **Hydrocarbons/Sheen:** Avoid direct contact; document with photos; collect samples down-wind and up-current of obvious sources where feasible.

5. Personal Protective Equipment (PPE)

- **Minimum:** High-visibility shirt/vest, non-slip closed-toe footwear, nitrile gloves, safety glasses with side shields, sun protection.
- **Situational:** Chemical-resistant apron or lab coat when handling preservatives; cut-resistant gloves for sharp substrates; disposable sleeves if splash risk exists.
- **Care:** Inspect before use; replace damaged PPE; dispose of contaminated PPE as waste according to Section 9.

6. Training and Briefings

- Complete hazard communication and task-specific training before fieldwork.
- Conduct a **daily tailgate briefing** covering location, weather, tides, access route, traffic controls, sampling tasks, PPE, emergency contacts, and nearest care facility.
- Review this HASP and site-specific updates at the briefing; all staff sign the attendance log.

7. Field Operations

7.1 Pre-Departure

- Check weather, heat index, tide forecast, and lightning.
- Verify PPE, first-aid kit, eye-wash bottle, potable water, and the spill kit.
- Label sample containers in advance where permitted; stage coolers with ice and temperature blank.

7.2 Site Access and Sampling

- Park in legal, stable locations; use cones where allowed.
- Establish a safe work zone away from edges until ready to sample.
- Maintain two-person rule; one person samples, one observes and manages documentation and measurement devices such as the YSI-meters.
- Handle preservatives carefully; cap immediately after use; keep incompatible materials separate.

7.3 Decontamination and Hygiene

- Remove gross debris from equipment; rinse with site water if required by methods, then DI water; disinfect high-touch surfaces.
- Wash or sanitize hands before eating, drinking, or leaving the site; change out of contaminated clothing promptly.

8. Incident and Exposure Response

- **Minor cuts/scrapes:** Clean, disinfect, cover; report to Field Supervisor.
- **Chemical splash to skin/eyes:** Flush with clean water for 15 minutes; remove contaminated clothing; seek medical evaluation.
- **Heat stress symptoms:** Move to shade, cool, hydrate; call EMS if symptoms escalate.
- **Needle/sharp or severe laceration:** Control bleeding, cover, and seek immediate medical care; report as an incident.
- Document all incidents and near misses the same day; notify the Project Manager.

9. Spill Control (Field)

- **Small spills** (e.g., ≤ 100 mL preservative): Don PPE, contain with absorbent pads, neutralize acids with baking soda, place residues in labeled zip bag or container; wipe tools with water or appropriate neutralizer; place waste in cooler secondary containment for return.
- **Larger spills or unknowns:** Isolate area, stop source if safe, evacuate public, call 911 if needed; notify the Project Manager; await guidance.

10. Hazardous Waste Management (Field-Generated)

- **What becomes waste:** Excess or expired preserved sample, acid-contaminated wipes, absorbents, and significantly contaminated disposable PPE.
- **Containers:** Use compatible, sealable containers with screw caps; keep closed except when adding waste; place inside secondary containment within the vehicle.
- **Labels:** Apply field waste label with contents, hazards, date started, and project ID.
- **Segregation:** Do not mix incompatible wastes; do not mix hazardous and non-hazardous waste.

- **Accumulation/Return:** Maintain a satellite accumulation container in secondary containment; return wastes to the office for consolidation and vendor pickup under generator rules.

11. Communication, Coordination, and Documentation

- Maintain working mobile phone and share location during work.
- Keep emergency contact sheet and care locations in the field binder.
- Complete field forms, chain-of-custody, and cooler temperature logs before leaving each site.

12. Tailgate Safety Briefing — Sign-In

A weekly tailgate safety briefing will be held with the project team to review safety close-calls, failures, and successes. Field crew is welcome to anonymously post safety tips on office dashboard.

Date/Time: _____ **Location(s):** _____ **Field Supervisor:** _____

Topics: Weather/heat index; tides; access and edge hazards; traffic controls; tasks and PPE; spill/first aid kits; emergency contacts; stop-work criteria.

13. Daily Field Checklist

Pre-Deployment Checks

- Weather, heat index, and lightning checked
- Tides and site access reviewed
- Tailgate safety briefing completed; stop-work criteria reviewed
- Emergency contacts and nearest care facility listed for today's GOC
- First-aid kit and spill kit onboard
- Preservatives and safety data sheets available
- Coolers iced; temperature blank prepared
- Cones/high-visibility gear staged (if needed)

PPE, Clothing, and Footwear

- Ensure wearing long pants
- High-visibility shirt or vest
- Gloves (nitrile) and safety glasses with side shields
- Sun protection (hat, sunscreen)
- For wade-in sites: knee-high rain boots or waders
- For non-wade-in sites: closed-toed shoes with non-slip soles

Sampling Materials

- YSI (calibrated)
- Cooler with ice
- Clipboard and pen
- Field sheet
- Dip-stick
- Whirl-paks
- Autoclaved sample bottles
- Gloves (spares)
- NavClock app ready
- Epicollect5 app ready
- Car magnets (installed when parked at sites)

Nutrient Collection — collect on outgoing tides only

- Syringe
- Field filters
- Nutrient collection bottle

Recommended Items

- Water
- Hat
- Sunscreen
- Snacks
- Rain jacket

14. Emergency Information (Field Card)

- **Emergency:** Call 911, then notify Field Supervisor and Project Manager.
- **Nearest care facility:** Determined by Geographic Area of Concern (GOC) and centrality to all stations; listed in the field binder for each deployment.
- **Poison Control:** 1-800-222-1222

SUBCONTRACTORS DOCUMENTATION

EUROFINS



State of Florida
 Department of Health, Bureau of Public Health Laboratories
 This is to certify that

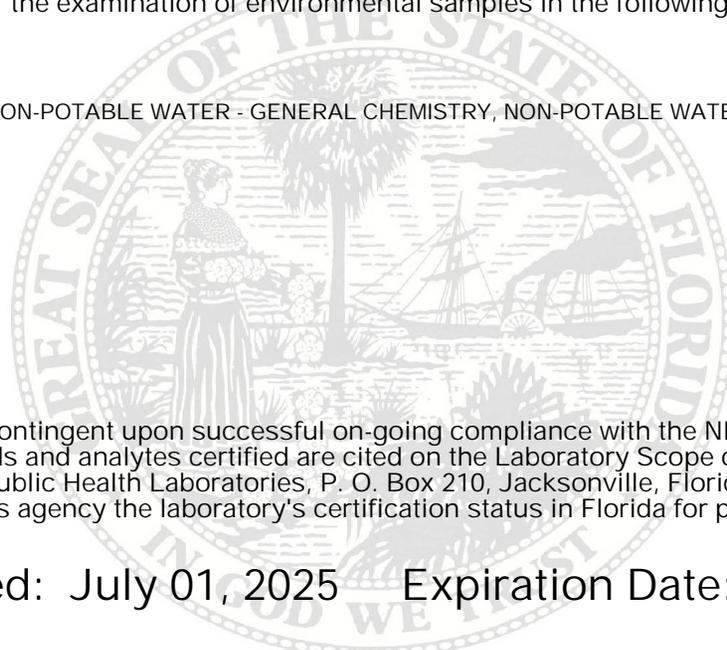


E35834

EUROFINS FLORIDA KEYS
 3980 OVERSEAS HIGHWAY SUITE 103
 MARATHON, FL 33050

has complied with Florida Administrative Code 64E-1,
 for the examination of environmental samples in the following categories

DRINKING WATER - MICROBIOLOGY, NON-POTABLE WATER - GENERAL CHEMISTRY, NON-POTABLE WATER - MICROBIOLOGY



Continued certification is contingent upon successful on-going compliance with the NELAC Standards and FAC Rule 64E-1 regulations. Specific methods and analytes certified are cited on the Laboratory Scope of Accreditation for this laboratory and are on file at the Bureau of Public Health Laboratories, P. O. Box 210, Jacksonville, Florida 32231. Clients and customers are urged to verify with this agency the laboratory's certification status in Florida for particular methods and analytes.

Date Issued: July 01, 2025 Expiration Date: June 30, 2026



Marie-Claire Rowlinson, PhD, D(ABMM)
 Bureau of Public Health Laboratories
 DH Form 1697, 7/04

NON-TRANSFERABLE E35834-35-07/01/2025
 Supersedes all previously issued certificates



Laboratory Scope of Accreditation

Attachment to Certificate #: E35834-35, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E35834 EPA Lab Code: FL01174 (305) 743-8598

**E35834
Eurofins Florida Keys
3980 Overseas Highway
Suite 103
Marathon, FL 33050**

Matrix: Drinking Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
2525	Escherichia coli	SM 9223 B	20037676	Microbiology	8/4/2015
2500	Total coliforms	SM 9223 B	20037676	Microbiology	8/4/2015



Laboratory Scope of Accreditation

Attachment to Certificate #: E35834-35, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E35834

EPA Lab Code: FL01174

(305) 743-8598

**E35834
Eurofins Florida Keys
3980 Overseas Highway
Suite 103
Marathon, FL 33050**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
1555	Carbonaceous BOD (CBOD)	SM 5210 B-2016	20135039	General Chemistry	1/4/2024
2520	Enterococci	ENTEROLERT / QUANTI-TRAY	60030208	Microbiology	6/28/2016
2525	Escherichia coli	SM 9223 B-2016 (Colilert 20037701 QT)		Microbiology	1/4/2024
2530	Fecal coliforms	COLILERT®-18 (Fecal Coliforms)	60002688	Microbiology	6/28/2016
1960	Residue-nonfilterable (TSS)	SM 2540 D-2020	20051029	General Chemistry	7/1/2025
2500	Total coliforms	SM 9223 B /QUANTI-TRAY	20211603	Microbiology	6/28/2016



STATE OF FLORIDA DEPARTMENT OF HEALTH

STATEMENT OF DEFICIENCIES AND PLAN OF CORRECTION

READ INSTRUCTIONS CAREFULLY BEFORE COMPLETING

LABORATORY: Eurofins Florida Keys	LAB I.D. NO.: E35834	DATE SURVEY COMPLETED: April 30, 2024	SURVEYOR: Tony Francis, PhD
PARAMETERS SURVEYED: Drinking Water – Microbiology Non-potable Water – General Chemistry, Microbiology			

(1) I.D. PREFIX TAG	(2) SUMMARY STATEMENT OF DEFICIENCIES	(3) LABORATORY'S PLAN OF CORRECTION <small>(Each corrective action should be cross-referenced to the appropriate deficiency)</small>	(4) COMPLETION DATE
1.	<p>TNI V1M2-4.3.2.1: A master list or an equivalent document control procedure identifying the current revision status and distribution of documents in the management system shall be established and shall be readily available to preclude the use of invalid and/or obsolete documents.</p> <p>The laboratory's master list of documents, <i>Eurofins Orlando SOP Tracking</i>, identified the current SOP OR-WE-004 as revision 0, effective 2/2/2023; however, revision 1, effective 4/17/2024 was the current revision in use.</p>	<p>The Master list for Eurofins Orlando's SOPs had not been updated to reflect the most current version of working SOPs.</p> <p>QA was creating a new tracking system and had not populated the Master list with the most updated revisions.</p> <p>A new Master list is now available which will also show the status of the revisions.</p> <p>See attachment #1</p>	6/28/2024
2.	<p>TNI V1M2-4.13.1.2: All records shall be legible and shall be stored and retained in such a way that they are readily retrievable and to prevent loss.</p> <p>Laboratory staff stated monthly sealer checks had been performed; however, records could not be retrieved prior to March 2024.</p>	<p>Documentation could not be provided to validate the IDEXX Sealer was being checked monthly for leaks.</p> <p>Log books had been provided by the QA team to capture the required QC data. However, the sealer checks were not properly documented.</p> <p>The 2023 internal audit, conducted via TEAMS, failed to verify the logbooks were capturing this information.</p> <p>An updated form, QAF-04, was received by the Florida Keys Lab on May 6, 2024 to record the sealer checks. Monthly Sealer checks are scheduled for the same day as Monthly DI H2O checks are performed.</p> <p>See attachment #2</p>	5/6/2024
3.	<p>TNI V1M2-4.13.3.e: Access to archived information shall be documented with an access log.</p> <p>An accompanying archived access log could not be retrieved for archived records retained on-site.</p>	<p>No archived logbook sign out sheet was available to sign out archived logbooks.</p> <p>The document QAF-15 Archived Logbook sign out form was provided to the laboratory by QA. However it was not placed where it could be accessed or associated with the archived logbooks.</p> <p>Archived logbook sign out sheet is now next to the archived logbook box for use when archived logbooks are retrieved and reviewed.</p> <p>See Attachment #3</p>	4/30/2024

SIGNATURE: 
 Responsible Official
 (Technical Director, QA Officer, or Manager)

7/1/2024
DATE



**STATE OF FLORIDA DEPARTMENT OF HEALTH
STATEMENT OF DEFICIENCIES AND PLAN OF CORRECTION**

READ INSTRUCTIONS CAREFULLY BEFORE COMPLETING

LABORATORY: Eurofins Florida Keys	LAB I.D. NO.: E35834	DATE SURVEY COMPLETED: April 30, 2024	SURVEYOR: Tony Francis, PhD
PARAMETERS SURVEYED: Drinking Water – Microbiology Non-potable Water – General Chemistry, Microbiology			

(1) I.D. PREFIX TAG	(2) SUMMARY STATEMENT OF DEFICIENCIES	(3) LABORATORY'S PLAN OF CORRECTION <small>(Each corrective action should be cross-referenced to the appropriate deficiency)</small>	(4) COMPLETION DATE
4.	<p>TNI V1M2-4.13.3.f.ix: All information necessary for the historical reconstruction of data shall be maintained by the laboratory including sample preparation.</p> <p>Biochemical oxygen demand data records did not include sample temperature prior to making dilutions; instead, a check mark was recorded if sample temperatures were 20±3°C.</p>	<p>Previous CBOD logbooks only prompted to acknowledge that sample temp and dilution water temperatures were within the required temperature of 20+/-3 C . Previous CBOD logbooks did not have a column to record individual sample temperatures.</p> <p>A new CBOD logbook was created and put into use with a column to record the sample temperature prior to dilutions.</p> <p>Form QAF-25 Procedure Change Directive was initiated to add to the next SOP revision.</p> <p>See attachment #4a and 4b</p>	<p>6/11/2024</p> <p>7/1/2024</p>
5.	<p>TNI V1M2-5.5.13.1.a.ii: The laboratory shall maintain records of established correction factors to correct all measurements.</p> <p>Laboratory management stated the correction factors associated with the reference thermometer had not been applied when performing working thermometer calibrations. Note: the certificate identified correction factors of +0.5°C for 0°C and -0.1°C for 100°C.</p>	<p>Thermometer calibration records could not be verified at the time of the audit. Records were not available for review.</p> <p>The laboratory was able to locate the archived and current temperature verification records for working thermometers.</p> <p>The listed thermometer S/N 3*10330 has a correction factor of +0.01 and +0.02 degrees C. When the correction factor is added into the thermometer readings for correction – the laboratory temperature remains the same. No data is impacted.</p> <p>The laboratory policy is to now scan documents into their local QA folder and email a copy to the QAM for filing.</p> <p>See attachments 5a thru 5d</p>	<p>6/18/2024</p>
6.	<p>TNI V1M2-5.5.13.1.d: Temperature measuring devices shall be calibrated or verified at least annually.</p> <p>Calibrations could not be retrieved for Thermometer #4 (used in fecal coliform testing) or Thermometer #25 (used in total suspended solids testing).</p>	<p>Thermometer calibration records could not be verified at the time of the audit. Records were not available for review.</p> <p>The laboratory was able to locate the archived and current temperature verification records for working thermometers.</p> <p>The laboratory policy is to now scan documents into their local QA folder and email a copy to the QAM for filing.</p> <p>See attachments 5a and 5b</p>	<p>6/18/2024</p>

SIGNATURE: 
Responsible Official
(Technical Director, QA Officer, or Manager)

7/1/2024
DATE



**STATE OF FLORIDA DEPARTMENT OF HEALTH
STATEMENT OF DEFICIENCIES AND PLAN OF CORRECTION**

READ INSTRUCTIONS CAREFULLY BEFORE COMPLETING

LABORATORY: Eurofins Florida Keys	LAB I.D. NO.: E35834	DATE SURVEY COMPLETED: April 30, 2024	SURVEYOR: Tony Francis, PhD
PARAMETERS SURVEYED: Drinking Water – Microbiology Non-potable Water – General Chemistry, Microbiology			

(1) I.D. PREFIX TAG	(2) SUMMARY STATEMENT OF DEFICIENCIES	(3) LABORATORY'S PLAN OF CORRECTION <small>(Each corrective action should be cross-referenced to the appropriate deficiency)</small>	(4) COMPLETION DATE
7.	<p>TNI V1M4-1.6.2.1.e: The laboratory shall document each initial demonstration of capability in a manner such that the following information is readily available for each affected employee including the identification of laboratory-specific SOP used for analysis, including revision number.</p> <p>The demonstration of capability performed by James Lefkoski for analysis of total suspended solids, dated 4/18/2024, identified SOP OR-WE-004 as the SOP associated with the demonstration. The actual SOP used was OR-WE-005. In addition, the revision number of the SOP had not been included.</p>	<p>The Analyst Demonstration of Capability signature sheet listed the TSS SOP as OR-WE-004.</p> <p>The Laboratory Manager incorrectly referenced SOP OR-WE-004 when it should have been OR0WE-005 R0 for JLL's IDOC for TSS SM2540D.</p> <p>The laboratory manager corrected the IDOC training record to reflect the correct SOP and the current revision of OR-WE-005 R0.</p> <p>See Attachment #7</p>	6/17/2024
8.	<p>TNI V1M5-1.7.3.3: For methods that specify counts (i.e. cfu/100mL or MPN/100mL), duplicate counts shall be performed monthly on one positive sample for each month that the test is performed.</p> <p>Laboratory management stated duplicate counts had not been performed by James Lefkoski for fecal coliform analysis. Records of duplicate counts for the analyst could not be retrieved.</p>	<p>Laboratory bench sheets did not record double counts for the second trained analyst for Fecal coliforms.</p> <p>Jay had recently been trained and performed his IDOC's for Fecal Coliform Thomas is setting up the microbiology samples M-F with his own readbacks.. Jay sets up samples on the weekends which are typically undetected.</p> <p>Starting May 13th, the positive quantity trays are stored in the refrigerator until Jay can recount and document his counts in the log book. This procedure also includes Enterolert samples.</p> <p>See Attachment 8a and 8b.</p>	5/8/2024
9.	<p>Standard Method 9223 B (IDEXX Colilert-18):</p> <p>If sample is not already at 33-38 °C, place the bottle in a 35°C water bath for 20 minutes, or alternatively, in a 44.5°C water bath for 7-10 minutes.</p> <p>Total coliforms and <i>E. coli</i> batch dated 4/13/2024 indicated the samples had been</p>	<p>The batch of P/A SM 9223 B on 4/13/2023 was held in the pre heating water (44.5 deg C) for three hours and 15 min.</p> <p>Analyst was distracted and was not aware of the time laps. This was an anomaly of the analyst normal practice.</p> <p>A timer is now used to remind the analyst of the 7-10 minute incubation requirement.</p>	5/1/2024

SIGNATURE:
Responsible Official
(Technical Director, QA Officer, or Manager)

7/1/2024
DATE



STATE OF FLORIDA DEPARTMENT OF HEALTH
STATEMENT OF DEFICIENCIES AND PLAN OF CORRECTION

READ INSTRUCTIONS CAREFULLY BEFORE COMPLETING

LABORATORY: Eurofins Florida Keys	LAB I.D. NO.: E35834	DATE SURVEY COMPLETED: April 30, 2024	SURVEYOR: Tony Francis, PhD
PARAMETERS SURVEYED: Drinking Water – Microbiology Non-potable Water – General Chemistry, Microbiology			

(1) I.D. PREFIX TAG	(2) SUMMARY STATEMENT OF DEFICIENCIES	(3) LABORATORY'S PLAN OF CORRECTION <small>(Each corrective action should be cross-referenced to the appropriate deficiency)</small>	(4) COMPLETION DATE
	placed in the 44.5°C water bath for three hours and 15 minutes.	Form QAF-25 Procedure Change Directive was initiated to add to the next SOP revision. See Attachment 9	7/1/2024

SIGNATURE: 
 Responsible Official
 (Technical Director, QA Officer, or Manager)

7/1/2024
 DATE

STATEMENT OF DEFICIENCIES AND PLAN OF CORRECTION

PLEASE FOLLOW THESE INSTRUCTIONS:

In completing the laboratory's section of this form, you should closely observe the following:

1. Review the instructions.
2. Complete the form legibly.
3. Each deficiency is consecutively numbered with an I.D. Prefix Tag. Your plan of correction should repeat these numbers for identification of each deficiency in the I.D. Prefix Tag Column.
4. Reply to each deficiency cited by reporting the specific action you have taken to effect compliance and enter the corrective action below the deficiency. Use attachments if necessary. Enter the date it was accomplished in the Completion Date Column (4).
5. For any item which has not yet been corrected, report the specific action you intend to take to correct the deficiency. Enter the anticipated date of completion in the Completion Date Column (4).
6. You must present a realistic plan with reasonable time frames based upon the extent and nature of the deficiencies cited.
7. There should be no statements which can be construed as defaming some other party, such as another institution, employees of the institution, etc.
8. You should frame your plan of correction in language that can be readily understood by the lay person.
9. If you do not concur with any of the deficiencies stated, your rationale to support this position must be indicated on the form.
10. The form must be completed, signed and dated by a responsible official.
11. The original must be returned within thirty (30) calendar days. Retain copy for your files.
12. Failure to submit a timely reply will leave the Bureau of Public Health Laboratories no alternative except to submit a finding of non-compliance and deny or revoke certification.



June 3, 2024

FDOH ID #E35834

Eurofins Florida Keys
3980 Overseas Highway, Suite 103
Marathon, FL 33050

Cynthia:

Attached is a copy of the April 30, 2024 Assessment Report and the Statement of Deficiencies and Plan of Correction, DH Form 1137.

Please complete the Statement of Deficiencies and Plan of Correction per instructions provided by the Florida Department of Health. A signed, electronic copy of your Statement of Deficiencies and Plan of Correction must be submitted to SAW Environmental for review within 30 days of receipt of this report.

If you have any questions or comments, please do not hesitate to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read "Tony Francis", is written over a light blue circular stamp.

Tony Francis, PhD
Principal

cc: Vanessa Soto Contreras, FDOH

NATIONAL ENVIRONMENTAL LABORATORY
ACCREDITATION PROGRAM
ON-SITE LABORATORY ASSESSMENT REPORT
Bureau of Laboratories
Florida Department of Health

Laboratory: Eurofins Florida Keys
Address: 3980 Overseas Highway, Suite 103, Marathon, FL 33050
ID Number: E35834
Date of Assessment: April 30, 2024
Categories Assessed: Drinking Water – Microbiology
Non-potable Water – General Chemistry, Microbiology
Assessor: Tony Francis, PhD, SAW Environmental

I. INTRODUCTION:

This laboratory was inspected on-site to verify compliance with Florida Administrative Code (FAC) Rule 64E-1, Certification of Environmental Testing Laboratories, which incorporates by reference the 2016 standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Conformity with the 2016 standards of the NELAC Institute (TNI) was simultaneously reviewed.

II. DEFICIENCIES:

See the accompanying DH Form 1137. Proposed corrective action plans, estimated completion dates, and original signatures and dates from responsible laboratory officials must be returned on this form to SAW Environmental (tfrancis@sawenviro.com) within 30 days of receipt of this report.

III. LABORATORY KEY PERSONNEL (Name & Title):

Key Personnel	Position / Title	Technical Director? (Y/N)
Matthew Foti	BUMA	Y
Cynthia LaRosa	Quality Assurance Manager	N
Tommy Cross	Laboratory Manager	N

IV. COMMENTS:

1. The previous assessment was performed May 4, 2022, and this assessment was initiated on April 30, 2024 meaning that according to FAC Rule 64E-1.104 this assessment was performed within two calendar years of

the previous assessment. The laboratory's next regular biennial on-site assessment is due on or before April 30, 2026.

2. The qualifications and documentation for the Technical Directors listed above had been previously reviewed. They were determined to meet the NELAC requirements to be the Technical Director for this laboratory facility.
3. The quality manual reviewed during this on-site assessment was Revision 1.3, with an effective date of April 19, 2024.
4. Data integrity training records were reviewed and found to be in compliance.
5. Method Detection Limit studies were not applicable to the methods included on the laboratory's scope of accreditation.
6. Laboratory reporting procedures were in line with established Maximum Contaminant Levels set by the EPA.
7. The deficiencies that were identified during the previous assessment, dated May 4, 2022, were found to be corrected during this follow-up assessment.

V. CONCLUSIONS:

With the exception of the deficiencies identified in this report, the laboratory's personnel, procedures, equipment, facilities, and quality system are currently in compliance with the requirements of FAC Rule 64E-1 and the 2016 NELAC Standards. If the deficiencies listed in Section II are corrected and the response submitted within 30 days of this report and are determined acceptable, certification and data acceptance are recommended for Fields of Accreditation in the following categories:

Drinking Water – Microbiology
Non-potable Water – General Chemistry, Microbiology

The above categories are referenced in 64E-1.007, Florida Administrative Code.



July 26, 2024

FDOH ID #E35834

Eurofins Florida Keys
3980 Overseas Highway, Suite 103
Marathon, FL 33050

Cynthia:

Attached is a copy of the SAW environmental review of the Plan of Correction. The original plan of correction was received July 1, 2024 from the April 30, 2024 on-site assessment.

I have appreciated working with you and wish you continued success. As always if there any questions please do not hesitate to contact me at (801) 999-8293 or tfrancis@sawenviro.com if I can provide any additional information or assistance.

Sincerely,

A handwritten signature in blue ink, appearing to read "Tony Francis", is written over a light blue horizontal line.

Tony Francis, PhD
Principal

cc: Vanessa Soto Contreras, FDOH

Laboratory: Eurofins Florida Keys

Address: 3980 Overseas Highway, Suite 103, Marathon, FL 33050

ID Number: E35834

Date of Assessment: April 30, 2024

Categories Assessed: Drinking Water – Microbiology
Non-potable Water – General Chemistry, Microbiology

Assessor: Tony Francis, PhD, SAW Environmental

I. INTRODUCTION:

This laboratory was inspected on-site to verify compliance with Florida Administrative Code (FAC) Rule 64E-1, Certification of Environmental Testing Laboratories, which incorporates by reference the 2016 standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC). Conformity with the 2016 standards of the NELAC Institute (TNI) was simultaneously reviewed.

II. DEFICIENCIES:

The original deficiencies were cited and provided to both the laboratory and Florida Department of Health (FDOH) Environmental Laboratory Certification Program on May 29, 2022.

III. PLAN OF CORRECTION:

Eurofins Florida Keys provided a copy of DH Form 1137 as well as their original plan of correction referencing the original documentation. SAW Environmental has reviewed the documentation provided by the laboratory and found it to be acceptable.

DH Form 1137 Itemized Review

1. Acceptable
2. Acceptable
3. Acceptable
4. Acceptable
5. Acceptable
6. Acceptable
7. Acceptable
8. Acceptable
9. Acceptable

Overall, this Plan of Correction was found to directly address the deficiencies cited during the on-site assessment in a manner that should prevent the laboratory from having repeat deficiencies in the future.

IV. CONCLUSIONS:

The laboratory's personnel, procedures, equipment, facilities, and quality system are in compliance with the requirements of FAC Rule 64E-1 and the 2016 TNI Standard.

Drinking Water – Microbiology
Non-potable Water – General Chemistry, Microbiology

The above categories are referenced in 64E-1.007, Florida Administrative Code.

SUBCONTRACTORS DOCUMENTATION

AEL



State of Florida
 Department of Health, Bureau of Public Health Laboratories
 This is to certify that



E82535

ADVANCED ENVIRONMENTAL LABORATORIES, INC. - MIAMI
 10200 USA TODAY WAY
 MIRAMAR, FL 33025

has complied with Florida Administrative Code 64E-1,
 for the examination of environmental samples in the following categories

DRINKING WATER - GROUP II UNREGULATED CONTAMINANTS, DRINKING WATER - MICROBIOLOGY, DRINKING WATER - OTHER REGULATED CONTAMINANTS, DRINKING WATER - PRIMARY INORGANIC CONTAMINANTS, DRINKING WATER - SECONDARY INORGANIC CONTAMINANTS, DRINKING WATER - SYNTHETIC ORGANIC CONTAMINANTS, NON-POTABLE WATER - EXTRACTABLE ORGANICS, NON-POTABLE WATER - GENERAL CHEMISTRY, NON-POTABLE WATER - METALS, NON-POTABLE WATER - MICROBIOLOGY, NON-POTABLE WATER - PESTICIDES-HERBICIDES-PCB'S, NON-POTABLE WATER - VOLATILE ORGANICS, SOLID AND CHEMICAL MATERIALS - EXTRACTABLE ORGANICS, SOLID AND CHEMICAL MATERIALS - GENERAL CHEMISTRY, SOLID AND CHEMICAL MATERIALS - METALS, SOLID AND CHEMICAL MATERIALS - MICROBIOLOGY, SOLID AND CHEMICAL MATERIALS - PESTICIDES-HERBICIDES-PCB'S, SOLID AND CHEMICAL MATERIALS - VOLATILE ORGANICS

Continued certification is contingent upon successful on-going compliance with the NELAC Standards and FAC Rule 64E-1 regulations. Specific methods and analytes certified are cited on the Laboratory Scope of Accreditation for this laboratory and are on file at the Bureau of Public Health Laboratories, P. O. Box 210, Jacksonville, Florida 32231. Clients and customers are urged to verify with this agency the laboratory's certification status in Florida for particular methods and analytes.

Date Issued: August 05, 2025 Expiration Date: June 30, 2026



Marie-Claire Rowlinson, PhD, D(ABMM)
 Bureau of Public Health Laboratories
 DH Form 1697, 7/04

NON-TRANSFERABLE E82535-125-08/05/2025
 Supersedes all previously issued certificates



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535 EPA Lab Code: FL01281 (954) 889-2288

**E82535
Advanced Environmental Laboratories, Inc. - Miami
10200 USA Today Way
Miramar, FL 33025**

Matrix: Drinking Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
5105	1,1,1,2-Tetrachloroethane	EPA 524.2	10088809	Group II Unregulated Contaminants	2/26/2021
5160	1,1,1-Trichloroethane	EPA 524.2	10088809	Other Regulated Contaminants	3/8/2022
5110	1,1,2,2-Tetrachloroethane	EPA 524.2	10088809	Group II Unregulated Contaminants	4/20/2022
5165	1,1,2-Trichloroethane	EPA 524.2	10088809	Other Regulated Contaminants	3/8/2022
4630	1,1-Dichloroethane	EPA 524.2	10088809	Group II Unregulated Contaminants	2/26/2021
4640	1,1-Dichloroethylene	EPA 524.2	10088809	Other Regulated Contaminants	8/30/2022
4670	1,1-Dichloropropene	EPA 524.2	10088809	Group II Unregulated Contaminants	2/26/2021
5150	1,2,3-Trichlorobenzene	EPA 524.2	10088809	Group II Unregulated Contaminants	5/27/2021
5180	1,2,3-Trichloropropane	EPA 524.2	10088809	Group II Unregulated Contaminants	2/7/2022
5155	1,2,4-Trichlorobenzene	EPA 524.2	10088809	Other Regulated Contaminants	4/20/2022
5210	1,2,4-Trimethylbenzene	EPA 524.2	10088809	Group II Unregulated Contaminants	2/26/2021
4570	1,2-Dibromo-3-chloropropane (DBCP)	EPA 504.1	10082801	Synthetic Organic Contaminants	6/25/2012
4585	1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 504.1	10082801	Synthetic Organic Contaminants	3/26/2024
4610	1,2-Dichlorobenzene	EPA 524.2	10088809	Other Regulated Contaminants	3/23/2012
4635	1,2-Dichloroethane	EPA 524.2	10088809	Other Regulated Contaminants	3/23/2012
4655	1,2-Dichloropropane	EPA 524.2	10088809	Other Regulated Contaminants	3/23/2012
5215	1,3,5-Trimethylbenzene	EPA 524.2	10088809	Group II Unregulated Contaminants	2/26/2021
4615	1,3-Dichlorobenzene	EPA 524.2	10088809	Group II Unregulated Contaminants	5/27/2021
4660	1,3-Dichloropropane	EPA 524.2	10088809	Group II Unregulated Contaminants	2/26/2021
4620	1,4-Dichlorobenzene	EPA 524.2	10088809	Other Regulated Contaminants	3/23/2012
4665	2,2-Dichloropropane	EPA 524.2	10088809	Group II Unregulated Contaminants	2/26/2021
4535	2-Chlorotoluene	EPA 524.2	10088809	Group II Unregulated Contaminants	6/22/2022
4540	4-Chlorotoluene	EPA 524.2	10088809	Group II Unregulated Contaminants	5/27/2021
4315	Acetone	EPA 524.2	10088809	Group II Unregulated Contaminants	2/26/2021
1505	Alkalinity as CaCO3	SM 2320 B	20045607	Primary Inorganic Contaminants	6/25/2012
1000	Aluminum	EPA 200.7	10013806	Secondary Inorganic Contaminants	3/22/2006
1005	Antimony	EPA 200.7	10013806	Secondary Inorganic Contaminants	8/5/2025
1010	Arsenic	EPA 200.7	10013806	Secondary Inorganic Contaminants	3/22/2006
1015	Barium	EPA 200.7	10013806	Primary Inorganic Contaminants	3/22/2006
4375	Benzene	EPA 524.2	10088809	Other Regulated Contaminants	3/23/2012
1020	Beryllium	EPA 200.7	10013806	Primary Inorganic Contaminants	6/25/2012
1025	Boron	EPA 200.7	10013806	Secondary Inorganic Contaminants	12/7/2010
4385	Bromobenzene	EPA 524.2	10088809	Group II Unregulated Contaminants	5/27/2021
4390	Bromochloromethane	EPA 524.2	10088809	Group II Unregulated Contaminants	2/26/2021
4395	Bromodichloromethane	EPA 524.2	10088809	Group II Unregulated Contaminants	3/23/2012
4400	Bromoform	EPA 524.2	10088809	Group II Unregulated Contaminants	3/23/2012

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

**Certification Type NELAP
Issue Date: 8/5/2025 Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535 EPA Lab Code: FL01281 (954) 889-2288

**E82535
Advanced Environmental Laboratories, Inc. - Miami
10200 USA Today Way
Miramar, FL 33025**

Matrix: Drinking Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
1030	Cadmium	EPA 200.7	10013806	Primary Inorganic Contaminants	3/22/2006
1035	Calcium	EPA 200.7	10013806	Primary Inorganic Contaminants	6/25/2012
4455	Carbon tetrachloride	EPA 524.2	10088809	Other Regulated Contaminants	3/8/2022
1575	Chloride	EPA 300.0	10053200	Secondary Inorganic Contaminants	12/7/2010
4475	Chlorobenzene	EPA 524.2	10088809	Other Regulated Contaminants	3/8/2022
4485	Chloroethane	EPA 524.2	10088809	Group II Unregulated Contaminants	2/26/2021
4505	Chloroform	EPA 524.2	10088809	Group II Unregulated Contaminants	3/23/2012
1040	Chromium	EPA 200.7	10013806	Primary Inorganic Contaminants	3/22/2006
1045	Chromium VI	SM 3500-Cr B (20th/21st/22nd Ed.)/UV-VIS	20066255	Secondary Inorganic Contaminants	8/5/2025
4645	cis-1,2-Dichloroethylene	EPA 524.2	10088809	Other Regulated Contaminants	3/23/2012
4680	cis-1,3-Dichloropropene	EPA 524.2	10088809	Group II Unregulated Contaminants	2/7/2022
1605	Color	SM 2120 B	20039309	Secondary Inorganic Contaminants	12/7/2010
1605	Color	SM 2120 C	20002000	Secondary Inorganic Contaminants	2/26/2021
1610	Conductivity	SM 2510 B	20048606	Primary Inorganic Contaminants	6/25/2012
1055	Copper	EPA 200.7	10013806	Secondary Inorganic Contaminants	3/23/2012
1620	Corrosivity (langlier index)	SM 2330 B	20003207	Secondary Inorganic Contaminants	6/25/2012
4575	Dibromochloromethane	EPA 524.2	10088809	Group II Unregulated Contaminants	3/23/2012
4595	Dibromomethane	EPA 524.2	10088809	Group II Unregulated Contaminants	2/26/2021
4625	Dichlorodifluoromethane	EPA 524.2	10088809	Group II Unregulated Contaminants	2/26/2021
2525	Escherichia coli	SM 9221 F (23rd Ed)-2014	20197448	Microbiology	3/23/2012
2525	Escherichia coli	SM 9223 B	20037676	Microbiology	10/14/2002
4765	Ethylbenzene	EPA 524.2	10088809	Other Regulated Contaminants	3/8/2022
1730	Fluoride	EPA 300.0	10053200	Primary Inorganic Contaminants	3/6/2002
1750	Hardness	SM 2340 B	20046600	Secondary Inorganic Contaminants	6/25/2012
2555	Heterotrophic plate count	SIMPLATE	60032602	Microbiology	8/5/2025
2555	Heterotrophic plate count	SM 9215 B	20179811	Microbiology	1/30/2023
4835	Hexachlorobutadiene	EPA 524.2	10088809	Group II Unregulated Contaminants	4/24/2023
1070	Iron	EPA 200.7	10013806	Secondary Inorganic Contaminants	3/22/2006
4900	Isopropylbenzene	EPA 524.2	10088809	Group II Unregulated Contaminants	2/26/2021
1080	Lithium	EPA 200.7	10013806	Secondary Inorganic Contaminants	8/5/2025
1085	Magnesium	EPA 200.7	10013806	Primary Inorganic Contaminants	6/25/2012
1090	Manganese	EPA 200.7	10013806	Secondary Inorganic Contaminants	3/22/2006
1095	Mercury	EPA 245.1	10036609	Primary Inorganic Contaminants	2/26/2021
4950	Methyl bromide (Bromomethane)	EPA 524.2	10088809	Group II Unregulated Contaminants	8/2/2024
4960	Methyl chloride (Chloromethane)	EPA 524.2	10088809	Group II Unregulated Contaminants	7/8/2022

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

**Certification Type NELAP
Issue Date: 8/5/2025 Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535 EPA Lab Code: FL01281 (954) 889-2288

**E82535
Advanced Environmental Laboratories, Inc. - Miami
10200 USA Today Way
Miramar, FL 33025**

Matrix: Drinking Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
5000	Methyl tert-butyl ether (MTBE)	EPA 524.2	10088809	Group II Unregulated Contaminants	2/26/2021
4975	Methylene chloride	EPA 524.2	10088809	Other Regulated Contaminants	7/29/2022
1100	Molybdenum	EPA 200.7	10013806	Secondary Inorganic Contaminants	12/7/2010
5005	Naphthalene	EPA 524.2	10088809	Group II Unregulated Contaminants	2/26/2021
4435	n-Butylbenzene	EPA 524.2	10088809	Group II Unregulated Contaminants	2/7/2022
1105	Nickel	EPA 200.7	10013806	Primary Inorganic Contaminants	3/22/2006
1805	Nitrate	EPA 300.0	10053200	Primary Inorganic Contaminants	3/6/2002
1835	Nitrite	EPA 300.0	10053200	Primary Inorganic Contaminants	5/15/2007
5090	n-Propylbenzene	EPA 524.2	10088809	Group II Unregulated Contaminants	2/26/2021
1855	Odor	SM 2150 B	20043805	Secondary Inorganic Contaminants	12/7/2010
1870	Orthophosphate as P	EPA 300.0	10053200	Primary Inorganic Contaminants	12/7/2010
1900	pH	SM 4500-H+-B	20105219	Primary Inorganic Contaminants	6/25/2012
4910	p-Isopropyltoluene	EPA 524.2	10088809	Group II Unregulated Contaminants	5/27/2021
1125	Potassium	EPA 200.7	10013806	Secondary Inorganic Contaminants	6/25/2012
1955	Residue-filterable (TDS)	SM 2540 C	20050402	Secondary Inorganic Contaminants	6/25/2012
4440	sec-Butylbenzene	EPA 524.2	10088809	Group II Unregulated Contaminants	2/26/2021
1990	Silica as SiO2	EPA 200.7	10013806	Primary Inorganic Contaminants	9/19/2022
1150	Silver	EPA 200.7	10013806	Secondary Inorganic Contaminants	6/25/2012
1155	Sodium	EPA 200.7	10013806	Primary Inorganic Contaminants	6/25/2012
5100	Styrene	EPA 524.2	10088809	Other Regulated Contaminants	3/23/2012
2000	Sulfate	EPA 300.0	10053200	Primary Inorganic Contaminants	3/6/2002
4445	tert-Butylbenzene	EPA 524.2	10088809	Group II Unregulated Contaminants	5/27/2021
5115	Tetrachloroethylene (Perchloroethylene)	EPA 524.2	10088809	Other Regulated Contaminants	3/23/2012
5140	Toluene	EPA 524.2	10088809	Other Regulated Contaminants	3/23/2012
2500	Total coliforms	SM 9222 B	20203401	Microbiology	8/20/2009
2500	Total coliforms	SM 9223 B	20037676	Microbiology	10/14/2002
1825	Total nitrate-nitrite	EPA 300.0	10053200	Primary Inorganic Contaminants	3/6/2002
5205	Total trihalomethanes	EPA 524.2	10088809	Other Regulated Contaminants	3/23/2012
4700	trans-1,2-Dichloroethylene	EPA 524.2	10088809	Other Regulated Contaminants	3/8/2022
4685	trans-1,3-Dichloropropene	EPA 524.2	10088809	Group II Unregulated Contaminants	2/26/2021
5170	Trichloroethene (Trichloroethylene)	EPA 524.2	10088809	Other Regulated Contaminants	4/20/2022
5175	Trichlorofluoromethane	EPA 524.2	10088809	Group II Unregulated Contaminants	4/20/2022
2055	Turbidity	EPA 180.1	10011800	Secondary Inorganic Contaminants	2/18/2005
2055	Turbidity	SM 2130 B	20048219	Secondary Inorganic Contaminants	6/25/2012
1185	Vanadium	EPA 200.7	10013806	Secondary Inorganic Contaminants	12/7/2010
5235	Vinyl chloride	EPA 524.2	10088809	Other Regulated Contaminants	3/23/2012

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

**Certification Type NELAP
Issue Date: 8/5/2025 Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535 EPA Lab Code: FL01281 (954) 889-2288

**E82535
Advanced Environmental Laboratories, Inc. - Miami
10200 USA Today Way
Miramar, FL 33025**

Matrix: Drinking Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
5260	Xylene (total)	EPA 524.2	10088809	Other Regulated Contaminants	6/13/2022
1190	Zinc	EPA 200.7	10013806	Secondary Inorganic Contaminants	12/7/2010



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535 EPA Lab Code: FL01281 (954) 889-2288

**E82535
Advanced Environmental Laboratories, Inc. - Miami
10200 USA Today Way
Miramar, FL 33025**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
5105	1,1,1,2-Tetrachloroethane	EPA 624.1	10298121	Volatile Organics	4/24/2023
5105	1,1,1,2-Tetrachloroethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
5160	1,1,1-Trichloroethane	EPA 624.1	10298121	Volatile Organics	1/22/2018
5160	1,1,1-Trichloroethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
5110	1,1,2,2-Tetrachloroethane	EPA 624.1	10298121	Volatile Organics	1/22/2018
5110	1,1,2,2-Tetrachloroethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
5185	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	10307127	Volatile Organics	3/3/2023
5165	1,1,2-Trichloroethane	EPA 624.1	10298121	Volatile Organics	1/22/2018
5165	1,1,2-Trichloroethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
4630	1,1-Dichloroethane	EPA 624.1	10298121	Volatile Organics	1/22/2018
4630	1,1-Dichloroethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
4640	1,1-Dichloroethylene	EPA 624.1	10298121	Volatile Organics	1/22/2018
4640	1,1-Dichloroethylene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4670	1,1-Dichloropropene	EPA 8260D	10307127	Volatile Organics	3/3/2023
5150	1,2,3-Trichlorobenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
5180	1,2,3-Trichloropropane	EPA 8260D	10307127	Volatile Organics	3/3/2023
6715	1,2,4,5-Tetrachlorobenzene	EPA 8270E	10242543	Extractable Organics	3/3/2023
5155	1,2,4-Trichlorobenzene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5155	1,2,4-Trichlorobenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
5155	1,2,4-Trichlorobenzene	EPA 8270E	10242543	Extractable Organics	3/3/2023
5210	1,2,4-Trimethylbenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4570	1,2-Dibromo-3-chloropropane (DBCP)	EPA 8011	10173009	Volatile Organics	6/25/2012
4570	1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	10307127	Volatile Organics	3/3/2023
4585	1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8011	10173009	Volatile Organics	6/25/2012
4585	1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	10307127	Volatile Organics	3/3/2023
4610	1,2-Dichlorobenzene	EPA 624.1	10298121	Volatile Organics	1/22/2018
4610	1,2-Dichlorobenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4610	1,2-Dichlorobenzene	EPA 8270E	10242543	Extractable Organics	3/3/2023
4635	1,2-Dichloroethane	EPA 624.1	10298121	Volatile Organics	1/22/2018
4635	1,2-Dichloroethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
4655	1,2-Dichloropropane	EPA 624.1	10298121	Volatile Organics	1/22/2018
4655	1,2-Dichloropropane	EPA 8260D	10307127	Volatile Organics	3/3/2023
6220	1,2-Diphenylhydrazine	EPA 8270E	10242543	Extractable Organics	3/3/2023
6411	1,2-Diphenylhydrazine (as Azobenzene)	EPA 625.1	10300024	Extractable Organics	1/16/2019
5215	1,3,5-Trimethylbenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

**Certification Type NELAP
Issue Date: 8/5/2025 Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535 EPA Lab Code: FL01281 (954) 889-2288

**E82535
Advanced Environmental Laboratories, Inc. - Miami
10200 USA Today Way
Miramar, FL 33025**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
4615	1,3-Dichlorobenzene	EPA 624.1	10298121	Volatile Organics	1/22/2018
4615	1,3-Dichlorobenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4615	1,3-Dichlorobenzene	EPA 8270E	10242543	Extractable Organics	3/3/2023
4660	1,3-Dichloropropane	EPA 8260D	10307127	Volatile Organics	3/3/2023
6160	1,3-Dinitrobenzene (1,3-DNB)	EPA 8270E	10242543	Extractable Organics	3/3/2023
4620	1,4-Dichlorobenzene	EPA 624.1	10298121	Volatile Organics	1/22/2018
4620	1,4-Dichlorobenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4620	1,4-Dichlorobenzene	EPA 8270E	10242543	Extractable Organics	3/3/2023
4735	1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8260D	10307127	Volatile Organics	3/3/2023
6420	1,4-Naphthoquinone	EPA 8270E	10242543	Extractable Organics	3/3/2023
6630	1,4-Phenylenediamine	EPA 8270E	10242543	Extractable Organics	3/3/2023
5790	1-Chloronaphthalene	EPA 8270E	10242543	Extractable Organics	3/3/2023
6380	1-Methylnaphthalene	EPA 625.1	10300024	Extractable Organics	2/26/2021
6380	1-Methylnaphthalene	EPA 8270E	10242543	Extractable Organics	3/3/2023
6425	1-Naphthylamine	EPA 8270E	10242543	Extractable Organics	3/3/2023
4665	2,2-Dichloropropane	EPA 8260D	10307127	Volatile Organics	3/3/2023
4659	2,2'-Oxybis(1-chloropropane).bis(2-Chloro-1-methylethyl)ether (fka bis(2-Chloroisopropyl) ether	EPA 625.1	10300024	Extractable Organics	1/22/2018
4659	2,2'-Oxybis(1-chloropropane).bis(2-Chloro-1-methylethyl)ether (fka bis(2-Chloroisopropyl) ether	EPA 8270E	10242543	Extractable Organics	3/3/2023
6735	2,3,4,6-Tetrachlorophenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
9363	2,3-Dichloroaniline	EPA 625.1	10300024	Extractable Organics	1/22/2018
6835	2,4,5-Trichlorophenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
6840	2,4,6-Trichlorophenol	EPA 625.1	10300024	Extractable Organics	1/22/2018
6840	2,4,6-Trichlorophenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
6000	2,4-Dichlorophenol	EPA 625.1	10300024	Extractable Organics	1/22/2018
6000	2,4-Dichlorophenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
6130	2,4-Dimethylphenol	EPA 625.1	10300024	Extractable Organics	1/22/2018
6130	2,4-Dimethylphenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
6175	2,4-Dinitrophenol	EPA 625.1	10300024	Extractable Organics	1/22/2018
6175	2,4-Dinitrophenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
6185	2,4-Dinitrotoluene (2,4-DNT)	EPA 625.1	10300024	Extractable Organics	1/22/2018
6185	2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	10242543	Extractable Organics	3/3/2023
6005	2,6-Dichlorophenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
6190	2,6-Dinitrotoluene (2,6-DNT)	EPA 625.1	10300024	Extractable Organics	1/22/2018
6190	2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	10242543	Extractable Organics	3/3/2023

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

**Certification Type NELAP
Issue Date: 8/5/2025 Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535 EPA Lab Code: FL01281 (954) 889-2288

**E82535
Advanced Environmental Laboratories, Inc. - Miami
10200 USA Today Way
Miramar, FL 33025**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
5515	2-Acetylaminofluorene	EPA 8270E	10242543	Extractable Organics	3/3/2023
4410	2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	10307127	Volatile Organics	3/3/2023
4500	2-Chloroethyl vinyl ether	EPA 624.1	10298121	Volatile Organics	1/22/2018
4500	2-Chloroethyl vinyl ether	EPA 8260D	10307127	Volatile Organics	3/3/2023
5795	2-Chloronaphthalene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5795	2-Chloronaphthalene	EPA 8270E	10242543	Extractable Organics	3/3/2023
5800	2-Chlorophenol	EPA 625.1	10300024	Extractable Organics	1/22/2018
5800	2-Chlorophenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
4535	2-Chlorotoluene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4860	2-Hexanone	EPA 8260D	10307127	Volatile Organics	3/3/2023
6360	2-Methyl-4,6-dinitrophenol	EPA 625.1	10300024	Extractable Organics	1/22/2018
6360	2-Methyl-4,6-dinitrophenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
6385	2-Methylnaphthalene	EPA 625.1	10300024	Extractable Organics	4/24/2023
6385	2-Methylnaphthalene	EPA 8270E	10242543	Extractable Organics	3/3/2023
6400	2-Methylphenol (o-Cresol)	EPA 625.1	10300024	Extractable Organics	1/22/2018
6400	2-Methylphenol (o-Cresol)	EPA 8270E	10242543	Extractable Organics	3/3/2023
6430	2-Naphthylamine	EPA 8270E	10242543	Extractable Organics	3/3/2023
6460	2-Nitroaniline	EPA 8270E	10242543	Extractable Organics	3/3/2023
6490	2-Nitrophenol	EPA 625.1	10300024	Extractable Organics	1/22/2018
6490	2-Nitrophenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
5020	2-Nitropropane	EPA 8260D	10307127	Volatile Organics	3/3/2023
5050	2-Picoline (2-Methylpyridine)	EPA 8270E	10242543	Extractable Organics	3/3/2023
5945	3,3'-Dichlorobenzidine	EPA 625.1	10300024	Extractable Organics	1/22/2018
5945	3,3'-Dichlorobenzidine	EPA 8270E	10242543	Extractable Organics	3/3/2023
6120	3,3'-Dimethylbenzidine	EPA 8270E	10242543	Extractable Organics	3/3/2023
6412	3/4-Methylphenols (m/p-Cresols)	EPA 8270E	10242543	Extractable Organics	3/3/2023
6355	3-Methylcholanthrene	EPA 8270E	10242543	Extractable Organics	3/3/2023
6465	3-Nitroaniline	EPA 8270E	10242543	Extractable Organics	3/3/2023
7355	4,4'-DDD	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	7/28/2021
7355	4,4'-DDD	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
7360	4,4'-DDE	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	8/8/2022
7360	4,4'-DDE	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
7365	4,4'-DDT	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	8/8/2022
7365	4,4'-DDT	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
5540	4-Aminobiphenyl	EPA 8270E	10242543	Extractable Organics	3/3/2023
5660	4-Bromophenyl phenyl ether	EPA 625.1	10300024	Extractable Organics	1/22/2018

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

**Certification Type NELAP
Issue Date: 8/5/2025 Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535

EPA Lab Code:

FL01281

(954) 889-2288

E82535

Advanced Environmental Laboratories, Inc. - Miami

10200 USA Today Way

Miramar, FL 33025

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
5660	4-Bromophenyl phenyl ether	EPA 8270E	10242543	Extractable Organics	3/3/2023
5700	4-Chloro-3-methylphenol	EPA 625.1	10300024	Extractable Organics	1/22/2018
5700	4-Chloro-3-methylphenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
5745	4-Chloroaniline	EPA 8270E	10242543	Extractable Organics	3/3/2023
5825	4-Chlorophenyl phenylether	EPA 625.1	10300024	Extractable Organics	1/22/2018
5825	4-Chlorophenyl phenylether	EPA 8270E	10242543	Extractable Organics	3/3/2023
4540	4-Chlorotoluene	EPA 8260D	10307127	Volatile Organics	3/3/2023
6105	4-Dimethyl aminoazobenzene	EPA 8270E	10242543	Extractable Organics	3/3/2023
4995	4-Methyl-2-pentanone (MIBK)	EPA 8260D	10307127	Volatile Organics	3/3/2023
6410	4-Methylphenol (p-Cresol)	EPA 625.1	10300024	Extractable Organics	7/26/2024
6470	4-Nitroaniline	EPA 8270E	10242543	Extractable Organics	3/3/2023
6500	4-Nitrophenol	EPA 625.1	10300024	Extractable Organics	1/22/2018
6500	4-Nitrophenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
6510	4-Nitroquinoline 1-oxide	EPA 8270E	10242543	Extractable Organics	3/3/2023
6570	5-Nitro-o-toluidine	EPA 8270E	10242543	Extractable Organics	3/3/2023
6115	7,12-Dimethylbenz(a) anthracene	EPA 8270E	10242543	Extractable Organics	3/3/2023
6125	a,a-Dimethylphenethylamine	EPA 8270E	10242543	Extractable Organics	3/3/2023
5500	Acenaphthene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5500	Acenaphthene	EPA 8270E	10242543	Extractable Organics	3/3/2023
5505	Acenaphthylene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5505	Acenaphthylene	EPA 8270E	10242543	Extractable Organics	3/3/2023
4315	Acetone	EPA 624.1	10298121	Volatile Organics	4/24/2023
4315	Acetone	EPA 8260D	10307127	Volatile Organics	3/3/2023
4320	Acetonitrile	EPA 8260D	10307127	Volatile Organics	3/3/2023
5510	Acetophenone	EPA 625.1	10300024	Extractable Organics	2/26/2021
5510	Acetophenone	EPA 8270E	10242543	Extractable Organics	3/3/2023
4325	Acrolein (Propenal)	EPA 624.1	10298121	Volatile Organics	1/22/2018
4325	Acrolein (Propenal)	EPA 8260D	10307127	Volatile Organics	3/3/2023
4340	Acrylonitrile	EPA 624.1	10298121	Volatile Organics	1/22/2018
4340	Acrylonitrile	EPA 8260D	10307127	Volatile Organics	3/3/2023
7025	Aldrin	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	8/8/2022
7025	Aldrin	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
1505	Alkalinity as CaCO3	EPA 310.1	10054805	General Chemistry	3/6/2002
1505	Alkalinity as CaCO3	SM 2320 B-2011	20045618	General Chemistry	7/19/2022
4355	Allyl chloride (3-Chloropropene)	EPA 8260D	10307127	Volatile Organics	3/3/2023
7110	alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	1/22/2018

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type: NELAP
Issue Date: 8/5/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535 EPA Lab Code: FL01281 (954) 889-2288

**E82535
Advanced Environmental Laboratories, Inc. - Miami
10200 USA Today Way
Miramar, FL 33025**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
7110	alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
7240	alpha-Chlordane	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
6700	alpha-Terpineol	EPA 625.1	10300024	Extractable Organics	1/22/2018
1000	Aluminum	EPA 200.7	10013806	Metals	2/18/2005
1000	Aluminum	EPA 6010D	10155950	Metals	3/3/2023
1515	Ammonia as N	EPA 350.1	10063602	General Chemistry	6/25/2012
5545	Aniline	EPA 625.1	10300024	Extractable Organics	2/26/2021
5545	Aniline	EPA 8270E	10242543	Extractable Organics	3/3/2023
5555	Anthracene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5555	Anthracene	EPA 8270E	10242543	Extractable Organics	3/3/2023
1005	Antimony	EPA 200.7	10013806	Metals	2/18/2005
1005	Antimony	EPA 6010D	10155950	Metals	3/3/2023
5560	Aramite	EPA 8270E	10242543	Extractable Organics	3/3/2023
8880	Aroclor-1016 (PCB-1016)	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	12/28/2022
8880	Aroclor-1016 (PCB-1016)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	3/3/2023
8885	Aroclor-1221 (PCB-1221)	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	12/28/2022
8885	Aroclor-1221 (PCB-1221)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	3/3/2023
8890	Aroclor-1232 (PCB-1232)	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	12/28/2022
8890	Aroclor-1232 (PCB-1232)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	3/3/2023
8895	Aroclor-1242 (PCB-1242)	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	12/28/2022
8895	Aroclor-1242 (PCB-1242)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	3/3/2023
8900	Aroclor-1248 (PCB-1248)	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	12/28/2022
8900	Aroclor-1248 (PCB-1248)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	3/3/2023
8905	Aroclor-1254 (PCB-1254)	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	12/28/2022
8905	Aroclor-1254 (PCB-1254)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	3/3/2023
8910	Aroclor-1260 (PCB-1260)	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	12/28/2022
8910	Aroclor-1260 (PCB-1260)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	3/3/2023
1010	Arsenic	EPA 200.7	10013806	Metals	2/18/2005
1010	Arsenic	EPA 6010D	10155950	Metals	3/3/2023
1015	Barium	EPA 200.7	10013806	Metals	2/18/2005
1015	Barium	EPA 6010D	10155950	Metals	3/3/2023
5570	Benzaldehyde	EPA 8270E	10242543	Extractable Organics	3/3/2023
4375	Benzene	EPA 624.1	10298121	Volatile Organics	1/22/2018
4375	Benzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
5595	Benzidine	EPA 625.1	10300024	Extractable Organics	1/22/2018
5595	Benzidine	EPA 8270E	10242543	Extractable Organics	3/3/2023

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

**Certification Type NELAP
Issue Date: 8/5/2025 Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535

EPA Lab Code: FL01281

(954) 889-2288

E82535

**Advanced Environmental Laboratories, Inc. - Miami
10200 USA Today Way
Miramar, FL 33025**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
5575	Benzo(a)anthracene	EPA 625.1	10300024	Extractable Organics	8/23/2022
5575	Benzo(a)anthracene	EPA 8270E	10242543	Extractable Organics	3/3/2023
5580	Benzo(a)pyrene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5580	Benzo(a)pyrene	EPA 8270E	10242543	Extractable Organics	3/3/2023
5585	Benzo(b)fluoranthene	EPA 625.1	10300024	Extractable Organics	7/21/2022
5585	Benzo(b)fluoranthene	EPA 8270E	10242543	Extractable Organics	3/3/2023
5590	Benzo(g,h,i)perylene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5590	Benzo(g,h,i)perylene	EPA 8270E	10242543	Extractable Organics	3/3/2023
5600	Benzo(k)fluoranthene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5600	Benzo(k)fluoranthene	EPA 8270E	10242543	Extractable Organics	3/3/2023
5610	Benzoic acid	EPA 625.1	10300024	Extractable Organics	4/24/2023
5610	Benzoic acid	EPA 8270E	10242543	Extractable Organics	3/3/2023
5630	Benzyl alcohol	EPA 8270E	10242543	Extractable Organics	3/3/2023
1020	Beryllium	EPA 200.7	10013806	Metals	2/18/2005
1020	Beryllium	EPA 6010D	10155950	Metals	3/3/2023
7115	beta-BHC (beta-Hexachlorocyclohexane)	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	1/22/2018
7115	beta-BHC (beta-Hexachlorocyclohexane)	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
1530	Biochemical oxygen demand	EPA 405.1	10075602	General Chemistry	3/6/2002
1530	Biochemical oxygen demand	SM 5210 B-2016	20135039	General Chemistry	7/19/2022
6703	Biphenyl (1,1-Biphenyl, BZ 0)	EPA 8270E	10242543	Extractable Organics	3/3/2023
5760	bis(2-Chloroethoxy)methane	EPA 625.1	10300024	Extractable Organics	1/22/2018
5760	bis(2-Chloroethoxy)methane	EPA 8270E	10242543	Extractable Organics	3/3/2023
5765	bis(2-Chloroethyl) ether	EPA 625.1	10300024	Extractable Organics	1/22/2018
5765	bis(2-Chloroethyl) ether	EPA 8270E	10242543	Extractable Organics	3/3/2023
1025	Boron	EPA 200.7	10013806	Metals	2/18/2005
1025	Boron	EPA 6010D	10155950	Metals	3/3/2023
4385	Bromobenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4390	Bromochloromethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
4395	Bromodichloromethane	EPA 624.1	10298121	Volatile Organics	1/22/2018
4395	Bromodichloromethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
4400	Bromoform	EPA 624.1	10298121	Volatile Organics	1/22/2018
4400	Bromoform	EPA 8260D	10307127	Volatile Organics	3/3/2023
5670	Butyl benzyl phthalate	EPA 625.1	10300024	Extractable Organics	8/13/2021
5670	Butyl benzyl phthalate	EPA 8270E	10242543	Extractable Organics	3/3/2023
1030	Cadmium	EPA 200.7	10013806	Metals	3/22/2006
1030	Cadmium	EPA 6010D	10155950	Metals	3/3/2023

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type: NELAP
Issue Date: 8/5/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535 EPA Lab Code: FL01281 (954) 889-2288

**E82535
Advanced Environmental Laboratories, Inc. - Miami
10200 USA Today Way
Miramar, FL 33025**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
1035	Calcium	EPA 200.7	10013806	Metals	3/22/2006
1035	Calcium	EPA 6010D	10155950	Metals	3/3/2023
7180	Caprolactam	EPA 8270E	10242543	Extractable Organics	3/3/2023
5680	Carbazole	EPA 625.1	10300024	Extractable Organics	1/22/2018
5680	Carbazole	EPA 8270E	10242543	Extractable Organics	3/3/2023
4450	Carbon disulfide	EPA 8260D	10307127	Volatile Organics	3/3/2023
4455	Carbon tetrachloride	EPA 624.1	10298121	Volatile Organics	1/22/2018
4455	Carbon tetrachloride	EPA 8260D	10307127	Volatile Organics	3/3/2023
1555	Carbonaceous BOD (CBOD)	SM 5210 B-2016	20135039	General Chemistry	7/19/2022
1565	Chemical oxygen demand	EPA 410.4	10077404	General Chemistry	6/25/2012
7250	Chlordane (tech.)	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	1/22/2018
7250	Chlordane (tech.)	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
1575	Chloride	EPA 300.0	10053200	General Chemistry	3/6/2002
1575	Chloride	EPA 9056A	10199607	General Chemistry	3/3/2023
4475	Chlorobenzene	EPA 624.1	10298121	Volatile Organics	1/22/2018
4475	Chlorobenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
7260	Chlorobenzilate	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	3/3/2023
4485	Chloroethane	EPA 624.1	10298121	Volatile Organics	1/22/2018
4485	Chloroethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
4505	Chloroform	EPA 624.1	10298121	Volatile Organics	1/22/2018
4505	Chloroform	EPA 8260D	10307127	Volatile Organics	3/3/2023
4525	Chloroprene	EPA 8260D	10307127	Volatile Organics	3/3/2023
1040	Chromium	EPA 200.7	10013806	Metals	2/18/2005
1040	Chromium	EPA 6010D	10155950	Metals	3/3/2023
1045	Chromium VI	SM 3500-Cr B (20th/21st/22nd Ed.)/UV-VIS	20066255	General Chemistry	8/5/2025
5855	Chrysene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5855	Chrysene	EPA 8270E	10242543	Extractable Organics	3/3/2023
4645	cis-1,2-Dichloroethylene	EPA 624.1	10298121	Volatile Organics	4/24/2023
4645	cis-1,2-Dichloroethylene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4680	cis-1,3-Dichloropropene	EPA 624.1	10298121	Volatile Organics	1/22/2018
4680	cis-1,3-Dichloropropene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4600	cis-1,4-Dichloro-2-butene	EPA 8260D	10307127	Volatile Organics	3/3/2023
1050	Cobalt	EPA 200.7	10013806	Metals	4/7/2005
1050	Cobalt	EPA 6010D	10155950	Metals	3/3/2023
1605	Color	SM 2120 B-2011	20039310	General Chemistry	7/19/2022

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**Certification Type NELAP
Issue Date: 8/5/2025 Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535

EPA Lab Code: FL01281

(954) 889-2288

E82535

Advanced Environmental Laboratories, Inc. - Miami

10200 USA Today Way

Miramar, FL 33025

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
1605	Color	SM 2120 C	20002000	General Chemistry	2/26/2021
1610	Conductivity	SM 2510 B-2011	20048617	General Chemistry	7/19/2022
1055	Copper	EPA 200.7	10013806	Metals	3/22/2006
1055	Copper	EPA 6010D	10155950	Metals	3/3/2023
1620	Corrosivity (langlier index)	SM 2330 B	20003207	General Chemistry	6/25/2012
4555	Cyclohexane	EPA 8260D	10307127	Volatile Organics	3/3/2023
4560	Cyclohexanone	EPA 8260D	10307127	Volatile Organics	3/3/2023
7105	delta-BHC	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	1/22/2018
7105	delta-BHC	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
6065	Di(2-ethylhexyl) phthalate (DEHP)	EPA 625.1	10300024	Extractable Organics	1/22/2018
6065	Di(2-ethylhexyl) phthalate (DEHP)	EPA 8270E	10242543	Extractable Organics	3/3/2023
7405	Diallate	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	3/3/2023
5895	Dibenz(a,h)anthracene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5895	Dibenz(a,h)anthracene	EPA 8270E	10242543	Extractable Organics	3/3/2023
5900	Dibenz(a,j)acridine	EPA 8270E	10242543	Extractable Organics	3/3/2023
5905	Dibenzofuran	EPA 8270E	10242543	Extractable Organics	3/3/2023
4575	Dibromochloromethane	EPA 624.1	10298121	Volatile Organics	1/22/2018
4575	Dibromochloromethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
4595	Dibromomethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
4625	Dichlorodifluoromethane	EPA 624.1	10298121	Volatile Organics	4/24/2023
4625	Dichlorodifluoromethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
7470	Dieldrin	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	8/8/2022
7470	Dieldrin	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
4725	Diethyl ether	EPA 8260D	10307127	Volatile Organics	3/3/2023
6070	Diethyl phthalate	EPA 625.1	10300024	Extractable Organics	8/13/2021
6070	Diethyl phthalate	EPA 8270E	10242543	Extractable Organics	3/3/2023
9375	Di-isopropylether (DIPE)	EPA 8260D	10307127	Volatile Organics	3/3/2023
6135	Dimethyl phthalate	EPA 625.1	10300024	Extractable Organics	7/12/2021
6135	Dimethyl phthalate	EPA 8270E	10242543	Extractable Organics	3/3/2023
5925	Di-n-butyl phthalate	EPA 625.1	10300024	Extractable Organics	1/22/2018
5925	Di-n-butyl phthalate	EPA 8270E	10242543	Extractable Organics	3/3/2023
6200	Di-n-octyl phthalate	EPA 625.1	10300024	Extractable Organics	1/22/2018
6200	Di-n-octyl phthalate	EPA 8270E	10242543	Extractable Organics	3/3/2023
6205	Diphenylamine	EPA 8270E	10242543	Extractable Organics	3/3/2023
7510	Endosulfan I	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	8/8/2022
7510	Endosulfan I	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type: NELAP
Issue Date: 8/5/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535 EPA Lab Code: FL01281 (954) 889-2288

**E82535
Advanced Environmental Laboratories, Inc. - Miami
10200 USA Today Way
Miramar, FL 33025**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
7515	Endosulfan II	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	1/22/2018
7515	Endosulfan II	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
7520	Endosulfan sulfate	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	1/22/2018
7520	Endosulfan sulfate	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
7540	Endrin	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	8/8/2022
7540	Endrin	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
7530	Endrin aldehyde	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	1/22/2018
7530	Endrin aldehyde	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
7535	Endrin ketone	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
2520	Enterococci	ENTEROLERT / QUANTI-TRAY	60030208	Microbiology	5/27/2021
2520	Enterococci	SM 9230 D-2013	20219696	Microbiology	7/19/2022
2525	Escherichia coli	SM 9223 B-2016 (Colilert-18 QT)	20213632	Microbiology	7/19/2022
4750	Ethanol	EPA 624.1	10298121	Volatile Organics	4/24/2023
4750	Ethanol	EPA 8260D	10307127	Volatile Organics	3/3/2023
4755	Ethyl acetate	EPA 8260D	10307127	Volatile Organics	3/3/2023
4810	Ethyl methacrylate	EPA 8260D	10307127	Volatile Organics	3/3/2023
6260	Ethyl methanesulfonate	EPA 8270E	10242543	Extractable Organics	3/3/2023
4765	Ethylbenzene	EPA 624.1	10298121	Volatile Organics	1/22/2018
4765	Ethylbenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4770	Ethyl-t-butylether (ETBE)	EPA 8260D	10307127	Volatile Organics	3/3/2023
2530	Fecal coliforms	COLILERT®-18 (Fecal Coliforms)	60002688	Microbiology	5/27/2021
2530	Fecal coliforms	SM 9221 E-2014	20227263	Microbiology	7/19/2022
2530	Fecal coliforms	SM 9222 D-2015	20210020	Microbiology	7/19/2022
6265	Fluoranthene	EPA 625.1	10300024	Extractable Organics	7/21/2022
6265	Fluoranthene	EPA 8270E	10242543	Extractable Organics	3/3/2023
6270	Fluorene	EPA 625.1	10300024	Extractable Organics	7/21/2022
6270	Fluorene	EPA 8270E	10242543	Extractable Organics	3/3/2023
1730	Fluoride	EPA 300.0	10053200	General Chemistry	10/27/2009
1730	Fluoride	EPA 9056A	10199607	General Chemistry	3/3/2023
7120	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	1/22/2018
7120	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
7245	gamma-Chlordane	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
1750	Hardness	SM 2340 B-2011	20046611	General Chemistry	7/19/2022
1760	Hardness (calc.)	EPA 200.7	10013806	General Chemistry	12/7/2010

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**Certification Type NELAP
Issue Date: 8/5/2025 Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535 EPA Lab Code: FL01281 (954) 889-2288

**E82535
Advanced Environmental Laboratories, Inc. - Miami
10200 USA Today Way
Miramar, FL 33025**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
7685	Heptachlor	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	8/8/2022
7685	Heptachlor	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
7690	Heptachlor epoxide	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	8/8/2022
7690	Heptachlor epoxide	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
2555	Heterotrophic plate count	SIMPLATE	60032602	Microbiology	8/5/2025
2555	Heterotrophic plate count	SM 9215 B	20179811	Microbiology	6/25/2012
6275	Hexachlorobenzene	EPA 625.1	10300024	Extractable Organics	3/9/2022
6275	Hexachlorobenzene	EPA 8270E	10242543	Extractable Organics	3/3/2023
4835	Hexachlorobutadiene	EPA 624.1	10298121	Volatile Organics	4/24/2023
4835	Hexachlorobutadiene	EPA 625.1	10300024	Extractable Organics	1/22/2018
4835	Hexachlorobutadiene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4835	Hexachlorobutadiene	EPA 8270E	10242543	Extractable Organics	3/3/2023
6285	Hexachlorocyclopentadiene	EPA 625.1	10300024	Extractable Organics	1/22/2018
6285	Hexachlorocyclopentadiene	EPA 8270E	10242543	Extractable Organics	3/3/2023
4840	Hexachloroethane	EPA 625.1	10300024	Extractable Organics	1/22/2018
4840	Hexachloroethane	EPA 8270E	10242543	Extractable Organics	3/3/2023
6290	Hexachlorophene	EPA 8270E	10242543	Extractable Organics	3/3/2023
6295	Hexachloropropene	EPA 8270E	10242543	Extractable Organics	3/3/2023
6315	Indeno(1,2,3-cd)pyrene	EPA 625.1	10300024	Extractable Organics	1/22/2018
6315	Indeno(1,2,3-cd)pyrene	EPA 8270E	10242543	Extractable Organics	3/3/2023
4870	Iodomethane (Methyl iodide)	EPA 8260D	10307127	Volatile Organics	3/3/2023
1070	Iron	EPA 200.7	10013806	Metals	2/18/2005
1070	Iron	EPA 6010D	10155950	Metals	3/3/2023
4875	Isobutyl alcohol (2-Methyl-1-propanol)	EPA 8260D	10307127	Volatile Organics	3/3/2023
7725	Isodrin	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	3/3/2023
6320	Isophorone	EPA 625.1	10300024	Extractable Organics	1/22/2018
6320	Isophorone	EPA 8270E	10242543	Extractable Organics	3/3/2023
4890	Isopropyl acetate	EPA 8260D	10307127	Volatile Organics	3/3/2023
4895	Isopropyl alcohol (2-Propanol)	EPA 624.1	10298121	Volatile Organics	4/24/2023
4895	Isopropyl alcohol (2-Propanol)	EPA 8260D	10307127	Volatile Organics	3/3/2023
4900	Isopropylbenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
6325	Isosafrole	EPA 8270E	10242543	Extractable Organics	3/3/2023
7740	Kepone	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	3/3/2023
1795	Kjeldahl nitrogen - total	EPA 351.2	10065404	General Chemistry	6/25/2012
1075	Lead	EPA 200.7	10013806	Metals	2/18/2005
1075	Lead	EPA 6010D	10155950	Metals	3/3/2023

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**Certification Type NELAP
Issue Date: 8/5/2025 Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535 EPA Lab Code: FL01281 (954) 889-2288

**E82535
Advanced Environmental Laboratories, Inc. - Miami
10200 USA Today Way
Miramar, FL 33025**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
1080	Lithium	EPA 200.7	10013806	Metals	2/26/2021
1080	Lithium	EPA 6010D	10155950	Metals	3/3/2023
5240	m+p-Xylenes	EPA 624.1	10298121	Volatile Organics	1/22/2018
5240	m+p-Xylenes	EPA 8260D	10307127	Volatile Organics	3/3/2023
1085	Magnesium	EPA 200.7	10013806	Metals	3/22/2006
1085	Magnesium	EPA 6010D	10155950	Metals	3/3/2023
1090	Manganese	EPA 200.7	10013806	Metals	4/7/2005
1090	Manganese	EPA 6010D	10155950	Metals	3/3/2023
1095	Mercury	EPA 245.1	10036609	Metals	2/26/2021
1095	Mercury	EPA 7470A	10165807	Metals	3/3/2023
4925	Methacrylonitrile	EPA 8260D	10307127	Volatile Organics	3/3/2023
7810	Methoxychlor	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	8/8/2022
7810	Methoxychlor	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
4940	Methyl acetate	EPA 8260D	10307127	Volatile Organics	3/3/2023
4950	Methyl bromide (Bromomethane)	EPA 624.1	10298121	Volatile Organics	1/22/2018
4950	Methyl bromide (Bromomethane)	EPA 8260D	10307127	Volatile Organics	3/3/2023
4960	Methyl chloride (Chloromethane)	EPA 624.1	10298121	Volatile Organics	1/22/2018
4960	Methyl chloride (Chloromethane)	EPA 8260D	10307127	Volatile Organics	3/3/2023
4990	Methyl methacrylate	EPA 8260D	10307127	Volatile Organics	3/3/2023
6375	Methyl methanesulfonate	EPA 8270E	10242543	Extractable Organics	3/3/2023
5000	Methyl tert-butyl ether (MTBE)	EPA 624.1	10298121	Volatile Organics	1/22/2018
5000	Methyl tert-butyl ether (MTBE)	EPA 8260D	10307127	Volatile Organics	3/3/2023
4965	Methylcyclohexane	EPA 8260D	10307127	Volatile Organics	3/3/2023
4975	Methylene chloride	EPA 624.1	10298121	Volatile Organics	1/22/2018
4975	Methylene chloride	EPA 8260D	10307127	Volatile Organics	3/3/2023
1100	Molybdenum	EPA 200.7	10013806	Metals	2/18/2005
1100	Molybdenum	EPA 6010D	10155950	Metals	3/3/2023
5245	m-Xylene	EPA 624.1	10298121	Volatile Organics	1/22/2018
4360	n-Amyl acetate	EPA 8260D	10307127	Volatile Organics	3/3/2023
5005	Naphthalene	EPA 624.1	10298121	Volatile Organics	1/22/2018
5005	Naphthalene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5005	Naphthalene	EPA 8260D	10307127	Volatile Organics	3/3/2023
5005	Naphthalene	EPA 8270E	10242543	Extractable Organics	3/3/2023
4435	n-Butylbenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
5875	n-Decane	EPA 625.1	10300024	Extractable Organics	1/22/2018
1105	Nickel	EPA 200.7	10013806	Metals	2/18/2005

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**Certification Type NELAP
Issue Date: 8/5/2025 Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535

EPA Lab Code: FL01281

(954) 889-2288

E82535

Advanced Environmental Laboratories, Inc. - Miami

10200 USA Today Way

Miramar, FL 33025

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
1105	Nickel	EPA 6010D	10155950	Metals	3/3/2023
1805	Nitrate	EPA 9056A	10199607	General Chemistry	3/3/2023
1810	Nitrate as N	EPA 300.0	10053200	General Chemistry	3/6/2002
1820	Nitrate-nitrite	EPA 300.0	10053200	General Chemistry	3/6/2002
1835	Nitrite	EPA 9056A	10199607	General Chemistry	3/3/2023
1840	Nitrite as N	EPA 300.0	10053200	General Chemistry	3/6/2002
5015	Nitrobenzene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5015	Nitrobenzene	EPA 8270E	10242543	Extractable Organics	3/3/2023
6525	n-Nitrosodiethylamine	EPA 8270E	10242543	Extractable Organics	3/3/2023
6530	n-Nitrosodimethylamine	EPA 625.1	10300024	Extractable Organics	1/22/2018
6530	n-Nitrosodimethylamine	EPA 8270E	10242543	Extractable Organics	3/3/2023
5025	n-Nitroso-di-n-butylamine	EPA 8270E	10242543	Extractable Organics	3/3/2023
6545	n-Nitrosodi-n-propylamine	EPA 625.1	10300024	Extractable Organics	1/22/2018
6545	n-Nitrosodi-n-propylamine	EPA 8270E	10242543	Extractable Organics	3/3/2023
6535	n-Nitrosodiphenylamine	EPA 625.1	10300024	Extractable Organics	1/22/2018
6535	n-Nitrosodiphenylamine	EPA 8270E	10242543	Extractable Organics	3/3/2023
6550	n-Nitrosomethylethylamine	EPA 8270E	10242543	Extractable Organics	3/3/2023
6555	n-Nitrosomorpholine	EPA 8270E	10242543	Extractable Organics	3/3/2023
6560	n-Nitrosopiperidine	EPA 8270E	10242543	Extractable Organics	3/3/2023
6565	n-Nitrosopyrrolidine	EPA 8270E	10242543	Extractable Organics	3/3/2023
6580	n-Octadecane	EPA 625.1	10300024	Extractable Organics	1/22/2018
5090	n-Propylbenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
1860	Oil & Grease	EPA 1664B	10261617	General Chemistry	8/5/2025
1865	Organic nitrogen	TKN minus AMMONIA	60034437	General Chemistry	6/25/2012
1870	Orthophosphate as P	EPA 300.0	10053200	General Chemistry	10/27/2009
1870	Orthophosphate as P	EPA 9056A	10199607	General Chemistry	3/3/2023
5145	o-Toluidine	EPA 8270E	10242543	Extractable Organics	3/3/2023
5250	o-Xylene	EPA 624.1	10298121	Volatile Organics	1/22/2018
5250	o-Xylene	EPA 8260D	10307127	Volatile Organics	3/3/2023
6590	Pentachlorobenzene	EPA 8270E	10242543	Extractable Organics	3/3/2023
5035	Pentachloroethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
6600	Pentachloronitrobenzene (Quintozene)	EPA 8270E	10242543	Extractable Organics	3/3/2023
6605	Pentachlorophenol	EPA 625.1	10300024	Extractable Organics	1/22/2018
6605	Pentachlorophenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
1900	pH	EPA 150.1	10008409	General Chemistry	11/12/2004
1900	pH	EPA 9040C	10244403	General Chemistry	3/3/2023

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type: NELAP
Issue Date: 8/5/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535 EPA Lab Code: FL01281 (954) 889-2288

**E82535
Advanced Environmental Laboratories, Inc. - Miami
10200 USA Today Way
Miramar, FL 33025**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
1900	pH	SM 4500-H+ B-2011	20105220	General Chemistry	7/19/2022
6610	Phenacetin	EPA 8270E	10242543	Extractable Organics	3/3/2023
6615	Phenanthrene	EPA 625.1	10300024	Extractable Organics	7/21/2022
6615	Phenanthrene	EPA 8270E	10242543	Extractable Organics	3/3/2023
6625	Phenol	EPA 625.1	10300024	Extractable Organics	1/22/2018
6625	Phenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
1910	Phosphorus, total	EPA 365.4	10071202	General Chemistry	6/25/2012
4910	p-Isopropyltoluene	EPA 8260D	10307127	Volatile Organics	3/3/2023
1125	Potassium	EPA 200.7	10013806	Metals	3/22/2006
1125	Potassium	EPA 6010D	10155950	Metals	3/3/2023
6650	Pronamide (Kerb)	EPA 8270E	10242543	Extractable Organics	3/3/2023
5080	Propionitrile (Ethyl cyanide)	EPA 8260D	10307127	Volatile Organics	3/3/2023
5255	p-Xylene	EPA 624.1	10298121	Volatile Organics	1/22/2018
6665	Pyrene	EPA 625.1	10300024	Extractable Organics	7/21/2022
6665	Pyrene	EPA 8270E	10242543	Extractable Organics	3/3/2023
5095	Pyridine	EPA 625.1	10300024	Extractable Organics	1/16/2019
5095	Pyridine	EPA 8270E	10242543	Extractable Organics	3/3/2023
1955	Residue-filterable (TDS)	EPA 160.1	10009208	General Chemistry	3/6/2002
1955	Residue-filterable (TDS)	SM 2540 C-2015	20050435	General Chemistry	7/19/2022
1960	Residue-nonfilterable (TSS)	EPA 160.2	10009606	General Chemistry	12/3/2004
1960	Residue-nonfilterable (TSS)	SM 2540 D-2015	20051223	General Chemistry	7/19/2022
1965	Residue-settleable	SM 2540 F-2015	20052226	General Chemistry	7/19/2022
1950	Residue-total	EPA 160.3	10010001	General Chemistry	5/7/2002
1950	Residue-total	SM 2540 B-2015	20049438	General Chemistry	7/19/2022
1970	Residue-volatile	SM 2540 E-2015	20051610	General Chemistry	8/19/2022
6685	Safrole	EPA 8270E	10242543	Extractable Organics	3/3/2023
4440	sec-Butylbenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
1140	Selenium	EPA 200.7	10013806	Metals	2/18/2005
1140	Selenium	EPA 6010D	10155950	Metals	3/3/2023
1990	Silica as SiO2	EPA 200.7	10013806	Metals	6/29/2015
1990	Silica as SiO2	EPA 6010D	10155950	Metals	3/3/2023
1150	Silver	EPA 200.7	10013806	Metals	12/7/2010
1150	Silver	EPA 6010D	10155950	Metals	3/3/2023
1155	Sodium	EPA 200.7	10013806	Metals	3/22/2006
1155	Sodium	EPA 6010D	10155950	Metals	3/3/2023
1160	Strontium	EPA 200.7	10013806	Metals	6/25/2012

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program. Certification Type NELAP Issue Date: 8/5/2025 Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535 EPA Lab Code: FL01281 (954) 889-2288

**E82535
Advanced Environmental Laboratories, Inc. - Miami
10200 USA Today Way
Miramar, FL 33025**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
1160	Strontium	EPA 6010D	10155950	Metals	3/3/2023
5100	Styrene	EPA 624.1	10298121	Volatile Organics	4/24/2023
5100	Styrene	EPA 8260D	10307127	Volatile Organics	3/3/2023
2000	Sulfate	EPA 300.0	10053200	General Chemistry	3/6/2002
2000	Sulfate	EPA 9056A	10199607	General Chemistry	3/3/2023
4370	T-amylmethylether (TAME)	EPA 8260D	10307127	Volatile Organics	3/3/2023
4420	tert-Butyl alcohol (2-Methyl-2-propanol)	EPA 8260D	10307127	Volatile Organics	3/3/2023
4445	tert-Butylbenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
5115	Tetrachloroethylene (Perchloroethylene)	EPA 624.1	10298121	Volatile Organics	1/22/2018
5115	Tetrachloroethylene (Perchloroethylene)	EPA 8260D	10307127	Volatile Organics	3/3/2023
1165	Thallium	EPA 200.7	10013806	Metals	2/18/2005
1165	Thallium	EPA 6010D	10155950	Metals	3/3/2023
1175	Tin	EPA 200.7	10013806	Metals	12/7/2010
1175	Tin	EPA 6010D	10155950	Metals	3/3/2023
1180	Titanium	EPA 200.7	10013806	Metals	12/7/2010
1180	Titanium	EPA 6010D	10155950	Metals	3/3/2023
5140	Toluene	EPA 624.1	10298121	Volatile Organics	1/22/2018
5140	Toluene	EPA 8260D	10307127	Volatile Organics	3/3/2023
2500	Total coliforms	SM 9222 B-2015	20208439	Microbiology	7/19/2022
2500	Total coliforms	SM 9223 B /QUANTI-TRAY	20211603	Microbiology	2/26/2021
1755	Total hardness as CaCO3	EPA 200.7	10013806	Metals	12/7/2010
1825	Total nitrate-nitrite	EPA 9056A	10199607	General Chemistry	3/3/2023
2050	Total Petroleum Hydrocarbons (TPH)	EPA 1664B	10261617	General Chemistry	8/5/2025
2050	Total Petroleum Hydrocarbons (TPH)	FL-PRO	90015808	Extractable Organics	12/7/2010
8250	Toxaphene (Chlorinated camphene)	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	1/22/2018
8250	Toxaphene (Chlorinated camphene)	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
4700	trans-1,2-Dichloroethylene	EPA 624.1	10298121	Volatile Organics	1/22/2018
4700	trans-1,2-Dichloroethylene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4685	trans-1,3-Dichloropropene	EPA 624.1	10298121	Volatile Organics	1/22/2018
4685	trans-1,3-Dichloropropene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4605	trans-1,4-Dichloro-2-butene	EPA 8260D	10307127	Volatile Organics	3/3/2023
5170	Trichloroethene (Trichloroethylene)	EPA 624.1	10298121	Volatile Organics	1/22/2018
5170	Trichloroethene (Trichloroethylene)	EPA 8260D	10307127	Volatile Organics	3/3/2023
5175	Trichlorofluoromethane	EPA 624.1	10298121	Volatile Organics	1/22/2018
5175	Trichlorofluoromethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
2055	Turbidity	EPA 180.1	10011800	General Chemistry	1/18/2005

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**Certification Type NELAP
Issue Date: 8/5/2025 Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535

EPA Lab Code: FL01281

(954) 889-2288

E82535

**Advanced Environmental Laboratories, Inc. - Miami
10200 USA Today Way
Miramar, FL 33025**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
2055	Turbidity	SM 2130 B-2011	20048220	General Chemistry	7/19/2022
2058	Un-Ionized Ammonia	DEP SOP 10/03/83	90015842	General Chemistry	6/25/2012
1185	Vanadium	EPA 200.7	10013806	Metals	12/7/2010
1185	Vanadium	EPA 6010D	10155950	Metals	3/3/2023
5225	Vinyl acetate	EPA 8260D	10307127	Volatile Organics	3/3/2023
5235	Vinyl chloride	EPA 624.1	10298121	Volatile Organics	1/22/2018
5235	Vinyl chloride	EPA 8260D	10307127	Volatile Organics	3/3/2023
5260	Xylene (total)	EPA 624.1	10298121	Volatile Organics	1/22/2018
5260	Xylene (total)	EPA 8260D	10307127	Volatile Organics	3/3/2023
1190	Zinc	EPA 200.7	10013806	Metals	2/18/2005
1190	Zinc	EPA 6010D	10155950	Metals	3/3/2023



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535 EPA Lab Code: FL01281 (954) 889-2288

**E82535
Advanced Environmental Laboratories, Inc. - Miami
10200 USA Today Way
Miramar, FL 33025**

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
5105	1,1,1,2-Tetrachloroethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
5160	1,1,1-Trichloroethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
5110	1,1,2,2-Tetrachloroethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
5185	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	10307127	Volatile Organics	3/3/2023
5165	1,1,2-Trichloroethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
4630	1,1-Dichloroethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
4640	1,1-Dichloroethylene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4670	1,1-Dichloropropene	EPA 8260D	10307127	Volatile Organics	3/3/2023
5150	1,2,3-Trichlorobenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
5180	1,2,3-Trichloropropane	EPA 8260D	10307127	Volatile Organics	3/3/2023
6715	1,2,4,5-Tetrachlorobenzene	EPA 8270E	10242543	Extractable Organics	3/3/2023
5155	1,2,4-Trichlorobenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
5155	1,2,4-Trichlorobenzene	EPA 8270E	10242543	Extractable Organics	3/3/2023
5210	1,2,4-Trimethylbenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4570	1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	10307127	Volatile Organics	3/3/2023
4585	1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	10307127	Volatile Organics	3/3/2023
4610	1,2-Dichlorobenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4610	1,2-Dichlorobenzene	EPA 8270E	10242543	Extractable Organics	3/3/2023
4635	1,2-Dichloroethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
4655	1,2-Dichloropropane	EPA 8260D	10307127	Volatile Organics	3/3/2023
6220	1,2-Diphenylhydrazine	EPA 8270E	10242543	Extractable Organics	3/3/2023
5215	1,3,5-Trimethylbenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4615	1,3-Dichlorobenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4615	1,3-Dichlorobenzene	EPA 8270E	10242543	Extractable Organics	3/3/2023
4660	1,3-Dichloropropane	EPA 8260D	10307127	Volatile Organics	3/3/2023
6160	1,3-Dinitrobenzene (1,3-DNB)	EPA 8270E	10242543	Extractable Organics	3/3/2023
4620	1,4-Dichlorobenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4620	1,4-Dichlorobenzene	EPA 8270E	10242543	Extractable Organics	3/3/2023
4735	1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8260D	10307127	Volatile Organics	3/3/2023
6420	1,4-Naphthoquinone	EPA 8270E	10242543	Extractable Organics	3/3/2023
6630	1,4-Phenylenediamine	EPA 8270E	10242543	Extractable Organics	3/3/2023
5790	1-Chloronaphthalene	EPA 8270E	10242543	Extractable Organics	3/3/2023
6380	1-Methylnaphthalene	EPA 8270E	10242543	Extractable Organics	3/3/2023
6425	1-Naphthylamine	EPA 8270E	10242543	Extractable Organics	3/3/2023
4665	2,2-Dichloropropane	EPA 8260D	10307127	Volatile Organics	3/3/2023

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

**Certification Type NELAP
Issue Date: 8/5/2025 Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535 EPA Lab Code: FL01281 (954) 889-2288

**E82535
Advanced Environmental Laboratories, Inc. - Miami
10200 USA Today Way
Miramar, FL 33025**

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
4659	2,2'-Oxybis(1-chloropropane).bis(2-Chloro-1-methylethyl)ether (fka bis(2-Chloroisopropyl) ether	EPA 8270E	10242543	Extractable Organics	3/3/2023
6735	2,3,4,6-Tetrachlorophenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
6835	2,4,5-Trichlorophenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
6840	2,4,6-Trichlorophenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
6000	2,4-Dichlorophenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
6130	2,4-Dimethylphenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
6175	2,4-Dinitrophenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
6185	2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	10242543	Extractable Organics	3/3/2023
6005	2,6-Dichlorophenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
6190	2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	10242543	Extractable Organics	3/3/2023
5515	2-Acetylaminofluorene	EPA 8270E	10242543	Extractable Organics	3/3/2023
4410	2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	10307127	Volatile Organics	3/3/2023
4500	2-Chloroethyl vinyl ether	EPA 8260D	10307127	Volatile Organics	3/3/2023
5795	2-Chloronaphthalene	EPA 8270E	10242543	Extractable Organics	3/3/2023
5800	2-Chlorophenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
4535	2-Chlorotoluene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4860	2-Hexanone	EPA 8260D	10307127	Volatile Organics	3/3/2023
6360	2-Methyl-4,6-dinitrophenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
6385	2-Methylnaphthalene	EPA 8270E	10242543	Extractable Organics	3/3/2023
6400	2-Methylphenol (o-Cresol)	EPA 8270E	10242543	Extractable Organics	3/3/2023
6430	2-Naphthylamine	EPA 8270E	10242543	Extractable Organics	3/3/2023
6460	2-Nitroaniline	EPA 8270E	10242543	Extractable Organics	3/3/2023
6490	2-Nitrophenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
5020	2-Nitropropane	EPA 8260D	10307127	Volatile Organics	3/3/2023
5050	2-Picoline (2-Methylpyridine)	EPA 8270E	10242543	Extractable Organics	3/3/2023
5945	3,3'-Dichlorobenzidine	EPA 8270E	10242543	Extractable Organics	3/3/2023
6120	3,3'-Dimethylbenzidine	EPA 8270E	10242543	Extractable Organics	3/3/2023
6412	3/4-Methylphenols (m/p-Cresols)	EPA 8270E	10242543	Extractable Organics	3/3/2023
6355	3-Methylcholanthrene	EPA 8270E	10242543	Extractable Organics	3/3/2023
6465	3-Nitroaniline	EPA 8270E	10242543	Extractable Organics	3/3/2023
7355	4,4'-DDD	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
7360	4,4'-DDE	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
7365	4,4'-DDT	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
5540	4-Aminobiphenyl	EPA 8270E	10242543	Extractable Organics	3/3/2023
5660	4-Bromophenyl phenyl ether	EPA 8270E	10242543	Extractable Organics	3/3/2023

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program. Certification Type NELAP Issue Date: 8/5/2025 Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535

EPA Lab Code: FL01281

(954) 889-2288

E82535

Advanced Environmental Laboratories, Inc. - Miami

10200 USA Today Way

Miramar, FL 33025

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
5700	4-Chloro-3-methylphenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
5745	4-Chloroaniline	EPA 8270E	10242543	Extractable Organics	3/3/2023
5825	4-Chlorophenyl phenylether	EPA 8270E	10242543	Extractable Organics	3/3/2023
4540	4-Chlorotoluene	EPA 8260D	10307127	Volatile Organics	3/3/2023
6105	4-Dimethyl aminoazobenzene	EPA 8270E	10242543	Extractable Organics	3/3/2023
4995	4-Methyl-2-pentanone (MIBK)	EPA 8260D	10307127	Volatile Organics	3/3/2023
6470	4-Nitroaniline	EPA 8270E	10242543	Extractable Organics	3/3/2023
6500	4-Nitrophenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
6510	4-Nitroquinoline 1-oxide	EPA 8270E	10242543	Extractable Organics	3/3/2023
6570	5-Nitro-o-toluidine	EPA 8270E	10242543	Extractable Organics	3/3/2023
6115	7,12-Dimethylbenz(a) anthracene	EPA 8270E	10242543	Extractable Organics	3/3/2023
6125	a,a-Dimethylphenethylamine	EPA 8270E	10242543	Extractable Organics	3/3/2023
5500	Acenaphthene	EPA 8270E	10242543	Extractable Organics	3/3/2023
5505	Acenaphthylene	EPA 8270E	10242543	Extractable Organics	3/3/2023
4315	Acetone	EPA 8260D	10307127	Volatile Organics	3/3/2023
4320	Acetonitrile	EPA 8260D	10307127	Volatile Organics	3/3/2023
5510	Acetophenone	EPA 8270E	10242543	Extractable Organics	3/3/2023
4325	Acrolein (Propenal)	EPA 8260D	10307127	Volatile Organics	3/3/2023
4340	Acrylonitrile	EPA 8260D	10307127	Volatile Organics	3/3/2023
7025	Aldrin	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
4355	Allyl chloride (3-Chloropropene)	EPA 8260D	10307127	Volatile Organics	3/3/2023
7110	alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
7240	alpha-Chlordane	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
1000	Aluminum	EPA 6010D	10155950	Metals	3/3/2023
1515	Ammonia as N	EPA 350.1	10063602	General Chemistry	7/1/2012
5545	Aniline	EPA 8270E	10242543	Extractable Organics	3/3/2023
5555	Anthracene	EPA 8270E	10242543	Extractable Organics	3/3/2023
1005	Antimony	EPA 6010D	10155950	Metals	3/3/2023
5560	Aramite	EPA 8270E	10242543	Extractable Organics	3/3/2023
8880	Aroclor-1016 (PCB-1016)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	3/3/2023
8885	Aroclor-1221 (PCB-1221)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	3/3/2023
8890	Aroclor-1232 (PCB-1232)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	3/3/2023
8895	Aroclor-1242 (PCB-1242)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	3/3/2023
8900	Aroclor-1248 (PCB-1248)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	3/3/2023
8905	Aroclor-1254 (PCB-1254)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	3/3/2023
8910	Aroclor-1260 (PCB-1260)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	3/3/2023

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type: NELAP
Issue Date: 8/5/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535

EPA Lab Code: FL01281

(954) 889-2288

E82535

Advanced Environmental Laboratories, Inc. - Miami

10200 USA Today Way

Miramar, FL 33025

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
1010	Arsenic	EPA 6010D	10155950	Metals	3/3/2023
1015	Barium	EPA 6010D	10155950	Metals	3/3/2023
5570	Benzaldehyde	EPA 8270E	10242543	Extractable Organics	3/3/2023
4375	Benzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
5595	Benzidine	EPA 8270E	10242543	Extractable Organics	3/3/2023
5575	Benzo(a)anthracene	EPA 8270E	10242543	Extractable Organics	3/3/2023
5580	Benzo(a)pyrene	EPA 8270E	10242543	Extractable Organics	3/3/2023
5585	Benzo(b)fluoranthene	EPA 8270E	10242543	Extractable Organics	3/3/2023
5590	Benzo(g,h,i)perylene	EPA 8270E	10242543	Extractable Organics	3/3/2023
5600	Benzo(k)fluoranthene	EPA 8270E	10242543	Extractable Organics	3/3/2023
5610	Benzoic acid	EPA 8270E	10242543	Extractable Organics	3/3/2023
5630	Benzyl alcohol	EPA 8270E	10242543	Extractable Organics	3/3/2023
1020	Beryllium	EPA 6010D	10155950	Metals	3/3/2023
7115	beta-BHC (beta-Hexachlorocyclohexane)	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
6703	Biphenyl (1,1-Biphenyl, BZ 0)	EPA 8270E	10242543	Extractable Organics	3/3/2023
5760	bis(2-Chloroethoxy)methane	EPA 8270E	10242543	Extractable Organics	3/3/2023
5765	bis(2-Chloroethyl) ether	EPA 8270E	10242543	Extractable Organics	3/3/2023
1025	Boron	EPA 6010D	10155950	Metals	3/3/2023
4385	Bromobenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4390	Bromochloromethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
4395	Bromodichloromethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
4400	Bromoform	EPA 8260D	10307127	Volatile Organics	3/3/2023
5670	Butyl benzyl phthalate	EPA 8270E	10242543	Extractable Organics	3/3/2023
1030	Cadmium	EPA 6010D	10155950	Metals	3/3/2023
1035	Calcium	EPA 6010D	10155950	Metals	3/3/2023
7180	Caprolactam	EPA 8270E	10242543	Extractable Organics	3/3/2023
5680	Carbazole	EPA 8270E	10242543	Extractable Organics	3/3/2023
4450	Carbon disulfide	EPA 8260D	10307127	Volatile Organics	3/3/2023
4455	Carbon tetrachloride	EPA 8260D	10307127	Volatile Organics	3/3/2023
7250	Chlordane (tech.)	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
1575	Chloride	EPA 9056A	10199607	General Chemistry	3/3/2023
4475	Chlorobenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
7260	Chlorobenzilate	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	3/3/2023
4485	Chloroethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
4505	Chloroform	EPA 8260D	10307127	Volatile Organics	3/3/2023
4525	Chloroprene	EPA 8260D	10307127	Volatile Organics	3/3/2023

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Certification Type: NELAP
Issue Date: 8/5/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535

EPA Lab Code:

FL01281

(954) 889-2288

E82535

Advanced Environmental Laboratories, Inc. - Miami

10200 USA Today Way

Miramar, FL 33025

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
1040	Chromium	EPA 6010D	10155950	Metals	3/3/2023
5855	Chrysene	EPA 8270E	10242543	Extractable Organics	3/3/2023
4645	cis-1,2-Dichloroethylene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4680	cis-1,3-Dichloropropene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4600	cis-1,4-Dichloro-2-butene	EPA 8260D	10307127	Volatile Organics	3/3/2023
1050	Cobalt	EPA 6010D	10155950	Metals	3/3/2023
1610	Conductivity	EPA 9050A	10198808	General Chemistry	3/3/2023
1055	Copper	EPA 6010D	10155950	Metals	3/3/2023
1625	Corrosivity (pH)	EPA 9040C	10244403	General Chemistry	3/3/2023
4555	Cyclohexane	EPA 8260D	10307127	Volatile Organics	3/3/2023
4560	Cyclohexanone	EPA 8260D	10307127	Volatile Organics	3/3/2023
7105	delta-BHC	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
6065	Di(2-ethylhexyl) phthalate (DEHP)	EPA 8270E	10242543	Extractable Organics	3/3/2023
7405	Diallate	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	3/3/2023
5895	Dibenz(a,h)anthracene	EPA 8270E	10242543	Extractable Organics	3/3/2023
5900	Dibenz(a,j)acridine	EPA 8270E	10242543	Extractable Organics	3/3/2023
5905	Dibenzofuran	EPA 8270E	10242543	Extractable Organics	3/3/2023
4575	Dibromochloromethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
4595	Dibromomethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
4625	Dichlorodifluoromethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
7470	Dieldrin	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
4725	Diethyl ether	EPA 8260D	10307127	Volatile Organics	3/3/2023
6070	Diethyl phthalate	EPA 8270E	10242543	Extractable Organics	3/3/2023
9375	Di-isopropylether (DIPE)	EPA 8260D	10307127	Volatile Organics	3/3/2023
6135	Dimethyl phthalate	EPA 8270E	10242543	Extractable Organics	3/3/2023
5925	Di-n-butyl phthalate	EPA 8270E	10242543	Extractable Organics	3/3/2023
6200	Di-n-octyl phthalate	EPA 8270E	10242543	Extractable Organics	3/3/2023
6205	Diphenylamine	EPA 8270E	10242543	Extractable Organics	3/3/2023
7510	Endosulfan I	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
7515	Endosulfan II	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
7520	Endosulfan sulfate	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
7540	Endrin	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
7530	Endrin aldehyde	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
7535	Endrin ketone	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
4750	Ethanol	EPA 8260D	10307127	Volatile Organics	3/3/2023
4755	Ethyl acetate	EPA 8260D	10307127	Volatile Organics	3/3/2023

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type: NELAP
Issue Date: 8/5/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535 EPA Lab Code: FL01281 (954) 889-2288

**E82535
Advanced Environmental Laboratories, Inc. - Miami
10200 USA Today Way
Miramar, FL 33025**

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
4810	Ethyl methacrylate	EPA 8260D	10307127	Volatile Organics	3/3/2023
6260	Ethyl methanesulfonate	EPA 8270E	10242543	Extractable Organics	3/3/2023
4765	Ethylbenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4770	Ethyl-t-butylether (ETBE)	EPA 8260D	10307127	Volatile Organics	3/3/2023
2530	Fecal coliforms	SM 9221 E	20227218	Microbiology	6/29/2015
6265	Fluoranthene	EPA 8270E	10242543	Extractable Organics	3/3/2023
6270	Fluorene	EPA 8270E	10242543	Extractable Organics	3/3/2023
1730	Fluoride	EPA 9056A	10199607	General Chemistry	3/3/2023
7120	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
7245	gamma-Chlordane	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
7685	Heptachlor	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
7690	Heptachlor epoxide	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
6275	Hexachlorobenzene	EPA 8270E	10242543	Extractable Organics	3/3/2023
4835	Hexachlorobutadiene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4835	Hexachlorobutadiene	EPA 8270E	10242543	Extractable Organics	3/3/2023
6285	Hexachlorocyclopentadiene	EPA 8270E	10242543	Extractable Organics	3/3/2023
4840	Hexachloroethane	EPA 8270E	10242543	Extractable Organics	3/3/2023
6295	Hexachloropropene	EPA 8270E	10242543	Extractable Organics	3/3/2023
6315	Indeno(1,2,3-cd)pyrene	EPA 8270E	10242543	Extractable Organics	3/3/2023
4870	Iodomethane (Methyl iodide)	EPA 8260D	10307127	Volatile Organics	3/3/2023
1070	Iron	EPA 6010D	10155950	Metals	3/3/2023
4875	Isobutyl alcohol (2-Methyl-1-propanol)	EPA 8260D	10307127	Volatile Organics	3/3/2023
7725	Isodrin	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	3/3/2023
6320	Isophorone	EPA 8270E	10242543	Extractable Organics	3/3/2023
4890	Isopropyl acetate	EPA 8260D	10307127	Volatile Organics	3/3/2023
4895	Isopropyl alcohol (2-Propanol)	EPA 8260D	10307127	Volatile Organics	3/3/2023
4900	Isopropylbenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
6325	Isosafrole	EPA 8270E	10242543	Extractable Organics	3/3/2023
7740	Kepone	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	3/3/2023
1795	Kjeldahl nitrogen - total	EPA 351.2	10065404	General Chemistry	7/1/2012
1075	Lead	EPA 6010D	10155950	Metals	3/3/2023
5240	m+p-Xylenes	EPA 8260D	10307127	Volatile Organics	3/3/2023
1085	Magnesium	EPA 6010D	10155950	Metals	3/3/2023
1090	Manganese	EPA 6010D	10155950	Metals	3/3/2023
1095	Mercury	EPA 7471B	10166457	Metals	3/3/2023
4925	Methacrylonitrile	EPA 8260D	10307127	Volatile Organics	3/3/2023

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Issue Date: 8/5/2025 Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535

EPA Lab Code: FL01281

(954) 889-2288

E82535

Advanced Environmental Laboratories, Inc. - Miami

10200 USA Today Way

Miramar, FL 33025

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
7810	Methoxychlor	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023
4940	Methyl acetate	EPA 8260D	10307127	Volatile Organics	3/3/2023
4950	Methyl bromide (Bromomethane)	EPA 8260D	10307127	Volatile Organics	3/3/2023
4960	Methyl chloride (Chloromethane)	EPA 8260D	10307127	Volatile Organics	3/3/2023
4990	Methyl methacrylate	EPA 8260D	10307127	Volatile Organics	3/3/2023
6375	Methyl methanesulfonate	EPA 8270E	10242543	Extractable Organics	3/3/2023
5000	Methyl tert-butyl ether (MTBE)	EPA 8260D	10307127	Volatile Organics	3/3/2023
4965	Methylcyclohexane	EPA 8260D	10307127	Volatile Organics	3/3/2023
4975	Methylene chloride	EPA 8260D	10307127	Volatile Organics	3/3/2023
1100	Molybdenum	EPA 6010D	10155950	Metals	3/3/2023
4360	n-Amyl acetate	EPA 8260D	10307127	Volatile Organics	3/3/2023
5005	Naphthalene	EPA 8260D	10307127	Volatile Organics	3/3/2023
5005	Naphthalene	EPA 8270E	10242543	Extractable Organics	3/3/2023
4435	n-Butylbenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
1105	Nickel	EPA 6010D	10155950	Metals	3/3/2023
1805	Nitrate	EPA 9056A	10199607	General Chemistry	3/3/2023
1835	Nitrite	EPA 9056A	10199607	General Chemistry	3/3/2023
5015	Nitrobenzene	EPA 8270E	10242543	Extractable Organics	3/3/2023
6525	n-Nitrosodiethylamine	EPA 8270E	10242543	Extractable Organics	3/3/2023
6530	n-Nitrosodimethylamine	EPA 8270E	10242543	Extractable Organics	3/3/2023
5025	n-Nitroso-di-n-butylamine	EPA 8270E	10242543	Extractable Organics	3/3/2023
6545	n-Nitrosodi-n-propylamine	EPA 8270E	10242543	Extractable Organics	3/3/2023
6535	n-Nitrosodiphenylamine	EPA 8270E	10242543	Extractable Organics	3/3/2023
6550	n-Nitrosomethylethylamine	EPA 8270E	10242543	Extractable Organics	3/3/2023
6555	n-Nitrosomorpholine	EPA 8270E	10242543	Extractable Organics	3/3/2023
6560	n-Nitrosopiperidine	EPA 8270E	10242543	Extractable Organics	3/3/2023
6565	n-Nitrosopyrrolidine	EPA 8270E	10242543	Extractable Organics	3/3/2023
5090	n-Propylbenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
1865	Organic nitrogen	TKN minus AMMONIA	60034437	General Chemistry	7/1/2012
1870	Orthophosphate as P	EPA 9056A	10199607	General Chemistry	3/3/2023
5145	o-Toluidine	EPA 8270E	10242543	Extractable Organics	3/3/2023
5250	o-Xylene	EPA 8260D	10307127	Volatile Organics	3/3/2023
6590	Pentachlorobenzene	EPA 8270E	10242543	Extractable Organics	3/3/2023
5035	Pentachloroethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
6600	Pentachloronitrobenzene (Quintozene)	EPA 8270E	10242543	Extractable Organics	3/3/2023
6605	Pentachlorophenol	EPA 8270E	10242543	Extractable Organics	3/3/2023

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Certification Type: NELAP
Issue Date: 8/5/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535

EPA Lab Code: FL01281

(954) 889-2288

E82535

Advanced Environmental Laboratories, Inc. - Miami

10200 USA Today Way

Miramar, FL 33025

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
1900	pH	EPA 9040C	10244403	General Chemistry	3/3/2023
1900	pH	EPA 9045D	10198455	General Chemistry	3/3/2023
6610	Phenacetin	EPA 8270E	10242543	Extractable Organics	3/3/2023
6615	Phenanthrene	EPA 8270E	10242543	Extractable Organics	3/3/2023
6625	Phenol	EPA 8270E	10242543	Extractable Organics	3/3/2023
1910	Phosphorus, total	EPA 365.4	10071202	General Chemistry	7/1/2012
4910	p-Isopropyltoluene	EPA 8260D	10307127	Volatile Organics	3/3/2023
1125	Potassium	EPA 6010D	10155950	Metals	3/3/2023
6650	Pronamide (Kerb)	EPA 8270E	10242543	Extractable Organics	3/3/2023
5080	Propionitrile (Ethyl cyanide)	EPA 8260D	10307127	Volatile Organics	3/3/2023
6665	Pyrene	EPA 8270E	10242543	Extractable Organics	3/3/2023
5095	Pyridine	EPA 8270E	10242543	Extractable Organics	3/3/2023
1950	Residue-total	SM 2540 G	20005203	General Chemistry	7/1/2012
1970	Residue-volatile	SM 2540 G	20005203	Metals	2/26/2021
6685	Safrole	EPA 8270E	10242543	Extractable Organics	3/3/2023
4440	sec-Butylbenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
1140	Selenium	EPA 6010D	10155950	Metals	3/3/2023
1150	Silver	EPA 6010D	10155950	Metals	3/3/2023
1155	Sodium	EPA 6010D	10155950	Metals	3/3/2023
1160	Strontium	EPA 6010D	10155950	Metals	3/3/2023
5100	Styrene	EPA 8260D	10307127	Volatile Organics	3/3/2023
2000	Sulfate	EPA 9056A	10199607	General Chemistry	3/3/2023
1460	Synthetic Precipitation Leaching Procedure (SPLP)	EPA 1312	10119003	General Chemistry	7/1/2012
4370	T-amylmethylether (TAME)	EPA 8260D	10307127	Volatile Organics	3/3/2023
4420	tert-Butyl alcohol (2-Methyl-2-propanol)	EPA 8260D	10307127	Volatile Organics	3/3/2023
4445	tert-Butylbenzene	EPA 8260D	10307127	Volatile Organics	3/3/2023
5115	Tetrachloroethylene (Perchloroethylene)	EPA 8260D	10307127	Volatile Organics	3/3/2023
1165	Thallium	EPA 6010D	10155950	Metals	3/3/2023
1175	Tin	EPA 6010D	10155950	Metals	3/3/2023
1180	Titanium	EPA 6010D	10155950	Metals	3/3/2023
5140	Toluene	EPA 8260D	10307127	Volatile Organics	3/3/2023
1825	Total nitrate-nitrite	EPA 9056A	10199607	General Chemistry	3/3/2023
1827	Total Nitrogen	TKN + Total Nitrate-Nitrite	60034459	General Chemistry	7/1/2012
2050	Total Petroleum Hydrocarbons (TPH)	FL-PRO	90015808	Volatile Organics	12/7/2010
8250	Toxaphene (Chlorinated camphene)	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	3/3/2023

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Certification Type: NELAP
Issue Date: 8/5/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82535-125, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82535

EPA Lab Code: FL01281

(954) 889-2288

E82535

**Advanced Environmental Laboratories, Inc. - Miami
10200 USA Today Way
Miramar, FL 33025**

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
1466	Toxicity Characteristic Leaching Procedure (TCLP)	EPA 1311	10118806	General Chemistry	7/1/2012
4700	trans-1,2-Dichloroethylene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4685	trans-1,3-Dichloropropene	EPA 8260D	10307127	Volatile Organics	3/3/2023
4605	trans-1,4-Dichloro-2-butene	EPA 8260D	10307127	Volatile Organics	3/3/2023
5170	Trichloroethene (Trichloroethylene)	EPA 8260D	10307127	Volatile Organics	3/3/2023
5175	Trichlorofluoromethane	EPA 8260D	10307127	Volatile Organics	3/3/2023
1185	Vanadium	EPA 6010D	10155950	Metals	3/3/2023
5225	Vinyl acetate	EPA 8260D	10307127	Volatile Organics	3/3/2023
5235	Vinyl chloride	EPA 8260D	10307127	Volatile Organics	3/3/2023
5260	Xylene (total)	EPA 8260D	10307127	Volatile Organics	3/3/2023
1190	Zinc	EPA 6010D	10155950	Metals	3/3/2023

NATIONAL ENVIRONMENTAL LABORATORY
ACCREDITATION PROGRAM
ON-SITE LABORATORY ASSESSMENT REPORT
Bureau of Public Health Laboratories
Florida Department of Health

Laboratory: Advanced Environmental Laboratories, Inc. – Miami

Address: 10200 USA Today Way
Miramar, FL 33025

Mailing Address (if different from physical address) Same

I. D. Number: E82535

Dates of Assessment: December 3-5, 2024

Categories Assessed: DRINKING WATER – Primary Inorganic Contaminants, Secondary Inorganic Contaminants, Group II Unregulated Contaminants, Other Regulated Contaminants, Synthetic Organic Contaminants, Microbiology, NON-POTABLE WATER – Volatile Organics, Extractable Organics, Pesticides-Herbicides-PCB's, Metals, General Chemistry, Microbiology, SOLID AND CHEMICAL MATERIALS -Volatile Organics, Extractable Organics, Pesticides-Herbicides-PCB's, Metals, General Chemistry, Microbiology

Assessors: Jeanne Mensingh, ANAB and Karen Olson, ANAB

I. INTRODUCTION:

This laboratory was inspected on-site to verify compliance with Florida Administrative Code (FAC) Rule 64E-1, Certification of Environmental Testing Laboratories, which incorporates by reference the 2016 Environmental Laboratory standards adopted at The NELAC Institute (National Environmental Laboratory Accreditation Conference).

II. DEFICIENCIES:

See the accompanying DH Form 1137. Proposed corrective action plans, estimated completion dates, and original signatures & dates from responsible laboratory officials must be returned on this form to this office within 30 days of receipt of this report.

III. LABORATORY TECHNICAL DIRECTORS (Name & Title):

Jesse Cutshaw	Lab Manager (Chemistry)
Anda Quinterro	QA Officer (Microbiology)

IV. COMMENTS:

1. This on-site assessment was to fulfill biennial on-site assessment requirements. The laboratory's next regular on-site assessment will be due on or before December 3, 2026.

2. In addition to the Technical Directors listed above, the following personnel also participated in this on-site assessment.

Personnel	Title
Lori Mangrum	QA Director
Mismel Ruiz	Inorganics Dept Manager
Melissa Reardon	Organics Dept Manager
Mikelle Chong	Client Services Manager & Project Manager
Chloe Dupuis	Project Manager
Ashley Romero	Analyst
Adriana Alarcon	Analyst
Ralph Misere	Analyst
Livania Quinones	Analyst
Krysten Berdini	Analyst
Yolanda Saavedra	Sample Receiving
Diana Garces Crème	Analyst
Rossanny Reyes	Extraction Analyst
Daphne Dauphin	Extraction Analyst
Gabriela Torres Frontanez	Extraction Analyst/Analyst Hybrid
Kimberly Navarrete	Analyst
Cynthia Marks	Analyst
Alani Carrasco	Analyst
Johanna Garces Crème	Analyst

3. The Quality Manual reviewed at the laboratory during this assessment was Revision 11.0, with an Effective Date of 9/1/2024.

4. Based on application to the Florida Department of Health dated October 4, 2024, acceptable proficiency testing, and this on-site assessment, certification can be recommended for the following analytes and test methods. The effective date of their certification will be no earlier than when acceptable Plans of Correction to deficiencies cited in this report, objective evidence that all recurring Repeat Deficiencies are now corrected and will remain so, and payments of on-site assessment expense fees are received:

Analytes	Matrix	Test Methods
SIMPLATE (Heterotrophic Bacteria) (quant.)	DW	SM 9215E
SIMPLATE (Heterotrophic Bacteria)	NPW	SM 9215E
Oil & Grease	NPW	EPA 1664B
Petroleum HC's	NPW	EPA 1664B
Lithium	DW	EPA 200.7
Antimony	DW	EPA 200.7
Chromium (VI)	NPW/DW	SM 3500Cr-B

5. The qualifications and transcripts were reviewed at the laboratory for Jesse Cutshaw and Anda Quinterro. Mr. Cutshaw met the requirements for technical manager (chemistry). Mrs. Quinterro met the requirements for technical manager (microbiology).

6. At the laboratory's request, certification has been relinquished voluntarily for the following analytes and test methods that are no longer in routine use, effective on December 5, 2024:

Analytes	Matrix	Test Methods
Ferrous Iron	NPW	SM 3500-Fe D
Orthophosphate	NPW and DW	SM 4500-P E
Methoxychlor	NPW	EPA 608.2

7. The deficiencies that were identified during the previous on-site assessment(s) on December 5-8, 2022 were found to be corrected during this follow-up on-site assessment.

8. Deficiency #6A cites the laboratory did not initiate nonconforming work and halt testing of *Enterococci* (9230 D-2013 and Enterolert QT) due to the repeated failures for temperature readings (am and pm) for the incubator (M8M) for over a year. In addition, the incubator failed the laboratory's equilibrium/load test. The laboratory stopped testing effective December 5th, 2024 per the lead assessor.

Along with the proposed Plan of Correction to Deficiency #6A to be submitted on FL DH Form 1137 (included with this report), the laboratory must submit supporting documentation to this office within 30 days to demonstrate that this repeat deficiency is now corrected. Failure to submit this documentation within the indicated deadline jeopardizes the laboratory's certification for all the Fields of Accreditation that are affected. A follow-up assessment is recommended.

- A. The laboratory must investigate all known temperature failures for the past year (July 2023 to Present) to determine if customer samples were in the incubator at the time of testing. A report of samples tested for the past year for *Enterococci* must be provided with the dates in and out of the incubator. The affected samples must be highlighted with the associated dates and times for the failed temperature of the incubator (M8M).
- B. Copies of amended test reports to be issued to all the laboratory's clients for all affected samples investigated. This will be provided to FL DH.
- C. The laboratory must provide evidence of corrective action for the incubator (M8M) service or replacement.
- D. Evidence an equilibrium/load test was performed and passed.
- E. Records of readings with the incubator in use (not with client samples) to verify the incubator is stable. At least two weeks must be provided.

V. CONCLUSIONS:

With the exception of the Deficiency documented in Comment #8 of this report, the laboratory's personnel, procedures, equipment, facilities, and quality system are currently in compliance with the requirements of FAC Rule 64E-1 and the 2016 NELAC Standards. If the deficiencies listed in Section II are corrected and the supporting documentation required in Comment #8 are submitted within 30 days of this report and are determined acceptable, certification, data acceptance and a follow-up assessment are recommended for Fields of Accreditation in the following category(ies):

DRINKING WATER – Primary Inorganic Contaminants, Secondary Inorganic Contaminants, Group II Unregulated Contaminants, Other Regulated Contaminants, Synthetic Organic Contaminants, Microbiology, NON-POTABLE WATER – Volatile Organics, Extractable Organics, Pesticides-Herbicides-PCB's, Metals, General Chemistry, Microbiology, SOLID AND CHEMICAL MATERIALS - Volatile Organics, Extractable Organics, Pesticides-Herbicides-PCB's, Metals, General Chemistry, Microbiology

The above category(ies) are referenced in 64E-1.007, Florida Administrative Code



STATE OF FLORIDA DEPARTMENT OF HEALTH

STATEMENT OF DEFICIENCIES AND PLAN OF CORRECTION
 READ INSTRUCTIONS CAREFULLY BEFORE COMPLETING

LABORATORY: Advanced Environmental Laboratories, Inc. – Miami	LAB I.D. NO.: E82535	DATE SURVEY COMPLETED: December 3-5, 2024	SURVEYOR: Jeanne Mensingh and Karen Olson
PARAMETERS SURVEYED: DRINKING WATER – Primary Inorganic Contaminants, Secondary Inorganic Contaminants, Group II Unregulated Contaminants, Other Regulated Contaminants, Synthetic Organic Contaminants, Microbiology, NON-POTABLE WATER – Volatile Organics, Extractable Organics, Pesticides-Herbicides-PCB's, Metals, General Chemistry, Microbiology, SOLID AND CHEMICAL MATERIALS -Volatile Organics, Extractable Organics, Pesticides-Herbicides-PCB's, Metals, General Chemistry, Microbiology			

4	<p>TNI V1M2 4.2.8.5 Laboratories shall maintain SOPs that accurately reflect all phases of current laboratory activities, such as assessing data integrity, corrective actions, handling customer complaints, and all methods.</p> <p>Evidence:</p> <p>A. The laboratory is not following their procedure for temperature readings (Tech-006r5) per the following sections.</p> <ol style="list-style-type: none"> 1. Section 6.6 "when readings are seen outside specified temperature ranges, a supervisor must be notified. If the reading is an anomaly; recheck after 30-60 mins. If the temperature is acceptable at that point, it may be recorded as passing. Temp shall be monitored closely with checks throughout the day": The receiving refrigerator M3Q 11/3/24 am reading was recorded at 7 degree C not meeting criteria of 0-6 degree C. A second reading was taken at 13:55 pm with a passing result of 5 degree C. (KO) 2. Section 7.5 "Working analog thermometers are to be verified (calibrated) against these master thermometers on an annual basis. The calibration should be either at one year within 2 weeks or in the same month of the previous year": The refrigerator M5AA thermometer expired 8/2/24. (KO) <p>B. Balance Verification and Operation procedure (Tech-004r6) section 2.5 states the "Working sets are either sent out for a check and calibration once every 5 years to a certified and approved vendor or verified annually against a NIST traceable." The M6E weight set used to verify TCLP/SPLP scale M1W1 were calibrated on 10/2/23 with reverification to be performed on 10/2/24. The scale M1W1 continues to be verified daily with an expired weight set.(KO)</p> <p>C. The laboratory is not following their procedure for EPA 1664B (O&G and TPH) procedure WC-004r 14) per the following sections:</p> <ol style="list-style-type: none"> 1. Section 14.11.3 "extract sample by shaking funnel vigorously for 2 mins". The analyst stated the funnel is shaken for 4 minutes. (KO) 	<p>4A: M21745 (1/3/2025)</p> <p style="text-align: center;">&</p> <p>M21746 (1/5/2025)</p> <p>4B: M21747 (2/4/2025)</p> <p>4C: M21748 (1/3/2025)</p>
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SIGNATURE: 
 Responsible Official
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2/14/2025
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	<p>2. Section 14.11.6 "filter paper cone filled with 10-20g of pre-cleaned sodium sulfate". The analyst uses a 1/2 tsp of sodium sulfate to fill filter paper. Additionally, the analyst does not follow section 14 in order written in the SOP. Section 14.11.6 was performed after 14.11.7 with 3 extractions caught prior to filtering with sodium sulfate. (KO)</p> <p>D. The laboratory odor test method (WC-011r16) states in section 14.6.1.1.3, "document time in and out of water bath". The time is not recorded. (KO)</p> <p>E. The laboratory test method for pH Solids WC-057 states in section 14.1.4 "20 g soil to 20 mL DI stir for 5 mins". The analyst is shaking the sample and not stirring for 5 min. (KO)</p> <p>F. The laboratory test method for FL-PRO SOP SVOC-004r13 states in section 14.2.12 "Extract ultrasonically for 3 minutes". The analyst stated samples are extracted ultrasonically for 5 minutes. (KO)</p> <p>G. The laboratory SOP ADMIN 022 R7 Sections 4.5.3.2 and 4.5.3.3 require all SOPs (technical and analytical) be reviewed annually. The laboratory has several SOPs outside the annual review. Additionally, all the microbiological methods have a three year review date. (JAM)</p> <p>H. Sample receiving does not perform preservation checks on all samples per SOP ADMIN-005 R9 Section 6.8 which states check the pH of all preserved samples. (JAM)</p> <p>I. Housekeeping daily activities for the microbiology department are not recorded per the requirements in SOP MICRO-019 R05 Microbiology QA. (JAM)</p> <p>J. Analyst comparison checks are not performed each month for all quantitative methods (i.e. SM9215B, SM9222D, SM9223B (QT Methods), etc.). The only record available was August 2024. (JAM)</p>	<p>4D: M21749 (1/3/2025)</p> <p>4E: M21750 (1/3/2025)</p> <p>4F: M21751 (2/1/2025)</p> <p>4G: M21752 (to be completed by 6/30/2025)</p> <p>4H: M21753 (2/11/2025)</p> <p>4I: M21781 (12/31/2024)</p> <p>4J: M21782 (to be completed by 3/31/2025)</p>
5	<p>TNI V1M2 4.15.1 and 4.15.3 In accordance with a predetermined schedule and procedure, the laboratory's top management shall periodically conduct a review of the laboratory's management system and testing and/or calibration activities to</p>	

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	<p>ensure their continuing suitability and effectiveness. Management review shall be completed on an annual basis.</p> <p>Evidence:</p> <p>The management review was not completed within the 12 month time period in Q1. 2021 (4/30/22) and 2023 (9/18/23) and 2024 (11/15/24). Additionally, there was no record of performing the management review for the 2022 time period. The laboratory management review 2023 covered the time period of 1/1/23-9/1/23 and 2024 only covered the time period of 1/1/24-11/1/24. There was no management review for Q4 of 2023. (JAM)</p>	<p>M21754 (1/3/2025)</p>
6	<p>TNI V1M2 4.9.1 b) an evaluation of the significance of the nonconforming work is made;</p> <p>Evidence:</p> <p>A. A nonconformance was not initiated for the <i>Enterococci</i> (9230 D-2013 and Enterolert QT) incubator (M8M) for failures in temperature readings (i.e. 6/9/24-6/11/24, 6/23/24, 6/24/24, and 6/30/24). The analyst adjusts the temperature (while samples are in the incubator) but does not recheck the temperature to make sure it is correct. These are only a few examples. Failures have occurred 1+ years. Additionally, M8M failed the equilibrium verification/load test but remains in use. (JAM) See Comment #8</p> <p>B. The DI water use was performed incorrectly per the note on the paperwork for the last two water changes (1/10/24 reviewed on 1/17 for incorrect method and 4/15/24 reviewed on 6/2/24 for incorrect method). There was no nonconforming work initiated. (JAM)</p>	<p>6A: M21729 (2/11/2025)</p> <p>6B: M21780 (to be completed by 3/31/2025)</p>

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7	TNI V1M2 4.11.4 The laboratory shall monitor the results to ensure that the corrective actions taken have been effective. Evidence: There are several laboratory corrective actions (I.e. 21438 and 21568) with no review to determine if the action have been effective. (JAM)	M21756 (2/11/2025)
8	TNI V1M2 4.3.2.2 a) The procedure(s) adopted shall ensure that: a) authorized editions of appropriate documents are available at all locations where operations essential to the effective functioning of the laboratory are performed; Evidence: A. The microbiology analyst used several versions of the form for the DI Water Use Test: D144 (1/10/22 and 1/25/19) and D144m (3/20/23). It was not clear which form was correct. (JAM) B. The metals analyst had a personal notebook with TCLP instructions handwritten. Additionally, there were "sticky notes" with information related to MS/MSD and RSD calculations on the desktop of the computer in the metals laboratory on the mercury computer. (JAM) C. The laboratory had a framed document in Wet Chemistry by the BOD area titled "Admiralty report limits as of October 2024" document with compliance criteria does not have a document number. (KO) D. The analyst uses an uncontrolled handwritten work instruction on how to dilute BOD/cBOD samples. (JAM) E. The microbiology analyst used several versions of the form for the DI Water Use Test (D144 (1/10/22 and 1/25/19) and D144m (3/20/23)). The analyst was unable to retrieve the correct version for the laboratory.	8A: M21757 (12/23/2024) 8B: M21758 (2/11/2025) 8C: M21759 (2/11/2025) 8D: M21760 (2/11/2025) 8E is the same as 8A.
9	TNI V1M4 1.6.3.1 The laboratory shall have a documented procedure describing ongoing DOC that includes procedures for how the laboratory will identify data associated with ongoing DOCs. The analyst(s) shall demonstrate on-going capability	

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12	<p>TNI V1M2 4.1.7.2 e) if absent for a period of time exceeding fifteen (15) consecutive calendar days shall designate another staff member meeting the qualifications of the technical manager(s) to temporarily perform this function. If this absence exceeds thirty-five (35) consecutive calendar days, the primary accreditation body shall be notified in writing; and</p> <p>Evidence: The laboratory does not have the requirement for 15 days or 35 days. Additionally, there is no requirement to notify the AB. (JAM)</p>	M21772 (to be completed by 3/31/2025)
13	<p>TNI V1M2 4.5.2 The laboratory shall advise the customer of the arrangement in writing and, when appropriate, gain the approval of the customer, preferably in writing.</p> <p>Evidence: The laboratory does not inform the customer in writing when work is subcontracted to other AEL laboratories. Additionally, the laboratory's website provides a way to customers to order and pay for services online. AEL does not inform the website customer their work is subcontracted to other AEL laboratories. The reports do reflect the locations for the test results. (JAM)</p>	M21774 (to be completed by 3/31/2025)
14	<p>TNI V1M2 4.2.8.1 The data integrity procedures shall be signed and dated by top management. Management shall annually review data integrity procedures and update as needed.</p> <p>Evidence: Data Integrity procedure (ADMIN-035) is only signed by QA and not top management. Additionally, the SOP Admin-035 04 2022-08-01 was last reviewed/ revised in 2022. (JAM)</p>	M21773 (to be completed by 3/31/2025)

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15	TNI V1M2 5.2.7 The initial data integrity training and the annual refresher training shall have a signature attendance sheet or other form of documentation that demonstrates all staff have participated and understand their obligations related to data integrity. Evidence: There were no records of data integrity training for J. C. for 2024 training. (JAM)	M21786 (2/11/2025)
16	TNI V1M2 5.5.13.1 e) ii. If quantitative results are dependent on their accuracy, such as in standard preparation or dispensing or dilution into a specified volume, the laboratory shall verify volumetric measuring devices as follows: Disposable or single-use volumetric equipment shall be verified once per lot, prior to or in conjunction with its first use; Evidence: The laboratory does not verify the digitubes (i.e. MWI24-5) at all the volumes used volumetrically for samples. (JAM)	M21778 (to be completed by 2/28/2025)
17	TNI V1M2 5.5.11 Where calibrations give rise to a set of correction factors, the laboratory shall have procedures to ensure that copies (e.g. in computer software) are correctly updated. Evidence: The total solids and total suspended solids samples are dried in oven M7C. The oven temperature readout has a correction factor of -2 deg C. The analyst recorded the observed temperature of 104 deg C from the oven readout. The analyst did not account for the correction factor. In addition, the recording of the temperature of 104 deg C with the applied correction factor (-2 deg C) would make this temperature (102 deg C) not meet method requirements of 103-105 deg C. (JAM)	Same as NCF10 M21763 (2/11/2025)

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18	<p>TNI V1M5 1.7.3.7 b) v. b. During periods when samples are under test, the laboratory shall have a system in place to monitor and document the temperature of incubators and water baths twice daily, at least four (4) hours apart. "Under test" is defined as the time period that the sample is in the incubation phase of the method.</p> <p>Evidence:</p> <p>The temperature was not taken for the pm check in microbiology for M8B2 (incubator) on November 17th 2024 (Sunday). Samples (I,e, Batch 4888 Colilert 18) were set up and incubated on that day.(JAM)</p>	M21779 (1/3/2025)
19	<p>TNI V1M5 1.7.3.1 a) Sterility Checks – All materials and supplies that are needed to process the sample and are required to be sterile prior to use (whether sterilized in the laboratory or purchased as sterilized) must be checked by the laboratory once per purchased or prepared lot using non-selective growth media as appropriate. Certificates of analysis provided by vendor shall be verified by the laboratory and retained in accordance with V1M2 5.6.4.2.a.</p> <p>Evidence:</p> <p>All sterility checks (i.e. membrane filters, funnels, QuantiTrays, Tubes, Media, etc.) for the microbiology laboratory are performed in use. The sterility checks are not performed prior to use.(JAM)</p>	M21783 (to be completed by 3/31/2025)
20	<p>TNI V1M4 1.7.1.1 k) ii. The laboratory shall use and document a measure of relative error in the calibration. For calibrations evaluated using correlation coefficient or coefficient of determination, the laboratory shall evaluate relative error by either: measurement of the Relative Error (%RE); or measurement of the relative Standard Error (%RSE).</p> <p>Evidence:</p> <p>The laboratory does not evaluate relative error for wet chemistry methods (i.e. EPA 351.2, EPA 350.1, EPA 365.4, and SM 3500-Cr D). (JAM)</p>	M21784 (to be completed by 4/30/2025)

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21	<p>TNI V1M4 1.7.2.1 a) Negative Control – Method Performance: Method Blank, a) The method blank is used to assess the samples in the preparation batch for possible contamination during the preparation and processing steps. The method blank shall be processed along with and under the same conditions as the associated samples to include all steps of the analytical procedure.</p> <p>TNI V1M4 1.7.2.2.1 The LCS is used to evaluate the performance of the total analytical system, including all preparation and analysis steps.</p> <p>Evidence:</p> <p>The method blank and LCS are not processed the same as samples for ammonia (EPA 350.1) and chromium VI (SM 3500 Cr-B and SM 3500 Cr-D). The method blank and LCS are not filtered when samples are filtered. (JAM)</p>	M21785 (to be completed by 4/30/2025)
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STATEMENT OF DEFICIENCIES AND PLAN OF CORRECTION

PLEASE FOLLOW THESE INSTRUCTIONS:

In completing the laboratory's section of this form, you should closely observe the following:

1. Review the instructions.
2. Complete the form legibly.
3. Each deficiency is consecutively numbered with an I.D. Prefix Tag. Your plan of correction should repeat these numbers for identification of each deficiency in the I.D. Prefix Tag Column.
4. Reply to each deficiency cited by reporting the specific action you have taken to effect compliance and enter the corrective action below the deficiency. Use attachments if necessary. Enter the date it was accomplished in the Completion Date Column (4).
5. For any item which has not yet been corrected, report the specific action you intend to take to correct the deficiency. Enter the anticipated date of completion in the Completion Date Column (4).
6. You must present a realistic plan with reasonable time frames based upon the extent and nature of the deficiencies cited.
7. There should be no statements which can be construed as defaming some other party, such as another institution, employees of the institution, etc.
8. You should frame your plan of correction in language that can be readily understood by the lay person.
9. If you do not concur with any of the deficiencies stated, your rationale to support this position must be indicated on the form.
10. The form must be completed, signed and dated by a responsible official.
11. The original must be returned within thirty (30) calendar days. Retain copy for your files.
12. Failure to submit a timely reply will leave the Bureau of Public Health Laboratories no alternative except to submit a finding of non-compliance and deny or revoke certification.

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4. Reply to each deficiency cited by reporting the specific action you have taken to effect compliance and enter the corrective action below the deficiency. Use attachments if necessary. Enter the date it was accomplished in the Completion Date Column (4).
5. For any item which has not yet been corrected, report the specific action you intend to take to correct the deficiency. Enter the anticipated date of completion in the Completion Date Column (4).
6. You must present a realistic plan with reasonable time frames based upon the extent and nature of the deficiencies cited.
7. There should be no statements which can be construed as defaming some other party, such as another institution, employees of the institution, etc.
8. You should frame your plan of correction in language that can be readily understood by the lay person.
9. If you do not concur with any of the deficiencies stated, your rationale to support this position must be indicated on the form.
10. The form must be completed, signed and dated by a responsible official.
11. The original must be returned within thirty (30) calendar days. Retain copy for your files.
12. Failure to submit a timely reply will leave the Bureau of Public Health Laboratories no alternative except to submit a finding of non-compliance and deny or revoke certification.

NATIONAL ENVIRONMENTAL LABORATORY
ACCREDITATION PROGRAM
ON-SITE LABORATORY ASSESSMENT REPORT
Bureau of Public Health Laboratories
Florida Department of Health

Laboratory: Advanced Environmental Laboratories, Inc. – Miami
Physical Address: 10200 USA Today Way
Miramar, FL 33025
I. D. Number: E82535
Date of Assessment: April 1-2, 2025
Categories Assessed: DRINKING WATER Microbiology, Primary Inorganic Contaminants, Secondary Inorganic Contaminants, Synthetic Organic Contaminants, Other Regulated Contaminants, Group II Unregulated Contaminants; NON-POTABLE WATER Microbiology, Metals, General Chemistry, Volatile Organics, Extractable Organics, Pesticides-Herbicides-PCBs; SOLID & CHEMICAL MATERIALS Microbiology, Metals, General Chemistry, Volatile Organics, Extractable Organics, Pesticides-Herbicides-PCBs
Assessor: Carl C. Kircher, Ph.D.

I. INTRODUCTION:

This laboratory was inspected on-site to verify compliance with Florida Administrative Code (FAC) Rule 64E-1, Certification of Environmental Testing Laboratories, which now incorporates by reference the 2016 standards adopted at the National Environmental Laboratory Accreditation Conference (NELAC).

II. DEFICIENCIES:

See the accompanying DH Form 1137. Proposed corrective action plans, estimated completion dates, and original signatures & dates from responsible laboratory officials must be returned on this form to this office within 30 days of receipt of this report.

III. LABORATORY TECHNICAL DIRECTORS (Name & Title):

Jesse Cutshaw
Anda Quintero

Laboratory Manager
Quality Assurance Officer

IV. COMMENTS:

1. This on-site assessment was conducted as a follow-up on-site assessment that was recommended by the third-party contract Provider. The laboratory's next regular biennial on-site assessment is due on or before December 3, 2026.
2. The primary concern for this follow-up on-site assessment was Enterococci testing, where approximately a year's worth of testing took place utilizing an incubator that could not hold the temperature within the prescribed tolerances of 41.0 +/- 0.5 degrees Celsius. After the December 2024 assessment the laboratory purchased and placed into service a new incubator that is currently functioning properly and passed all the necessary equilibration, temperature distribution, and accuracy tests.

During the assessment, Microbiology sample batch data and Enterococci test reports were examined for randomly-selected batches from July 2023 to the present, where the incubation temperatures were not within the method-specified requirements. The laboratory committed to the prior assessment team that reports would be recalled, amended, and reissued, with the clients given the opportunity to resample and reanalyze for Enterococci. The laboratory also committed to stop work for all Enterococci testing until all the applicable non-conformities were corrected. The amended reports contained one or more of the following:

- Test results flagged as invalid because the incubation temperature was not within the proper range.
- Test results explicitly made reference to the Case Narrative, which stated that the incubation temperature was not in the acceptance range and noted the actual temperature that was outside the range.
- Test results explicitly made reference to "Batch Comments," which contained the same information as noted in the Case Narrative description above.
- Test results were flagged with a J5 data qualifier code, with the accompanying explanation that the Enterococci values were estimated results because the laboratory protocols did not meet method or regulatory requirements.

Laboratory feedback from the affected clients seemed to indicate that there were no adverse consequences to the test results that were previously issued, and one client was anxious to have the laboratory resume work after the stop-work order was previously instigated.

3. The laboratory corrective action plans and associated documentation to the deficiencies identified during the December 2024 assessment were reviewed. Most of the findings were found to be satisfactorily corrected. However, Deficiencies #1, 2, 3, 4, 5, and 6 in this report denote REPEAT DEFICIENCIES of the same occurrences that were cited during the previous assessment. Failure to correct deficiencies with corrective action plans and to maintain correction of such deficiencies constitutes violations of Sections 403.0625(4) and 403.863(4) of the Florida Statutes, from which fines and administrative penalties may be imposed. To maintain certification for the analytes and test methods that are affected by the recurring findings, the laboratory must submit objective evidence along with the corrective action plans to Deficiencies #1, 2, 3, 4, 5, and 6. The evidence must be sufficient to demonstrate correction and to prevent recurrence. At a minimum, the objective evidence must consist of the following:

- (a) Copy of the laboratory's master list of all SOPs and Forms in use at the laboratory, to indicate that the date of the previous review and/or revision has or will have occurred within the previous year.
- (b) Copies of the laboratory's sample receipt records and/or benchsheets for all Ammonia, Kjeldahl Nitrogen, and Total Phosphorus samples analyzed during the months of April and May 2025, to indicate that each sample has been preserved to pH<2. Note that sample test results may be invalid or require data qualification if the acidification was done at the laboratory and not in the field during sampling.
- (c) Copies of Microbiology quantitative analysis benchsheets for SM9215B, SIMPLATE, ENTEROLERT Quantitray, SM9230D, SM9223B/Quantitray, and SM9223B-2016 Colilert-18 Quantitray during the months of April and May 2025, to indicate that each Microbiology analyst has counted the positive results from the same sample on a monthly basis for each test method above, with results within 10% relative percent difference.
- (d) Copy of the raw data and evaluation results to be performed for the next Microbiology reagent water Use Test, to be performed either in April or May 2025. The form used must match the form documented in the master list to be submitted for item (a) above.
- (e) Copy of the laboratory's revised SOP for conducting internal audits, to show that all elements of the laboratory's quality management system and all test methods are to be covered in the annual internal audit.

(f) Copy of the laboratory's approved list and credentials (certificates are OK) for all subcontract laboratories used, plus three examples of client acceptance to the intent for AEL Miami to subcontract the requested testing to these facilities. The laboratory may obliterate client identity information in its submittal.

4. If all deficiencies noted in this report and the documentation to be submitted for Comment 3 above are evaluated and determined to be acceptably corrected, certification may be recommended for the additional analytes and test methods that were requested on the application form dated October 4, 2024:

ANALYTES	TEST METHODS
DRINKING WATER MATRIX	
Antimony	EPA 200.7
Lithium	EPA 200.7
Chromium(VI)	SM3500Cr B (20 th /21 st /22 nd Ed.)/UV-VIS (replacing SM3500Cr D (18 th /19 th Ed.)/UV-VIS)
Heterotrophic Plate Count (HPC)	SIMPLATE
NON-POTABLE WATER MATRIX	
Chromium(VI)	SM3500Cr B (20 th /21 st /22 nd Ed.)/UV-VIS (replacing SM3500Cr D (18 th /19 th Ed.)/UV-VIS)
Heterotrophic Plate Count (HPC)	SIMPLATE
Oil and Grease	EPA 1664B (replacing EPA 1664A)
Total Petroleum Hydrocarbons (TPH)	EPA 1664B (replacing EPA 1664A)

5. Continuing demonstrations of capability, detection and/or quantitation verifications, and/or quality control data were not available within the past year for any of the following certified analytes and test methods. The laboratory should relinquish certifications for those fields of accreditation that are not in routine use.

ANALYTES	TEST METHODS
NON-POTABLE WATER MATRIX	
Diphenylamine (cannot distinguish from N-Nitrosodiphenylamine)	EPA 8270E
Hexachlorophene	EPA 8270E
Kepone	EPA 8270E
m-Xylene (cannot distinguish from coeluting p-Xylene)	EPA 624.1
p-Xylene (cannot distinguish from coeluting m-Xylene)	EPA 624.1
Chloroprene	EPA 8260D
cis-1,4-Dichloro-2-butene	EPA 8260D
Isopropyl Acetate	EPA 8260D
Methyl Methacrylate	EPA 8260D
n-Amyl Acetate	EPA 8260D
Pentachloroethane	EPA 8260D
SOLID AND CHEMICAL MATERIALS MATRIX	
Diphenylamine (cannot distinguish from N-Nitrosodiphenylamine)	EPA 8270E
Kepone	EPA 8270E
Chloroprene	EPA 8260D
cis-1,4-Dichloro-2-butene	EPA 8260D

Di-Isopropyl Ether (DIPE)	EPA 8260D
Ethanol	EPA 8260D
Ethyl tert-Butyl Ether (ETBE)	EPA 8260D
Isobutyl Alcohol	EPA 8260D
Isopropyl Acetate	EPA 8260D
Isopropyl Alcohol	EPA 8260D
Methyl Methacrylate	EPA 8260D
n-Amyl Acetate	EPA 8260D
Pentachloroethane	EPA 8260D
tert-Amyl Methyl Ether (TAME)	EPA 8260D
tert-Butyl Alcohol (TBA)	EPA 8260D

6. The Quality Manual reviewed at this laboratory was Revision Number 11.0, with an Effective Date of September 1, 2024.

7. In addition to the technical directors noted above in Section III, the following laboratory personnel participated in this on-site assessment: Chloe Dupuis, Mismel Ruiz, Ralph Misere, Ashley Romero, Diana Laura Darces, Johanna Garces, Thais Limonta, Cynthia Marks, Yolanda Saavedra, Krysten Berdini, Alani Carrasco, Livamia Quinomes, and Kimberly Navarrete.

8. Deficiencies cited on DH Form 1137 with this report may not be limited to the examples cited. The laboratory evaluations for corrective action should address depth and extent to where the particular deficiency applies. If the laboratory discovers the deficiencies as applicable in other laboratory areas, it must fix these as well.

V. CONCLUSIONS:

Except for the Repeat Deficiencies documented in Comment 3 above, the laboratory's personnel, procedures, equipment, facilities, and quality system are in compliance with the requirements of FAC Rule 64E-1 and the 2016 NELAC Standards. Upon satisfactory correction all the deficiencies noted in this report, continued certification and data acceptance for Fields of Accreditation in the following categories can be recommended:

DRINKING WATER Microbiology, Primary Inorganic Contaminants, Secondary Inorganic Contaminants, Synthetic Organic Contaminants, Other Regulated Contaminants, Group II Unregulated Contaminants; NON-POTABLE WATER Microbiology, Metals, General Chemistry, Volatile Organics, Extractable Organics, Pesticides-Herbicides-PCBs; SOLID & CHEMICAL MATERIALS Microbiology, Metals, General Chemistry, Volatile Organics, Extractable Organics, Pesticides-Herbicides-PCBs

The above categories are referenced in Rule 64E-1.007, Florida Administrative Code.



STATE OF FLORIDA DEPARTMENT OF HEALTH
STATEMENT OF DEFICIENCIES AND PLAN OF CORRECTION

READ INSTRUCTIONS CAREFULLY BEFORE COMPLETING

LABORATORY: Advanced Environmental Laboratories, Inc. - Miami	LAB I.D. NO.: E82535	DATE SURVEY COMPLETED: April 1-2, 2025	SURVEYOR: Carl C. Kircher, Ph.D.
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PARAMETERS SURVEYED:

 DRINKING WATER Microbiology, Primary Inorganic Contaminants, Secondary Inorganic Contaminants, Synthetic Organic Contaminants, Other Regulated Contaminants, Group II Unregulated Contaminants; NON-POTABLE WATER Microbiology, Metals, General Chemistry, Volatile Organics, Extractable Organics, Pesticides-Herbicides-PCBs; SOLID & CHEMICAL MATERIALS Microbiology, Metals, General Chemistry, Volatile Organics, Extractable Organics, Pesticides-Herbicides-PCBs

(1) I.D. PREFIX TAG	(2) SUMMARY STATEMENT OF DEFICIENCIES	(3) LABORATORY'S PLAN OF CORRECTION <small>(Each corrective action should be cross-referenced to the appropriate deficiency)</small>	(4) COMPLETION DATE
1.	TNI V1M2, 4.3.2.2(b) – The laboratory's adopted document control procedures do not ensure that documents are periodically reviewed and, where necessary, revised to ensure continuing suitability and compliance with applicable requirements (laboratory personnel stated that some SOPs still have not been reviewed within the committed frequency of annually; REPEAT DEFICIENCY).		NCF M21815 (target completion date is 9/30/2025)
2.	TNI V1M2, 5.8.7.1 – The laboratory does not implement procedures for verifying and documenting sample preservation (pH<2 not checked and documented for Ammonia, Kjeldahl Nitrogen, and Total Phosphorus samples; REPEAT DEFICIENCY).		NCF M21816 (5/14/2025)
3.	TNI V1M5, 1.7.3.3 – If the test method specifies quantitative results, the laboratory does not verify the ability of individual analysts to count colonies at least once per month by having two or more analysts count typical results from the same sample, with results within 10% RPD to be acceptable (HPC and all Quantitray methods; REPEAT DEFICIENCY).		NCF M21817 (5/15/2025)
4.	TNI V1M2, 4.3.2.1 – Master lists or equivalent document control procedures are not readily available to preclude the use of invalid and/or obsolete documents (both DI Water Use Test forms D144 (1/10/22 and 1/25/19) and D144m (3/20/23) were still in use; REPEAT DEFICIENCY).		NCF M21818 (4/25/2025)

SIGNATURE:  _____ 5/19/2025 _____ Page 1 of 6
 Responsible Official DATE



**STATE OF FLORIDA DEPARTMENT OF HEALTH
STATEMENT OF DEFICIENCIES AND PLAN OF CORRECTION**

READ INSTRUCTIONS CAREFULLY BEFORE COMPLETING

LABORATORY: Advanced Environmental Laboratories, Inc. - Miami	LAB I.D. NO.: E82535	DATE SURVEY COMPLETED: April 1-2, 2025	SURVEYOR: Carl C. Kircher, Ph.D.
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PARAMETERS SURVEYED:

DRINKING WATER Microbiology, Primary Inorganic Contaminants, Secondary Inorganic Contaminants, Synthetic Organic Contaminants, Other Regulated Contaminants, Group II Unregulated Contaminants; NON-POTABLE WATER Microbiology, Metals, General Chemistry, Volatile Organics, Extractable Organics, Pesticides-Herbicides-PCBs; SOLID & CHEMICAL MATERIALS Microbiology, Metals, General Chemistry, Volatile Organics, Extractable Organics, Pesticides-Herbicides-PCBs

(1) I.D. PREFIX TAG	(2) SUMMARY STATEMENT OF DEFICIENCIES	(3) LABORATORY'S PLAN OF CORRECTION <small>(Each corrective action should be cross-referenced to the appropriate deficiency)</small>	(4) COMPLETION DATE
5.	TNI V1M2, 4.14.1 – The laboratory's internal audit program has not addressed all elements of the management system, including the environmental testing activities (the laboratory committed to revising the SOP to ensure this deficiency's correction, but the SOP revision was not completed by the indicated completion date or during this assessment; REPEAT DEFICIENCY).		NCF M21219 (4/25/2025)
6.	TNI V1M2, 4.5.2 – The laboratory does not advise its customers in writing of any subcontracting arrangements for testing the customer's samples (laboratory staff stated that provision was not formulated yet to gain customer approval of subcontracting arrangements to laboratories other than the AEL network laboratories outside of the E82535 Miramar facility; REPEAT DEFICIENCY).		NCF M21220 (5/15/2025)
7.	TNI V1M2, 4.2.8.4(j) – The laboratory's Quality Manual does not include or reference the procedures for handling samples (Appendix 6.1 in the Quality Manual does not include required sample holding times).		NCF M21821 (targeted completion date is 9/30/2025)
8.	TNI V1M2, 5.5.5(g) – Equipment records do not include the maintenance plan, where appropriate, and maintenance carried out to date (last entry in the Hellige color apparatus was in March 2023 and did not include the calibration of the color wheel with platinum-cobalt standards in July 2024; color wheel M6AB-A was not included as a component on the color apparatus maintenance log).		NCF M21822 (4/16/2025)

SIGNATURE:  _____ 5/19/2025 _____ Page 2 of 6
Responsible Official DATE



**STATE OF FLORIDA DEPARTMENT OF HEALTH
STATEMENT OF DEFICIENCIES AND PLAN OF CORRECTION**

READ INSTRUCTIONS CAREFULLY BEFORE COMPLETING

LABORATORY: Advanced Environmental Laboratories, Inc. - Miami	LAB I.D. NO.: E82535	DATE SURVEY COMPLETED: April 1-2, 2025	SURVEYOR: Carl C. Kircher, Ph.D.
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PARAMETERS SURVEYED:

DRINKING WATER Microbiology, Primary Inorganic Contaminants, Secondary Inorganic Contaminants, Synthetic Organic Contaminants, Other Regulated Contaminants, Group II Unregulated Contaminants; NON-POTABLE WATER Microbiology, Metals, General Chemistry, Volatile Organics, Extractable Organics, Pesticides-Herbicides-PCBs; SOLID & CHEMICAL MATERIALS Microbiology, Metals, General Chemistry, Volatile Organics, Extractable Organics, Pesticides-Herbicides-PCBs

(1) I.D. PREFIX TAG	(2) SUMMARY STATEMENT OF DEFICIENCIES	(3) LABORATORY'S PLAN OF CORRECTION <small>(Each corrective action should be cross-referenced to the appropriate deficiency)</small>	(4) COMPLETION DATE
9.	TNI V1M4, 1.2 – The laboratory has not demonstrated compliance with additional Chemistry quality control requirements specified in a mandated test method or regulation. Examples include, but may not be limited to: (a) Linear Dynamic Range has not been evaluated and documented for Lithium by EPA Method 200.7. (b) Linear Calibration Range has not been defined and confirmed every 6 months for EPA 300.0 analytes that are calibrated with a non-linear quadratic calibration curve, with at least 3 standards used to define the linear range.		NCF M21823 (5/9/2025) NCF M21824 (5/19/2025)
10.	TNI V1M2, 4.13.3(a) – Laboratory records do not document all information relating to the laboratory facilities equipment, analytical test methods, and related laboratory activities. Examples include but may not be limited to: (a) The date opened is recorded only on the container of dehydrated Microbiology media; the open date and subsequent six-month expiration date are not recorded elsewhere in the laboratory's records (m-Endo Lot #3297811 and m-FC Lot #4256778). (b) Analysis benchsheets for Cr(VI) do not indicate samples that were filtered in the laboratory, as opposed to being analyzed unfiltered. (c) Method Detection Limit summary for PCBs does not document the analysis dates (in October 2024), the analysts involved with the extractions and the GC/ECD analyses, and the correct method number (EPA 608.3).		NCF M21825 (5/15/2025) NCF M21826 (4/30/2025) NCF M21827 (5/15/2025)

SIGNATURE:  _____ 5/19/2025 _____ Page 3 of 6
Responsible Official DATE



STATE OF FLORIDA DEPARTMENT OF HEALTH
STATEMENT OF DEFICIENCIES AND PLAN OF CORRECTION

READ INSTRUCTIONS CAREFULLY BEFORE COMPLETING

LABORATORY: Advanced Environmental Laboratories, Inc. - Miami	LAB I.D. NO.: E82535	DATE SURVEY COMPLETED: April 1-2, 2025	SURVEYOR: Carl C. Kircher, Ph.D.
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PARAMETERS SURVEYED:

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(1) I.D. PREFIX TAG	(2) SUMMARY STATEMENT OF DEFICIENCIES	(3) LABORATORY'S PLAN OF CORRECTION <small>(Each corrective action should be cross-referenced to the appropriate deficiency)</small>	(4) COMPLETION DATE
11.	TNI V1M2, 4.2.8.5(f) – The laboratory does not clearly indicate in its methods manual any modifications made to the referenced test method or describe any changes or clarifications where the referenced test method is ambiguous or provides insufficient detail. Examples include but may not be limited to: (a) SOP for EPA 9050 does not include how solids samples are prepared prior to the subsequent measurements for Conductivity. (b) Total Phosphorus SOP does not document the use of copper sulfate as the digestion reagent, as a modification to the mercury-based reagent specified in EPA 365.4.		NCF M21828 (5/17/2025) NCF M21829 (Targeted completion date is 5/30/2025)
12.	TNI V1M2, 4.4.2 – The laboratory does not maintain the records of its reviews that lead to a contract or client agreement for environmental testing services, including any significant changes (e.g., records not available for the new work reviews leading up to submittal of samples from Advanced Environmental Laboratories in Altamonte Springs as a client).		NCF M21830 (5/2/2025)
13.	TNI V1M2, 4.13.3(f)(xv) – The laboratory's records do not include documentation of backups of automated and electronic data entries (records of computer backups performed at Advanced Environmental Laboratories in Tampa are not made available to the Miami laboratory).		NCF M21831 (5/18/2025)

SIGNATURE:  _____ 5/19/2025 _____ Page 4 of 6
 Responsible Official DATE



STATE OF FLORIDA DEPARTMENT OF HEALTH
STATEMENT OF DEFICIENCIES AND PLAN OF CORRECTION

READ INSTRUCTIONS CAREFULLY BEFORE COMPLETING

LABORATORY: Advanced Environmental Laboratories, Inc. - Miami	LAB I.D. NO.: E82535	DATE SURVEY COMPLETED: April 1-2, 2025	SURVEYOR: Carl C. Kircher, Ph.D.
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PARAMETERS SURVEYED:

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(1) I.D. PREFIX TAG	(2) SUMMARY STATEMENT OF DEFICIENCIES	(3) LABORATORY'S PLAN OF CORRECTION <small>(Each corrective action should be cross-referenced to the appropriate deficiency)</small>	(4) COMPLETION DATE
14.	TNI V1M2, 4.11.3 – The laboratory has not documented and implemented any required changes resulting from corrective action investigations (March 2025 temperature log for Refrigerator M3Q indicates an out-of-control temperature of 7 degrees Celsius on March 16; benchsheet says to notify QA but there is no record to indicate that QA was in fact notified of this occurrence).		NCF M21832 (5/19/2025)
15.	TNI V1M2, 5.5.5 – The laboratory does not maintain records of each major item of equipment significant to the environmental tests performed (no maintenance log was prepared for Spectrophotometer M6L used for (Cr(VI) analyses).		NCF M21833 (5/18/2025)
16.	TNI V1M2, 5.9.3(c) – Laboratory data does not indicate that quality control protocols in its Standard Operating Procedures are being followed (Cr(VI) analyst stated that color reagent was added first to the sample followed by acidification to the designated pH value; however, both the SOP and the reference method require sample acidification first prior to the addition of the color reagent).		NCF M21834 (4/30/2025)
17.	TNI V1M2, 5.6.4.2(d) – Containers of prepared reagents, standards, and reference materials do not all bear a unique identifiers and expiration dates (no label was placed on the EPA 300.0 eluent container).		NCF M21835 (5/15/2025)

SIGNATURE: _____  _____ 5/19/2025 _____ Page 5 of 6
 Responsible Official DATE



**STATE OF FLORIDA DEPARTMENT OF HEALTH
STATEMENT OF DEFICIENCIES AND PLAN OF CORRECTION**

READ INSTRUCTIONS CAREFULLY BEFORE COMPLETING

LABORATORY: Advanced Environmental Laboratories, Inc. - Miami	LAB I.D. NO.: E82535	DATE SURVEY COMPLETED: April 1-2, 2025	SURVEYOR: Carl C. Kircher, Ph.D.
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(1) I.D. PREFIX TAG	(2) SUMMARY STATEMENT OF DEFICIENCIES	(3) LABORATORY'S PLAN OF CORRECTION <small>(Each corrective action should be cross-referenced to the appropriate deficiency)</small>	(4) COMPLETION DATE
18.	TNI V1M2, 4.13.3(f)(ii) – Sample analysis records do not include a written description or reference to the test methods used. Examples include, but may not be limited to: (a) Extraction method for soil-matrix PCB method detection limit evaluations incorrectly documents EPA 3510 (instead of EPA 3550) as the method (and also documents the concentration units incorrectly as ug/L). (b) LCS summary for the non-potable water continuing demonstration of capability documents the method incorrectly as EPA 8270C (and not EPA 8270E) and does not include EPA 625.1.		NCF M21386 (4/24/2025) NCF M21837 (4/21/2025)
19.	TNI V1M2, 1.1 and Florida Administrative Code Rule 64E-1.005(1) – Data is not available for review that was generated within the previous year for each certified analyte and test method (see Comment 5).		NCF M21838 (targeted completion date is 7/30/2025)

SIGNATURE: _____  _____ 5/19/2025 _____ Page 6 of 6
Responsible Official DATE

STATEMENT OF DEFICIENCIES AND PLAN OF CORRECTION

PLEASE FOLLOW THESE INSTRUCTIONS:

In completing the laboratory's section of this form, you should closely observe the following:

1. Review the instructions.
2. Complete the form legibly.
3. Each deficiency is consecutively numbered with an I.D. Prefix Tag. Your plan of correction should repeat these numbers for identification of each deficiency in the I.D. Prefix Tag Column.
4. Reply to each deficiency cited by reporting the specific action you have taken to effect compliance and enter the corrective action below the deficiency. Use attachments if necessary. Enter the date it was accomplished in the Completion Date Column (4).
5. For any item which has not yet been corrected, report the specific action you intend to take to correct the deficiency. Enter the anticipated date of completion in the Completion Date Column (4).
6. You must present a realistic plan with reasonable time frames based upon the extent and nature of the deficiencies cited.
7. There should be no statements which can be construed as defaming some other party, such as another institution, employees of the institution, etc.
8. You should frame your plan of correction in language that can be readily understood by the lay person.
9. If you do not concur with any of the deficiencies stated, your rationale to support this position must be indicated on the form.
10. The form must be completed, signed and dated by a responsible official.
11. The original must be returned within thirty (30) calendar days. Retain copy for your files.
12. Failure to submit a timely reply will leave the Bureau of Public Health Laboratories no alternative except to submit a finding of non-compliance and deny or revoke certification.

EVALUATION OF ASSESSORS

To improve the quality and receptiveness of our service to you and to maintain the quality of the laboratory inspection process, we request you complete the following evaluation. Since your comments are very important, please use the reverse side of this form to discuss issues not addressed in the items listed below:

Please return this evaluation to:

Susanne Crowe, MHA
Laboratory Director, Bureau of Public Health Laboratories - Jacksonville
Florida Department of Health
P. O. Box 210
Jacksonville, FL 32231

Assessor's name: Carl C. Kircher

Assessment dates: April 1-2, 2025

Time Assessor Arrived: _____ // LEFT: _____

	ITEM	YES	NO	NEUTRAL
1.	The assessor contacted you in advance to arrange for your assessment and answered your questions concerning needed documentation, time for preparation, and other concerns.			
2.	The assessor arrived on time at the agreed upon time and place.			
3.	The goals and objectives of the assessment were clearly delineated in the initial meeting.			
4.	The assessor's dress and appearance were professional and business like.			
5.	The assessor's questions and comments were pertinent to laboratory operations and inspection.			
6.	The assessor interacted with your staff in a courteous, helpful, professional manner.			
7.	The assessment findings were reflective of your laboratory's normal operation.			
8.	The assessment results were summarized in an exit interview following the assessment.			
9.	Correcting the deficiencies noted in the assessment results will improve your laboratory's operations and data quality.			
10.	The assessor's comments have been/will be helpful to your laboratory staff and laboratory operations.			
11.	The laboratory certification program is beneficial for your laboratory's analytical performance and professional marketability.			

OPTIONAL - LAB NAME: _____

Mission:

To protect, promote & improve the health of all people in Florida through integrated state, county & community efforts.



Ron DeSantis
Governor

Joseph A. Ladapo, MD, PhD
State Surgeon General

Vision: To be the Healthiest State in the Nation

April 18, 2025
I. D. #E82535

Advanced Environmental Laboratories, Inc. – Miami
10200 USA Today Way
Miramar, FL 33025

Dear Laboratory Director:

Attached is a copy of the April 1-2, 2025 On-Site Assessment Report, and the Statement of Deficiencies and Plan of Correction, DH Form 1137.

Please complete the Statement of Deficiencies and Plan of Correction per instructions on the form, sign and date, and return the original to this office along with any additional documentation required by this report within thirty (30) days of receipt.

A primary function of this agency is to assist facilities in maintaining standards consistent with good laboratory practice through compliance with minimum standards. If you have questions as to what is necessary to establish compliance with the rules for laboratory certification or if this agency may be of assistance in meeting these requirements, please feel free to call me at (904) 791-1574.

Sincerely,

Carl C. Kircher, Ph.D.
Chemist III
Environmental Laboratory Certification Program





State of Florida
 Department of Health, Bureau of Public Health Laboratories
 This is to certify that



E82574

ADVANCED ENVIRONMENTAL LABORATORIES, INC.
 6681 SOUTHPOINT PARKWAY
 JACKSONVILLE, FL 32216

has complied with Florida Administrative Code 64E-1,
 for the examination of environmental samples in the following categories

DRINKING WATER - GROUP I UNREGULATED CONTAMINANTS, DRINKING WATER - GROUP II UNREGULATED CONTAMINANTS, DRINKING WATER - GROUP III UNREGULATED CONTAMINANTS, DRINKING WATER - MICROBIOLOGY, DRINKING WATER - OTHER REGULATED CONTAMINANTS, DRINKING WATER - PRIMARY INORGANIC CONTAMINANTS, DRINKING WATER - SECONDARY INORGANIC CONTAMINANTS, DRINKING WATER - RADIOCHEMISTRY, DRINKING WATER - SYNTHETIC ORGANIC CONTAMINANTS, NON-POTABLE WATER - EXTRACTABLE ORGANICS, NON-POTABLE WATER - GENERAL CHEMISTRY, NON-POTABLE WATER - METALS, NON-POTABLE WATER - MICROBIOLOGY, NON-POTABLE WATER - PESTICIDES-HERBICIDES-PCB'S, NON-POTABLE WATER - VOLATILE ORGANICS, SOLID AND CHEMICAL MATERIALS - EXTRACTABLE ORGANICS, SOLID AND CHEMICAL MATERIALS - GENERAL CHEMISTRY, SOLID AND CHEMICAL MATERIALS - METALS, SOLID AND CHEMICAL MATERIALS - MICROBIOLOGY, SOLID AND CHEMICAL MATERIALS - PESTICIDES-HERBICIDES-PCB'S, SOLID AND CHEMICAL MATERIALS - VOLATILE ORGANICS

Continued certification is contingent upon successful on-going compliance with the NELAC Standards and FAC Rule 64E-1 regulations. Specific methods and analytes certified are cited on the Laboratory Scope of Accreditation for this laboratory and are on file at the Bureau of Public Health Laboratories, P. O. Box 210, Jacksonville, Florida 32231. Clients and customers are urged to verify with this agency the laboratory's certification status in Florida for particular methods and analytes.

Date Issued: July 01, 2025 Expiration Date: June 30, 2026



Marie-Claire Rowlinson, PhD, D(ABMM)
 Bureau of Public Health Laboratories
 DH Form 1697, 7/04

NON-TRANSFERABLE E82574-102-07/01/2025
 Supersedes all previously issued certificates



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Drinking Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
5105	1,1,1,2-Tetrachloroethane	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
5160	1,1,1-Trichloroethane	EPA 524.2	10088809	Other Regulated Contaminants	1/21/2005
5110	1,1,2,2-Tetrachloroethane	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
5165	1,1,2-Trichloroethane	EPA 524.2	10088809	Other Regulated Contaminants	1/21/2005
4630	1,1-Dichloroethane	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
4640	1,1-Dichloroethylene	EPA 524.2	10088809	Other Regulated Contaminants	1/21/2005
4670	1,1-Dichloropropene	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
5150	1,2,3-Trichlorobenzene	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
5180	1,2,3-Trichloropropane	EPA 504.1	10082801	Group II Unregulated Contaminants	5/10/2011
5180	1,2,3-Trichloropropane	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
5155	1,2,4-Trichlorobenzene	EPA 524.2	10088809	Other Regulated Contaminants	1/21/2005
5210	1,2,4-Trimethylbenzene	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
4570	1,2-Dibromo-3-chloropropane (DBCP)	EPA 504.1	10082801	Synthetic Organic Contaminants	4/4/2002
4585	1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 504.1	10082801	Synthetic Organic Contaminants	4/4/2002
4610	1,2-Dichlorobenzene	EPA 524.2	10088809	Other Regulated Contaminants	1/21/2005
4635	1,2-Dichloroethane	EPA 524.2	10088809	Other Regulated Contaminants	1/21/2005
4655	1,2-Dichloropropane	EPA 524.2	10088809	Other Regulated Contaminants	1/21/2005
5215	1,3,5-Trimethylbenzene	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
4615	1,3-Dichlorobenzene	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
4660	1,3-Dichloropropane	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
4620	1,4-Dichlorobenzene	EPA 524.2	10088809	Other Regulated Contaminants	1/21/2005
9490	11-Chloroeicosafiuoro-3-oxaundecane-1-sulfo nic Acid (11-CIPF3OUdS)	EPA 533	10091619	Group III Unregulated Contaminants	6/19/2020
9490	11-Chloroeicosafiuoro-3-oxaundecane-1-sulfo nic Acid (11-CIPF3OUdS)	EPA 537.1 (Rev. 2)	10091595	Group III Unregulated Contaminants	3/19/2025
6948	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2 FTS)	EPA 533	10091619	Group III Unregulated Contaminants	6/19/2020
6946	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	EPA 533	10091619	Group III Unregulated Contaminants	6/19/2020
6947	1H,1H,2H,2H-Perfluoro-octanesulfonic Acid (6:2 FTS)	EPA 533	10091619	Group III Unregulated Contaminants	6/19/2020
4665	2,2-Dichloropropane	EPA 524.2	10088809	Group II Unregulated Contaminants	4/2/2024
8545	2,4-D	EPA 515.3	10088401	Synthetic Organic Contaminants	3/29/2006
4535	2-Chlorotoluene	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
7710	3-Hydroxycarbofuran	EPA 531.1	10091006	Group I Unregulated Contaminants	7/12/2019
6951	4,8-Dioxa-3H-perfluorononanoic Acid (ADONA)	EPA 533	10091619	Group III Unregulated Contaminants	6/19/2020
6951	4,8-Dioxa-3H-perfluorononanoic Acid (ADONA)	EPA 537.1 (Rev. 2)	10091595	Group III Unregulated Contaminants	3/19/2025
4540	4-Chlorotoluene	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type NELAP
Issue Date: 7/1/2025 Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway

Jacksonville, FL 32216

Matrix: Drinking Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
6952	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic Acid (9-CIPF3ONS)	EPA 533	10091619	Group III Unregulated Contaminants	6/19/2020
6952	9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic Acid (9-CIPF3ONS)	EPA 537.1 (Rev. 2)	10091595	Group III Unregulated Contaminants	3/19/2025
4315	Acetone	EPA 524.2	10088809	Group II Unregulated Contaminants	8/3/2012
7005	Alachlor	EPA 525.2	10090003	Synthetic Organic Contaminants	7/1/2023
7010	Aldicarb (Temik)	EPA 531.1	10091006	Group I Unregulated Contaminants	5/10/2011
7015	Aldicarb sulfone	EPA 531.1	10091006	Group I Unregulated Contaminants	7/26/2012
7020	Aldicarb sulfoxide	EPA 531.1	10091006	Group I Unregulated Contaminants	5/10/2011
7025	Aldrin	EPA 508	10085208	Group I Unregulated Contaminants	5/10/2011
1505	Alkalinity as CaCO3	EPA 310.1	10054805	Primary Inorganic Contaminants	12/8/2006
1505	Alkalinity as CaCO3	SM 2320 B	20045607	Primary Inorganic Contaminants	1/21/2005
1000	Aluminum	EPA 200.7	10013806	Secondary Inorganic Contaminants	4/4/2002
1005	Antimony	EPA 200.8	10014605	Primary Inorganic Contaminants	12/8/2006
1010	Arsenic	EPA 200.8	10014605	Primary Inorganic Contaminants	12/8/2006
7065	Atrazine	EPA 525.2	10090003	Synthetic Organic Contaminants	7/1/2023
1015	Barium	EPA 200.7	10013806	Primary Inorganic Contaminants	4/4/2002
1015	Barium	EPA 200.8	10014605	Primary Inorganic Contaminants	12/8/2006
4375	Benzene	EPA 524.2	10088809	Other Regulated Contaminants	1/21/2005
5580	Benzo(a)pyrene	EPA 525.2	10090003	Synthetic Organic Contaminants	7/1/2023
1020	Beryllium	EPA 200.7	10013806	Primary Inorganic Contaminants	4/4/2002
1020	Beryllium	EPA 200.8	10014605	Primary Inorganic Contaminants	12/8/2006
1025	Boron	EPA 200.7	10013806	Secondary Inorganic Contaminants	12/8/2006
9312	Bromoacetic acid	EPA 552.2	10095804	Group I Unregulated Contaminants	1/21/2005
4385	Bromobenzene	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
9315	Bromochloroacetic acid	EPA 552.2	10095804	Group I Unregulated Contaminants	1/21/2005
4390	Bromochloromethane	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
4395	Bromodichloromethane	EPA 524.2	10088809	Group II Unregulated Contaminants	1/21/2005
4400	Bromoform	EPA 524.2	10088809	Group II Unregulated Contaminants	1/21/2005
1030	Cadmium	EPA 200.7	10013806	Primary Inorganic Contaminants	4/4/2002
1030	Cadmium	EPA 200.8	10014605	Primary Inorganic Contaminants	12/8/2006
1035	Calcium	EPA 200.7	10013806	Primary Inorganic Contaminants	4/4/2002
7195	Carbaryl (Sevin)	EPA 531.1	10091006	Group I Unregulated Contaminants	7/12/2019
7205	Carbofuran (Furadan)	EPA 531.1	10091006	Synthetic Organic Contaminants	4/19/2005
4455	Carbon tetrachloride	EPA 524.2	10088809	Other Regulated Contaminants	1/21/2005
7250	Chlordane (tech.)	EPA 508	10085208	Synthetic Organic Contaminants	3/24/2005
1575	Chloride	EPA 300.0	10053200	Secondary Inorganic Contaminants	5/10/2011

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Certification Type: NELAP
Issue Date: 7/1/2025 **Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Drinking Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
9336	Chloroacetic acid	EPA 552.2	10095804	Group I Unregulated Contaminants	1/21/2005
4475	Chlorobenzene	EPA 524.2	10088809	Other Regulated Contaminants	1/21/2005
4485	Chloroethane	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
4505	Chloroform	EPA 524.2	10088809	Group II Unregulated Contaminants	1/21/2005
1040	Chromium	EPA 200.7	10013806	Primary Inorganic Contaminants	4/4/2002
1040	Chromium	EPA 200.8	10014605	Primary Inorganic Contaminants	12/8/2006
4645	cis-1,2-Dichloroethylene	EPA 524.2	10088809	Other Regulated Contaminants	1/21/2005
4680	cis-1,3-Dichloropropene	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
1605	Color	EPA 110.2	10005604	Secondary Inorganic Contaminants	2/13/2003
1605	Color	SM 2120 B	20039309	Secondary Inorganic Contaminants	4/27/2007
1610	Conductivity	EPA 120.1	10006403	Primary Inorganic Contaminants	4/30/2008
1610	Conductivity	SM 2510 B	20048606	Primary Inorganic Contaminants	4/30/2008
1055	Copper	EPA 200.7	10013806	Primary Inorganic Contaminants,Secondary Inorganic Contaminants	4/4/2002
1055	Copper	EPA 200.8	10014605	Primary Inorganic Contaminants,Secondary Inorganic Contaminants	3/25/2015
8555	Dalapon	EPA 515.3	10088401	Synthetic Organic Contaminants	1/21/2005
6065	Di(2-ethylhexyl) phthalate (DEHP)	EPA 525.2	10090003	Synthetic Organic Contaminants	7/1/2023
6062	Di(2-ethylhexyl)adipate	EPA 525.2	10090003	Synthetic Organic Contaminants	7/1/2023
9357	Dibromoacetic acid	EPA 552.2	10095804	Group I Unregulated Contaminants	1/21/2005
4575	Dibromochloromethane	EPA 524.2	10088809	Group II Unregulated Contaminants	1/21/2005
4595	Dibromomethane	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
9360	Dichloroacetic acid	EPA 552.2	10095804	Group I Unregulated Contaminants	3/24/2005
4625	Dichlorodifluoromethane	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
7470	Dieldrin	EPA 508	10085208	Group I Unregulated Contaminants	5/10/2011
8620	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 515.3	10088401	Synthetic Organic Contaminants	1/21/2005
9390	Diquat	EPA 549.2	10093400	Synthetic Organic Contaminants	4/19/2005
1710	Dissolved organic carbon (DOC)	SM 5310 C	20138630	Primary Inorganic Contaminants	5/9/2022
7525	Endothall	EPA 548.1	10092805	Synthetic Organic Contaminants	1/21/2005
7540	Endrin	EPA 508	10085208	Synthetic Organic Contaminants	3/24/2005
2525	Escherichia coli	SM 9223 B	20037676	Microbiology	9/5/2002
4765	Ethylbenzene	EPA 524.2	10088809	Other Regulated Contaminants	1/21/2005
1730	Fluoride	EPA 300.0	10053200	Primary Inorganic Contaminants	2/7/2022
7120	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 508	10085208	Synthetic Organic Contaminants	3/24/2005
9411	Glyphosate	EPA 547	10092009	Synthetic Organic Contaminants	4/30/2008

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Certification Type: NELAP
Issue Date: 7/1/2025 **Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Drinking Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
1750	Hardness	SM 2340 B	20046600	Secondary Inorganic Contaminants	12/8/2006
7685	Heptachlor	EPA 508	10085208	Synthetic Organic Contaminants	3/24/2005
7690	Heptachlor epoxide	EPA 508	10085208	Synthetic Organic Contaminants	3/24/2005
2555	Heterotrophic plate count	SIMPLATE	60032602	Microbiology	7/27/2021
6275	Hexachlorobenzene	EPA 508	10085208	Synthetic Organic Contaminants	3/24/2005
4835	Hexachlorobutadiene	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
6285	Hexachlorocyclopentadiene	EPA 508	10085208	Synthetic Organic Contaminants	3/24/2005
6285	Hexachlorocyclopentadiene	EPA 525.2	10090003	Synthetic Organic Contaminants	7/1/2023
9460	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA, GenX)	EPA 533	10091619	Group III Unregulated Contaminants	6/19/2020
9460	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA, GenX)	EPA 537.1 (Rev. 2)	10091595	Group III Unregulated Contaminants	3/19/2025
1070	Iron	EPA 200.7	10013806	Secondary Inorganic Contaminants	4/4/2002
4900	Isopropylbenzene	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
1075	Lead	EPA 200.8	10014605	Primary Inorganic Contaminants	12/8/2006
1085	Magnesium	EPA 200.7	10013806	Primary Inorganic Contaminants	4/4/2002
1090	Manganese	EPA 200.7	10013806	Secondary Inorganic Contaminants	4/4/2002
1090	Manganese	EPA 200.8	10014605	Secondary Inorganic Contaminants	12/8/2006
1095	Mercury	EPA 1631E	10237204	Secondary Inorganic Contaminants	9/14/2023
1095	Mercury	EPA 245.1	10036609	Primary Inorganic Contaminants	4/4/2002
7800	Methiocarb (Mesurol)	EPA 531.1	10091006	Group I Unregulated Contaminants	7/12/2019
7810	Methoxychlor	EPA 508	10085208	Synthetic Organic Contaminants	3/24/2005
4950	Methyl bromide (Bromomethane)	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
4960	Methyl chloride (Chloromethane)	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
5000	Methyl tert-butyl ether (MTBE)	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
4975	Methylene chloride	EPA 524.2	10088809	Other Regulated Contaminants	1/21/2005
1100	Molybdenum	EPA 200.7	10013806	Secondary Inorganic Contaminants	12/8/2006
1100	Molybdenum	EPA 200.8	10014605	Secondary Inorganic Contaminants	4/27/2007
5005	Naphthalene	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
4435	n-Butylbenzene	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
4846	N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	EPA 537.1 (Rev. 2)	10091595	Group III Unregulated Contaminants	3/19/2025
1105	Nickel	EPA 200.7	10013806	Primary Inorganic Contaminants	4/4/2002
1105	Nickel	EPA 200.8	10014605	Primary Inorganic Contaminants	12/8/2006
1810	Nitrate as N	EPA 300.0	10053200	Primary Inorganic Contaminants	5/10/2011
1840	Nitrite as N	EPA 300.0	10053200	Primary Inorganic Contaminants	5/10/2011
4847	N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	EPA 537.1 (Rev. 2)	10091595	Group III Unregulated Contaminants	3/19/2025

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Certification Type: NELAP
Issue Date: 7/1/2025 **Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Drinking Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
6956	Nonafluoro-3,6-dioxaheptanoic Acid (NFDHA)	EPA 533	10091619	Group III Unregulated Contaminants	6/19/2020
5090	n-Propylbenzene	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
1855	Odor	SM 2150 B	20043805	Secondary Inorganic Contaminants	2/13/2003
1870	Orthophosphate as P	EPA 300.0	10053200	Primary Inorganic Contaminants	5/10/2011
7940	Oxamyl	EPA 531.1	10091006	Synthetic Organic Contaminants	2/25/2015
8872	PCB Screen as AROCLORS	EPA 508	10085208	Synthetic Organic Contaminants	3/24/2005
6605	Pentachlorophenol	EPA 515.3	10088401	Synthetic Organic Contaminants	1/21/2005
6957	Perfluoro(2-ethoxyethane) Sulfonic Acid (PFEEESA)	EPA 533	10091619	Group III Unregulated Contaminants	6/19/2020
6965	Perfluoro-3-methoxypropanoic Acid (PFMPA)	EPA 533	10091619	Group III Unregulated Contaminants	6/19/2020
6966	Perfluoro-4-methoxybutanoic Acid (PFMBA)	EPA 533	10091619	Group III Unregulated Contaminants	6/19/2020
6918	Perfluorobutane Sulfonic Acid (PFBS)	EPA 533	10091619	Group III Unregulated Contaminants	6/19/2020
6918	Perfluorobutane Sulfonic Acid (PFBS)	EPA 537.1 (Rev. 2)	10091595	Group III Unregulated Contaminants	3/19/2025
6915	Perfluorobutanoic Acid (PFBA)	EPA 533	10091619	Group III Unregulated Contaminants	6/19/2020
6905	Perfluorodecanoic Acid (PFDA)	EPA 533	10091619	Group III Unregulated Contaminants	6/19/2020
6905	Perfluorodecanoic Acid (PFDA)	EPA 537.1 (Rev. 2)	10091595	Group III Unregulated Contaminants	3/19/2025
6903	Perfluorododecanoic Acid (PFDoA)	EPA 533	10091619	Group III Unregulated Contaminants	6/19/2020
6903	Perfluorododecanoic Acid (PFDoA)	EPA 537.1 (Rev. 2)	10091595	Group III Unregulated Contaminants	3/19/2025
9470	Perfluoroheptane Sulfonic Acid (PFHpS)	EPA 533	10091619	Group III Unregulated Contaminants	6/19/2020
6908	Perfluoroheptanoic Acid (PFHpA)	EPA 533	10091619	Group III Unregulated Contaminants	6/19/2020
6908	Perfluoroheptanoic Acid (PFHpA)	EPA 537.1 (Rev. 2)	10091595	Group III Unregulated Contaminants	3/19/2025
6927	Perfluorohexane Sulfonic Acid (PFHxS)	EPA 533	10091619	Group III Unregulated Contaminants	6/19/2020
6927	Perfluorohexane Sulfonic Acid (PFHxS)	EPA 537.1 (Rev. 2)	10091595	Group III Unregulated Contaminants	3/19/2025
6913	Perfluorohexanoic Acid (PFHxA)	EPA 533	10091619	Group III Unregulated Contaminants	6/19/2020
6913	Perfluorohexanoic Acid (PFHxA)	EPA 537.1 (Rev. 2)	10091595	Group III Unregulated Contaminants	3/19/2025
6906	Perfluorononanoic Acid (PFNA)	EPA 533	10091619	Group III Unregulated Contaminants	6/19/2020
6906	Perfluorononanoic Acid (PFNA)	EPA 537.1 (Rev. 2)	10091595	Group III Unregulated Contaminants	3/19/2025
6931	Perfluorooctane sulfonic acid (PFOS)	EPA 533	10091619	Group III Unregulated Contaminants	6/19/2020
6931	Perfluorooctane sulfonic acid (PFOS)	EPA 537.1 (Rev. 2)	10091595	Group III Unregulated Contaminants	3/19/2025
6912	Perfluorooctanoic Acid (PFOA)	EPA 533	10091619	Group III Unregulated Contaminants	6/19/2020
6912	Perfluorooctanoic Acid (PFOA)	EPA 537.1 (Rev. 2)	10091595	Group III Unregulated Contaminants	3/19/2025
6934	Perfluoropentane Sulfonic Acid (PFPeS)	EPA 533	10091619	Group III Unregulated Contaminants	6/19/2020
6914	Perfluoropentanoic Acid (PFPeA)	EPA 533	10091619	Group III Unregulated Contaminants	6/19/2020
6902	Perfluorotetradecanoic acid (PFTDA)	EPA 537.1 (Rev. 2)	10091595	Group III Unregulated Contaminants	3/19/2025
9563	Perfluorotridecanoic acid (PFTrDA)	EPA 537.1 (Rev. 2)	10091595	Group III Unregulated Contaminants	3/19/2025
6904	Perfluoroundecanoic acid (PFUnA)	EPA 533	10091619	Group III Unregulated Contaminants	6/19/2020

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Certification Type: NELAP
Issue Date: 7/1/2025 **Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway

Jacksonville, FL 32216

Matrix: Drinking Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
6904	Perfluoroundecanoic acid (PFUnA)	EPA 537.1 (Rev. 2)	10091595	Group III Unregulated Contaminants	3/19/2025
1900	pH	EPA 150.1	10008409	Primary Inorganic Contaminants, Secondary Inorganic Contaminants	4/4/2002
1900	pH	SM 4500-H+-B	20105219	Secondary Inorganic Contaminants	2/28/2008
8645	Picloram	EPA 515.3	10088401	Synthetic Organic Contaminants	1/21/2005
4910	p-Isopropyltoluene	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
1125	Potassium	EPA 200.7	10013806	Secondary Inorganic Contaminants	1/21/2005
8080	Propoxur (Baygon)	EPA 531.1	10091006	Group I Unregulated Contaminants	7/12/2019
1955	Residue-filterable (TDS)	EPA 160.1	10009208	Secondary Inorganic Contaminants	4/4/2002
1955	Residue-filterable (TDS)	SM 2540 C	20050402	Secondary Inorganic Contaminants	2/28/2008
1975	Salinity	SM 2520 B	20004006	Secondary Inorganic Contaminants	8/3/2012
4440	sec-Butylbenzene	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
1140	Selenium	EPA 200.8	10014605	Primary Inorganic Contaminants	12/8/2006
1990	Silica as SiO2	EPA 200.7	10013806	Primary Inorganic Contaminants	1/21/2005
1150	Silver	EPA 200.7	10013806	Secondary Inorganic Contaminants	4/4/2002
1150	Silver	EPA 200.8	10014605	Secondary Inorganic Contaminants	12/8/2006
8650	Silvex (2,4,5-TP)	EPA 515.3	10088401	Synthetic Organic Contaminants	1/21/2005
8125	Simazine	EPA 525.2	10090003	Synthetic Organic Contaminants	7/1/2023
1155	Sodium	EPA 200.7	10013806	Primary Inorganic Contaminants	4/4/2002
5100	Styrene	EPA 524.2	10088809	Other Regulated Contaminants	1/21/2005
2000	Sulfate	EPA 300.0	10053200	Primary Inorganic Contaminants	5/10/2011
4445	tert-Butylbenzene	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
5115	Tetrachloroethylene (Perchloroethylene)	EPA 524.2	10088809	Other Regulated Contaminants	1/21/2005
1165	Thallium	EPA 200.8	10014605	Primary Inorganic Contaminants	12/8/2006
5140	Toluene	EPA 524.2	10088809	Other Regulated Contaminants	1/21/2005
2500	Total coliforms	SM 9223 B	20037676	Microbiology	9/5/2002
9414	Total haloacetic acids (HAA5)	EPA 552.2	10095804	Synthetic Organic Contaminants	1/21/2005
1825	Total nitrate-nitrite	EPA 300.0	10053200	Primary Inorganic Contaminants	5/10/2011
2040	Total organic carbon	SM 5310 C	20138630	Primary Inorganic Contaminants	5/9/2022
5205	Total trihalomethanes	EPA 524.2	10088809	Other Regulated Contaminants	1/21/2005
8250	Toxaphene (Chlorinated camphene)	EPA 508	10085208	Synthetic Organic Contaminants	3/24/2005
4700	trans-1,2-Dichloroethylene	EPA 524.2	10088809	Other Regulated Contaminants	1/21/2005
4685	trans-1,3-Dichloropropene	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009
9642	Trichloroacetic acid	EPA 552.2	10095804	Group I Unregulated Contaminants	1/21/2005
5170	Trichloroethene (Trichloroethylene)	EPA 524.2	10088809	Other Regulated Contaminants	1/21/2005
5175	Trichlorofluoromethane	EPA 524.2	10088809	Group II Unregulated Contaminants	10/26/2009

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type: NELAP
Issue Date: 7/1/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Drinking Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
2055	Turbidity	EPA 180.1	10011800	Secondary Inorganic Contaminants	7/17/2002
1184	Uranium (mass)	EPA 200.8	10014605	Radiochemistry	7/1/2007
5235	Vinyl chloride	EPA 524.2	10088809	Other Regulated Contaminants	1/21/2005
5260	Xylene (total)	EPA 524.2	10088809	Other Regulated Contaminants	1/21/2005
1190	Zinc	EPA 200.7	10013806	Secondary Inorganic Contaminants	4/4/2002
1190	Zinc	EPA 200.8	10014605	Secondary Inorganic Contaminants	12/8/2006



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway

Jacksonville, FL 32216

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
5105	1,1,1,2-Tetrachloroethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
5105	1,1,1,2-Tetrachloroethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
5160	1,1,1-Trichloroethane	EPA 624.1	10298121	Volatile Organics	1/22/2018
5160	1,1,1-Trichloroethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
5160	1,1,1-Trichloroethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
5110	1,1,2,2-Tetrachloroethane	EPA 624.1	10298121	Volatile Organics	1/22/2018
5110	1,1,2,2-Tetrachloroethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
5110	1,1,2,2-Tetrachloroethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
5185	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260C	10307003	Volatile Organics	2/10/2023
5185	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	10307127	Volatile Organics	2/10/2023
5165	1,1,2-Trichloroethane	EPA 624.1	10298121	Volatile Organics	1/22/2018
5165	1,1,2-Trichloroethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
5165	1,1,2-Trichloroethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
4630	1,1-Dichloroethane	EPA 624.1	10298121	Volatile Organics	1/22/2018
4630	1,1-Dichloroethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4630	1,1-Dichloroethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
4640	1,1-Dichloroethylene	EPA 624.1	10298121	Volatile Organics	1/22/2018
4640	1,1-Dichloroethylene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4640	1,1-Dichloroethylene	EPA 8260D	10307127	Volatile Organics	2/10/2023
4670	1,1-Dichloropropene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4670	1,1-Dichloropropene	EPA 8260D	10307127	Volatile Organics	2/10/2023
5150	1,2,3-Trichlorobenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
5150	1,2,3-Trichlorobenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
5180	1,2,3-Trichloropropane	EPA 8260C	10307003	Volatile Organics	2/10/2023
5180	1,2,3-Trichloropropane	EPA 8260D	10307127	Volatile Organics	2/10/2023
6715	1,2,4,5-Tetrachlorobenzene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6715	1,2,4,5-Tetrachlorobenzene	EPA 8270E	10242543	Extractable Organics	2/10/2023
5155	1,2,4-Trichlorobenzene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5155	1,2,4-Trichlorobenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
5155	1,2,4-Trichlorobenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
5155	1,2,4-Trichlorobenzene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5155	1,2,4-Trichlorobenzene	EPA 8270E	10242543	Extractable Organics	2/10/2023
5210	1,2,4-Trimethylbenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
5210	1,2,4-Trimethylbenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
4570	1,2-Dibromo-3-chloropropane (DBCP)	EPA 8011	10173009	Volatile Organics	12/8/2006

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type: NELAP
Issue Date: 7/1/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574 EPA Lab Code: FL00949 (904) 363-9350

**E82574
Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
4570	1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4570	1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	10307127	Volatile Organics	2/10/2023
4585	1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8011	10173009	Volatile Organics	12/8/2006
4585	1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4585	1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	10307127	Volatile Organics	2/10/2023
4610	1,2-Dichlorobenzene	EPA 624.1	10298121	Volatile Organics	1/22/2018
4610	1,2-Dichlorobenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4610	1,2-Dichlorobenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
4610	1,2-Dichlorobenzene	EPA 8270D	10186035	Extractable Organics	2/10/2023
4610	1,2-Dichlorobenzene	EPA 8270E	10242543	Extractable Organics	2/10/2023
4635	1,2-Dichloroethane	EPA 624.1	10298121	Volatile Organics	1/22/2018
4635	1,2-Dichloroethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4635	1,2-Dichloroethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
4655	1,2-Dichloropropane	EPA 624.1	10298121	Volatile Organics	1/22/2018
4655	1,2-Dichloropropane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4655	1,2-Dichloropropane	EPA 8260D	10307127	Volatile Organics	2/10/2023
6220	1,2-Diphenylhydrazine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6220	1,2-Diphenylhydrazine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6411	1,2-Diphenylhydrazine (as Azobenzene)	EPA 625.1	10300024	Extractable Organics	1/22/2018
5215	1,3,5-Trimethylbenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
5215	1,3,5-Trimethylbenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
6885	1,3,5-Trinitrobenzene (1,3,5-TNB)	EPA 8270D	10186035	Extractable Organics	2/10/2023
6885	1,3,5-Trinitrobenzene (1,3,5-TNB)	EPA 8270E	10242543	Extractable Organics	2/10/2023
6885	1,3,5-Trinitrobenzene (1,3,5-TNB)	EPA 8330A	10190008	Extractable Organics	2/10/2023
6885	1,3,5-Trinitrobenzene (1,3,5-TNB)	EPA 8330B	10308006	Extractable Organics	2/10/2023
4615	1,3-Dichlorobenzene	EPA 624.1	10298121	Volatile Organics	1/22/2018
4615	1,3-Dichlorobenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4615	1,3-Dichlorobenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
4615	1,3-Dichlorobenzene	EPA 8270D	10186035	Extractable Organics	2/10/2023
4615	1,3-Dichlorobenzene	EPA 8270E	10242543	Extractable Organics	2/10/2023
4660	1,3-Dichloropropane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4660	1,3-Dichloropropane	EPA 8260D	10307127	Volatile Organics	2/10/2023
6160	1,3-Dinitrobenzene (1,3-DNB)	EPA 8270D	10186035	Extractable Organics	2/10/2023
6160	1,3-Dinitrobenzene (1,3-DNB)	EPA 8270E	10242543	Extractable Organics	2/10/2023
6160	1,3-Dinitrobenzene (1,3-DNB)	EPA 8330A	10190008	Extractable Organics	2/10/2023

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

**Certification Type NELAP
Issue Date: 7/1/2025 Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574 EPA Lab Code: FL00949 (904) 363-9350

**E82574
Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
6160	1,3-Dinitrobenzene (1,3-DNB)	EPA 8330B	10308006	Extractable Organics	2/10/2023
4620	1,4-Dichlorobenzene	EPA 624.1	10298121	Volatile Organics	1/22/2018
4620	1,4-Dichlorobenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4620	1,4-Dichlorobenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
4620	1,4-Dichlorobenzene	EPA 8270D	10186035	Extractable Organics	2/10/2023
4620	1,4-Dichlorobenzene	EPA 8270E	10242543	Extractable Organics	2/10/2023
4735	1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4735	1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8260D	10307127	Volatile Organics	2/10/2023
4735	1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8270E	10242543	Extractable Organics	2/10/2023
6420	1,4-Naphthoquinone	EPA 8270D	10186035	Extractable Organics	2/10/2023
6420	1,4-Naphthoquinone	EPA 8270E	10242543	Extractable Organics	2/10/2023
6630	1,4-Phenylenediamine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6630	1,4-Phenylenediamine	EPA 8270E	10242543	Extractable Organics	2/10/2023
9490	11-Chloroeicosaffluoro-3-oxaundecane-1-sulfonic Acid (11-CIPF30UdS)	EPA 1633	10123463	Extractable Organics	1/31/2024
5790	1-Chloronaphthalene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5790	1-Chloronaphthalene	EPA 8270E	10242543	Extractable Organics	2/10/2023
6948	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2 FTS)	EPA 1633	10123463	Extractable Organics	1/31/2024
6946	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	EPA 1633	10123463	Extractable Organics	1/31/2024
6947	1H,1H,2H,2H-Perfluoro-octanesulfonic Acid (6:2 FTS)	EPA 1633	10123463	Extractable Organics	1/31/2024
6380	1-Methylnaphthalene	EPA 625.1	10300024	Extractable Organics	7/1/2018
6380	1-Methylnaphthalene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6380	1-Methylnaphthalene	EPA 8270E	10242543	Extractable Organics	2/10/2023
6425	1-Naphthylamine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6425	1-Naphthylamine	EPA 8270E	10242543	Extractable Organics	2/10/2023
4665	2,2-Dichloropropane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4665	2,2-Dichloropropane	EPA 8260D	10307127	Volatile Organics	2/10/2023
4659	2,2'-Oxybis(1-chloropropane),bis(2-Chloro-1-methylethyl)ether (fka bis(2-Chloroisopropyl) ether)	EPA 625.1	10300024	Extractable Organics	1/22/2018
4659	2,2'-Oxybis(1-chloropropane),bis(2-Chloro-1-methylethyl)ether (fka bis(2-Chloroisopropyl) ether)	EPA 8270D	10186035	Extractable Organics	2/10/2023
4659	2,2'-Oxybis(1-chloropropane),bis(2-Chloro-1-methylethyl)ether (fka bis(2-Chloroisopropyl) ether)	EPA 8270E	10242543	Extractable Organics	2/10/2023
6735	2,3,4,6-Tetrachlorophenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
6740	2,3,5,6-Tetrachlorophenol	EPA 8270E	10242543	Extractable Organics	2/10/2023

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**Certification Type NELAP
Issue Date: 7/1/2025 Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
9363	2,3-Dichloroaniline	EPA 625.1	10300024	Extractable Organics	1/22/2018
8655	2,4,5-T	EPA 8151A	10183207	Pesticides-Herbicides-PCB's	2/10/2023
6835	2,4,5-Trichlorophenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
6835	2,4,5-Trichlorophenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
6840	2,4,6-Trichlorophenol	EPA 625.1	10300024	Extractable Organics	1/22/2018
6840	2,4,6-Trichlorophenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
6840	2,4,6-Trichlorophenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
9651	2,4,6-Trinitrotoluene (2,4,6-TNT)	EPA 8330A	10190008	Extractable Organics	2/10/2023
9651	2,4,6-Trinitrotoluene (2,4,6-TNT)	EPA 8330B	10308006	Extractable Organics	2/10/2023
8545	2,4-D	EPA 8151A	10183207	Pesticides-Herbicides-PCB's	2/10/2023
8560	2,4-DB	EPA 8151A	10183207	Pesticides-Herbicides-PCB's	2/10/2023
6000	2,4-Dichlorophenol	EPA 625.1	10300024	Extractable Organics	1/22/2018
6000	2,4-Dichlorophenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
6000	2,4-Dichlorophenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
6130	2,4-Dimethylphenol	EPA 625.1	10300024	Extractable Organics	1/22/2018
6130	2,4-Dimethylphenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
6130	2,4-Dimethylphenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
6175	2,4-Dinitrophenol	EPA 625.1	10300024	Extractable Organics	1/22/2018
6175	2,4-Dinitrophenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
6175	2,4-Dinitrophenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
6185	2,4-Dinitrotoluene (2,4-DNT)	EPA 625.1	10300024	Extractable Organics	1/22/2018
6185	2,4-Dinitrotoluene (2,4-DNT)	EPA 8270D	10186035	Extractable Organics	2/10/2023
6185	2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	10242543	Extractable Organics	2/10/2023
6185	2,4-Dinitrotoluene (2,4-DNT)	EPA 8330A	10190008	Extractable Organics	2/10/2023
6185	2,4-Dinitrotoluene (2,4-DNT)	EPA 8330B	10308006	Extractable Organics	2/10/2023
6005	2,6-Dichlorophenol	EPA 625.1	10300024	Extractable Organics	7/12/2019
6005	2,6-Dichlorophenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
6005	2,6-Dichlorophenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
6190	2,6-Dinitrotoluene (2,6-DNT)	EPA 625.1	10300024	Extractable Organics	1/22/2018
6190	2,6-Dinitrotoluene (2,6-DNT)	EPA 8270D	10186035	Extractable Organics	2/10/2023
6190	2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	10242543	Extractable Organics	2/10/2023
6190	2,6-Dinitrotoluene (2,6-DNT)	EPA 8330A	10190008	Extractable Organics	2/10/2023
6190	2,6-Dinitrotoluene (2,6-DNT)	EPA 8330B	10308006	Extractable Organics	2/10/2023
5515	2-Acetylaminofluorene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5515	2-Acetylaminofluorene	EPA 8270E	10242543	Extractable Organics	2/10/2023
9303	2-Amino-4,6-dinitrotoluene (2-am-dnt)	EPA 8330A	10190008	Extractable Organics	2/10/2023

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type: NELAP
Issue Date: 7/1/2025 **Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
9303	2-Amino-4,6-dinitrotoluene (2-am-dnt)	EPA 8330B	10308006	Extractable Organics	2/10/2023
4410	2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4410	2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	10307127	Volatile Organics	2/10/2023
4500	2-Chloroethyl vinyl ether	EPA 624.1	10298121	Volatile Organics	1/22/2018
4500	2-Chloroethyl vinyl ether	EPA 8260C	10307003	Volatile Organics	2/10/2023
4500	2-Chloroethyl vinyl ether	EPA 8260D	10307127	Volatile Organics	2/10/2023
5795	2-Chloronaphthalene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5795	2-Chloronaphthalene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5795	2-Chloronaphthalene	EPA 8270E	10242543	Extractable Organics	2/10/2023
5800	2-Chlorophenol	EPA 625.1	10300024	Extractable Organics	1/22/2018
5800	2-Chlorophenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
5800	2-Chlorophenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
4535	2-Chlorotoluene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4535	2-Chlorotoluene	EPA 8260D	10307127	Volatile Organics	2/10/2023
5866	2-Ethoxyethanol (Ethyl Cellusolve)	EPA 8015C	10173816	Volatile Organics	2/10/2023
9340	2H,2H,3H,3H-Perfluorodecanoic Acid (7:3 FTCA)	EPA 1633	10123463	Extractable Organics	1/31/2024
9338	2H,2H,3H,3H-Perfluorooctanoic Acid (5:3 FTCA)	EPA 1633	10123463	Extractable Organics	1/31/2024
4860	2-Hexanone	EPA 8260C	10307003	Volatile Organics	2/10/2023
4860	2-Hexanone	EPA 8260D	10307127	Volatile Organics	2/10/2023
6360	2-Methyl-4,6-dinitrophenol	EPA 625.1	10300024	Extractable Organics	1/22/2018
6360	2-Methyl-4,6-dinitrophenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
6360	2-Methyl-4,6-dinitrophenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
6385	2-Methylnaphthalene	EPA 625.1	10300024	Extractable Organics	7/12/2019
6385	2-Methylnaphthalene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6385	2-Methylnaphthalene	EPA 8270E	10242543	Extractable Organics	2/10/2023
6400	2-Methylphenol (o-Cresol)	EPA 625.1	10300024	Extractable Organics	1/22/2018
6400	2-Methylphenol (o-Cresol)	EPA 8270D	10186035	Extractable Organics	2/10/2023
6400	2-Methylphenol (o-Cresol)	EPA 8270E	10242543	Extractable Organics	2/10/2023
6430	2-Naphthylamine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6430	2-Naphthylamine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6460	2-Nitroaniline	EPA 8270D	10186035	Extractable Organics	2/10/2023
6460	2-Nitroaniline	EPA 8270E	10242543	Extractable Organics	2/10/2023
6490	2-Nitrophenol	EPA 625.1	10300024	Extractable Organics	1/22/2018
6490	2-Nitrophenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
6490	2-Nitrophenol	EPA 8270E	10242543	Extractable Organics	2/10/2023

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type: NELAP
Issue Date: 7/1/2025 **Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
5020	2-Nitropropane	EPA 8260C	10307003	Volatile Organics	2/10/2023
5020	2-Nitropropane	EPA 8260D	10307127	Volatile Organics	2/10/2023
9507	2-Nitrotoluene	EPA 8330A	10190008	Extractable Organics	2/10/2023
9507	2-Nitrotoluene	EPA 8330B	10308006	Extractable Organics	2/10/2023
5050	2-Picoline (2-Methylpyridine)	EPA 8270D	10186035	Extractable Organics	2/10/2023
5050	2-Picoline (2-Methylpyridine)	EPA 8270E	10242543	Extractable Organics	2/10/2023
5065	2-Propanol	EPA 8260D	10307127	Volatile Organics	2/10/2023
5945	3,3'-Dichlorobenzidine	EPA 625.1	10300024	Extractable Organics	1/22/2018
5945	3,3'-Dichlorobenzidine	EPA 8270D	10186035	Extractable Organics	2/10/2023
5945	3,3'-Dichlorobenzidine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6100	3,3'-Dimethoxybenzidine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6100	3,3'-Dimethoxybenzidine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6120	3,3'-Dimethylbenzidine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6120	3,3'-Dimethylbenzidine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6150	3,5-Dinitroaniline	EPA 8330B	10308006	Extractable Organics	2/10/2023
6412	3/4-Methylphenols (m/p-Cresols)	EPA 625.1	10300024	Extractable Organics	7/12/2019
6412	3/4-Methylphenols (m/p-Cresols)	EPA 8270D	10186035	Extractable Organics	2/10/2023
6412	3/4-Methylphenols (m/p-Cresols)	EPA 8270E	10242543	Extractable Organics	2/10/2023
6355	3-Methylcholanthrene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6355	3-Methylcholanthrene	EPA 8270E	10242543	Extractable Organics	2/10/2023
6465	3-Nitroaniline	EPA 8270D	10186035	Extractable Organics	2/10/2023
6465	3-Nitroaniline	EPA 8270E	10242543	Extractable Organics	2/10/2023
9510	3-Nitrotoluene	EPA 8330A	10190008	Extractable Organics	2/10/2023
9510	3-Nitrotoluene	EPA 8330B	10308006	Extractable Organics	2/10/2023
9353	4,4,5,5,6,6,6-Heptafluorohexanoic Acid (3:3 FTCA)	EPA 1633	10123463	Extractable Organics	1/31/2024
7355	4,4'-DDD	EPA 608.3	10296614	Extractable Organics	1/22/2018
7355	4,4'-DDD	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
7360	4,4'-DDE	EPA 608.3	10296614	Extractable Organics	1/22/2018
7360	4,4'-DDE	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
7365	4,4'-DDT	EPA 608.3	10296614	Extractable Organics	1/22/2018
7365	4,4'-DDT	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
6951	4,8-Dioxa-3H-perfluorononanoic Acid (ADONA)	EPA 1633	10123463	Extractable Organics	1/31/2024
9306	4-Amino-2,6-dinitrotoluene (4-am-dnt)	EPA 8330A	10190008	Extractable Organics	2/10/2023
9306	4-Amino-2,6-dinitrotoluene (4-am-dnt)	EPA 8330B	10308006	Extractable Organics	2/10/2023
5540	4-Aminobiphenyl	EPA 8270D	10186035	Extractable Organics	2/10/2023

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type: NELAP
Issue Date: 7/1/2025 **Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
5540	4-Aminobiphenyl	EPA 8270E	10242543	Extractable Organics	2/10/2023
5660	4-Bromophenyl phenyl ether	EPA 625.1	10300024	Extractable Organics	1/22/2018
5660	4-Bromophenyl phenyl ether	EPA 8270D	10186035	Extractable Organics	2/10/2023
5660	4-Bromophenyl phenyl ether	EPA 8270E	10242543	Extractable Organics	2/10/2023
5700	4-Chloro-3-methylphenol	EPA 625.1	10300024	Extractable Organics	1/22/2018
5700	4-Chloro-3-methylphenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
5700	4-Chloro-3-methylphenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
5745	4-Chloroaniline	EPA 8270D	10186035	Extractable Organics	2/10/2023
5745	4-Chloroaniline	EPA 8270E	10242543	Extractable Organics	2/10/2023
5825	4-Chlorophenyl phenylether	EPA 625.1	10300024	Extractable Organics	1/22/2018
5825	4-Chlorophenyl phenylether	EPA 8270D	10186035	Extractable Organics	2/10/2023
5825	4-Chlorophenyl phenylether	EPA 8270E	10242543	Extractable Organics	2/10/2023
4540	4-Chlorotoluene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4540	4-Chlorotoluene	EPA 8260D	10307127	Volatile Organics	2/10/2023
6105	4-Dimethyl aminoazobenzene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6105	4-Dimethyl aminoazobenzene	EPA 8270E	10242543	Extractable Organics	2/10/2023
4995	4-Methyl-2-pentanone (MIBK)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4995	4-Methyl-2-pentanone (MIBK)	EPA 8260D	10307127	Volatile Organics	2/10/2023
6470	4-Nitroaniline	EPA 8270D	10186035	Extractable Organics	2/10/2023
6470	4-Nitroaniline	EPA 8270E	10242543	Extractable Organics	2/10/2023
6500	4-Nitrophenol	EPA 625.1	10300024	Extractable Organics	1/22/2018
6500	4-Nitrophenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
6500	4-Nitrophenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
6510	4-Nitroquinoline 1-oxide	EPA 8270D	10186035	Extractable Organics	2/10/2023
6510	4-Nitroquinoline 1-oxide	EPA 8270E	10242543	Extractable Organics	2/10/2023
9513	4-Nitrotoluene	EPA 8330A	10190008	Extractable Organics	2/10/2023
9513	4-Nitrotoluene	EPA 8330B	10308006	Extractable Organics	2/10/2023
6570	5-Nitro-o-toluidine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6570	5-Nitro-o-toluidine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6115	7,12-Dimethylbenz(a) anthracene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6115	7,12-Dimethylbenz(a) anthracene	EPA 8270E	10242543	Extractable Organics	2/10/2023
6952	9-Chlorohexadecafluoro-3-oxanonane-1-sulfo nic Acid (9-C16F3ONS)	EPA 1633	10123463	Extractable Organics	1/31/2024
6125	a,a-Dimethylphenethylamine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6125	a,a-Dimethylphenethylamine	EPA 8270E	10242543	Extractable Organics	2/10/2023
5500	Acenaphthene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5500	Acenaphthene	EPA 8270D	10186035	Extractable Organics	2/10/2023

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Certification Type: NELAP
Issue Date: 7/1/2025 **Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway

Jacksonville, FL 32216

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
5500	Acenaphthene	EPA 8270E	10242543	Extractable Organics	2/10/2023
5505	Acenaphthylene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5505	Acenaphthylene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5505	Acenaphthylene	EPA 8270E	10242543	Extractable Organics	2/10/2023
4315	Acetone	EPA 8260C	10307003	Volatile Organics	2/10/2023
4315	Acetone	EPA 8260D	10307127	Volatile Organics	2/10/2023
4320	Acetonitrile	EPA 8260C	10307003	Volatile Organics	2/10/2023
4320	Acetonitrile	EPA 8260D	10307127	Volatile Organics	2/10/2023
5510	Acetophenone	EPA 625.1	10300024	Extractable Organics	1/22/2018
5510	Acetophenone	EPA 8270D	10186035	Extractable Organics	2/10/2023
5510	Acetophenone	EPA 8270E	10242543	Extractable Organics	2/10/2023
4325	Acrolein (Propenal)	EPA 624.1	10298121	Volatile Organics	1/22/2018
4325	Acrolein (Propenal)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4325	Acrolein (Propenal)	EPA 8260D	10307127	Volatile Organics	2/10/2023
4340	Acrylonitrile	EPA 624.1	10298121	Volatile Organics	1/22/2018
4340	Acrylonitrile	EPA 8260C	10307003	Volatile Organics	2/10/2023
4340	Acrylonitrile	EPA 8260D	10307127	Volatile Organics	2/10/2023
4345	Adsorbable organic halogens (AOX)	EPA 1650	10125005	General Chemistry	7/1/2018
7005	Alachlor	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
7005	Alachlor	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
7025	Aldrin	EPA 608.3	10296614	Extractable Organics	1/22/2018
7025	Aldrin	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
1505	Alkalinity as CaCO3	EPA 310.1	10054805	General Chemistry	2/13/2003
1505	Alkalinity as CaCO3	SM 2320 B-2011	20045618	General Chemistry	7/15/2022
4355	Allyl chloride (3-Chloropropene)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4355	Allyl chloride (3-Chloropropene)	EPA 8260D	10307127	Volatile Organics	2/10/2023
7110	alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 608.3	10296614	Extractable Organics	1/22/2018
7110	alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
7240	alpha-Chlordane	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	7/12/2019
7240	alpha-Chlordane	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
6700	alpha-Terpineol	EPA 625.1	10300024	Extractable Organics	1/22/2018
1000	Aluminum	EPA 200.7	10013806	Metals	4/4/2002
1000	Aluminum	EPA 200.8	10014605	Metals	6/6/2017
1000	Aluminum	EPA 6010C	10155905	Metals	2/10/2023
1000	Aluminum	EPA 6010D	10155950	Metals	2/10/2023
1000	Aluminum	EPA 6020A	10156419	Metals	2/10/2023

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Certification Type NELAP

Issue Date: 7/1/2025

Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
1000	Aluminum	EPA 6020B	10156420	Metals	2/10/2023
7035	Ametryn	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
7035	Ametryn	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
5545	Aniline	EPA 625.1	10300024	Extractable Organics	1/22/2018
5545	Aniline	EPA 8270D	10186035	Extractable Organics	2/10/2023
5545	Aniline	EPA 8270E	10242543	Extractable Organics	2/10/2023
5555	Anthracene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5555	Anthracene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5555	Anthracene	EPA 8270E	10242543	Extractable Organics	2/10/2023
1005	Antimony	EPA 200.7	10013806	Metals	4/4/2002
1005	Antimony	EPA 200.8	10014605	Metals	12/8/2006
1005	Antimony	EPA 6010C	10155905	Metals	2/10/2023
1005	Antimony	EPA 6010D	10155950	Metals	2/10/2023
1005	Antimony	EPA 6020A	10156419	Metals	2/10/2023
1005	Antimony	EPA 6020B	10156420	Metals	2/10/2023
5560	Aramite	EPA 8270D	10186035	Extractable Organics	2/10/2023
5560	Aramite	EPA 8270E	10242543	Extractable Organics	2/10/2023
8880	Aroclor-1016 (PCB-1016)	EPA 608.3	10296614	Extractable Organics	1/22/2018
8880	Aroclor-1016 (PCB-1016)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	2/10/2023
8885	Aroclor-1221 (PCB-1221)	EPA 608.3	10296614	Extractable Organics	1/22/2018
8885	Aroclor-1221 (PCB-1221)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	2/10/2023
8890	Aroclor-1232 (PCB-1232)	EPA 608.3	10296614	Extractable Organics	1/22/2018
8890	Aroclor-1232 (PCB-1232)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	2/10/2023
8895	Aroclor-1242 (PCB-1242)	EPA 608.3	10296614	Extractable Organics	1/22/2018
8895	Aroclor-1242 (PCB-1242)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	2/10/2023
8900	Aroclor-1248 (PCB-1248)	EPA 608.3	10296614	Extractable Organics	1/22/2018
8900	Aroclor-1248 (PCB-1248)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	2/10/2023
8905	Aroclor-1254 (PCB-1254)	EPA 608.3	10296614	Extractable Organics	1/22/2018
8905	Aroclor-1254 (PCB-1254)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	2/10/2023
8910	Aroclor-1260 (PCB-1260)	EPA 608.3	10296614	Extractable Organics	1/22/2018
8910	Aroclor-1260 (PCB-1260)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	2/10/2023
8912	Aroclor-1262 (PCB-1262)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	2/10/2023
8913	Aroclor-1268 (PCB-1268)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	2/10/2023
1010	Arsenic	EPA 200.7	10013806	Metals	4/4/2002
1010	Arsenic	EPA 200.8	10014605	Metals	12/8/2006
1010	Arsenic	EPA 6010C	10155905	Metals	2/10/2023

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Certification Type: NELAP
Issue Date: 7/1/2025 **Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
1010	Arsenic	EPA 6010D	10155950	Metals	2/10/2023
1010	Arsenic	EPA 6020A	10156419	Metals	2/10/2023
1010	Arsenic	EPA 6020B	10156420	Metals	2/10/2023
7065	Atrazine	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
7065	Atrazine	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
7065	Atrazine	EPA 8270E	10242543	Extractable Organics	2/10/2023
7075	Azinphos-methyl (Guthion)	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
1015	Barium	EPA 200.7	10013806	Metals	4/4/2002
1015	Barium	EPA 200.8	10014605	Metals	12/8/2006
1015	Barium	EPA 6010C	10155905	Metals	2/10/2023
1015	Barium	EPA 6010D	10155950	Metals	2/10/2023
1015	Barium	EPA 6020A	10156419	Metals	2/10/2023
1015	Barium	EPA 6020B	10156420	Metals	2/10/2023
5570	Benzaldehyde	EPA 8270D	10186035	Extractable Organics	2/10/2023
5570	Benzaldehyde	EPA 8270E	10242543	Extractable Organics	2/10/2023
4375	Benzene	EPA 624.1	10298121	Volatile Organics	1/22/2018
4375	Benzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4375	Benzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
5595	Benzidine	EPA 625.1	10300024	Extractable Organics	1/22/2018
5595	Benzidine	EPA 8270D	10186035	Extractable Organics	2/10/2023
5595	Benzidine	EPA 8270E	10242543	Extractable Organics	2/10/2023
5575	Benzo(a)anthracene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5575	Benzo(a)anthracene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5575	Benzo(a)anthracene	EPA 8270E	10242543	Extractable Organics	2/10/2023
5580	Benzo(a)pyrene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5580	Benzo(a)pyrene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5580	Benzo(a)pyrene	EPA 8270E	10242543	Extractable Organics	2/10/2023
5585	Benzo(b)fluoranthene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5585	Benzo(b)fluoranthene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5585	Benzo(b)fluoranthene	EPA 8270E	10242543	Extractable Organics	2/10/2023
5590	Benzo(g,h,i)perylene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5590	Benzo(g,h,i)perylene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5590	Benzo(g,h,i)perylene	EPA 8270E	10242543	Extractable Organics	2/10/2023
5600	Benzo(k)fluoranthene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5600	Benzo(k)fluoranthene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5600	Benzo(k)fluoranthene	EPA 8270E	10242543	Extractable Organics	2/10/2023

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type: NELAP
Issue Date: 7/1/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
5610	Benzoic acid	EPA 625.1	10300024	Extractable Organics	7/12/2019
5610	Benzoic acid	EPA 8270D	10186035	Extractable Organics	2/10/2023
5610	Benzoic acid	EPA 8270E	10242543	Extractable Organics	2/10/2023
5630	Benzyl alcohol	EPA 8270D	10186035	Extractable Organics	2/10/2023
5630	Benzyl alcohol	EPA 8270E	10242543	Extractable Organics	2/10/2023
1020	Beryllium	EPA 200.7	10013806	Metals	4/4/2002
1020	Beryllium	EPA 200.8	10014605	Metals	12/8/2006
1020	Beryllium	EPA 6010C	10155905	Metals	2/10/2023
1020	Beryllium	EPA 6010D	10155950	Metals	2/10/2023
1020	Beryllium	EPA 6020A	10156419	Metals	2/10/2023
1020	Beryllium	EPA 6020B	10156420	Metals	2/10/2023
7115	beta-BHC (beta-Hexachlorocyclohexane)	EPA 608.3	10296614	Extractable Organics	1/22/2018
7115	beta-BHC (beta-Hexachlorocyclohexane)	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
1530	Biochemical oxygen demand	SM 5210 B-2016	20135039	General Chemistry	7/15/2022
6703	Biphenyl (1,1-Biphenyl, BZ 0)	EPA 8270D	10186035	Extractable Organics	2/10/2023
6703	Biphenyl (1,1-Biphenyl, BZ 0)	EPA 8270E	10242543	Extractable Organics	2/10/2023
5760	bis(2-Chloroethoxy)methane	EPA 625.1	10300024	Extractable Organics	1/22/2018
5760	bis(2-Chloroethoxy)methane	EPA 8270D	10186035	Extractable Organics	2/10/2023
5760	bis(2-Chloroethoxy)methane	EPA 8270E	10242543	Extractable Organics	2/10/2023
5765	bis(2-Chloroethyl) ether	EPA 625.1	10300024	Extractable Organics	1/22/2018
5765	bis(2-Chloroethyl) ether	EPA 8270D	10186035	Extractable Organics	2/10/2023
5765	bis(2-Chloroethyl) ether	EPA 8270E	10242543	Extractable Organics	2/10/2023
1025	Boron	EPA 200.7	10013806	Metals	1/21/2005
1025	Boron	EPA 200.8	10014605	Metals	7/12/2019
1025	Boron	EPA 6010C	10155905	Metals	2/10/2023
1025	Boron	EPA 6010D	10155950	Metals	2/10/2023
1540	Bromide	EPA 300.0	10053200	General Chemistry	6/19/2020
1540	Bromide	EPA 9056A	10199607	General Chemistry	2/10/2023
4385	Bromobenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4385	Bromobenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
4390	Bromochloromethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4390	Bromochloromethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
4395	Bromodichloromethane	EPA 624.1	10298121	Volatile Organics	1/22/2018
4395	Bromodichloromethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4395	Bromodichloromethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
4400	Bromoform	EPA 624.1	10298121	Volatile Organics	1/22/2018

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type: NELAP
Issue Date: 7/1/2025 **Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway

Jacksonville, FL 32216

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
4400	Bromoform	EPA 8260C	10307003	Volatile Organics	2/10/2023
4400	Bromoform	EPA 8260D	10307127	Volatile Organics	2/10/2023
5670	Butyl benzyl phthalate	EPA 625.1	10300024	Extractable Organics	1/22/2018
5670	Butyl benzyl phthalate	EPA 8270D	10186035	Extractable Organics	2/10/2023
5670	Butyl benzyl phthalate	EPA 8270E	10242543	Extractable Organics	2/10/2023
1030	Cadmium	EPA 200.7	10013806	Metals	8/14/2002
1030	Cadmium	EPA 200.8	10014605	Metals	12/8/2006
1030	Cadmium	EPA 6010C	10155905	Metals	2/10/2023
1030	Cadmium	EPA 6010D	10155950	Metals	2/10/2023
1030	Cadmium	EPA 6020A	10156419	Metals	2/10/2023
1030	Cadmium	EPA 6020B	10156420	Metals	2/10/2023
1035	Calcium	EPA 200.7	10013806	Metals	4/4/2002
1035	Calcium	EPA 6010C	10155905	Metals	2/10/2023
1035	Calcium	EPA 6010D	10155950	Metals	2/10/2023
7180	Caprolactam	EPA 8270D	10186035	Extractable Organics	2/10/2023
7180	Caprolactam	EPA 8270E	10242543	Extractable Organics	2/10/2023
5680	Carbazole	EPA 625.1	10300024	Extractable Organics	1/22/2018
5680	Carbazole	EPA 8270D	10186035	Extractable Organics	2/10/2023
5680	Carbazole	EPA 8270E	10242543	Extractable Organics	2/10/2023
3755	Carbon dioxide	AEL SOP VOC-013/GC-FID/TCD/R SK-175	60001447	Volatile Organics	7/1/2024
4450	Carbon disulfide	EPA 8260C	10307003	Volatile Organics	2/10/2023
4450	Carbon disulfide	EPA 8260D	10307127	Volatile Organics	2/10/2023
4455	Carbon tetrachloride	EPA 624.1	10298121	Volatile Organics	1/22/2018
4455	Carbon tetrachloride	EPA 8260C	10307003	Volatile Organics	2/10/2023
4455	Carbon tetrachloride	EPA 8260D	10307127	Volatile Organics	2/10/2023
1555	Carbonaceous BOD (CBOD)	SM 5210 B-2016	20135039	General Chemistry	7/15/2022
1565	Chemical oxygen demand	EPA 410.4	10077404	General Chemistry	5/10/2011
7250	Chlordane (tech.)	EPA 608.3	10296614	Extractable Organics	1/22/2018
7250	Chlordane (tech.)	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
1575	Chloride	EPA 300.0	10053200	General Chemistry	5/10/2011
1575	Chloride	EPA 9056A	10199607	General Chemistry	2/10/2023
4475	Chlorobenzene	EPA 624.1	10298121	Volatile Organics	1/22/2018
4475	Chlorobenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4475	Chlorobenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
7260	Chlorobenzilate	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023

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Certification Type: NELAP
Issue Date: 7/1/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574 EPA Lab Code: FL00949 (904) 363-9350

**E82574
Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
7260	Chlorobenzilate	EPA 8270E	10242543	Extractable Organics	2/10/2023
4485	Chloroethane	EPA 624.1	10298121	Volatile Organics	1/22/2018
4485	Chloroethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4485	Chloroethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
4505	Chloroform	EPA 624.1	10298121	Volatile Organics	1/22/2018
4505	Chloroform	EPA 8260C	10307003	Volatile Organics	2/10/2023
4505	Chloroform	EPA 8260D	10307127	Volatile Organics	2/10/2023
4525	Chloroprene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4525	Chloroprene	EPA 8260D	10307127	Volatile Organics	2/10/2023
7300	Chlorpyrifos	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
7305	Chlorpyrifos methyl	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
1040	Chromium	EPA 200.7	10013806	Metals	4/4/2002
1040	Chromium	EPA 200.8	10014605	Metals	12/8/2006
1040	Chromium	EPA 6010C	10155905	Metals	2/10/2023
1040	Chromium	EPA 6010D	10155950	Metals	2/10/2023
1040	Chromium	EPA 6020A	10156419	Metals	2/10/2023
1040	Chromium	EPA 6020B	10156420	Metals	2/10/2023
1045	Chromium VI	EPA 7196A	10162400	Metals	2/10/2023
1045	Chromium VI	SM 3500-Cr D (18th/19th Ed.)/UV-VIS	20009001	General Chemistry	4/17/2002
5855	Chrysene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5855	Chrysene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5855	Chrysene	EPA 8270E	10242543	Extractable Organics	2/10/2023
4645	cis-1,2-Dichloroethylene	EPA 624.1	10298121	Volatile Organics	7/12/2019
4645	cis-1,2-Dichloroethylene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4645	cis-1,2-Dichloroethylene	EPA 8260D	10307127	Volatile Organics	2/10/2023
4680	cis-1,3-Dichloropropene	EPA 624.1	10298121	Volatile Organics	1/22/2018
4680	cis-1,3-Dichloropropene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4680	cis-1,3-Dichloropropene	EPA 8260D	10307127	Volatile Organics	2/10/2023
4600	cis-1,4-Dichloro-2-butene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4600	cis-1,4-Dichloro-2-butene	EPA 8260D	10307127	Volatile Organics	2/10/2023
1050	Cobalt	EPA 200.7	10013806	Metals	4/4/2002
1050	Cobalt	EPA 200.8	10014605	Metals	12/8/2006
1050	Cobalt	EPA 6010C	10155905	Metals	2/10/2023
1050	Cobalt	EPA 6010D	10155950	Metals	2/10/2023
1050	Cobalt	EPA 6020A	10156419	Metals	2/10/2023
1050	Cobalt	EPA 6020B	10156420	Metals	2/10/2023

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**Certification Type NELAP
Issue Date: 7/1/2025 Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
1605	Color	EPA 110.2	10005604	General Chemistry	2/13/2003
1605	Color	SM 2120 B-2011	20039310	General Chemistry	7/15/2022
1610	Conductivity	EPA 120.1	10006403	General Chemistry	4/30/2008
1610	Conductivity	EPA 9050A	10198808	General Chemistry	2/10/2023
1610	Conductivity	SM 2510 B-2011	20048617	General Chemistry	7/15/2022
1055	Copper	EPA 200.7	10013806	Metals	4/4/2002
1055	Copper	EPA 200.8	10014605	Metals	12/8/2006
1055	Copper	EPA 6010C	10155905	Metals	2/10/2023
1055	Copper	EPA 6010D	10155950	Metals	2/10/2023
1055	Copper	EPA 6020A	10156419	Metals	2/10/2023
1055	Copper	EPA 6020B	10156420	Metals	2/10/2023
1620	Corrosivity (langlier index)	SM 2330 B	20003207	General Chemistry	4/27/2007
1625	Corrosivity (pH)	EPA 9040C	10244403	General Chemistry	2/10/2023
4555	Cyclohexane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4555	Cyclohexane	EPA 8260D	10307127	Volatile Organics	2/10/2023
4560	Cyclohexanone	EPA 8260D	10307127	Volatile Organics	2/10/2023
8555	Dalapon	EPA 8151A	10183207	Pesticides-Herbicides-PCB's	2/10/2023
7105	delta-BHC	EPA 608.3	10296614	Extractable Organics	1/22/2018
7105	delta-BHC	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
7390	Demeton	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
7395	Demeton-o	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
7385	Demeton-s	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
6065	Di(2-ethylhexyl) phthalate (DEHP)	EPA 625.1	10300024	Extractable Organics	1/22/2018
6065	Di(2-ethylhexyl) phthalate (DEHP)	EPA 8270D	10186035	Extractable Organics	2/10/2023
6065	Di(2-ethylhexyl) phthalate (DEHP)	EPA 8270E	10242543	Extractable Organics	2/10/2023
6062	Di(2-ethylhexyl) adipate	EPA 8270D	10186035	Extractable Organics	2/10/2023
6062	Di(2-ethylhexyl) adipate	EPA 8270E	10242543	Extractable Organics	2/10/2023
7405	Diallate	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
7405	Diallate	EPA 8270E	10242543	Extractable Organics	2/10/2023
7410	Diazinon	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
5895	Dibenz(a,h)anthracene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5895	Dibenz(a,h)anthracene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5895	Dibenz(a,h)anthracene	EPA 8270E	10242543	Extractable Organics	2/10/2023
5900	Dibenz(a,j)acridine	EPA 8270D	10186035	Extractable Organics	2/10/2023
5900	Dibenz(a,j)acridine	EPA 8270E	10242543	Extractable Organics	2/10/2023
5905	Dibenzofuran	EPA 8270D	10186035	Extractable Organics	2/10/2023

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Certification Type: NELAP
Issue Date: 7/1/2025 **Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
5905	Dibenzofuran	EPA 8270E	10242543	Extractable Organics	2/10/2023
4575	Dibromochloromethane	EPA 624.1	10298121	Volatile Organics	1/22/2018
4575	Dibromochloromethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4575	Dibromochloromethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
4595	Dibromomethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4595	Dibromomethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
8595	Dicamba	EPA 8151A	10183207	Pesticides-Herbicides-PCB's	2/10/2023
4625	Dichlorodifluoromethane	EPA 624.1	10298121	Volatile Organics	6/19/2020
4625	Dichlorodifluoromethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4625	Dichlorodifluoromethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
8605	Dichloroprop (Dichloroprop)	EPA 8151A	10183207	Pesticides-Herbicides-PCB's	2/10/2023
7470	Dieldrin	EPA 608.3	10296614	Extractable Organics	1/22/2018
7470	Dieldrin	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
9369	Diesel range organics (DRO)	EPA 8015C	10173816	Extractable Organics	2/10/2023
4725	Diethyl ether	EPA 8260C	10307003	Volatile Organics	2/10/2023
4725	Diethyl ether	EPA 8260D	10307127	Volatile Organics	2/10/2023
6070	Diethyl phthalate	EPA 625.1	10300024	Extractable Organics	1/22/2018
6070	Diethyl phthalate	EPA 8270D	10186035	Extractable Organics	2/10/2023
6070	Diethyl phthalate	EPA 8270E	10242543	Extractable Organics	2/10/2023
9375	Di-isopropylether (DIPE)	EPA 8260C	10307003	Volatile Organics	2/10/2023
9375	Di-isopropylether (DIPE)	EPA 8260D	10307127	Volatile Organics	2/10/2023
7475	Dimethoate	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
7475	Dimethoate	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
7475	Dimethoate	EPA 8270E	10242543	Extractable Organics	2/10/2023
6135	Dimethyl phthalate	EPA 625.1	10300024	Extractable Organics	1/22/2018
6135	Dimethyl phthalate	EPA 8270D	10186035	Extractable Organics	2/10/2023
6135	Dimethyl phthalate	EPA 8270E	10242543	Extractable Organics	2/10/2023
5925	Di-n-butyl phthalate	EPA 625.1	10300024	Extractable Organics	1/22/2018
5925	Di-n-butyl phthalate	EPA 8270D	10186035	Extractable Organics	2/10/2023
5925	Di-n-butyl phthalate	EPA 8270E	10242543	Extractable Organics	2/10/2023
6200	Di-n-octyl phthalate	EPA 625.1	10300024	Extractable Organics	1/22/2018
6200	Di-n-octyl phthalate	EPA 8270D	10186035	Extractable Organics	2/10/2023
6200	Di-n-octyl phthalate	EPA 8270E	10242543	Extractable Organics	2/10/2023
8620	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8151A	10183207	Pesticides-Herbicides-PCB's	2/10/2023
8620	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type: NELAP
Issue Date: 7/1/2025 **Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway

Jacksonville, FL 32216

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
8620	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8270E	10242543	Extractable Organics	2/10/2023
6205	Diphenylamine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6205	Diphenylamine	EPA 8270E	10242543	Extractable Organics	2/10/2023
1710	Dissolved organic carbon (DOC)	SM 5310 C	20138630	General Chemistry	5/9/2022
8625	Disulfoton	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
8625	Disulfoton	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
8625	Disulfoton	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
7510	Endosulfan I	EPA 608.3	10296614	Extractable Organics	1/22/2018
7510	Endosulfan I	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
7515	Endosulfan II	EPA 608.3	10296614	Extractable Organics	1/22/2018
7515	Endosulfan II	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
7520	Endosulfan sulfate	EPA 608.3	10296614	Extractable Organics	1/22/2018
7520	Endosulfan sulfate	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
7540	Endrin	EPA 608.3	10296614	Extractable Organics	1/22/2018
7540	Endrin	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
7530	Endrin aldehyde	EPA 608.3	10296614	Extractable Organics	1/22/2018
7530	Endrin aldehyde	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
7535	Endrin ketone	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
2520	Enterococci	ENTEROLERT / QUANTI-TRAY	60030208	Microbiology	7/1/2018
2525	Escherichia coli	SM 9223 B (Colilert Quanti-Tray)-2016	20211647	Microbiology	7/15/2022
4747	Ethane	RSK-175	10212905	Volatile Organics	2/18/2016
4750	Ethanol	EPA 8015C	10173816	Volatile Organics	2/10/2023
4750	Ethanol	EPA 8260C	10307003	Volatile Organics	2/10/2023
4750	Ethanol	EPA 8260D	10307127	Volatile Organics	2/10/2023
7565	Ethion	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
7570	Ethoprop	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
4755	Ethyl acetate	EPA 8260C	10307003	Volatile Organics	2/10/2023
4755	Ethyl acetate	EPA 8260D	10307127	Volatile Organics	2/10/2023
4810	Ethyl methacrylate	EPA 8260C	10307003	Volatile Organics	2/10/2023
4810	Ethyl methacrylate	EPA 8260D	10307127	Volatile Organics	2/10/2023
6260	Ethyl methanesulfonate	EPA 8270D	10186035	Extractable Organics	2/10/2023
6260	Ethyl methanesulfonate	EPA 8270E	10242543	Extractable Organics	2/10/2023
4765	Ethylbenzene	EPA 624.1	10298121	Volatile Organics	1/22/2018
4765	Ethylbenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4765	Ethylbenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type: NELAP
Issue Date: 7/1/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
4752	Ethylene	RSK-175	10212905	Volatile Organics	2/18/2016
4785	Ethylene glycol	EPA 8015C	10173816	Volatile Organics	2/10/2023
4770	Ethyl-t-butylether (ETBE)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4770	Ethyl-t-butylether (ETBE)	EPA 8260D	10307127	Volatile Organics	2/10/2023
7580	Famphur	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
7580	Famphur	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
7580	Famphur	EPA 8270E	10242543	Extractable Organics	2/10/2023
2530	Fecal coliforms	COLILERT®-18 (Fecal Coliforms)	60002688	Microbiology	7/1/2018
7600	Fensulfothion	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
1074	Ferric Iron (calculation)	SM 3500-Fe D (18th/19th Ed.)/UV-VIS	20009603	Metals	6/7/2023
6265	Fluoranthene	EPA 625.1	10300024	Extractable Organics	1/22/2018
6265	Fluoranthene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6265	Fluoranthene	EPA 8270E	10242543	Extractable Organics	2/10/2023
6270	Fluorene	EPA 625.1	10300024	Extractable Organics	1/22/2018
6270	Fluorene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6270	Fluorene	EPA 8270E	10242543	Extractable Organics	2/10/2023
1730	Fluoride	EPA 300.0	10053200	General Chemistry	5/10/2011
1730	Fluoride	EPA 9056A	10199607	General Chemistry	2/10/2023
7640	Fonophos	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
7120	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 608.3	10296614	Extractable Organics	1/22/2018
7120	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
7245	gamma-Chlordane	EPA 608.3	10296614	Pesticides-Herbicides-PCB's	7/12/2019
7245	gamma-Chlordane	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
9408	Gasoline range organics (GRO)	EPA 8015C	10173816	Volatile Organics	2/10/2023
1750	Hardness	SM 2340 B-2011	20046611	General Chemistry	7/15/2022
7685	Heptachlor	EPA 608.3	10296614	Extractable Organics	1/22/2018
7685	Heptachlor	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
7690	Heptachlor epoxide	EPA 608.3	10296614	Extractable Organics	1/22/2018
7690	Heptachlor epoxide	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
6275	Hexachlorobenzene	EPA 625.1	10300024	Extractable Organics	1/22/2018
6275	Hexachlorobenzene	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
6275	Hexachlorobenzene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6275	Hexachlorobenzene	EPA 8270E	10242543	Extractable Organics	2/10/2023
4835	Hexachlorobutadiene	EPA 625.1	10300024	Extractable Organics	1/22/2018

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type: NELAP
Issue Date: 7/1/2025 **Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574 EPA Lab Code: FL00949 (904) 363-9350

**E82574
Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
4835	Hexachlorobutadiene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4835	Hexachlorobutadiene	EPA 8260D	10307127	Volatile Organics	2/10/2023
4835	Hexachlorobutadiene	EPA 8270D	10186035	Extractable Organics	2/10/2023
4835	Hexachlorobutadiene	EPA 8270E	10242543	Extractable Organics	2/10/2023
6285	Hexachlorocyclopentadiene	EPA 625.1	10300024	Extractable Organics	1/22/2018
6285	Hexachlorocyclopentadiene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6285	Hexachlorocyclopentadiene	EPA 8270E	10242543	Extractable Organics	2/10/2023
4840	Hexachloroethane	EPA 625.1	10300024	Extractable Organics	1/22/2018
4840	Hexachloroethane	EPA 8270D	10186035	Extractable Organics	2/10/2023
4840	Hexachloroethane	EPA 8270E	10242543	Extractable Organics	2/10/2023
6295	Hexachloropropene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6295	Hexachloropropene	EPA 8270E	10242543	Extractable Organics	2/10/2023
9460	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA, GenX)	EPA 1633	10123463	Extractable Organics	1/31/2024
1780	Ignitability	EPA 1020	10116800	General Chemistry	6/6/2017
6315	Indeno(1,2,3-cd)pyrene	EPA 625.1	10300024	Extractable Organics	1/22/2018
6315	Indeno(1,2,3-cd)pyrene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6315	Indeno(1,2,3-cd)pyrene	EPA 8270E	10242543	Extractable Organics	2/10/2023
4870	Iodomethane (Methyl iodide)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4870	Iodomethane (Methyl iodide)	EPA 8260D	10307127	Volatile Organics	2/10/2023
1070	Iron	EPA 200.7	10013806	Metals	4/4/2002
1070	Iron	EPA 200.8	10014605	Metals	6/6/2017
1070	Iron	EPA 6010C	10155905	Metals	2/10/2023
1070	Iron	EPA 6010D	10155950	Metals	2/10/2023
1070	Iron	EPA 6020A	10156419	Metals	2/10/2023
1070	Iron	EPA 6020B	10156420	Metals	2/10/2023
1073	Iron-(II) (Ferrous Iron)	SM 3500-Fe D (18th/19th 20009603 Ed.)/UV-VIS		Metals	10/26/2009
4875	Isobutyl alcohol (2-Methyl-1-propanol)	EPA 8015C	10173816	Volatile Organics	2/10/2023
4875	Isobutyl alcohol (2-Methyl-1-propanol)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4875	Isobutyl alcohol (2-Methyl-1-propanol)	EPA 8260D	10307127	Volatile Organics	2/10/2023
7725	Isodrin	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
7725	Isodrin	EPA 8270E	10242543	Extractable Organics	2/10/2023
6320	Isophorone	EPA 625.1	10300024	Extractable Organics	1/22/2018
6320	Isophorone	EPA 8270D	10186035	Extractable Organics	2/10/2023
6320	Isophorone	EPA 8270E	10242543	Extractable Organics	2/10/2023
4895	Isopropyl alcohol (2-Propanol)	EPA 8015C	10173816	Volatile Organics	2/10/2023

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**Certification Type NELAP
Issue Date: 7/1/2025 Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574 EPA Lab Code: FL00949 (904) 363-9350

**E82574
Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
4895	Isopropyl alcohol (2-Propanol)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4895	Isopropyl alcohol (2-Propanol)	EPA 8260D	10307127	Volatile Organics	2/10/2023
4900	Isopropylbenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4900	Isopropylbenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
6325	Isosafrole	EPA 8270D	10186035	Extractable Organics	2/10/2023
6325	Isosafrole	EPA 8270E	10242543	Extractable Organics	2/10/2023
7740	Kepone	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
7740	Kepone	EPA 8270E	10242543	Extractable Organics	2/10/2023
1075	Lead	EPA 200.7	10013806	Metals	4/4/2002
1075	Lead	EPA 200.8	10014605	Metals	12/8/2006
1075	Lead	EPA 6010C	10155905	Metals	2/10/2023
1075	Lead	EPA 6010D	10155950	Metals	2/10/2023
1075	Lead	EPA 6020A	10156419	Metals	2/10/2023
1075	Lead	EPA 6020B	10156420	Metals	2/10/2023
1080	Lithium	EPA 200.7	10013806	Metals	6/6/2017
1080	Lithium	EPA 6010C	10155905	Metals	2/10/2023
1080	Lithium	EPA 6010D	10155950	Metals	2/10/2023
5240	m+p-Xylenes	EPA 624.1	10298121	Volatile Organics	6/19/2020
5240	m+p-Xylenes	EPA 8260C	10307003	Volatile Organics	2/10/2023
5240	m+p-Xylenes	EPA 8260D	10307127	Volatile Organics	2/10/2023
1085	Magnesium	EPA 200.7	10013806	Metals	4/4/2002
1085	Magnesium	EPA 6010C	10155905	Metals	2/10/2023
1085	Magnesium	EPA 6010D	10155950	Metals	2/10/2023
7770	Malathion	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
1090	Manganese	EPA 200.7	10013806	Metals	4/4/2002
1090	Manganese	EPA 200.8	10014605	Metals	12/8/2006
1090	Manganese	EPA 6010C	10155905	Metals	2/10/2023
1090	Manganese	EPA 6010D	10155950	Metals	2/10/2023
1090	Manganese	EPA 6020A	10156419	Metals	2/10/2023
1090	Manganese	EPA 6020B	10156420	Metals	2/10/2023
7775	MCPA	EPA 8151A	10183207	Pesticides-Herbicides-PCB's	2/10/2023
7780	MCPA	EPA 8151A	10183207	Pesticides-Herbicides-PCB's	2/10/2023
1095	Mercury	EPA 1631E	10237204	Metals	7/31/2023
1095	Mercury	EPA 245.1	10036609	Metals	4/4/2002
1095	Mercury	EPA 7470A	10165807	Metals	2/10/2023
7785	Merphos	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023

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**Certification Type NELAP
Issue Date: 7/1/2025 Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway

Jacksonville, FL 32216

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
4925	Methacrylonitrile	EPA 8260C	10307003	Volatile Organics	2/10/2023
4925	Methacrylonitrile	EPA 8260D	10307127	Volatile Organics	2/10/2023
4926	Methane	RSK-175	10212905	Volatile Organics	2/18/2016
4930	Methanol	EPA 8015C	10173816	Volatile Organics	2/10/2023
6345	Methapyrilene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6345	Methapyrilene	EPA 8270E	10242543	Extractable Organics	2/10/2023
7810	Methoxychlor	EPA 608.3	10296614	Extractable Organics	1/22/2018
7810	Methoxychlor	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
4940	Methyl acetate	EPA 8260C	10307003	Volatile Organics	2/10/2023
4940	Methyl acetate	EPA 8260D	10307127	Volatile Organics	2/10/2023
4950	Methyl bromide (Bromomethane)	EPA 624.1	10298121	Volatile Organics	1/22/2018
4950	Methyl bromide (Bromomethane)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4950	Methyl bromide (Bromomethane)	EPA 8260D	10307127	Volatile Organics	2/10/2023
4960	Methyl chloride (Chloromethane)	EPA 624.1	10298121	Volatile Organics	1/22/2018
4960	Methyl chloride (Chloromethane)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4960	Methyl chloride (Chloromethane)	EPA 8260D	10307127	Volatile Organics	2/10/2023
4990	Methyl methacrylate	EPA 8260C	10307003	Volatile Organics	2/10/2023
4990	Methyl methacrylate	EPA 8260D	10307127	Volatile Organics	2/10/2023
6375	Methyl methanesulfonate	EPA 8270D	10186035	Extractable Organics	2/10/2023
6375	Methyl methanesulfonate	EPA 8270E	10242543	Extractable Organics	2/10/2023
7825	Methyl parathion (Parathion, methyl)	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
7825	Methyl parathion (Parathion, methyl)	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
7825	Methyl parathion (Parathion, methyl)	EPA 8270E	10242543	Extractable Organics	2/10/2023
5000	Methyl tert-butyl ether (MTBE)	EPA 624.1	10298121	Volatile Organics	1/22/2018
5000	Methyl tert-butyl ether (MTBE)	EPA 8260C	10307003	Volatile Organics	2/10/2023
5000	Methyl tert-butyl ether (MTBE)	EPA 8260D	10307127	Volatile Organics	2/10/2023
6415	Methyl-2,4,6-trinitrophenylnitramine (tetryl)	EPA 8330A	10190008	Extractable Organics	2/10/2023
6415	Methyl-2,4,6-trinitrophenylnitramine (tetryl)	EPA 8330B	10308006	Extractable Organics	2/10/2023
4965	Methylcyclohexane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4965	Methylcyclohexane	EPA 8260D	10307127	Volatile Organics	2/10/2023
4975	Methylene chloride	EPA 624.1	10298121	Volatile Organics	1/22/2018
4975	Methylene chloride	EPA 8260C	10307003	Volatile Organics	2/10/2023
4975	Methylene chloride	EPA 8260D	10307127	Volatile Organics	2/10/2023
7850	Mevinphos	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
7870	Mirex	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
1100	Molybdenum	EPA 200.7	10013806	Metals	4/4/2002

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Certification Type: NELAP
Issue Date: 7/1/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574 EPA Lab Code: FL00949 (904) 363-9350

**E82574
Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
1100	Molybdenum	EPA 200.8	10014605	Metals	12/8/2006
1100	Molybdenum	EPA 6010C	10155905	Metals	2/10/2023
1100	Molybdenum	EPA 6010D	10155950	Metals	2/10/2023
1100	Molybdenum	EPA 6020A	10156419	Metals	2/10/2023
1100	Molybdenum	EPA 6020B	10156420	Metals	2/10/2023
5245	m-Xylene	EPA 624.1	10298121	Volatile Organics	1/22/2018
5005	Naphthalene	EPA 624.1	10298121	Volatile Organics	1/22/2018
5005	Naphthalene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5005	Naphthalene	EPA 8260C	10307003	Volatile Organics	2/10/2023
5005	Naphthalene	EPA 8260D	10307127	Volatile Organics	2/10/2023
5005	Naphthalene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5005	Naphthalene	EPA 8270E	10242543	Extractable Organics	2/10/2023
4425	n-Butyl alcohol	EPA 8015C	10173816	Volatile Organics	2/10/2023
4435	n-Butylbenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4435	n-Butylbenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
5875	n-Decane	EPA 625.1	10300024	Extractable Organics	1/22/2018
9395	N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	EPA 1633	10123463	Extractable Organics	1/31/2024
4846	N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	EPA 1633	10123463	Extractable Organics	1/31/2024
9431	N-ethylperfluorooctane sulfonamido ethanol (EtFOSE)	EPA 1633	10123463	Extractable Organics	1/31/2024
1105	Nickel	EPA 200.7	10013806	Metals	4/4/2002
1105	Nickel	EPA 200.8	10014605	Metals	12/8/2006
1105	Nickel	EPA 6010C	10155905	Metals	2/10/2023
1105	Nickel	EPA 6010D	10155950	Metals	2/10/2023
1105	Nickel	EPA 6020A	10156419	Metals	2/10/2023
1105	Nickel	EPA 6020B	10156420	Metals	2/10/2023
1805	Nitrate	EPA 300.0	10053200	General Chemistry	5/10/2011
1805	Nitrate	EPA 9056A	10199607	General Chemistry	2/10/2023
1835	Nitrite	EPA 300.0	10053200	General Chemistry	5/10/2011
1835	Nitrite	EPA 9056A	10199607	General Chemistry	2/10/2023
5015	Nitrobenzene	EPA 625.1	10300024	Extractable Organics	1/22/2018
5015	Nitrobenzene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5015	Nitrobenzene	EPA 8270E	10242543	Extractable Organics	2/10/2023
5015	Nitrobenzene	EPA 8330A	10190008	Extractable Organics	2/10/2023
5015	Nitrobenzene	EPA 8330B	10308006	Extractable Organics	2/10/2023
6485	Nitroglycerin	EPA 8330B	10308006	Extractable Organics	2/10/2023

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Issue Date: 7/1/2025 **Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
6949	N-Methyl perfluoro-octane sulfonamido ethanol (N-MeFOSE)	EPA 1633	10123463	Extractable Organics	1/31/2024
9433	N-Methylperfluorooctane sulfonamide (MeFOSA)	EPA 1633	10123463	Extractable Organics	1/31/2024
4847	N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6525	n-Nitrosodiethylamine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6525	n-Nitrosodiethylamine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6530	n-Nitrosodimethylamine	EPA 625.1	10300024	Extractable Organics	1/22/2018
6530	n-Nitrosodimethylamine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6530	n-Nitrosodimethylamine	EPA 8270E	10242543	Extractable Organics	2/10/2023
5025	n-Nitroso-di-n-butylamine	EPA 8270D	10186035	Extractable Organics	2/10/2023
5025	n-Nitroso-di-n-butylamine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6545	n-Nitrosodi-n-propylamine	EPA 625.1	10300024	Extractable Organics	1/22/2018
6545	n-Nitrosodi-n-propylamine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6545	n-Nitrosodi-n-propylamine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6535	n-Nitrosodiphenylamine	EPA 625.1	10300024	Extractable Organics	1/22/2018
6535	n-Nitrosodiphenylamine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6535	n-Nitrosodiphenylamine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6550	n-Nitrosomethylethylamine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6550	n-Nitrosomethylethylamine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6555	n-Nitrosomorpholine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6555	n-Nitrosomorpholine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6560	n-Nitrosopiperidine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6560	n-Nitrosopiperidine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6565	n-Nitrosopyrrolidine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6565	n-Nitrosopyrrolidine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6580	n-Octadecane	EPA 625.1	10300024	Extractable Organics	1/22/2018
6956	Nonfluoro-3,6-dioxahexanoic Acid (NFDHA)	EPA 1633	10123463	Extractable Organics	1/31/2024
5055	n-Propanol (1-Propanol)	EPA 8015C	10173816	Volatile Organics	2/10/2023
5090	n-Propylbenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
5090	n-Propylbenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
8290	o,o,o-Triethyl phosphorothioate	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
8290	o,o,o-Triethyl phosphorothioate	EPA 8270E	10242543	Extractable Organics	2/10/2023
9522	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	EPA 8330A	10190008	Extractable Organics	2/10/2023
9522	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	EPA 8330B	10308006	Extractable Organics	2/10/2023
1860	Oil & Grease	EPA 1664B	10261617	General Chemistry	7/12/2019

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Certification Type: NELAP
Issue Date: 7/1/2025 **Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
6748	Oil Range Organics (ORO)	AEL SOP SVOC-040 / GC-FID	60001414	Extractable Organics	6/19/2020
1865	Organic nitrogen	TKN minus AMMONIA	60034437	General Chemistry	10/26/2009
1870	Orthophosphate as P	EPA 300.0	10053200	General Chemistry	5/10/2011
1870	Orthophosphate as P	EPA 9056A	10199607	General Chemistry	2/10/2023
5145	o-Toluidine	EPA 8270D	10186035	Extractable Organics	2/10/2023
5145	o-Toluidine	EPA 8270E	10242543	Extractable Organics	2/10/2023
5250	o-Xylene	EPA 624.1	10298121	Volatile Organics	1/22/2018
5250	o-Xylene	EPA 8260C	10307003	Volatile Organics	2/10/2023
5250	o-Xylene	EPA 8260D	10307127	Volatile Organics	2/10/2023
7955	Parathion, ethyl	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
7955	Parathion, ethyl	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
7955	Parathion, ethyl	EPA 8270E	10242543	Extractable Organics	2/10/2023
6590	Pentachlorobenzene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6590	Pentachlorobenzene	EPA 8270E	10242543	Extractable Organics	2/10/2023
5035	Pentachloroethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
5035	Pentachloroethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
6600	Pentachloronitrobenzene (Quintozene)	EPA 8270D	10186035	Extractable Organics	2/10/2023
6600	Pentachloronitrobenzene (Quintozene)	EPA 8270E	10242543	Extractable Organics	2/10/2023
6605	Pentachlorophenol	EPA 625.1	10300024	Extractable Organics	1/22/2018
6605	Pentachlorophenol	EPA 8151A	10183207	Pesticides-Herbicides-PCB's	2/10/2023
6605	Pentachlorophenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
6605	Pentachlorophenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
9558	Pentaerythritoltetranitrate (PETN)	EPA 8330B	10308006	Extractable Organics	2/10/2023
6957	Perfluoro(2-ethoxyethane) Sulfonic Acid (PFEEESA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6965	Perfluoro-3-methoxypropanoic Acid (PFMPA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6966	Perfluoro-4-methoxybutanoic Acid (PFMBA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6918	Perfluorobutane Sulfonic Acid (PFBS)	EPA 1633	10123463	Extractable Organics	1/31/2024
6915	Perfluorobutanoic Acid (PFBA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6920	Perfluorodecane Sulfonic Acid (PFDS)	EPA 1633	10123463	Extractable Organics	1/31/2024
6905	Perfluorodecanoic Acid (PFDA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6923	Perfluorododecane Sulfonic Acid (PFDoS)	EPA 1633	10123463	Extractable Organics	1/31/2024
6903	Perfluorododecanoic Acid (PFDoA)	EPA 1633	10123463	Extractable Organics	1/31/2024
9470	Perfluoroheptane Sulfonic Acid (PFHpS)	EPA 1633	10123463	Extractable Organics	1/31/2024
6908	Perfluoroheptanoic Acid (PFHpA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6927	Perfluorohexane Sulfonic Acid (PFHxS)	EPA 1633	10123463	Extractable Organics	1/31/2024

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Certification Type: NELAP
Issue Date: 7/1/2025 **Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
6913	Perfluorohexanoic Acid (PFHxA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6929	Perfluorononane Sulfonic Acid (PFNS)	EPA 1633	10123463	Extractable Organics	1/31/2024
6906	Perfluorononanoic Acid (PFNA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6917	Perfluorooctane sulfonamide (PFOSA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6931	Perfluorooctane sulfonic acid (PFOS)	EPA 1633	10123463	Extractable Organics	1/31/2024
6912	Perfluorooctanoic Acid (PFOA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6934	Perfluoropentane Sulfonic Acid (PFPeS)	EPA 1633	10123463	Extractable Organics	1/31/2024
6914	Perfluoropentanoic Acid (PFPeA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6902	Perfluorotetradecanoic acid (PFTDA)	EPA 1633	10123463	Extractable Organics	1/31/2024
9563	Perfluorotridecanoic acid (PFTrDA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6904	Perfluoroundecanoic acid (PFUnA)	EPA 1633	10123463	Extractable Organics	1/31/2024
1900	pH	EPA 150.1	10008409	General Chemistry	12/8/2006
1900	pH	EPA 9040C	10244403	General Chemistry	2/10/2023
1900	pH	SM 4500-H+ B-2011	20105220		7/15/2022
6610	Phenacetin	EPA 8270D	10186035	Extractable Organics	2/10/2023
6610	Phenacetin	EPA 8270E	10242543	Extractable Organics	2/10/2023
6615	Phenanthrene	EPA 625.1	10300024	Extractable Organics	1/22/2018
6615	Phenanthrene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6615	Phenanthrene	EPA 8270E	10242543	Extractable Organics	2/10/2023
6625	Phenol	EPA 625.1	10300024	Extractable Organics	1/22/2018
6625	Phenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
6625	Phenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
7985	Phorate	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
7985	Phorate	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
7985	Phorate	EPA 8270E	10242543	Extractable Organics	2/10/2023
8000	Phosmet (Imidan)	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
4910	p-Isopropyltoluene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4910	p-Isopropyltoluene	EPA 8260D	10307127	Volatile Organics	2/10/2023
1125	Potassium	EPA 200.7	10013806	Metals	4/4/2002
1125	Potassium	EPA 6010C	10155905	Metals	2/10/2023
1125	Potassium	EPA 6010D	10155950	Metals	2/10/2023
8035	Prometon	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
8035	Prometon	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
8040	Prometryn	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
8040	Prometryn	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
6650	Pronamide (Kerb)	EPA 8270D	10186035	Extractable Organics	2/10/2023

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Certification Type: NELAP
Issue Date: 7/1/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574 EPA Lab Code: FL00949 (904) 363-9350

**E82574
Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
6650	Pronamide (Kerb)	EPA 8270E	10242543	Extractable Organics	2/10/2023
8060	Propazine	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
8060	Propazine	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
5080	Propionitrile (Ethyl cyanide)	EPA 8260C	10307003	Volatile Organics	2/10/2023
5080	Propionitrile (Ethyl cyanide)	EPA 8260D	10307127	Volatile Organics	2/10/2023
6657	Propylene Glycol	EPA 8015C	10173816	Volatile Organics	2/10/2023
5255	p-Xylene	EPA 624.1	10298121	Volatile Organics	1/22/2018
6665	Pyrene	EPA 625.1	10300024	Extractable Organics	1/22/2018
6665	Pyrene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6665	Pyrene	EPA 8270E	10242543	Extractable Organics	2/10/2023
5095	Pyridine	EPA 625.1	10300024	Extractable Organics	1/22/2018
5095	Pyridine	EPA 8270D	10186035	Extractable Organics	2/10/2023
5095	Pyridine	EPA 8270E	10242543	Extractable Organics	2/10/2023
9432	RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	EPA 8330A	10190008	Extractable Organics	2/10/2023
9432	RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	EPA 8330B	10308006	Extractable Organics	2/10/2023
6751	Residual Range Organics (RRO)	AEL SOP SVOC-040 / GC-FID	60001414	Extractable Organics	6/19/2020
1955	Residue-filterable (TDS)	EPA 160.1	10009208	General Chemistry	4/4/2002
1955	Residue-filterable (TDS)	SM 2540 C-2015	20050435	General Chemistry	7/15/2022
1960	Residue-nonfilterable (TSS)	EPA 160.2	10009606	General Chemistry	4/4/2002
1960	Residue-nonfilterable (TSS)	SM 2540 D-2015	20051223	General Chemistry	7/15/2022
1965	Residue-settleable	EPA 160.5	10010807	General Chemistry	1/21/2005
1965	Residue-settleable	SM 2540 F-2015	20052226	General Chemistry	7/15/2022
1950	Residue-total	EPA 160.3	10010001	General Chemistry	1/9/2024
1950	Residue-total	SM 2540 B-2015	20049438	General Chemistry	1/9/2024
8110	Ronnel	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
6685	Safrole	EPA 8270D	10186035	Extractable Organics	2/10/2023
6685	Safrole	EPA 8270E	10242543	Extractable Organics	2/10/2023
4440	sec-Butylbenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4440	sec-Butylbenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
1140	Selenium	EPA 200.7	10013806	Metals	4/4/2002
1140	Selenium	EPA 200.8	10014605	Metals	12/8/2006
1140	Selenium	EPA 6010C	10155905	Metals	2/10/2023
1140	Selenium	EPA 6010D	10155950	Metals	2/10/2023
1140	Selenium	EPA 6020A	10156419	Metals	2/10/2023
1140	Selenium	EPA 6020B	10156420	Metals	2/10/2023
1990	Silica as SiO2	EPA 200.7	10013806	Metals	1/11/2022

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**Certification Type NELAP
Issue Date: 7/1/2025 Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
1990	Silica as SiO2	EPA 6010C	10155905	Metals	2/10/2023
1990	Silica as SiO2	EPA 6010D	10155950	Metals	2/10/2023
1150	Silver	EPA 200.7	10013806	Metals	5/8/2002
1150	Silver	EPA 200.8	10014605	Metals	12/8/2006
1150	Silver	EPA 6010C	10155905	Metals	2/10/2023
1150	Silver	EPA 6010D	10155950	Metals	2/10/2023
1150	Silver	EPA 6020A	10156419	Metals	2/10/2023
1150	Silver	EPA 6020B	10156420	Metals	2/10/2023
8650	Silvex (2,4,5-TP)	EPA 8151A	10183207	Pesticides-Herbicides-PCB's	2/10/2023
8125	Simazine	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
8125	Simazine	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
8125	Simazine	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
1155	Sodium	EPA 200.7	10013806	Metals	4/4/2002
1155	Sodium	EPA 6010C	10155905	Metals	2/10/2023
1155	Sodium	EPA 6010D	10155950	Metals	2/10/2023
1160	Strontium	EPA 200.7	10013806	Metals	1/21/2005
1160	Strontium	EPA 200.8	10014605	Metals	7/12/2019
1160	Strontium	EPA 6010C	10155905	Metals	2/10/2023
1160	Strontium	EPA 6010D	10155950	Metals	2/10/2023
1160	Strontium	EPA 6020B	10156420	Metals	2/10/2023
5100	Styrene	EPA 8260C	10307003	Volatile Organics	2/10/2023
5100	Styrene	EPA 8260D	10307127	Volatile Organics	2/10/2023
2000	Sulfate	EPA 300.0	10053200	General Chemistry	7/18/2011
2000	Sulfate	EPA 9056A	10199607	General Chemistry	2/10/2023
2005	Sulfide	SM 4500-S2 ⁻ D-2011	20125864	General Chemistry	7/15/2022
8155	Sulfotepp	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
8155	Sulfotepp	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
8155	Sulfotepp	EPA 8270E	10242543	Extractable Organics	2/10/2023
4370	T-amylmethylether (TAME)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4370	T-amylmethylether (TAME)	EPA 8260D	10307127	Volatile Organics	2/10/2023
8195	Terbutryn	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
8195	Terbutryn	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
4420	tert-Butyl alcohol (2-Methyl-2-propanol)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4420	tert-Butyl alcohol (2-Methyl-2-propanol)	EPA 8260D	10307127	Volatile Organics	2/10/2023
4445	tert-Butylbenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4445	tert-Butylbenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023

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Certification Type: NELAP
Issue Date: 7/1/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

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State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
5115	Tetrachloroethylene (Perchloroethylene)	EPA 624.1	10298121	Volatile Organics	1/22/2018
5115	Tetrachloroethylene (Perchloroethylene)	EPA 8260C	10307003	Volatile Organics	2/10/2023
5115	Tetrachloroethylene (Perchloroethylene)	EPA 8260D	10307127	Volatile Organics	2/10/2023
5120	Tetrahydrofuran (THF)	EPA 8260D	10307127	Volatile Organics	2/10/2023
1165	Thallium	EPA 200.7	10013806	Metals	2/13/2003
1165	Thallium	EPA 200.8	10014605	Metals	12/8/2006
1165	Thallium	EPA 6010C	10155905	Metals	2/10/2023
1165	Thallium	EPA 6010D	10155950	Metals	2/10/2023
1165	Thallium	EPA 6020A	10156419	Metals	2/10/2023
1165	Thallium	EPA 6020B	10156420	Metals	2/10/2023
8235	Thionazin (Zinophos)	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
8235	Thionazin (Zinophos)	EPA 8270E	10242543	Extractable Organics	2/10/2023
1175	Tin	EPA 200.7	10013806	Metals	1/21/2005
1175	Tin	EPA 200.8	10014605	Metals	7/12/2019
1175	Tin	EPA 6010C	10155905	Metals	2/10/2023
1175	Tin	EPA 6010D	10155950	Metals	2/10/2023
1175	Tin	EPA 6020A	10156419	Metals	2/10/2023
1175	Tin	EPA 6020B	10156420	Metals	2/10/2023
1180	Titanium	EPA 200.7	10013806	Metals	1/21/2005
1180	Titanium	EPA 200.8	10014605	Metals	7/12/2019
1180	Titanium	EPA 6010C	10155905	Metals	2/10/2023
1180	Titanium	EPA 6010D	10155950	Metals	2/10/2023
1180	Titanium	EPA 6020A	10156419	Metals	2/10/2023
1180	Titanium	EPA 6020B	10156420	Metals	2/10/2023
5140	Toluene	EPA 624.1	10298121	Volatile Organics	1/22/2018
5140	Toluene	EPA 8260C	10307003	Volatile Organics	2/10/2023
5140	Toluene	EPA 8260D	10307127	Volatile Organics	2/10/2023
2500	Total coliforms	SM 9223 B (Colilert Quanti-Tray)-2016	20211647	Microbiology	7/15/2022
1813	Total Inorganic Carbon	AEL SOP WC-022, Rev. 11	60001469	General Chemistry	7/2/2022
1825	Total nitrate-nitrite	EPA 300.0	10053200	General Chemistry	5/10/2011
1825	Total nitrate-nitrite	EPA 9056A	10199607	General Chemistry	2/10/2023
1827	Total Nitrogen	TKN + Total Nitrate-Nitrite	60034459	General Chemistry	10/26/2009
2040	Total organic carbon	EPA 415.1	10078407	General Chemistry	5/9/2022
2040	Total organic carbon	SM 5310 C-2014	20138834	General Chemistry	7/15/2022
2045	Total organic halides (TOX)	EPA 9020B	10194408	General Chemistry	2/10/2023

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Certification Type: NELAP
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Laboratory Scope of Accreditation

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State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway

Jacksonville, FL 32216

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
2050	Total Petroleum Hydrocarbons (TPH)	EPA 1664B	10261617	General Chemistry	9/2/2021
2050	Total Petroleum Hydrocarbons (TPH)	FL-PRO	90015808	Extractable Organics	7/1/2003
1940	Total residual chlorine	SM 4500-Cl G-2011	20081623	General Chemistry	7/15/2022
8250	Toxaphene (Chlorinated camphene)	EPA 608.3	10296614	Extractable Organics	1/22/2018
8250	Toxaphene (Chlorinated camphene)	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
4700	trans-1,2-Dichloroethylene	EPA 624.1	10298121	Volatile Organics	1/22/2018
4700	trans-1,2-Dichloroethylene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4700	trans-1,2-Dichloroethylene	EPA 8260D	10307127	Volatile Organics	2/10/2023
4685	trans-1,3-Dichloropropene	EPA 624.1	10298121	Volatile Organics	1/22/2018
4685	trans-1,3-Dichloropropene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4685	trans-1,3-Dichloropropene	EPA 8260D	10307127	Volatile Organics	2/10/2023
4605	trans-1,4-Dichloro-2-butene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4605	trans-1,4-Dichloro-2-butene	EPA 8260D	10307127	Volatile Organics	2/10/2023
5170	Trichloroethene (Trichloroethylene)	EPA 624.1	10298121	Volatile Organics	1/22/2018
5170	Trichloroethene (Trichloroethylene)	EPA 8260C	10307003	Volatile Organics	2/10/2023
5170	Trichloroethene (Trichloroethylene)	EPA 8260D	10307127	Volatile Organics	2/10/2023
5175	Trichlorofluoromethane	EPA 624.1	10298121	Volatile Organics	1/22/2018
5175	Trichlorofluoromethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
5175	Trichlorofluoromethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
2055	Turbidity	EPA 180.1	10011800	General Chemistry	2/13/2003
2055	Turbidity	SM 2130 B-2011	20048220	General Chemistry	7/15/2022
1184	Uranium (mass)	EPA 200.8	10014605	Metals	12/8/2006
1184	Uranium (mass)	EPA 6020A	10156419	Metals	2/10/2023
1184	Uranium (mass)	EPA 6020B	10156420	Metals	2/10/2023
1185	Vanadium	EPA 200.7	10013806	Metals	4/4/2002
1185	Vanadium	EPA 200.8	10014605	Metals	4/16/2013
1185	Vanadium	EPA 6010C	10155905	Metals	2/10/2023
1185	Vanadium	EPA 6010D	10155950	Metals	2/10/2023
1185	Vanadium	EPA 6020A	10156419	Metals	2/10/2023
1185	Vanadium	EPA 6020B	10156420	Metals	2/10/2023
5225	Vinyl acetate	EPA 8260C	10307003	Volatile Organics	2/10/2023
5225	Vinyl acetate	EPA 8260D	10307127	Volatile Organics	2/10/2023
5235	Vinyl chloride	EPA 624.1	10298121	Volatile Organics	1/22/2018
5235	Vinyl chloride	EPA 8260C	10307003	Volatile Organics	2/10/2023
5235	Vinyl chloride	EPA 8260D	10307127	Volatile Organics	2/10/2023
5260	Xylene (total)	EPA 624.1	10298121	Volatile Organics	1/22/2018

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type: NELAP
Issue Date: 7/1/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Non-Potable Water

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
5260	Xylene (total)	EPA 8260C	10307003	Volatile Organics	2/10/2023
5260	Xylene (total)	EPA 8260D	10307127	Volatile Organics	2/10/2023
1190	Zinc	EPA 200.7	10013806	Metals	4/4/2002
1190	Zinc	EPA 200.8	10014605	Metals	12/8/2006
1190	Zinc	EPA 6010C	10155905	Metals	2/10/2023
1190	Zinc	EPA 6010D	10155950	Metals	2/10/2023
1190	Zinc	EPA 6020A	10156419	Metals	2/10/2023
1190	Zinc	EPA 6020B	10156420	Metals	2/10/2023



Laboratory Scope of Accreditation

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State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
5105	1,1,1,2-Tetrachloroethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
5105	1,1,1,2-Tetrachloroethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
5160	1,1,1-Trichloroethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
5160	1,1,1-Trichloroethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
5110	1,1,2,2-Tetrachloroethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
5110	1,1,2,2-Tetrachloroethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
5185	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260C	10307003	Volatile Organics	2/10/2023
5185	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	EPA 8260D	10307127	Volatile Organics	2/10/2023
5165	1,1,2-Trichloroethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
5165	1,1,2-Trichloroethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
4630	1,1-Dichloroethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4630	1,1-Dichloroethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
4640	1,1-Dichloroethylene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4640	1,1-Dichloroethylene	EPA 8260D	10307127	Volatile Organics	2/10/2023
4670	1,1-Dichloropropene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4670	1,1-Dichloropropene	EPA 8260D	10307127	Volatile Organics	2/10/2023
5150	1,2,3-Trichlorobenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
5150	1,2,3-Trichlorobenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
5180	1,2,3-Trichloropropane	EPA 8260C	10307003	Volatile Organics	2/10/2023
5180	1,2,3-Trichloropropane	EPA 8260D	10307127	Volatile Organics	2/10/2023
6715	1,2,4,5-Tetrachlorobenzene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6715	1,2,4,5-Tetrachlorobenzene	EPA 8270E	10242543	Extractable Organics	2/10/2023
5155	1,2,4-Trichlorobenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
5155	1,2,4-Trichlorobenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
5155	1,2,4-Trichlorobenzene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5155	1,2,4-Trichlorobenzene	EPA 8270E	10242543	Extractable Organics	2/10/2023
5210	1,2,4-Trimethylbenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
5210	1,2,4-Trimethylbenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
4570	1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4570	1,2-Dibromo-3-chloropropane (DBCP)	EPA 8260D	10307127	Volatile Organics	2/10/2023
4585	1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4585	1,2-Dibromoethane (EDB, Ethylene dibromide)	EPA 8260D	10307127	Volatile Organics	2/10/2023
4610	1,2-Dichlorobenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4610	1,2-Dichlorobenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type: NELAP
Issue Date: 7/1/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
4610	1,2-Dichlorobenzene	EPA 8270D	10186035	Extractable Organics	2/10/2023
4610	1,2-Dichlorobenzene	EPA 8270E	10242543	Extractable Organics	2/10/2023
4635	1,2-Dichloroethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4635	1,2-Dichloroethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
4655	1,2-Dichloropropane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4655	1,2-Dichloropropane	EPA 8260D	10307127	Volatile Organics	2/10/2023
6220	1,2-Diphenylhydrazine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6220	1,2-Diphenylhydrazine	EPA 8270E	10242543	Extractable Organics	2/10/2023
5215	1,3,5-Trimethylbenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
5215	1,3,5-Trimethylbenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
6885	1,3,5-Trinitrobenzene (1,3,5-TNB)	EPA 8270D	10186035	Extractable Organics	2/10/2023
6885	1,3,5-Trinitrobenzene (1,3,5-TNB)	EPA 8270E	10242543	Extractable Organics	2/10/2023
6885	1,3,5-Trinitrobenzene (1,3,5-TNB)	EPA 8330A	10190008	Extractable Organics	2/10/2023
6885	1,3,5-Trinitrobenzene (1,3,5-TNB)	EPA 8330B	10308006	Extractable Organics	2/10/2023
4615	1,3-Dichlorobenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4615	1,3-Dichlorobenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
4615	1,3-Dichlorobenzene	EPA 8270D	10186035	Extractable Organics	2/10/2023
4615	1,3-Dichlorobenzene	EPA 8270E	10242543	Extractable Organics	2/10/2023
4660	1,3-Dichloropropane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4660	1,3-Dichloropropane	EPA 8260D	10307127	Volatile Organics	2/10/2023
6160	1,3-Dinitrobenzene (1,3-DNB)	EPA 8270D	10186035	Extractable Organics	2/10/2023
6160	1,3-Dinitrobenzene (1,3-DNB)	EPA 8270E	10242543	Extractable Organics	2/10/2023
6160	1,3-Dinitrobenzene (1,3-DNB)	EPA 8330A	10190008	Extractable Organics	2/10/2023
6160	1,3-Dinitrobenzene (1,3-DNB)	EPA 8330B	10308006	Extractable Organics	2/10/2023
4620	1,4-Dichlorobenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4620	1,4-Dichlorobenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
4620	1,4-Dichlorobenzene	EPA 8270D	10186035	Extractable Organics	2/10/2023
4620	1,4-Dichlorobenzene	EPA 8270E	10242543	Extractable Organics	2/10/2023
4735	1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4735	1,4-Dioxane (1,4-Diethyleneoxide)	EPA 8260D	10307127	Volatile Organics	2/10/2023
6420	1,4-Naphthoquinone	EPA 8270D	10186035	Extractable Organics	2/10/2023
6420	1,4-Naphthoquinone	EPA 8270E	10242543	Extractable Organics	2/10/2023
6630	1,4-Phenylenediamine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6630	1,4-Phenylenediamine	EPA 8270E	10242543	Extractable Organics	2/10/2023
9490	11-Chloroeicosafluoro-3-oxaundecane-1-sulfo nic Acid (11-CIPF30UdS)	EPA 1633	10123463	Extractable Organics	1/31/2024
5790	1-Chloronaphthalene	EPA 8270D	10186035	Extractable Organics	2/10/2023

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type: NELAP
Issue Date: 7/1/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
5790	1-Chloronaphthalene	EPA 8270E	10242543	Extractable Organics	2/10/2023
6948	1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2 FTS)	EPA 1633	10123463	Extractable Organics	1/31/2024
6946	1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	EPA 1633	10123463	Extractable Organics	1/31/2024
6947	1H,1H,2H,2H-Perfluoro-octanesulfonic Acid (6:2 FTS)	EPA 1633	10123463	Extractable Organics	1/31/2024
6380	1-Methylnaphthalene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6380	1-Methylnaphthalene	EPA 8270E	10242543	Extractable Organics	2/10/2023
6425	1-Naphthylamine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6425	1-Naphthylamine	EPA 8270E	10242543	Extractable Organics	2/10/2023
4665	2,2-Dichloropropane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4665	2,2-Dichloropropane	EPA 8260D	10307127	Volatile Organics	2/10/2023
4659	2,2'-Oxybis(1-chloropropane),bis(2-Chloro-1-methylethyl)ether (fka bis(2-Chloroisopropyl) ether)	EPA 8270D	10186035	Extractable Organics	2/10/2023
4659	2,2'-Oxybis(1-chloropropane),bis(2-Chloro-1-methylethyl)ether (fka bis(2-Chloroisopropyl) ether)	EPA 8270E	10242543	Extractable Organics	2/10/2023
6735	2,3,4,6-Tetrachlorophenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
6735	2,3,4,6-Tetrachlorophenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
8655	2,4,5-T	EPA 8151A	10183207	Pesticides-Herbicides-PCB's	2/10/2023
6835	2,4,5-Trichlorophenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
6835	2,4,5-Trichlorophenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
6840	2,4,6-Trichlorophenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
6840	2,4,6-Trichlorophenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
9651	2,4,6-Trinitrotoluene (2,4,6-TNT)	EPA 8330A	10190008	Extractable Organics	2/10/2023
9651	2,4,6-Trinitrotoluene (2,4,6-TNT)	EPA 8330B	10308006	Extractable Organics	2/10/2023
8545	2,4-D	EPA 8151A	10183207	Pesticides-Herbicides-PCB's	2/10/2023
8560	2,4-DB	EPA 8151A	10183207	Pesticides-Herbicides-PCB's	2/10/2023
6000	2,4-Dichlorophenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
6000	2,4-Dichlorophenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
6130	2,4-Dimethylphenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
6130	2,4-Dimethylphenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
6175	2,4-Dinitrophenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
6175	2,4-Dinitrophenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
6185	2,4-Dinitrotoluene (2,4-DNT)	EPA 8270D	10186035	Extractable Organics	2/10/2023
6185	2,4-Dinitrotoluene (2,4-DNT)	EPA 8270E	10242543	Extractable Organics	2/10/2023
6185	2,4-Dinitrotoluene (2,4-DNT)	EPA 8330A	10190008	Extractable Organics	2/10/2023
6185	2,4-Dinitrotoluene (2,4-DNT)	EPA 8330B	10308006	Extractable Organics	2/10/2023

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type: NELAP
Issue Date: 7/1/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway

Jacksonville, FL 32216

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
6005	2,6-Dichlorophenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
6005	2,6-Dichlorophenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
6190	2,6-Dinitrotoluene (2,6-DNT)	EPA 8270D	10186035	Extractable Organics	2/10/2023
6190	2,6-Dinitrotoluene (2,6-DNT)	EPA 8270E	10242543	Extractable Organics	2/10/2023
6190	2,6-Dinitrotoluene (2,6-DNT)	EPA 8330A	10190008	Extractable Organics	2/10/2023
6190	2,6-Dinitrotoluene (2,6-DNT)	EPA 8330B	10308006	Extractable Organics	2/10/2023
5515	2-Acetylaminofluorene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5515	2-Acetylaminofluorene	EPA 8270E	10242543	Extractable Organics	2/10/2023
9303	2-Amino-4,6-dinitrotoluene (2-am-dnt)	EPA 8330A	10190008	Extractable Organics	2/10/2023
9303	2-Amino-4,6-dinitrotoluene (2-am-dnt)	EPA 8330B	10308006	Extractable Organics	2/10/2023
4410	2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4410	2-Butanone (Methyl ethyl ketone, MEK)	EPA 8260D	10307127	Volatile Organics	2/10/2023
4500	2-Chloroethyl vinyl ether	EPA 8260C	10307003	Volatile Organics	2/10/2023
4500	2-Chloroethyl vinyl ether	EPA 8260D	10307127	Volatile Organics	2/10/2023
5795	2-Chloronaphthalene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5795	2-Chloronaphthalene	EPA 8270E	10242543	Extractable Organics	2/10/2023
5800	2-Chlorophenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
5800	2-Chlorophenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
4535	2-Chlorotoluene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4535	2-Chlorotoluene	EPA 8260D	10307127	Volatile Organics	2/10/2023
5866	2-Ethoxyethanol (Ethyl Cellusolve)	EPA 8015C	10173816	Volatile Organics	2/10/2023
9340	2H,2H,3H,3H-Perfluorodecanoic Acid (7:3 FTCA)	EPA 1633	10123463	Extractable Organics	1/31/2024
9338	2H,2H,3H,3H-Perfluorooctanoic Acid (5:3 FTCA)	EPA 1633	10123463	Extractable Organics	1/31/2024
4860	2-Hexanone	EPA 8260C	10307003	Volatile Organics	2/10/2023
4860	2-Hexanone	EPA 8260D	10307127	Volatile Organics	2/10/2023
6360	2-Methyl-4,6-dinitrophenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
6360	2-Methyl-4,6-dinitrophenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
6385	2-Methylnaphthalene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6385	2-Methylnaphthalene	EPA 8270E	10242543	Extractable Organics	2/10/2023
6400	2-Methylphenol (o-Cresol)	EPA 8270D	10186035	Extractable Organics	2/10/2023
6400	2-Methylphenol (o-Cresol)	EPA 8270E	10242543	Extractable Organics	2/10/2023
6430	2-Naphthylamine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6430	2-Naphthylamine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6460	2-Nitroaniline	EPA 8270D	10186035	Extractable Organics	2/10/2023
6460	2-Nitroaniline	EPA 8270E	10242543	Extractable Organics	2/10/2023

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type: NELAP
Issue Date: 7/1/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
6490	2-Nitrophenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
6490	2-Nitrophenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
5020	2-Nitropropane	EPA 8260C	10307003	Volatile Organics	2/10/2023
5020	2-Nitropropane	EPA 8260D	10307127	Volatile Organics	2/10/2023
9507	2-Nitrotoluene	EPA 8330A	10190008	Extractable Organics	2/10/2023
9507	2-Nitrotoluene	EPA 8330B	10308006	Extractable Organics	2/10/2023
5050	2-Picoline (2-Methylpyridine)	EPA 8270D	10186035	Extractable Organics	2/10/2023
5050	2-Picoline (2-Methylpyridine)	EPA 8270E	10242543	Extractable Organics	2/10/2023
5945	3,3'-Dichlorobenzidine	EPA 8270D	10186035	Extractable Organics	2/10/2023
5945	3,3'-Dichlorobenzidine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6100	3,3'-Dimethoxybenzidine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6100	3,3'-Dimethoxybenzidine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6120	3,3'-Dimethylbenzidine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6120	3,3'-Dimethylbenzidine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6150	3,5-Dinitroaniline	EPA 8330B	10308006	Extractable Organics	2/10/2023
6412	3/4-Methylphenols (m/p-Cresols)	EPA 8270D	10186035	Extractable Organics	2/10/2023
6412	3/4-Methylphenols (m/p-Cresols)	EPA 8270E	10242543	Extractable Organics	2/10/2023
6355	3-Methylcholanthrene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6355	3-Methylcholanthrene	EPA 8270E	10242543	Extractable Organics	2/10/2023
6465	3-Nitroaniline	EPA 8270D	10186035	Extractable Organics	2/10/2023
6465	3-Nitroaniline	EPA 8270E	10242543	Extractable Organics	2/10/2023
9510	3-Nitrotoluene	EPA 8330A	10190008	Extractable Organics	2/10/2023
9510	3-Nitrotoluene	EPA 8330B	10308006	Extractable Organics	2/10/2023
9353	4,4,5,5,6,6,6-Heptafluorohexanoic Acid (3:3 FTCA)	EPA 1633	10123463	Extractable Organics	1/31/2024
7355	4,4'-DDD	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
7360	4,4'-DDE	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
7365	4,4'-DDT	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
6951	4,8-Dioxa-3H-perfluorononanoic Acid (ADONA)	EPA 1633	10123463	Extractable Organics	1/31/2024
9306	4-Amino-2,6-dinitrotoluene (4-am-dnt)	EPA 8330A	10190008	Extractable Organics	2/10/2023
9306	4-Amino-2,6-dinitrotoluene (4-am-dnt)	EPA 8330B	10308006	Extractable Organics	2/10/2023
5540	4-Aminobiphenyl	EPA 8270D	10186035	Extractable Organics	2/10/2023
5540	4-Aminobiphenyl	EPA 8270E	10242543	Extractable Organics	2/10/2023
5660	4-Bromophenyl phenyl ether	EPA 8270D	10186035	Extractable Organics	2/10/2023
5660	4-Bromophenyl phenyl ether	EPA 8270E	10242543	Extractable Organics	2/10/2023
5700	4-Chloro-3-methylphenol	EPA 8270D	10186035	Extractable Organics	2/10/2023

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type: NELAP
Issue Date: 7/1/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
5700	4-Chloro-3-methylphenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
5745	4-Chloroaniline	EPA 8270D	10186035	Extractable Organics	2/10/2023
5745	4-Chloroaniline	EPA 8270E	10242543	Extractable Organics	2/10/2023
5825	4-Chlorophenyl phenylether	EPA 8270D	10186035	Extractable Organics	2/10/2023
5825	4-Chlorophenyl phenylether	EPA 8270E	10242543	Extractable Organics	2/10/2023
4540	4-Chlorotoluene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4540	4-Chlorotoluene	EPA 8260D	10307127	Volatile Organics	2/10/2023
6105	4-Dimethyl aminoazobenzene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6105	4-Dimethyl aminoazobenzene	EPA 8270E	10242543	Extractable Organics	2/10/2023
4995	4-Methyl-2-pentanone (MIBK)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4995	4-Methyl-2-pentanone (MIBK)	EPA 8260D	10307127	Volatile Organics	2/10/2023
6470	4-Nitroaniline	EPA 8270D	10186035	Extractable Organics	2/10/2023
6470	4-Nitroaniline	EPA 8270E	10242543	Extractable Organics	2/10/2023
6500	4-Nitrophenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
6500	4-Nitrophenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
6510	4-Nitroquinoline 1-oxide	EPA 8270D	10186035	Extractable Organics	2/10/2023
6510	4-Nitroquinoline 1-oxide	EPA 8270E	10242543	Extractable Organics	2/10/2023
9513	4-Nitrotoluene	EPA 8330A	10190008	Extractable Organics	2/10/2023
9513	4-Nitrotoluene	EPA 8330B	10308006	Extractable Organics	2/10/2023
6570	5-Nitro-o-toluidine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6570	5-Nitro-o-toluidine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6115	7,12-Dimethylbenz(a) anthracene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6115	7,12-Dimethylbenz(a) anthracene	EPA 8270E	10242543	Extractable Organics	2/10/2023
6952	9-Chlorohexadecafluoro-3-oxanonane-1-sulfo nic Acid (9-CIPF3ONS)	EPA 1633	10123463	Extractable Organics	1/31/2024
6125	a,a-Dimethylphenethylamine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6125	a,a-Dimethylphenethylamine	EPA 8270E	10242543	Extractable Organics	2/10/2023
5500	Acenaphthene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5500	Acenaphthene	EPA 8270E	10242543	Extractable Organics	2/10/2023
5505	Acenaphthylene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5505	Acenaphthylene	EPA 8270E	10242543	Extractable Organics	2/10/2023
4315	Acetone	EPA 8260C	10307003	Volatile Organics	2/10/2023
4315	Acetone	EPA 8260D	10307127	Volatile Organics	2/10/2023
4320	Acetonitrile	EPA 8260C	10307003	Volatile Organics	2/10/2023
4320	Acetonitrile	EPA 8260D	10307127	Volatile Organics	2/10/2023
5510	Acetophenone	EPA 8270D	10186035	Extractable Organics	2/10/2023
5510	Acetophenone	EPA 8270E	10242543	Extractable Organics	2/10/2023

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Certification Type: NELAP
Issue Date: 7/1/2025 **Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
4325	Acrolein (Propenal)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4325	Acrolein (Propenal)	EPA 8260D	10307127	Volatile Organics	2/10/2023
4340	Acrylonitrile	EPA 8260C	10307003	Volatile Organics	2/10/2023
4340	Acrylonitrile	EPA 8260D	10307127	Volatile Organics	2/10/2023
7025	Aldrin	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
4355	Allyl chloride (3-Chloropropene)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4355	Allyl chloride (3-Chloropropene)	EPA 8260D	10307127	Volatile Organics	2/10/2023
7110	alpha-BHC (alpha-Hexachlorocyclohexane)	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
7240	alpha-Chlordane	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
1000	Aluminum	EPA 6010C	10155905	Metals	2/10/2023
1000	Aluminum	EPA 6010D	10155950	Metals	2/10/2023
7035	Ametryn	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
7035	Ametryn	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
5545	Aniline	EPA 8270D	10186035	Extractable Organics	2/10/2023
5545	Aniline	EPA 8270E	10242543	Extractable Organics	2/10/2023
5555	Anthracene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5555	Anthracene	EPA 8270E	10242543	Extractable Organics	2/10/2023
1005	Antimony	EPA 6010C	10155905	Metals	2/10/2023
1005	Antimony	EPA 6010D	10155950	Metals	2/10/2023
1005	Antimony	EPA 6020A	10156419	Metals	2/10/2023
1005	Antimony	EPA 6020B	10156420	Metals	2/10/2023
5560	Aramite	EPA 8270D	10186035	Extractable Organics	2/10/2023
5560	Aramite	EPA 8270E	10242543	Extractable Organics	2/10/2023
8880	Aroclor-1016 (PCB-1016)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	2/10/2023
8885	Aroclor-1221 (PCB-1221)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	2/10/2023
8890	Aroclor-1232 (PCB-1232)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	2/10/2023
8895	Aroclor-1242 (PCB-1242)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	2/10/2023
8900	Aroclor-1248 (PCB-1248)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	2/10/2023
8905	Aroclor-1254 (PCB-1254)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	2/10/2023
8910	Aroclor-1260 (PCB-1260)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	2/10/2023
8912	Aroclor-1262 (PCB-1262)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	2/10/2023
8913	Aroclor-1268 (PCB-1268)	EPA 8082A	10179358	Pesticides-Herbicides-PCB's	2/10/2023
1010	Arsenic	EPA 6010C	10155905	Metals	2/10/2023
1010	Arsenic	EPA 6010D	10155950	Metals	2/10/2023
1010	Arsenic	EPA 6020A	10156419	Metals	2/10/2023
1010	Arsenic	EPA 6020B	10156420	Metals	2/10/2023

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type: NELAP
Issue Date: 7/1/2025 **Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
7065	Atrazine	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
7065	Atrazine	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
7065	Atrazine	EPA 8270E	10242543	Extractable Organics	2/10/2023
7075	Azinphos-methyl (Guthion)	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
1015	Barium	EPA 6010C	10155905	Metals	2/10/2023
1015	Barium	EPA 6010D	10155950	Metals	2/10/2023
1015	Barium	EPA 6020A	10156419	Metals	2/10/2023
1015	Barium	EPA 6020B	10156420	Metals	2/10/2023
5570	Benzaldehyde	EPA 8270D	10186035	Extractable Organics	2/10/2023
5570	Benzaldehyde	EPA 8270E	10242543	Extractable Organics	2/10/2023
4375	Benzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4375	Benzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
5595	Benzidine	EPA 8270D	10186035	Extractable Organics	2/10/2023
5595	Benzidine	EPA 8270E	10242543	Extractable Organics	2/10/2023
5575	Benzo(a)anthracene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5575	Benzo(a)anthracene	EPA 8270E	10242543	Extractable Organics	2/10/2023
5580	Benzo(a)pyrene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5580	Benzo(a)pyrene	EPA 8270E	10242543	Extractable Organics	2/10/2023
5585	Benzo(b)fluoranthene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5585	Benzo(b)fluoranthene	EPA 8270E	10242543	Extractable Organics	2/10/2023
5590	Benzo(g,h,i)perylene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5590	Benzo(g,h,i)perylene	EPA 8270E	10242543	Extractable Organics	2/10/2023
5600	Benzo(k)fluoranthene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5600	Benzo(k)fluoranthene	EPA 8270E	10242543	Extractable Organics	2/10/2023
5610	Benzoic acid	EPA 8270D	10186035	Extractable Organics	2/10/2023
5610	Benzoic acid	EPA 8270E	10242543	Extractable Organics	2/10/2023
5630	Benzyl alcohol	EPA 8270D	10186035	Extractable Organics	2/10/2023
5630	Benzyl alcohol	EPA 8270E	10242543	Extractable Organics	2/10/2023
1020	Beryllium	EPA 6010C	10155905	Metals	2/10/2023
1020	Beryllium	EPA 6010D	10155950	Metals	2/10/2023
1020	Beryllium	EPA 6020A	10156419	Metals	2/10/2023
1020	Beryllium	EPA 6020B	10156420	Metals	2/10/2023
7115	beta-BHC (beta-Hexachlorocyclohexane)	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
6703	Biphenyl (1,1-Biphenyl, BZ 0)	EPA 8270D	10186035	Extractable Organics	2/10/2023
6703	Biphenyl (1,1-Biphenyl, BZ 0)	EPA 8270E	10242543	Extractable Organics	2/10/2023
5760	bis(2-Chloroethoxy)methane	EPA 8270D	10186035	Extractable Organics	2/10/2023

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Certification Type: NELAP
Issue Date: 7/1/2025 **Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
5760	bis(2-Chloroethoxy)methane	EPA 8270E	10242543	Extractable Organics	2/10/2023
5765	bis(2-Chloroethyl) ether	EPA 8270D	10186035	Extractable Organics	2/10/2023
5765	bis(2-Chloroethyl) ether	EPA 8270E	10242543	Extractable Organics	2/10/2023
1025	Boron	EPA 6010C	10155905	Metals	2/10/2023
1025	Boron	EPA 6010D	10155950	Metals	2/10/2023
1540	Bromide	EPA 9056A	10199607	General Chemistry	2/10/2023
4385	Bromobenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4385	Bromobenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
4390	Bromochloromethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4390	Bromochloromethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
4395	Bromodichloromethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4395	Bromodichloromethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
4400	Bromoform	EPA 8260C	10307003	Volatile Organics	2/10/2023
4400	Bromoform	EPA 8260D	10307127	Volatile Organics	2/10/2023
5670	Butyl benzyl phthalate	EPA 8270D	10186035	Extractable Organics	2/10/2023
5670	Butyl benzyl phthalate	EPA 8270E	10242543	Extractable Organics	2/10/2023
1030	Cadmium	EPA 6010C	10155905	Metals	2/10/2023
1030	Cadmium	EPA 6010D	10155950	Metals	2/10/2023
1030	Cadmium	EPA 6020A	10156419	Metals	2/10/2023
1030	Cadmium	EPA 6020B	10156420	Metals	2/10/2023
1035	Calcium	EPA 6010C	10155905	Metals	2/10/2023
1035	Calcium	EPA 6010D	10155950	Metals	2/10/2023
7180	Caprolactam	EPA 8270D	10186035	Extractable Organics	2/10/2023
7180	Caprolactam	EPA 8270E	10242543	Extractable Organics	2/10/2023
5680	Carbazole	EPA 8270D	10186035	Extractable Organics	2/10/2023
5680	Carbazole	EPA 8270E	10242543	Extractable Organics	2/10/2023
4450	Carbon disulfide	EPA 8260C	10307003	Volatile Organics	2/10/2023
4450	Carbon disulfide	EPA 8260D	10307127	Volatile Organics	2/10/2023
4455	Carbon tetrachloride	EPA 8260C	10307003	Volatile Organics	2/10/2023
4455	Carbon tetrachloride	EPA 8260D	10307127	Volatile Organics	2/10/2023
7250	Chlordane (tech.)	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
1575	Chloride	EPA 300.0	10053200	General Chemistry	7/12/2019
1575	Chloride	EPA 9056A	10199607	General Chemistry	2/10/2023
4475	Chlorobenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4475	Chlorobenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
7260	Chlorobenzilate	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023

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Certification Type: NELAP
Issue Date: 7/1/2025 **Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

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State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
7260	Chlorobenzilate	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
4485	Chloroethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4485	Chloroethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
4505	Chloroform	EPA 8260C	10307003	Volatile Organics	2/10/2023
4505	Chloroform	EPA 8260D	10307127	Volatile Organics	2/10/2023
4525	Chloroprene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4525	Chloroprene	EPA 8260D	10307127	Volatile Organics	2/10/2023
7300	Chlorpyrifos	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
7305	Chlorpyrifos methyl	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
1040	Chromium	EPA 6010C	10155905	Metals	2/10/2023
1040	Chromium	EPA 6010D	10155950	Metals	2/10/2023
1040	Chromium	EPA 6020A	10156419	Metals	2/10/2023
1040	Chromium	EPA 6020B	10156420	Metals	2/10/2023
5855	Chrysene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5855	Chrysene	EPA 8270E	10242543	Extractable Organics	2/10/2023
4645	cis-1,2-Dichloroethylene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4645	cis-1,2-Dichloroethylene	EPA 8260D	10307127	Volatile Organics	2/10/2023
4680	cis-1,3-Dichloropropene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4680	cis-1,3-Dichloropropene	EPA 8260D	10307127	Volatile Organics	2/10/2023
4600	cis-1,4-Dichloro-2-butene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4600	cis-1,4-Dichloro-2-butene	EPA 8260D	10307127	Volatile Organics	2/10/2023
1050	Cobalt	EPA 6010C	10155905	Metals	2/10/2023
1050	Cobalt	EPA 6010D	10155950	Metals	2/10/2023
1050	Cobalt	EPA 6020A	10156419	Metals	2/10/2023
1050	Cobalt	EPA 6020B	10156420	Metals	2/10/2023
1610	Conductivity	EPA 9050A	10198808	General Chemistry	2/10/2023
1055	Copper	EPA 6010C	10155905	Metals	2/10/2023
1055	Copper	EPA 6010D	10155950	Metals	2/10/2023
1055	Copper	EPA 6020A	10156419	Metals	2/10/2023
1055	Copper	EPA 6020B	10156420	Metals	2/10/2023
1625	Corrosivity (pH)	EPA 9040C	10244403	General Chemistry	2/10/2023
4555	Cyclohexane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4555	Cyclohexane	EPA 8260D	10307127	Volatile Organics	2/10/2023
4560	Cyclohexanone	EPA 8260D	10307127	Volatile Organics	2/10/2023
8555	Dalapon	EPA 8151A	10183207	Pesticides-Herbicides-PCB's	2/10/2023
7105	delta-BHC	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023

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Certification Type: NELAP
Issue Date: 7/1/2025 **Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway

Jacksonville, FL 32216

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
7390	Demeton	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
7395	Demeton-o	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
7385	Demeton-s	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
6065	Di(2-ethylhexyl) phthalate (DEHP)	EPA 8270D	10186035	Extractable Organics	2/10/2023
6065	Di(2-ethylhexyl) phthalate (DEHP)	EPA 8270E	10242543	Extractable Organics	2/10/2023
7405	Diallate	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
7405	Diallate	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
7410	Diazinon	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
5895	Dibenz(a,h)anthracene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5895	Dibenz(a,h)anthracene	EPA 8270E	10242543	Extractable Organics	2/10/2023
5900	Dibenz(a,j)acridine	EPA 8270D	10186035	Extractable Organics	2/10/2023
5900	Dibenz(a,j)acridine	EPA 8270E	10242543	Extractable Organics	2/10/2023
5905	Dibenzofuran	EPA 8270D	10186035	Extractable Organics	2/10/2023
5905	Dibenzofuran	EPA 8270E	10242543	Extractable Organics	2/10/2023
4575	Dibromochloromethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4575	Dibromochloromethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
4595	Dibromomethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4595	Dibromomethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
8595	Dicamba	EPA 8151A	10183207	Pesticides-Herbicides-PCB's	2/10/2023
4625	Dichlorodifluoromethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4625	Dichlorodifluoromethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
8605	Dichloroprop (Dichlorprop)	EPA 8151A	10183207	Pesticides-Herbicides-PCB's	2/10/2023
7470	Dieldrin	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
9369	Diesel range organics (DRO)	EPA 8015C	10173816	Extractable Organics	2/10/2023
9369	Diesel range organics (DRO)	MADEP-EPH (MA-EPH) 90017202		Extractable Organics	5/4/2015
4725	Diethyl ether	EPA 8260C	10307003	Volatile Organics	2/10/2023
4725	Diethyl ether	EPA 8260D	10307127	Volatile Organics	2/10/2023
6070	Diethyl phthalate	EPA 8270D	10186035	Extractable Organics	2/10/2023
6070	Diethyl phthalate	EPA 8270E	10242543	Extractable Organics	2/10/2023
9375	Di-isopropylether (DIPE)	EPA 8260C	10307003	Volatile Organics	2/10/2023
9375	Di-isopropylether (DIPE)	EPA 8260D	10307127	Volatile Organics	2/10/2023
7475	Dimethoate	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
7475	Dimethoate	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
7475	Dimethoate	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
6135	Dimethyl phthalate	EPA 8270D	10186035	Extractable Organics	2/10/2023
6135	Dimethyl phthalate	EPA 8270E	10242543	Extractable Organics	2/10/2023

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type: NELAP
Issue Date: 7/1/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
5925	Di-n-butyl phthalate	EPA 8270D	10186035	Extractable Organics	2/10/2023
5925	Di-n-butyl phthalate	EPA 8270E	10242543	Extractable Organics	2/10/2023
6200	Di-n-octyl phthalate	EPA 8270D	10186035	Extractable Organics	2/10/2023
6200	Di-n-octyl phthalate	EPA 8270E	10242543	Extractable Organics	2/10/2023
8620	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8151A	10183207	Pesticides-Herbicides-PCB's	2/10/2023
8620	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
8620	Dinoseb (2-sec-butyl-4,6-dinitrophenol, DNBP)	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
6205	Diphenylamine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6205	Diphenylamine	EPA 8270E	10242543	Extractable Organics	2/10/2023
8625	Disulfoton	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
8625	Disulfoton	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
8625	Disulfoton	EPA 8270E	10242543	Extractable Organics	2/10/2023
7510	Endosulfan I	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
7515	Endosulfan II	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
7520	Endosulfan sulfate	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
7540	Endrin	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
7530	Endrin aldehyde	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
7535	Endrin ketone	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
6218	EPH Aliphatic C19-C36	MADEP-EPH (MA-EPH) 90017202		Extractable Organics	6/19/2020
6222	EPH Aliphatic C9-C18	MADEP-EPH (MA-EPH) 90017202		Extractable Organics	6/19/2020
6232	EPH Aromatic C11-C22	MADEP-EPH (MA-EPH) 90017202		Extractable Organics	6/19/2020
4750	Ethanol	EPA 8015C	10173816	Volatile Organics	2/10/2023
4750	Ethanol	EPA 8260C	10307003	Volatile Organics	2/10/2023
4750	Ethanol	EPA 8260D	10307127	Volatile Organics	2/10/2023
7565	Ethion	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
7570	Ethoprop	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
4755	Ethyl acetate	EPA 8260C	10307003	Volatile Organics	2/10/2023
4755	Ethyl acetate	EPA 8260D	10307127	Volatile Organics	2/10/2023
4810	Ethyl methacrylate	EPA 8260C	10307003	Volatile Organics	2/10/2023
4810	Ethyl methacrylate	EPA 8260D	10307127	Volatile Organics	2/10/2023
6260	Ethyl methanesulfonate	EPA 8270D	10186035	Extractable Organics	2/10/2023
6260	Ethyl methanesulfonate	EPA 8270E	10242543	Extractable Organics	2/10/2023
4765	Ethylbenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4765	Ethylbenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
4785	Ethylene glycol	EPA 8015C	10173816	Volatile Organics	2/10/2023

Clients and Customers are urged to verify the laboratory's current certification status with the Environmental Laboratory Certification Program.

Certification Type: NELAP
Issue Date: 7/1/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574 EPA Lab Code: FL00949 (904) 363-9350

**E82574
Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
4770	Ethyl-t-butylether (ETBE)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4770	Ethyl-t-butylether (ETBE)	EPA 8260D	10307127	Volatile Organics	2/10/2023
1720	Extractable organic halides (EOX)	EPA 9023	10195003	General Chemistry	7/1/2018
7580	Famphur	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
7580	Famphur	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
7580	Famphur	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
2530	Fecal coliforms	SM 9222 D	20209238	Microbiology	5/10/2011
7600	Fensulfothion	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
6265	Fluoranthene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6265	Fluoranthene	EPA 8270E	10242543	Extractable Organics	2/10/2023
6270	Fluorene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6270	Fluorene	EPA 8270E	10242543	Extractable Organics	2/10/2023
1730	Fluoride	EPA 300.0	10053200	General Chemistry	7/12/2019
1730	Fluoride	EPA 9056A	10199607	General Chemistry	2/10/2023
7640	Fonophos	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
7120	gamma-BHC (Lindane, gamma-Hexachlorocyclohexane)	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
7245	gamma-Chlordane	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
9408	Gasoline range organics (GRO)	EPA 8015C	10173816	Volatile Organics	2/10/2023
9408	Gasoline range organics (GRO)	MADEP-VPH (MA-VPH)90017406		Volatile Organics	5/4/2015
7685	Heptachlor	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
7690	Heptachlor epoxide	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
6275	Hexachlorobenzene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6275	Hexachlorobenzene	EPA 8270E	10242543	Extractable Organics	2/10/2023
4835	Hexachlorobutadiene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4835	Hexachlorobutadiene	EPA 8260D	10307127	Volatile Organics	2/10/2023
4835	Hexachlorobutadiene	EPA 8270D	10186035	Extractable Organics	2/10/2023
4835	Hexachlorobutadiene	EPA 8270E	10242543	Extractable Organics	2/10/2023
6285	Hexachlorocyclopentadiene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6285	Hexachlorocyclopentadiene	EPA 8270E	10242543	Extractable Organics	2/10/2023
4840	Hexachloroethane	EPA 8270D	10186035	Extractable Organics	2/10/2023
4840	Hexachloroethane	EPA 8270E	10242543	Extractable Organics	2/10/2023
6295	Hexachloropropene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6295	Hexachloropropene	EPA 8270E	10242543	Extractable Organics	2/10/2023
9460	Hexafluoropropylene Oxide Dimer Acid (HFPO-DA, GenX)	EPA 1633	10123463	Extractable Organics	1/31/2024
1780	Ignitability	EPA 1020	10116800	General Chemistry	6/6/2017

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Issue Date: 7/1/2025 **Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
1780	Ignitability	EPA 1030	10117201	General Chemistry	6/6/2017
6315	Indeno(1,2,3-cd)pyrene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6315	Indeno(1,2,3-cd)pyrene	EPA 8270E	10242543	Extractable Organics	2/10/2023
4870	Iodomethane (Methyl iodide)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4870	Iodomethane (Methyl iodide)	EPA 8260D	10307127	Volatile Organics	2/10/2023
1070	Iron	EPA 6010C	10155905	Metals	2/10/2023
1070	Iron	EPA 6010D	10155950	Metals	2/10/2023
4875	Isobutyl alcohol (2-Methyl-1-propanol)	EPA 8015C	10173816	Volatile Organics	2/10/2023
4875	Isobutyl alcohol (2-Methyl-1-propanol)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4875	Isobutyl alcohol (2-Methyl-1-propanol)	EPA 8260D	10307127	Volatile Organics	2/10/2023
7725	Isodrin	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
7725	Isodrin	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
6320	Isophorone	EPA 8270D	10186035	Extractable Organics	2/10/2023
6320	Isophorone	EPA 8270E	10242543	Extractable Organics	2/10/2023
4895	Isopropyl alcohol (2-Propanol)	EPA 8015C	10173816	Volatile Organics	2/10/2023
4895	Isopropyl alcohol (2-Propanol)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4895	Isopropyl alcohol (2-Propanol)	EPA 8260D	10307127	Volatile Organics	2/10/2023
4900	Isopropylbenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4900	Isopropylbenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
6325	Isosafrole	EPA 8270D	10186035	Extractable Organics	2/10/2023
6325	Isosafrole	EPA 8270E	10242543	Extractable Organics	2/10/2023
7740	Kepone	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
7740	Kepone	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
1075	Lead	EPA 6010C	10155905	Metals	2/10/2023
1075	Lead	EPA 6010D	10155950	Metals	2/10/2023
1075	Lead	EPA 6020A	10156419	Metals	2/10/2023
1075	Lead	EPA 6020B	10156420	Metals	2/10/2023
5240	m+p-Xylenes	EPA 8260C	10307003	Volatile Organics	2/10/2023
5240	m+p-Xylenes	EPA 8260D	10307127	Volatile Organics	2/10/2023
1085	Magnesium	EPA 6010C	10155905	Metals	2/10/2023
1085	Magnesium	EPA 6010D	10155950	Metals	2/10/2023
7770	Malathion	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
1090	Manganese	EPA 6010C	10155905	Metals	2/10/2023
1090	Manganese	EPA 6010D	10155950	Metals	2/10/2023
1090	Manganese	EPA 6020A	10156419	Metals	2/10/2023
1090	Manganese	EPA 6020B	10156420	Metals	2/10/2023

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Certification Type: NELAP
Issue Date: 7/1/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
7775	MCPA	EPA 8151A	10183207	Pesticides-Herbicides-PCB's	2/10/2023
7780	MCPPP	EPA 8151A	10183207	Pesticides-Herbicides-PCB's	2/10/2023
1095	Mercury	EPA 7471A	10166208	Metals	2/10/2023
1095	Mercury	EPA 7471B	10166457	Metals	2/10/2023
7785	Merphos	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
4925	Methacrylonitrile	EPA 8260C	10307003	Volatile Organics	2/10/2023
4925	Methacrylonitrile	EPA 8260D	10307127	Volatile Organics	2/10/2023
4930	Methanol	EPA 8015C	10173816	Volatile Organics	2/10/2023
6345	Methapyrilene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6345	Methapyrilene	EPA 8270E	10242543	Extractable Organics	2/10/2023
7810	Methoxychlor	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
4940	Methyl acetate	EPA 8260C	10307003	Volatile Organics	2/10/2023
4940	Methyl acetate	EPA 8260D	10307127	Volatile Organics	2/10/2023
4950	Methyl bromide (Bromomethane)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4950	Methyl bromide (Bromomethane)	EPA 8260D	10307127	Volatile Organics	2/10/2023
4960	Methyl chloride (Chloromethane)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4960	Methyl chloride (Chloromethane)	EPA 8260D	10307127	Volatile Organics	2/10/2023
4990	Methyl methacrylate	EPA 8260C	10307003	Volatile Organics	2/10/2023
4990	Methyl methacrylate	EPA 8260D	10307127	Volatile Organics	2/10/2023
6375	Methyl methanesulfonate	EPA 8270D	10186035	Extractable Organics	2/10/2023
6375	Methyl methanesulfonate	EPA 8270E	10242543	Extractable Organics	2/10/2023
7825	Methyl parathion (Parathion, methyl)	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
7825	Methyl parathion (Parathion, methyl)	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
7825	Methyl parathion (Parathion, methyl)	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
5000	Methyl tert-butyl ether (MTBE)	EPA 8260C	10307003	Volatile Organics	2/10/2023
5000	Methyl tert-butyl ether (MTBE)	EPA 8260D	10307127	Volatile Organics	2/10/2023
6415	Methyl-2,4,6-trinitrophenylnitramine (tetryl)	EPA 8330A	10190008	Extractable Organics	2/10/2023
6415	Methyl-2,4,6-trinitrophenylnitramine (tetryl)	EPA 8330B	10308006	Extractable Organics	2/10/2023
4965	Methylcyclohexane	EPA 8260C	10307003	Volatile Organics	2/10/2023
4965	Methylcyclohexane	EPA 8260D	10307127	Volatile Organics	2/10/2023
4975	Methylene chloride	EPA 8260C	10307003	Volatile Organics	2/10/2023
4975	Methylene chloride	EPA 8260D	10307127	Volatile Organics	2/10/2023
7850	Mevinphos	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
7870	Mirex	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
1100	Molybdenum	EPA 6010C	10155905	Metals	2/10/2023
1100	Molybdenum	EPA 6010D	10155950	Metals	2/10/2023

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Certification Type: NELAP
Issue Date: 7/1/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

Advanced Environmental Laboratories, Inc.

6681 Southpoint Parkway

Jacksonville, FL 32216

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
1100	Molybdenum	EPA 6020A	10156419	Metals	2/10/2023
1100	Molybdenum	EPA 6020B	10156420	Metals	2/10/2023
5005	Naphthalene	EPA 8260C	10307003	Volatile Organics	2/10/2023
5005	Naphthalene	EPA 8260D	10307127	Volatile Organics	2/10/2023
5005	Naphthalene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5005	Naphthalene	EPA 8270E	10242543	Extractable Organics	2/10/2023
4425	n-Butyl alcohol	EPA 8015C	10173816	Volatile Organics	2/10/2023
4435	n-Butylbenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4435	n-Butylbenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
9395	N-Ethylperfluorooctane sulfonamide (N-EtFOSA)	EPA 1633	10123463	Extractable Organics	1/31/2024
4846	N-Ethylperfluorooctane sulfonamido acetic acid (NEtFOSAA)	EPA 1633	10123463	Extractable Organics	1/31/2024
9431	N-ethylperfluorooctane sulfonamido ethanol (EtFOSE)	EPA 1633	10123463	Extractable Organics	1/31/2024
1105	Nickel	EPA 6010C	10155905	Metals	2/10/2023
1105	Nickel	EPA 6010D	10155950	Metals	2/10/2023
1105	Nickel	EPA 6020A	10156419	Metals	2/10/2023
1105	Nickel	EPA 6020B	10156420	Metals	2/10/2023
1805	Nitrate	EPA 9056A	10199607	General Chemistry	2/10/2023
1810	Nitrate as N	EPA 300.0	10053200	General Chemistry	7/12/2019
1835	Nitrite	EPA 9056A	10199607	General Chemistry	2/10/2023
1840	Nitrite as N	EPA 300.0	10053200	General Chemistry	7/12/2019
5015	Nitrobenzene	EPA 8270D	10186035	Extractable Organics	2/10/2023
5015	Nitrobenzene	EPA 8270E	10242543	Extractable Organics	2/10/2023
5015	Nitrobenzene	EPA 8330A	10190008	Extractable Organics	2/10/2023
5015	Nitrobenzene	EPA 8330B	10308006	Extractable Organics	2/10/2023
6485	Nitroglycerin	EPA 8330B	10308006	Extractable Organics	2/10/2023
6949	N-Methyl perfluoro-octane sulfonamido ethanol (N-MeFOSE)	EPA 1633	10123463	Extractable Organics	1/31/2024
9433	N-Methylperfluorooctane sulfonamide (MeFOSA)	EPA 1633	10123463	Extractable Organics	1/31/2024
4847	N-Methylperfluorooctane sulfonamido acetic acid (NMeFOSAA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6525	n-Nitrosodiethylamine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6525	n-Nitrosodiethylamine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6530	n-Nitrosodimethylamine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6530	n-Nitrosodimethylamine	EPA 8270E	10242543	Extractable Organics	2/10/2023
5025	n-Nitroso-di-n-butylamine	EPA 8270D	10186035	Extractable Organics	2/10/2023
5025	n-Nitroso-di-n-butylamine	EPA 8270E	10242543	Extractable Organics	2/10/2023

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Certification Type: NELAP
Issue Date: 7/1/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

Attachment to Certificate #: E82574-102, expiration date June 30, 2026. This listing of accredited analytes should be used only when associated with a valid certificate.

State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
6545	n-Nitrosodi-n-propylamine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6545	n-Nitrosodi-n-propylamine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6535	n-Nitrosodiphenylamine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6535	n-Nitrosodiphenylamine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6550	n-Nitrosomethylethylamine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6550	n-Nitrosomethylethylamine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6555	n-Nitrosomorpholine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6555	n-Nitrosomorpholine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6560	n-Nitrosopiperidine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6560	n-Nitrosopiperidine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6565	n-Nitrosopyrrolidine	EPA 8270D	10186035	Extractable Organics	2/10/2023
6565	n-Nitrosopyrrolidine	EPA 8270E	10242543	Extractable Organics	2/10/2023
6956	Nonafluoro-3,6-dioxiheptanoic Acid (NFDHA)	EPA 1633	10123463	Extractable Organics	1/31/2024
5055	n-Propanol (1-Propanol)	EPA 8015C	10173816	Volatile Organics	2/10/2023
5090	n-Propylbenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
5090	n-Propylbenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
8290	o,o,o-Triethyl phosphorothioate	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
8290	o,o,o-Triethyl phosphorothioate	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
9522	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocin e (HMX)	EPA 8330A	10190008	Extractable Organics	2/10/2023
9522	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocin e (HMX)	EPA 8330B	10308006	Extractable Organics	2/10/2023
6748	Oil Range Organics (ORO)	AEL SOP SVOC-040 / GC-FID	60001414	Extractable Organics	6/19/2020
1870	Orthophosphate as P	EPA 300.0	10053200	General Chemistry	7/12/2019
1870	Orthophosphate as P	EPA 9056A	10199607	General Chemistry	2/10/2023
5145	o-Toluidine	EPA 8270D	10186035	Extractable Organics	2/10/2023
5145	o-Toluidine	EPA 8270E	10242543	Extractable Organics	2/10/2023
5250	o-Xylene	EPA 8260C	10307003	Volatile Organics	2/10/2023
5250	o-Xylene	EPA 8260D	10307127	Volatile Organics	2/10/2023
1434	Paint Filter Liquids	EPA 9095B	10245600	General Chemistry	2/10/2023
7955	Parathion, ethyl	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
7955	Parathion, ethyl	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
7955	Parathion, ethyl	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
6590	Pentachlorobenzene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6590	Pentachlorobenzene	EPA 8270E	10242543	Extractable Organics	2/10/2023
5035	Pentachloroethane	EPA 8260C	10307003	Volatile Organics	2/10/2023

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Certification Type: NELAP
Issue Date: 7/1/2025 **Expiration Date: 6/30/2026**



Laboratory Scope of Accreditation

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EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
5035	Pentachloroethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
6600	Pentachloronitrobenzene (Quintozene)	EPA 8270D	10186035	Extractable Organics	2/10/2023
6600	Pentachloronitrobenzene (Quintozene)	EPA 8270E	10242543	Extractable Organics	2/10/2023
6605	Pentachlorophenol	EPA 8151A	10183207	Pesticides-Herbicides-PCB's	2/10/2023
6605	Pentachlorophenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
6605	Pentachlorophenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
9558	Pentaerythritol tetranitrate (PETN)	EPA 8330B	10308006	Extractable Organics	2/10/2023
6957	Perfluoro(2-ethoxyethane) Sulfonic Acid (PFEESA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6965	Perfluoro-3-methoxypropanoic Acid (PFMPA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6966	Perfluoro-4-methoxybutanoic Acid (PFMBA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6918	Perfluorobutane Sulfonic Acid (PFBS)	EPA 1633	10123463	Extractable Organics	1/31/2024
6915	Perfluorobutanoic Acid (PFBA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6920	Perfluorodecane Sulfonic Acid (PFDS)	EPA 1633	10123463	Extractable Organics	1/31/2024
6905	Perfluorodecanoic Acid (PFDA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6923	Perfluorododecane Sulfonic Acid (PFDoS)	EPA 1633	10123463	Extractable Organics	1/31/2024
6903	Perfluorododecanoic Acid (PFDoA)	EPA 1633	10123463	Extractable Organics	1/31/2024
9470	Perfluoroheptane Sulfonic Acid (PFHpS)	EPA 1633	10123463	Extractable Organics	1/31/2024
6908	Perfluoroheptanoic Acid (PFHpA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6927	Perfluorohexane Sulfonic Acid (PFHxS)	EPA 1633	10123463	Extractable Organics	1/31/2024
6913	Perfluorohexanoic Acid (PFHxA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6929	Perfluorononane Sulfonic Acid (PFNS)	EPA 1633	10123463	Extractable Organics	1/31/2024
6906	Perfluorononanoic Acid (PFNA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6917	Perfluorooctane sulfonamide (PFOSA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6931	Perfluorooctane sulfonic acid (PFOS)	EPA 1633	10123463	Extractable Organics	1/31/2024
6912	Perfluorooctanoic Acid (PFOA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6934	Perfluoropentane Sulfonic Acid (PFPeS)	EPA 1633	10123463	Extractable Organics	1/31/2024
6914	Perfluoropentanoic Acid (PFPeA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6902	Perfluorotetradecanoic acid (PFTDA)	EPA 1633	10123463	Extractable Organics	1/31/2024
9563	Perfluorotridecanoic acid (PFTrDA)	EPA 1633	10123463	Extractable Organics	1/31/2024
6904	Perfluoroundecanoic acid (PFUnA)	EPA 1633	10123463	Extractable Organics	1/31/2024
1900	pH	EPA 9040C	10244403	General Chemistry	2/10/2023
1900	pH	EPA 9045D	10198455	General Chemistry	2/10/2023
6610	Phenacetin	EPA 8270D	10186035	Extractable Organics	2/10/2023
6610	Phenacetin	EPA 8270E	10242543	Extractable Organics	2/10/2023
6615	Phenanthrene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6615	Phenanthrene	EPA 8270E	10242543	Extractable Organics	2/10/2023

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Certification Type: NELAP
Issue Date: 7/1/2025
Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

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State Laboratory ID: E82574

EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
6625	Phenol	EPA 8270D	10186035	Extractable Organics	2/10/2023
6625	Phenol	EPA 8270E	10242543	Extractable Organics	2/10/2023
7985	Phorate	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
7985	Phorate	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
7985	Phorate	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
8000	Phosmet (Imidan)	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
4910	p-Isopropyltoluene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4910	p-Isopropyltoluene	EPA 8260D	10307127	Volatile Organics	2/10/2023
1125	Potassium	EPA 6010C	10155905	Metals	2/10/2023
1125	Potassium	EPA 6010D	10155950	Metals	2/10/2023
8035	Prometon	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
8035	Prometon	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
8040	Prometryn	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
8040	Prometryn	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
6650	Pronamide (Kerb)	EPA 8270D	10186035	Extractable Organics	2/10/2023
6650	Pronamide (Kerb)	EPA 8270E	10242543	Extractable Organics	2/10/2023
8060	Propazine	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
8060	Propazine	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
5080	Propionitrile (Ethyl cyanide)	EPA 8260C	10307003	Volatile Organics	2/10/2023
5080	Propionitrile (Ethyl cyanide)	EPA 8260D	10307127	Volatile Organics	2/10/2023
6657	Propylene Glycol	EPA 8015C	10173816	Volatile Organics	2/10/2023
6665	Pyrene	EPA 8270D	10186035	Extractable Organics	2/10/2023
6665	Pyrene	EPA 8270E	10242543	Extractable Organics	2/10/2023
5095	Pyridine	EPA 8270D	10186035	Extractable Organics	2/10/2023
5095	Pyridine	EPA 8270E	10242543	Extractable Organics	2/10/2023
9432	RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	EPA 8330A	10190008	Extractable Organics	2/10/2023
9432	RDX (hexahydro-1,3,5-trinitro-1,3,5-triazine)	EPA 8330B	10308006	Extractable Organics	2/10/2023
6751	Residual Range Organics (RRO)	AEL SOP SVOC-040 / GC-FID	60001414	Extractable Organics	6/19/2020
1950	Residue-total	SM 2540 G	20005203	General Chemistry	4/30/2008
8110	Ronnel	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
6685	Safrole	EPA 8270D	10186035	Extractable Organics	2/10/2023
6685	Safrole	EPA 8270E	10242543	Extractable Organics	2/10/2023
4440	sec-Butylbenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4440	sec-Butylbenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
1140	Selenium	EPA 6010C	10155905	Metals	2/10/2023
1140	Selenium	EPA 6010D	10155950	Metals	2/10/2023

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(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
1140	Selenium	EPA 6020A	10156419	Metals	2/10/2023
1140	Selenium	EPA 6020B	10156420	Metals	2/10/2023
1150	Silver	EPA 6010C	10155905	Metals	2/10/2023
1150	Silver	EPA 6010D	10155950	Metals	2/10/2023
1150	Silver	EPA 6020A	10156419	Metals	2/10/2023
1150	Silver	EPA 6020B	10156420	Metals	2/10/2023
8650	Silvex (2,4,5-TP)	EPA 8151A	10183207	Pesticides-Herbicides-PCB's	2/10/2023
8125	Simazine	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
8125	Simazine	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
8125	Simazine	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
1155	Sodium	EPA 6010C	10155905	Metals	2/10/2023
1155	Sodium	EPA 6010D	10155950	Metals	2/10/2023
1160	Strontium	EPA 6010C	10155905	Metals	2/10/2023
1160	Strontium	EPA 6010D	10155950	Metals	2/10/2023
1160	Strontium	EPA 6020A	10156419	Metals	2/10/2023
1160	Strontium	EPA 6020B	10156420	Metals	2/10/2023
5100	Styrene	EPA 8260C	10307003	Volatile Organics	2/10/2023
5100	Styrene	EPA 8260D	10307127	Volatile Organics	2/10/2023
2000	Sulfate	EPA 300.0	10053200	General Chemistry	7/12/2019
2000	Sulfate	EPA 9056A	10199607	General Chemistry	2/10/2023
8155	Sulfotepp	EPA 8141B	10182204	Pesticides-Herbicides-PCB's	2/10/2023
8155	Sulfotepp	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
8155	Sulfotepp	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
1460	Synthetic Precipitation Leaching Procedure (SPLP)	EPA 1312	10119003	General Chemistry	4/4/2002
4370	T-amylmethylether (TAME)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4370	T-amylmethylether (TAME)	EPA 8260D	10307127	Volatile Organics	2/10/2023
8195	Terbutryn	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
8195	Terbutryn	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
4420	tert-Butyl alcohol (2-Methyl-2-propanol)	EPA 8260C	10307003	Volatile Organics	2/10/2023
4420	tert-Butyl alcohol (2-Methyl-2-propanol)	EPA 8260D	10307127	Volatile Organics	2/10/2023
4445	tert-Butylbenzene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4445	tert-Butylbenzene	EPA 8260D	10307127	Volatile Organics	2/10/2023
5115	Tetrachloroethylene (Perchloroethylene)	EPA 8260C	10307003	Volatile Organics	2/10/2023
5115	Tetrachloroethylene (Perchloroethylene)	EPA 8260D	10307127	Volatile Organics	2/10/2023
5120	Tetrahydrofuran (THF)	EPA 8260D	10307127	Volatile Organics	2/10/2023
1165	Thallium	EPA 6010C	10155905	Metals	2/10/2023

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Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
1165	Thallium	EPA 6010D	10155950	Metals	2/10/2023
1165	Thallium	EPA 6020A	10156419	Metals	2/10/2023
1165	Thallium	EPA 6020B	10156420	Metals	2/10/2023
8235	Thionazin (Zinophos)	EPA 8270D	10186035	Pesticides-Herbicides-PCB's	2/10/2023
8235	Thionazin (Zinophos)	EPA 8270E	10242543	Pesticides-Herbicides-PCB's	2/10/2023
1175	Tin	EPA 6010C	10155905	Metals	2/10/2023
1175	Tin	EPA 6010D	10155950	Metals	2/10/2023
1175	Tin	EPA 6020A	10156419	Metals	2/10/2023
1175	Tin	EPA 6020B	10156420	Metals	2/10/2023
1180	Titanium	EPA 6010C	10155905	Metals	2/10/2023
1180	Titanium	EPA 6010D	10155950	Metals	2/10/2023
1180	Titanium	EPA 6020B	10156420	Metals	2/10/2023
5140	Toluene	EPA 8260C	10307003	Volatile Organics	2/10/2023
5140	Toluene	EPA 8260D	10307127	Volatile Organics	2/10/2023
1825	Total nitrate-nitrite	EPA 300.0	10053200	General Chemistry	7/12/2019
1825	Total nitrate-nitrite	EPA 9056A	10199607	General Chemistry	2/10/2023
2040	Total organic carbon	EPA 9060A	10244823	General Chemistry	2/10/2023
2050	Total Petroleum Hydrocarbons (TPH)	FL-PRO	90015808	Extractable Organics	4/17/2002
8250	Toxaphene (Chlorinated camphene)	EPA 8081B	10178811	Pesticides-Herbicides-PCB's	2/10/2023
1466	Toxicity Characteristic Leaching Procedure (TCLP)	EPA 1311	10118806	General Chemistry	4/4/2002
4700	trans-1,2-Dichloroethylene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4700	trans-1,2-Dichloroethylene	EPA 8260D	10307127	Volatile Organics	2/10/2023
4685	trans-1,3-Dichloropropene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4685	trans-1,3-Dichloropropene	EPA 8260D	10307127	Volatile Organics	2/10/2023
4605	trans-1,4-Dichloro-2-butene	EPA 8260C	10307003	Volatile Organics	2/10/2023
4605	trans-1,4-Dichloro-2-butene	EPA 8260D	10307127	Volatile Organics	2/10/2023
5170	Trichloroethene (Trichloroethylene)	EPA 8260C	10307003	Volatile Organics	2/10/2023
5170	Trichloroethene (Trichloroethylene)	EPA 8260D	10307127	Volatile Organics	2/10/2023
5175	Trichlorofluoromethane	EPA 8260C	10307003	Volatile Organics	2/10/2023
5175	Trichlorofluoromethane	EPA 8260D	10307127	Volatile Organics	2/10/2023
1185	Vanadium	EPA 6010C	10155905	Metals	2/10/2023
1185	Vanadium	EPA 6010D	10155950	Metals	2/10/2023
1185	Vanadium	EPA 6020A	10156419	Metals	2/10/2023
1185	Vanadium	EPA 6020B	10156420	Metals	2/10/2023
5225	Vinyl acetate	EPA 8260C	10307003	Volatile Organics	2/10/2023
5225	Vinyl acetate	EPA 8260D	10307127	Volatile Organics	2/10/2023

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Expiration Date: 6/30/2026



Laboratory Scope of Accreditation

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EPA Lab Code: FL00949

(904) 363-9350

E82574

**Advanced Environmental Laboratories, Inc.
6681 Southpoint Parkway
Jacksonville, FL 32216**

Matrix: Solid and Chemical Materials

Analyte#	Analyte	Method/Tech	Method Code	Category	Effective Date
5235	Vinyl chloride	EPA 8260C	10307003	Volatile Organics	2/10/2023
5235	Vinyl chloride	EPA 8260D	10307127	Volatile Organics	2/10/2023
5304	VPH Aliphatic C5-C8	MADEP-VPH (MA-VPH)90017406		Volatile Organics	6/19/2020
5306	VPH Aliphatic C9-C12	MADEP-VPH (MA-VPH)90017406		Volatile Organics	6/19/2020
5311	VPH Aromatic C9-C10	MADEP-VPH (MA-VPH)90017406		Volatile Organics	6/19/2020
5260	Xylene (total)	EPA 8260C	10307003	Volatile Organics	2/10/2023
5260	Xylene (total)	EPA 8260D	10307127	Volatile Organics	2/10/2023
1190	Zinc	EPA 6010C	10155905	Metals	2/10/2023
1190	Zinc	EPA 6010D	10155950	Metals	2/10/2023
1190	Zinc	EPA 6020A	10156419	Metals	2/10/2023
1190	Zinc	EPA 6020B	10156420	Metals	2/10/2023

SECTION 3 ATTACHMENTS

INCLUDING:

Authorized Client Reference Letters

Monroe County School District

September 15, 2025

Subject: Client Reference Letter for Hydrologic Associates USA Inc.

Client: Monroe County School District

Operations Annex

5330 Second Avenue

Key West, FL 33040

Dear Selection Committee,

I write on behalf of the Monroe County School District to recommend Hydrologic Associates USA Inc. (HAI). HAI executed water quality monitoring, soil and groundwater quality assessments, and remediation on Stock Island in Key West, Florida, from about August 2019 to November 2024 under a contract budget of approximately \$100,000. The scope included quarterly groundwater sampling, field measurements, laboratory coordination, Quality Assurance/Quality Control (QA/QC), reporting, and regulatory liaison with the Florida Department of Environmental Protection (FDEP) in alignment with United States Environmental Protection Agency (EPA) guidance and regulations.

HAI delivered all sampling event reports on schedule despite weather constraints, maintained clear communications, and provided complete, defensible documentation. All FDEP submittals were accepted without deficiency. Their safety planning and field practices were proactive and effective. Key deliverables— quarterly groundwater reports, soil assessment reports, FDEP required correspondence —were on time and within budget.

We found HAI's strengths to include technical rigor, responsive communication, and practical problem-solving. We would hire HAI again for similar work; they remain on our prequalified vendor list. Please contact me at (305) 407-6251 or Douglas.Pryor@KeysSchools.com for verification.

Sincerely,

Douglas Pryor

Director Construction & Distribution Services

Monroe County School District

5330 2nd Avenue | Stock Island, FL 33040

O: (305) 293-1400 x 53465 | C: (305) 407-6251

E: Douglas.Pryor@KeysSchools.com | W: www.KeysSchools.com

**University of Miami (UM)
UHealth Facilities Operations & Planning
Office of Planning, Design & Construction**

September 15, 2025

Regarding: Client Reference for Hydrologic Associates (HAI)

To the Selection Committee:

I am pleased to recommend Hydrologic Associates (HAI) for environmental management services. As Director of Planning & Construction for the University of Miami's UHealth Facilities Operations & Planning, I engaged HAI to support groundwater quality evaluations with a specific focus on fecal coliform concentration testing at UHealth facilities in Miami-Dade County.

HAI developed and executed a sampling and analysis plan that aligned with United States Environmental Protection Agency (EPA) and Florida Department of Environmental Protection (FDEP) guidance. Their work included soil and groundwater assessment, remediation, soil and groundwater monitoring, and concise reporting. Results were presented with clear documentation, including interpretation of fecal coliform findings and related indicators, and practical recommendations to manage risk and maintain compliance.

Throughout the project, HAI demonstrated technical proficiency, timely communication, and thorough safety practices. Deliverables were completed on schedule, responsive to stakeholder needs, and fully consistent with regulatory expectations. Based on our experience, I would not hesitate to retain HAI for similar water quality monitoring and environmental management operations.

Please feel free to contact me for further details.

Sincerely,

Shawn M. Conn, P.E.

Director, Planning & Construction
UHealth Facilities Operations & Planning
Office of Planning, Design & Construction
O: 305.243.8130 | C: 305.989.6212

sxc1907@miami.edu

Jackson Memorial Hospital Emergency Department Expansion and Renovation Project

September 15, 2025

Subject: Recommendation Letter for Hydrologic Associates USA Inc. (HAI)

Client: Jackson Health System

1611 NW 12 Avenue

Miami, Florida 33136

To Whom It May Concern,

Jackson Health System contracted Hydrologic Associates USA Inc. (HAI) to support environmental compliance at the Jackson Memorial Hospital site's emergency department expansion project that began in August 2023, and is presently ongoing, with an approximate contract value of \$1.5 million. HAI completed soil and groundwater assessments, long-term groundwater quality monitoring, and contaminant remediation with the associated laboratory analysis and QA/QC. HAI also managed regulatory correspondence with the Miami-Dade County Department of Environmental Resources Management (DERM) and maintained the project compliant with regulatory standards. All deliverables were submitted punctually and any deviations from the schedule were clearly reported and corrected for.

HAI combined exacting standards with clear communication and effective problem solving. We expect to retain them for comparable environmental projects. For additional information, contact me at (305) 282-7969 or jorge.garciga@jhsmiami.org.

Regards,

Jorge Garciga

Director of Facilities Design and Construction

Jackson Health System

FD&C Trailer

1611 NW 12th Avenue

Miami, Florida 33136

(305) 282-7969

jorge.garciga@jhsmiami.org

SECTION 5 ATTACHMENTS

INCLUDING:

HAI Statement of Qualifications & Services

Hydrologic Associates USA. Inc.

Working in the Water-Resources fields of

**Assessment, Remediation and Engineering
Hydrogeologic Testing and Well Drilling Services**

“Covering Florida and the Caribbean Basin”



Hydrologic Associates USA, Inc. (HAI) is a hydrologic, geologic and environmental consulting firm headquartered in Miami, Florida with additional offices in Orlando, Florida, and Nassau, Bahamas. HAI provides a wide variety of services including site assessments, soil/groundwater remediation, hydrologic analysis related to water management issues, hydrologic instrumentation and data collection, hydrogeologic testing, geologic analysis, ground and surface water modeling and specialized well drilling services. HAI has over 40 years experience working on hydrologic problems and providing solutions initially with the US Geological Survey Water Resources Division since the early 1970's and in private industry since 1988.

10406 SW 186th Terrace, Miami, FL 33157

Tel: (305) 252-7118 Fax: (305) 254-0874

www.HAIMIAMI.COM



**ENVIRONMENTAL CONSULTANTS – HYDROGEOLOGIC TESTING
WELL DRILLING SERVICES – PETROLEUM CONTRACTOR**

COMPANY PROFILE

Our offices in Miami, Florida, Orlando, Florida, and Nassau Bahamas are located to serve the Southeastern United States, Central and South America, and the Caribbean. The staff of Hydrologic Associates, USA, Inc. has the capability of providing a wide range of services to governmental agencies, universities and private industry.

HAI currently maintains the following licenses:

State of Florida Registration

- Licensed Geologic consulting firm
Lic. #GB69

- Licensed Engineering consulting firm
Lic. #EB6851

- Licensed Water Well Contractor
Lic. #2928 (SFWMD)

- Licensed Pollutant Storage System Contractor (PSSC)
Lic. # PCC050784

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**ENVIRONMENTAL CONSULTANTS – HYDROGEOLOGIC TESTING
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SERVICES AVAILABLE

- Contamination Assessments and Remedial Actions
- Environmental Impact Statements and Permitting
- Phase I and II Environmental Assessments and Audits
- Storage Tank Removal and Installation
- Aquifer Remediation and Restoration
- Effects of Water Management Practices
- Quantitative Groundwater Investigations and modeling
- Quantitative Surface-Water Investigations and modeling
- Wellfield Monitoring / Modeling/Potentiometric Mapping
- Water Supply Development and permitting
- Landfill Hydrology / Monitoring
- Saltwater Intrusion Monitoring
- Florida DEP Reasonable Assurance Report (RAR) for Class V - Stormwater Injection Wells
- Hydrologic Data Collection and Computation (water levels, discharge and ratings, rainfall, tidal studies)
- Development of Specialized Hydrologic Instrumentation
- Geologic Logging, Microscopic Analysis of Geologic Samples, Geologic Mapping
- Technical Report Writing and Review
- Well Drilling and Hydrogeologic Testing
- Expert Witness
 - Water Management effects (land condemnation)
 - Contamination assessments

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ENVIRONMENTAL CONSULTANTS – HYDROGEOLOGIC TESTING
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PARTIAL CLIENT LIST

GOVERNMENT AGENCIES AND UNIVERSITIES

US Navy-Guantanamo Bay
US Army Corps of Engineers
Everglades National Park
Biscayne National Park
US Department of Agriculture
South Florida Water Management District
St. Johns Water Management District
Miami Dade County-DERM, WASAD
Broward County-DPEP, OES
Monroe County
Martin County
University of Miami
Florida International University
Tampa Bay Water
Pompano Beach
Fort Lauderdale
City of Miami
City of Hollywood
North Miami
Pinnellas County
City of Dunedin
Coral Springs
Florida DOT District IV and VI
Water and Sewerage Corp (Bahamas)
Bahamas Electrical Corporation
USAID - Haiti

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ENVIRONMENTAL CONSULTANTS – HYDROGEOLOGIC TESTING
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PRIVATE INDUSTRY

Shell Oil Company
Collier Resources
Florida Sugar Cane League
US Sugar Corporation
Alamo Car Rental
Coulter Electronics
Ross Oil
Ocean Cadillac
The Bal Harbour Shoppes
Matheson Tri-Gas
South Florida Dry Cleaners Association
Disaster Relief Corporation (Somalia)
DiMare Foods
Calumet Florida
Swire Properties
Delta Recycling Corp. (Allied)
Emerald Bay Resort, Great Exuma Bahamas
DEVCON International
Camp, Dresser, McKee (CDM)
CH₂M Hill
ARCADIS Gerahgty and Miller
Frenchmans Reserve, Jupiter
Hazen and Sawyer
The Singh Company
Wallace, Roberts and Todd
Waste Management
RL Homes
Carlisle Group
Codina Development
Equity One
CEMEX
Limestone Projects Association
Atlantic Civil Corporation
URS Corp.
Ginn Company
Coastal Systems International

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ENVIRONMENTAL CONSULTANTS – HYDROGEOLOGIC TESTING
WELL DRILLING SERVICES – PETROLEUM CONTRACTOR

PARTIAL CLIENT LIST

LAW FIRMS

Holland and Knight – Jim Porter
Greenberg Traurig – Keri Barsh and Simon Ferro
White and Case – Doug Halsey
Senterfeit Ackerman – Joe Goldstein
Brigham, Moore
Bilzin, Sumberg, Dunn Baena Price and Axelrod
Morgan, Lewis and Bockins
Keith, Mack, Lewis, Cohen and Lumpkin
Warren Kniskern P.A.
Det Joks, P.A.
Bercow and Radell
Shook, Hardy and Bacon-John McNally
Machado and Herran, P.A.
Smoler, Lerman, Bente and Whitebook, P.A.
Bennett Feldman, Esquire
Alan Marcus. P.A.
Adam Gallinar, P.A.
Harper Meyer Perez Hagen O’Conner Albert & Dribin LLP
Paul Feldman, ESQ
Freedman & Associates, P.A.

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ENVIRONMENTAL CONSULTANTS – HYDROGEOLOGIC TESTING
WELL DRILLING SERVICES – PETROLEUM CONTRACTOR

PARTIAL CLIENT LIST

BANKS

1st National Bank of Florida
Apollo Bank Banesco Bank
City National Bank
Community Bank of Florida
Community Bank of Homestead
First Bank of Florida
Intercredit Bank
International Finance Bank
JGB Bank
Marquis Bank Ocean
Bank Paradise Bank
PNC Bank Ready
State Bank Sabadell
United Bank Sunstate
Bank SunTrust Bank
Terra Bank, N.A.

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ENVIRONMENTAL CONSULTANTS – HYDROGEOLOGIC TESTING
WELL DRILLING SERVICES – PETROLEUM CONTRACTOR

PARTIAL CLIENT LIST-PUERTO RICO, THE CARIBBEAN AND MEXICO

Chase Manhattan Bank-Puerto Rico
Chase Manhattan Bank-U.S. Virgin Islands
The Government of Guyana
The World Bank
U.S. Geological Survey-WRD, Caribbean District
Banco Central Hispano
CSA Architects and Engineers, Inc.
Law Office of John K. Dema, S. Croix, U.S.V.I.
Golder Associates, Inc.
Law Offices of Richard Knoepfel, St. Thomas, U.S.V.I.
DSM Environmental, Inc.
U.S.V.I. Government-Department of Planning and Natural Resources
U.S.V.I. Government-Department of Public Works
GCL Environmental Scientists and Engineers, Inc.
Hedonism II Negril, Jamaica
The Government of Belize
O-M Management, Inc.
The Nature Conservancy
URS/Dames and Moore Lebron
Puerto Rico Electrical Power Authority (PREPA)
Santa Barbara Plantation (Curacao)
Law Office of Gerald Groner, St. Croix, USVI
The Governor of Quintana Roo, Mexico
H-Caribbean Investments S.A. Holdings, Madrid
Autoridad de Acueductos y Alcantarillados (AAA)
Bahamas Water and Sewerage Corporation
Islands by Design, Ltd.
Ionics Aqua design
Emerald Bay Holdings, Ltd.

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ENVIRONMENTAL CONSULTANTS – HYDROGEOLOGIC TESTING
WELL DRILLING SERVICES – PETROLEUM CONTRACTOR

ENVIRONMENTAL SERVICES

Phase I ESA (Environmental Site Assessment) Reports

Phase I ESA- Prepared for residential and commercial properties within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) as specified in the American Society of Testing and Materials (ASTM) standards E 1527-00 and E 1527-05. As such, these practices are intended to satisfy one for the requirements to qualify for the innocent landowner defense to CERCLA liability that constitute “all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice”. The Phase I investigation can also include preliminary asbestos investigation, sampling and laboratory analysis, where applicable. HAI completes an estimated value of 150 to 200 Phase I ESA audits per year. We cover all of Florida, The Bahamas, and the Caribbean.

Phase II ESA Investigations and Reports

Phase II Investigations are conducted to determine the presence or absence of hazardous or industrial substances. Phase II investigations will be designed to estimate quantity and type of impacted soil or groundwater. The presence or absence of hazardous substances is documented by independent laboratory analysis. HAI conducts approximately 100 Phase II ESA a year and they include limited and extensive soil/groundwater sampling events.

Soil and Groundwater Assessment/Remediation

Site Assessments Reports - HAI offers preliminary and in-depth site assessment services to address regulatory conformance and environmental concerns. In addition, the investigations delineate the areal extent of hazardous substances and petroleum products. Our professional staff is skilled in the use of assessment techniques such as tank and line tightness testing, soil gas surveys, test drilling, soil/groundwater sampling, groundwater modeling and geophysical surveys. HAI conducts approximately 20 SAR (Site Assessment Reports) a year. HAI also performs assessments of underground storage tank systems to determine if they meet current regulations and can make recommendations to upgrade the systems, when necessary.



ENVIRONMENTAL CONSULTANTS – HYDROGEOLOGIC TESTING
WELL DRILLING SERVICES – PETROLEUM CONTRACTOR

Water Resource Investigations

- ◆ Quantitative evaluation of aquifer properties (transmissivity, storage, hydraulic conductivity, specific capacity)
- ◆ Evaluation of basin flow and watershed runoff
- ◆ Everglades hydrology
- ◆ Derivation stream rating curves
- ◆ Collection of rainfall quality and quantity data
- ◆ Rating water control structures and pump stations
- ◆ Hydrologic Instrumentation: Installation and Operation (water levels, flow meters, rainfall, water quality)
- ◆ Water Quality Data Collection (groundwater surface water, rainfall, soil, subsurface geologic materials, canal and stream sediments)
- ◆ Analysis of historic hydrologic conditions in the Everglades/Big Cypress Basins and adjacent wetland areas.

SURFACE WATER/HYDROLOGY / HYDRAULICS

Hydrologic Associates personnel have decades of experience collecting and analyzing surface water data throughout Florida. This experience includes design and construction of surface water gages, stream gaging (discharge measurements) in streams and at water level measurements, development of rating curves, statistical analysis of hydraulic data, storm water modeling, basin (watershed) modeling and tidal flushing analysis.

Hydrologic Associates has in-house capabilities to complete the tasks listed above and has the following types of equipment and instrumentation:

- ◆ Water level recorders: Analog, digital, and electronic
- ◆ Current meters (discharge): Price Current Meters, Pygmy Meters, Marsh-Mc Birney, Flow meter
- ◆ Boats, cranes, bridge boards, A-Reels and Wading Rods for discharge measurements.
- ◆ Staff gage installation.
- ◆ Surface Water modeling using, CHAN



Surface Water Installation in South Miami-Dade County



**ENVIRONMENTAL CONSULTANTS – HYDROGEOLOGIC TESTING
WELL DRILLING SERVICES – PETROLEUM CONTRACTOR**

WATER QUALITY

Hydrologic Associates have over 30 years experience in the collection and analysis of water quality data. Sampling media includes surface waters (streams, lakes, and canals), groundwater, soil, subsurface geologic material, bottom sediments and tidal areas. HAI operates under a quality assurance/quality control (QA/QC) plan approval by the Florida Department of Environmental Protection (FDEP). HAI utilizes selected state and federally certified analytical laboratories for sample processing and analysis. HAI personnel collect water quality data from various media on nearly a daily basis. HAI has the following equipment and expertise to accomplish the tasks listed above.

- ◆ Samplers:
 - Bailers (Teflon and Stainless Steel)
 - Kemmerer Water Sampler
 - Shelby tubes and appurtenances
 - Ekman and Ponar Dredges
 - Split Spoon Sampling
- ◆ Pumps:
 - Peristaltic
 - Downhole
 - Centrifugal
- ◆ Water Quality Instruments:
 - pH, conductivity and dissolved oxygen meters
 - Turbidimeters
 - Conductivity/Temperature probes to 350 feet





ENVIRONMENTAL CONSULTANTS – HYDROGEOLOGIC TESTING
WELL DRILLING SERVICES – PETROLEUM CONTRACTOR

Remediation and restoration of contaminated properties. The Remediation process will take account the type(s) and quantity of contaminants in an effort to satisfy all regulatory requirements relative to the subject property in a cost effective and efficient manner. We strongly encourage client involvement and communication during the cleanup process to identify critical factors such as cost effectiveness, time constraints, regulatory compliance, client concerns, etc. The Remedial Action Plans (RAP) prepared by HAI include the following items which we have extensive experiences.

- Source Removal
- Air Sparging
- Soil Upon Extractions
- Pump & treat
- Bio-Remediation
- Natural Attenuation Monitoring Only
- Risk based closed Utilizing deed restrictions

HAI is currently working on 15 ongoing Remediation projects in South Florida. Of these, 8 site remediations are in the State Funded programs.

Tank Closure Assessment Activities and Contaminated Source Removal

HAI is a State Approved Petroleum Contractor (licensed and insured). HAI has extensive experience providing underground storage tank removal services, including development of plans, specifications, and bid documents when needed to meet our clients' requirements. HAI can provide closure support by notifying and/or negotiating with regulatory agencies, collecting required environmental samples, and preparing closure reports. If tanks are to be closed in place or be used to store other products, HAI can assist in meeting applicable regulations. HAI conducts approximately 10 tank removal and Tank Closure Assessment Reports (TCAR) a year.





ENVIRONMENTAL CONSULTANTS – HYDROGEOLOGIC TESTING
WELL DRILLING SERVICES – PETROLEUM CONTRACTOR

GROUNDWATER HYDROLOGY

Hydrologic Associates personnel have decades of experience in the collection and analysis of groundwater data throughout Florida, Mexico, and the Caribbean. Our experience includes conducting long and short term aquifer tests (the latter mainly consisting of step-drawdown and specific capacity tests) on single or multiple wells. Using the proper analytical solution (such as confined or unconfined aquifer, leaky aquifer, fractured rock aquifer, etc.) derivation values of aquifer transmissivity, hydraulic conductivity, leakage, specific capacity, and storage coefficient can be calculated.

Hydrologic Associates has in-house capabilities to complete the tasks listed above and has the following types of equipment and instrumentation for quantitative analysis of groundwater.

- ◆ Pressure Transducers: In Situ Trolls, In Situ Multi Channel Hermit
- ◆ Centrifugal Pumps: With intake 2-inch, 3-inch, 6-inch discharge hoses
- ◆ Downhole Pumps: Grunfos 5, 10, and 20 horsepower for various flow rates and head
- ◆ Line Shaft Pumps - (3) 8, 12 and 16 inch
 - With diesel PTO – rated at 1000 to 10,000 gallons per minute
- ◆ Borehole Camera – Black and white
- ◆ Flow Meters –
 - Haliburton in-line (2)
 - Marsh- Mc Birney
 - Cross Correlation (capable of measuring large pipes to 60 inches and volume)
 - General Electric



SECTION 8 ATTACHMENTS

INCLUDING:

Financial Statements for Prior Three Years

HYDROLOGIC ASSOCIATES U.S.A., INC

Trial Balance

As of December 31, 2023

	DEBIT	CREDIT
1010 Sunstate Bank 6563 - Money Market	314,003	
1050 Sunstate Bank 1831 - Operating		143,210
1110 Accounts Receivable	1,000	
1227 Due From Leo Swayze	15,000	
1560 Computer Equipment	663	
1570 Machinery & Equipment	328,485	
1575 Transportation Equipment	8,525	
1590 Vehicles	29,000	
1720 Accumulated Depreciation		333,160
1810 Deposits	5,181	
2390 Deferred Income Liability		240,675
2803 Common Stock		600
2931 Shareholder Distributions:Distributions - James Miller	173,239	
2932 Shareholder Distributions:Distributions - Leo Swayze	147,888	
2980 Retained Earnings (Prior to 1991)	6,611	
2990 Accumulated Adjustments Account	167,747	
3110 Service Fees Income		5,251,612
3115 Reimbursed Expenses		7,009
3180 Unapplied Cash Payment Income	7,963	
3190 Discounts given	2,647	
4240 Freight Out	13,400	
4320 Subcontracted Services	2,575,589	
4340 Tools & Hardware	20,075	
6010 Payroll Expenses:Staff Salaries & Wages	988,906	
6021 Payroll Expenses:Officers Salaries:Salary - Jim Miller	178,000	
6022 Payroll Expenses:Officers Salaries:Salary - Leo Swayze	135,216	
6026 Payroll Expenses:Officers Salaries:Salary - Ted Miller	208,900	
6040 Payroll Expenses:Casual Labor	2,500	
6051 Payroll Expenses:Payroll Service Fees	23,296	
6410 Payroll Expenses:Payroll Taxes	115,868	
7000 Advertising & Promotion	446	
7080 Automobile & Truck Expenses	90,401	
7086 Automobile & Truck Expenses:Automobile Lease	3,258	
7090 Bad Debt Expense	36,000	
7100 Bank & Merchant Fees	1,366	
7110 Bank & Merchant Fees:QuickBooks Payments Fees	12,622	
7140 Cleaning	9,260	
7160 Charitable Contributions	2,000	
7170 Conferences & Seminars	250	
7150 Computer and Technology:Computer Service	1,280	
7210 Dues & Subscriptions	1,090	
7230 Meals	5,645	
7240 Equipment Rental	12,509	
7300 Insurance	36,055	
7290 Insurance:Health Insurance	51,258	

HYDROLOGIC ASSOCIATES U.S.A., INC

Trial Balance

As of December 31, 2023

	DEBIT	CREDIT
7308 Insurance:Workers Comp Insurance	10,286	
7350 Licenses & Permits	5,525	
7380 Office Expenses	20,065	
7430 Postage	16	
7432 Professional Services	23,003	
7198 Professional Services:Directors Fees	50,000	
7470 Rent	70,580	
7475 Storage Rent	9,050	
7530 Taxes - Other	2,496	
7630 Telephone & Internet	21,687	
7650 Travel - Business	24,891	
7651 Travel - Business:Travel - Lodging	40,444	
7680 Utilities	5,689	
3200 Interest Income		7,093
3900 Other Income		174,200
7195 Depreciation Expense	140,687	
TOTAL	\$6,157,559	\$6,157,559

HYDROLOGIC ASSOCIATES U.S.A., INC

Trial Balance

As of December 31, 2024

	DEBIT	CREDIT
1010 Sunstate Bank 6563 - Money Market	145,173	
1050 Sunstate Bank 1831 - Operating		189,941
1225 Due from James T Miller	100,000	
1227 Due From Leo Swayze	115,000	
1232 Due from Jeannie Prieto	4,750	
1560 Computer Equipment	663	
1570 Machinery & Equipment	328,485	
1575 Transportation Equipment	8,525	
1590 Vehicles	47,000	
1720 Accumulated Depreciation		355,604
1810 Deposits	5,181	
2390 Deferred Income Liability		120,338
2803 Common Stock		600
2931 Shareholder Distributions:Distributions - James Miller	125,604	
2932 Shareholder Distributions:Distributions - Leo Swayze	7,868	
2980 Retained Earnings (Prior to 1991)	6,611	
2990 Accumulated Adjustments Account	7,427	
3110 Service Fees Income		7,361,655
3115 Reimbursed Expenses		3,363
3180 Unapplied Cash Payment Income		29,000
4150 Repairs & Maintenance - COGS	21,200	
4220 W/C Refund	6,475	
4240 Freight Out	23,373	
4320 Subcontracted Services	4,274,599	
4340 Tools & Hardware	95,093	
4490 Rig Expenses	91,451	
4575 Small Tools	562	
6000 Payroll Expenses	71,731	
6010 Payroll Expenses:Staff Salaries & Wages	1,375,682	
6021 Payroll Expenses:Officers Salaries:Salary - Jim Miller	207,000	
6022 Payroll Expenses:Officers Salaries:Salary - Leo Swayze	126,707	
6026 Payroll Expenses:Officers Salaries:Salary - Ted Miller	169,007	
6040 Payroll Expenses:Casual Labor	8,163	
6051 Payroll Expenses:Payroll Service Fees	28,911	
6410 Payroll Expenses:Payroll Taxes	146,429	
7080 Automobile & Truck Expenses	106,859	
7086 Automobile & Truck Expenses:Automobile Lease	10,753	
7100 Bank & Merchant Fees	16	
7110 Bank & Merchant Fees:QuickBooks Payments Fees	16,461	
7140 Cleaning	3,000	
7160 Charitable Contributions	1,000	
7170 Conferences & Seminars	900	
7180 Computer and Technology	92	
7150 Computer and Technology:Computer Service	113	
7230 Meals	9,111	

HYDROLOGIC ASSOCIATES U.S.A., INC

Trial Balance

As of December 31, 2024

	DEBIT	CREDIT
7240 Equipment Rental	1,709	
7270 Gifts	218	
7290 Insurance:Health Insurance	80,905	
7292 Insurance:Liability Insurance	29,707	
7308 Insurance:Workers Comp Insurance	19,954	
7350 Licenses & Permits	2,073	
7370 Miscellaneous Expense	187	
7380 Office Expenses	13,596	
7430 Postage	798	
7432 Professional Services	128,802	
7198 Professional Services:Directors Fees	75,000	
7470 Rent	60,000	
7475 Storage Rent	9,750	
7510 Stationary & Printing	352	
7530 Taxes - Other	3,824	
7630 Telephone & Internet	13,611	
7650 Travel - Business	24,016	
7651 Travel - Business:Travel - Lodging	27,482	
7680 Utilities	6,070	
3200 Interest Income		36,638
3900 Other Income		120,338
7195 Depreciation Expense	22,444	
TOTAL	\$8,217,476	\$8,217,476

HYDROLOGIC ASSOCIATES U.S.A., INC

Trial Balance

As of June 30, 2025

	DEBIT	CREDIT
1010 Sunstate Bank 6563 - Money Market	1,130,627	
1050 Sunstate Bank 1831 - Operating	193,862	
1060 Sunstate Bank CD Accounts	913,032	
1560 Computer Equipment	663	
1570 Machinery & Equipment	328,485	
1575 Transportation Equipment	8,525	
1590 Vehicles	47,000	
1720 Accumulated Depreciation		355,604
1810 Deposits	5,181	
2390 Deferred Income Liability		120,338
2803 Common Stock		600
2931 Shareholder Distributions:Distributions - James Miller	402,715	
2932 Shareholder Distributions:Distributions - Leo Swayze	217,120	
2980 Retained Earnings (Prior to 1991)	6,611	
2990 Accumulated Adjustments Account		94,904
3110 Service Fees Income		6,158,127
3115 Reimbursed Expenses		3,363
3190 Discounts given	8,031	
4220 W/C Refund	6,000	
4240 Freight Out	4,395	
4320 Subcontracted Services	2,098,221	
4340 Tools & Hardware	46,445	
4490 Rig Expenses	27,066	
4575 Small Tools	17,739	
6000 Payroll Expenses	15,966	
6010 Payroll Expenses:Staff Salaries & Wages	600,659	
6021 Payroll Expenses:Officers Salaries:Salary - Jim Miller	92,750	
6022 Payroll Expenses:Officers Salaries:Salary - Leo Swayze	71,617	
6026 Payroll Expenses:Officers Salaries:Salary - Ted Miller	96,656	
6040 Payroll Expenses:Casual Labor	8,820	
6051 Payroll Expenses:Payroll Service Fees	13,380	
6410 Payroll Expenses:Payroll Taxes	72,205	
7080 Automobile & Truck Expenses	58,604	
7086 Automobile & Truck Expenses:Automobile Lease	15,913	
7100 Bank & Merchant Fees	4	
7110 Bank & Merchant Fees:QuickBooks Payments Fees	13,789	
7140 Cleaning	1,200	
7210 Dues & Subscriptions	378	
7230 Meals	6,337	
7240 Equipment Rental	9,942	
7290 Insurance:Health Insurance	42,131	
7292 Insurance:Liability Insurance	59,862	
7308 Insurance:Workers Comp Insurance	8,887	
7350 Licenses & Permits	1,275	
7380 Office Expenses	14,044	

HYDROLOGIC ASSOCIATES U.S.A., INC

Trial Balance

As of June 30, 2025

	DEBIT	CREDIT
7432 Professional Services	20,566	
7475 Storage Rent	8,250	
7490 Repairs & Maintenance	1,768	
7510 Stationary & Printing	338	
7630 Telephone & Internet	8,749	
7650 Travel - Business	17,181	
7651 Travel - Business:Travel - Lodging	25,953	
7680 Utilities	2,653	
3200 Interest Income		18,659
TOTAL	\$6,751,595	\$6,751,595

SECTION 9 ATTACHMENTS

INCLUDING:

Affidavits & Certification Forms

Sunbiz & Corporation Documentation

SECTION 4
AFFIDAVITS AND CERTIFICATIONS

THE FOLLOWING MATERIALS ARE CONSIDERED ESSENTIAL AND NON-WAIVABLE FOR ANY RESPONSE TO AN INVITATION TO BID.

BIDDERS SHALL SUBMIT THE SUBSEQUENT FORMS.

LIST OF ATTACHED FORMS:

1. Anti-Kickback Affidavit
2. Public Entity Crimes Form
3. City of Key West Indemnification Form
4. Equal Benefits for Domestic Partners Affidavit
5. Cone of Silence Affidavit
6. Non-Collusion Affidavit
- ~~7. Local Vendor Certification~~
8. City of Key West E-Verify Affidavit
9. Noncoercive Conduct Affidavit
10. Scrutinized Companies Certification

**SWORN STATEMENT UNDER SECTION 287.133(3)(A)
FLORIDA STATUTES, ON PUBLIC ENTITY CRIMES**

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICER AUTHORIZED TO ADMINISTER OATHS.

1. This sworn statement is submitted with Bid or Proposal for _____
CITY OF KEY WEST CLERK, CITY OF KEY WEST RFP NO. 25-020

2. This sworn statement is submitted by HYDROLOGIC ASSOCIATES USA, INC.
(name of entity submitting sworn statement)
whose business address is _____
10406 SW 186TH TERRACE, MIAMI, FL 33157
and (if applicable) its Federal Employer Identification Number (FEIN) is _____
65-0059253

(If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement _____)

3. My name is LEO J. SWAYZE, VICE PRESIDENT
(please print name of individual signing)
and my relationship to the entity named above is VICE PRESIDENT

4. I understand that a "public entity crime" as defined in Paragraph 287.133(1)(g), Florida Statutes, means a violation of any state or federal law by a person with respect to and directly related to the transaction of business with any public entity or with an agency or political subdivision of any other state or with the United States, including but not limited to, any bid or contract for goods or services to be provided to any public or an agency or political subdivision of any other state or of the United States and involving antitrust, fraud, theft, bribery, collusion, racketeering, conspiracy, material misrepresentation.

5. I understand that "convicted" or "conviction" as defined in Paragraph 287.133(1)(b), Florida Statutes, means a finding of guilt or a conviction of a public entity crime, with or without an adjudication guilt, in any federal or state trial court of record relating to charges brought by indictment information after July 1, 1989, as a result of a jury verdict, nonjury trial, or entry of a plea of guilty or nolo contendere.

6. I understand that an "affiliate" as defined in Paragraph 287.133(1)(a), Florida Statutes, means
1. A predecessor or successor of a person convicted of a public entity crime; or
 2. An entity under the control of any natural person who is active in the management of the entity and who has been convicted of a public entity crime. The term "affiliate" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in the management of an affiliate. The ownership by one person of shares constituting controlling interest in another person, or a pooling of equipment or income among persons when not for fair market value under an arm's length agreement, shall be a prima facie case that one person controls another person. A person who knowingly enters into a joint venture with a person who has been convicted of a public entity crime in Florida during the preceding 36 months shall be considered an affiliate.
7. I understand that a "person" as defined in Paragraph 287.133(1)(8), Florida Statutes, means any natural person or entity organized under the laws of any state or of the United States with the legal power to enter into a binding contract and which bids or applies to bid on contracts for the provision of goods or services let by a public entity, or which otherwise transacts or applies to transact business with public entity. The term "person" includes those officers, directors, executives, partners, shareholders, employees, members, and agents who are active in management of an entity.
8. Based on information and belief, the statement which I have marked below is true in relation to the entity submitting this sworn statement. (Please indicate which statement applies).

Neither the entity submitting this sworn statement, nor any officers, directors, executives, partners, shareholders, employees, members, or agents who are active in management of the entity, nor any affiliate of the entity have been charged with and convicted of a public entity crime subsequent to July 1, 1989, AND (Please indicate which additional statement applies.)

There has been a proceeding concerning the conviction before a hearing of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer did not place the person or affiliate on the convicted vendor list. (Please attach a copy of the final order.)

The person or affiliate was placed on the convicted vendor list. There has been a subsequent proceeding before a hearing officer of the State of Florida, Division of Administrative Hearings. The final order entered by the hearing officer determined that it was in the public interest to remove the person or

ANTI-KICKBACK AFFIDAVIT

STATE OF FLORIDA)

: SS

COUNTY OF MIAMI-DADE

I, the undersigned hereby duly sworn, depose and say that no portion of the sum herein bid will be paid to any employees of the City of Key West as a commission, kickback, reward or gift, directly or indirectly by me or any member of my firm or by an officer of the corporation.

By: LEO J. SWAYZE, VICE PRESIDENT

Leo J. Swayze

Sworn and subscribed before me this 17 day of September 2025.

NOTARY PUBLIC, State of Florida at Large

Ledilix Puente
My Commission Expires:



Ledilix Puente
Comm.: HH 284339
Expires: July 5, 2026
Notary Public - State of Florida

affiliate from the convicted vendor list. (Please attach a copy of the final order.)

_____The person or affiliate has not been put on the convicted vendor list. (Please describe any action taken by or pending with the Department of General Services.)

Leo J. Swayze
(signature)

9.17.25
(date)

STATE OF FLORIDA

COUNTY OF MIAMI-DADE

PERSONALLY APPEARED BEFORE ME, the undersigned authority,

LEO J. SWAYZE who, after first being sworn by me, affixed his/her
(name of individual signing)

signature in the space provided above on this 17 day of September, 2025

My commission expires:

[Signature]
NOTARY PUBLIC



Lédilix Puente
Comm.: HH 284339
Expires: July 5, 2026
Notary Public - State of Florida

CITY OF KEY WEST INDEMNIFICATION FORM

To the fullest extent permitted by law, the Consultant expressly agrees to indemnify and hold harmless the City of Key West, their officers, directors, agents and employees *(herein called the "indemnitees") from liabilities, damages, losses and costs, including but not limited to, reasonable attorney's fees and court costs, such legal expenses to include costs incurred in establishing the indemnification and other rights agreed to in this Paragraph, to persons or property, to the extent caused by the negligence, recklessness, or intentional wrongful misconduct of the Consultant, its Subcontractors or persons employed or utilized by them in the performance of the Contract. Claims by indemnitees for indemnification shall be limited to the amount of Consultant's insurance or \$1 million per occurrence, whichever is greater. The parties acknowledge that the amount of the indemnity required hereunder bears a reasonable commercial relationship to the Contract and it is part of the project specifications or the bid documents, if any.

The indemnification obligations under the Contract shall not be restricted in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for the Consultant under Workers' Compensation acts, disability benefits acts, or other employee benefits acts, and shall extend to and include any actions brought by or in the name of any employee of the Consultant or of any third party to whom Consultant may subcontract a part or all of the Work. This indemnification shall continue beyond the date of completion of the work.

CONSULTANT: 10406 SW 186TH TERRACE, MIAMI, FL 33157

SEAL:

Address

Leo J. Swayze
Signature

LEO J. SWAYZE
Print Name

VICE PRESIDENT
Title

DATE: 9/17/25



EQUAL BENEFITS FOR DOMESTIC PARTNERS AFFIDAVIT

STATE OF FLORIDA)

: SS

COUNTY OF MIAMI-DADE)

I, the undersigned hereby duly sworn, depose and say that the firm of _____

HYDROLOGIC ASSOCIATES USA, INC.

provides benefits to domestic partners of its employees on the same basis as it provides benefits to employees' spouses, per City of Key West Code of Ordinances Sec. 2-799.

By: LEO J. SWAYZE

Leo J. Swayze

Sworn and subscribed before me this 17 day of September 2025

NOTARY PUBLIC, State of Florida at Large

[Signature]

My Commission Expires:



Leditix Puente
Comm.: HH 284339
Expires: July 5, 2026
Notary Public - State of Florida

CONE OF SILENCE AFFIDAVIT

STATE OF FLORIDA)

: SS

COUNTY OF MIAMI-DADE)

I, the undersigned hereby duly sworn, depose and say that all owner(s), partners, officers, directors, employees and agents representing the firm of HYDROLOGIC ASSOCIATES USA, INC. have read and understand the limitations and procedures regarding communications concerning City of Key West Code of Ordinances Sec. 2-773 Cone of Silence.

By: LEO J. SWAYZE
Leo J. Swayze

Sworn and subscribed before me this

17 day of September 2025

NOTARY PUBLIC, State of Florida at Large

My Commission Expires: _____



Leditix Puente
Comm.: HH 284339
Expires: July 5, 2026
Notary Public - State of Florida

Leditix Puente

NON-COLLUSION AFFIDAVIT

STATE OF FLORIDA)
 :
SS COUNTY OF MONROE)

I, the undersigned hereby declares that the only persons or parties interested in this Proposal are those named herein, that this proposal is, in all respects, fair and without fraud, that it is made without collusion with any official of the Owner, and that the Proposal is made without any connection or collusion with any person submitting another Proposal on this Contract.

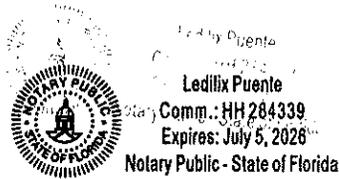
By: LEO J. SWAYZE
Leo J. Swayze

Sworn and subscribed before me this

17 day of September, 2025

[Signature]
NOTARY PUBLIC, State of Florida at Large

My Commission Expires: _____



THE CITY OF KEY WEST E-VERIFY AFFIDAVIT

Beginning January 1, 2021, Florida law requires all contractors doing business with The City of Key West to register with and use the E-Verify System in order to verify the work authorization status of all newly hired employees. The City of Key West requires all vendors who are awarded contracts with the City to verify employee eligibility using the E-Verify System. As before, vendors are also required to maintain all I-9 Forms of their employees for the duration of the contract term. To enroll in the E-Verify System, vendors should visit the E-Verify Website located at www.e-verify.gov.

In accordance with Florida Statute § 448.095, it is the responsibility of the Awarded Vendor to ensure compliance with all applicable E-Verify requirements.

By executing this affidavit, the undersigned contractor verifies it compliance with Florida Statute § 448.095, stating affirmatively that the individual, firm, or corporation which is engaged in the performance of services on behalf of the City of Key West, has registered with, is authorized to use, and uses the U.S. Department of Homeland Security's E-Verify system.

Furthermore, the undersigned contractor agrees that it will continue to use E-Verify throughout the contract period, and should it employ or contract with any subcontractor(s) in connection with the performance of services pursuant to this Agreement with The City of Key West, contractor will secure from such subcontractor(s) similar verification of compliance with Florida Statute § 448.095, by requiring the subcontractor(s) to provide an affidavit attesting that the subcontractor does not employ, or subcontract with, an unauthorized alien. Contractor further agrees to maintain records of such compliance during the duration of the Agreement and provide a copy of each such verification to The City of Key West within five (5) business days of receipt.

Failure to comply with this provision is a material breach of the Agreement and shall result in immediate termination of the Agreement without penalty to the City of Key West. Contractor shall be liable for all costs incurred by the City of Key West to secure replacement Agreement, including but not limited to, any increased costs for the same services, and costs due to delay, and rebidding costs, if applicable.

9.17.25

Date

Leo J. Swayze
(Signature of Authorized Representative)

State of FLORIDA
County of MIAMI-DADE

Personally Appeared Before Me, the undersigned authority, LEO J. SWAYZE who, being personally know or having produced his/her signature in the space provided above on this 17 day of September 2025.



Ledilix Puente
Comm.: HH284339
Expires: July 5, 2026
Notary Public - State of Florida

[Signature]

Signature, Notary Public

Commission Expires

Stamp/Seal:

**AFFIDAVIT ATTESTING TO NONCOERCIVE CONDUCT
FOR LABOR OR SERVICES**

Entity/Vendor Name: HYDROLOGIC ASSOCIATES USA, INC.

Vendor FEIN: 65-0059253

Vendor's Authorized Representative: LEO J. SWAYZE, VICE PRESIDENT
(Name and Title)

Address: 10406 SW 186TH TERRACE

City: MIAMI State: FLORIDA Zip: 33157

Phone Number: (305) 252-7118

Email Address: lswayze@haimiami.com jmillier@haimiami.com

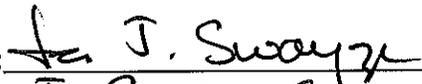
As a nongovernmental entity executing, renewing, or extending a contract with a government entity, Vendor is required to provide an affidavit under penalty of perjury attesting that Vendor does not use coercion for labor or services in accordance with Section 787.06, Florida Statutes.

As defined in Section 787.06(2)(a), coercion means:

1. Using or threatening to use physical force against any person;
2. Restraining, isolating, or confining or threatening to restrain, isolate, or confine any person without lawful authority and against her or his will;
3. Using lending or other credit methods to establish a debt by any person when labor or services are pledged as a security for the debt, if the value of the labor or services as reasonably assessed is not applied toward the liquidation of the debt, the length and nature of the labor or service are not respectively limited and defined;
4. Destroying, concealing, removing, confiscating, withholding, or possessing any actual or purported passport, visa, or other immigration document, or any other actual or purported government identification document, of any person;
5. Causing or threatening to cause financial harm to any person;
6. Enticing or luring any person by fraud or deceit; or
7. Providing a controlled substance as outlined in Schedule I or Schedule II of Section 893.03 to any person for the purpose of exploitation of that person.

As a person authorized to sign on behalf of Vendor, I certify under penalties of perjury that Vendor does not use coercion for labor or services in accordance with Section 787.06. Additionally, Vendor has reviewed Section 787.06, Florida Statutes, and agrees to abide by same.

Certified By: LEO J. SWAYZE, VICE PRESIDENT, who is authorized to sign on behalf of the above referenced company.

Authorized Signature: 
Print Name: LEO J. SWAYZE

Title: _____

**VENDOR CERTIFICATION REGARDING
SCRUTINIZED COMPANIES LISTS**

Respondent Vendor Name: HYDROLOGIC ASSOCIATES USA, INC.
Vendor FEIN: 65-0059253
Vendor's Authorized Representative Name and Title: LEO J. SWAYZE, VICE PRESIDENT
Address: 10406 SW 186TH TERRACE
City: MIAMI State: FLORIDA Zip: 33157
Phone Number: (305) 252-7118
Email Address: lswayze@haimiami.com jmillier@haimiami.com

Section 287.135(2)(a), Florida Statutes, prohibits a company from bidding on, submitting a proposal for, or entering into or renewing a contract for goods or services of any amount if, at the time of contracting or renewal, the company is on the Scrutinized Companies that Boycott Israel List, created pursuant to section 215.4725, Florida Statutes, or is engaged in a boycott of Israel. Section 287.135(2)(b), Florida Statutes, further prohibits a company from bidding on, submitting a proposal for, or entering into or renewing a contract for goods or services over one million dollars (\$1,000,000) if, at the time of contracting or renewal, the company is on either the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, both created pursuant to section 215.473, Florida Statutes, or the company is engaged in business operations in Cuba or Syria.

As the person authorized to sign on behalf of Respondent, I hereby certify that the company identified above in the section entitled "Respondent Vendor Name" is not listed on either the Scrutinized Companies that Boycott Israel List, Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List I understand that pursuant to section 287.135, Florida Statutes, the submission of a false certification may subject such company to civil penalties, attorney's fees, and/or costs and termination of the contract at the option of the awarding governmental entity.

Certified By: LEO J. SWAYZE V.P.
Print Name *Print Title*
who is authorized to sign on behalf of the above referenced company.
Authorized Signature: Leo J. Swayze

END OF SECTION 8

2025 FLORIDA PROFIT CORPORATION ANNUAL REPORT

DOCUMENT# K28029

Entity Name: HYDROLOGIC ASSOCIATES U.S.A., INC.

Current Principal Place of Business:

10406 S.W. 186 TERRACE
MIAMI, FL 33157

Current Mailing Address:

10406 SW 186 TERRACE
MIAMI, FL 33157 US

FEI Number: 65-0059253

Certificate of Status Desired: Yes

Name and Address of Current Registered Agent:

MILLER, JAMES T
10406 SW 186 TERRACE
MIAMI, FL 33157 US

The above named entity submits this statement for the purpose of changing its registered office or registered agent, or both, in the State of Florida.

SIGNATURE: JAMES T. MILLER

03/17/2025

Electronic Signature of Registered Agent

Date

Officer/Director Detail :

Title PD
Name MILLER, JAMES T
Address 12700 SW 70 AVE
City-State-Zip: MIAMI FL 33156

Title STD
Name MILLER, THEODORE M
Address 12870 SW 101 AVE
City-State-Zip: MIAMI FL 33176

Title VPD
Name SWAYZE, LEO JIII
Address 9655 SW 99 STREET
City-State-Zip: MIAMI FL 33176

I hereby certify that the information indicated on this report or supplemental report is true and accurate and that my electronic signature shall have the same legal effect as if made under oath; that I am an officer or director of the corporation or the receiver or trustee empowered to execute this report as required by Chapter 607, Florida Statutes; and that my name appears above, or on an attachment with all other like empowered.

SIGNATURE: JAMES T. MILLER

PRESIDENT

03/17/2025

Electronic Signature of Signing Officer/Director Detail

Date



[Department of State](#) / [Division of Corporations](#) / [Search Records](#) / [Search by Entity Name](#) /

Detail by Entity Name

Florida Profit Corporation
HYDROLOGIC ASSOCIATES U.S.A., INC.

Filing Information

Document Number K28029
FEI/EIN Number 65-0059253
Date Filed 07/05/1988
State FL
Status ACTIVE

Principal Address

10406 S.W. 186 Terrace
MIAMI, FL 33157

Changed: 02/18/2013

Mailing Address

10406 SW 186 Terrace
MIAMI, FL 33157

Changed: 04/07/2015

Registered Agent Name & Address

Miller, James T
10406 SW 186 Terrace
MIAMI, FL 33157

Name Changed: 04/13/2021

Address Changed: 04/07/2015

Officer/Director Detail

Name & Address

Title PD

MILLER, JAMES T
12700 SW 70 AVE
MIAMI, FL 33156

Title STD

MILLER, THEODORE M
12870 SW 101 AVE
MIAMI, FL 33176

Title VPD

SWAYZE, LEO JIII
9655 SW 99 STREET
MIAMI, FL 33176

Annual Reports

Report Year	Filed Date
2023	03/08/2023
2024	03/06/2024
2025	03/17/2025

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