

ALEXIS VENTO

Education

MS – Environmental Engineering, Florida International University, 2021

BS - Environmental Engineering, Florida International University, 2019

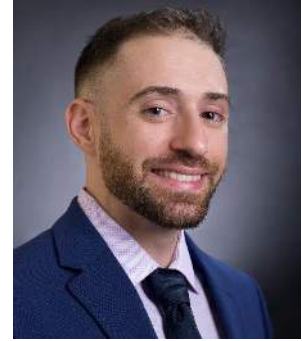
Professional Affiliations

American Academy of Environmental Engineers and Scientist

South Florida Association of Environmental Professionals

Association of Cuban-American Engineers

Department of Energy Fellowship Alumni



Professional Experience

Alexis Vento coordinates and performs site assessment activities, including groundwater sampling and monitoring, gas sampling, solid waste management, and soil sampling and monitoring. His experience includes gas management systems, landfill redevelopment, gas management system construction oversight, groundwater monitoring and remediation systems, and soil assessment. Projects include agricultural and landfill redevelopment, solid waste assessment, groundwater remediation operation and maintenance, well installation, and preparing reports including tabular and graphical representation of environmental data. Notable projects that Mr. Vento has been involved in are described below:

Commercial/Industrial Site Redevelopment Projects

Bridge Point, Doral, Florida. Assistant Project Manager. The project scope includes conducting drainage and soils assessment to identify “clean” areas for stormwater/exfiltration, potential site for proposed “bioswale” to test for beneficial reuse for the site including the below water table for lake areas.

- Prepares technical reports for pursuing a No further Action with Conditions (NFAC) with DERM
- Responsible for coordination of groundwater sampling activities, monitoring well installation, and soil and muck sampling activities.
- Work with project director, project manager, and client on data interpretation and logistics
- Conducted oversight on soil sampling in wetland environments using amphibious “mudbug” drilling rig

Countyline Corporate Park, Miami, Florida. Assistant Project Manager. The project scope redevelopment of a 500-acre former Construction and Demolition (C&D) landfill into an industrial and commercial park. The project requires management of contaminated groundwater, stormwater and methane gas generated at the site. The greatest cost-saving solution involved is an integrated stormwater-groundwater remediation system. The system effectively cuts off potential migration of ammonia-impacted groundwater offsite, thereby reducing future risks. Mr. Vento has been involved in keeping the project in compliance with the regulatory approvals.

- Prepare technical reports including Class V Monitoring reports, Frequency Modification, and Remedial action plan.
- Coordinate groundwater sampling activities and monitoring well.
- Coordinate with Laboratory for sampling activities and reports.
- Quality assurance and control of operations and maintenance logs for extraction well and remediation system
- Tabulation and quality control of groundwater monthly withdrawal of rendition system
- Inspection and coordination of construction activities and ensuring compliance with drawings.
- Conduct soil and groundwater sampling activities, well installation oversight using sonic rig, and nested well installations

Bridge Point Commercial Center (West), Miami Gardens, Florida. Quality Construction Oversight.

- Construction oversight of methane gas management systems
- Conduct oversight on well installation, depth to water survey, and groundwater sampling

SoleMia, North Miami, Florida. Gas sampling and monitoring. Coordinate gas sampling plan for baseline and quarterly sampling in accordance with building drawings

Sustainable Materials Management

Monarch Landfill, Broward, Florida. Assistant manager and sorter

- Coordinate with seasonal team for waste stream study. This includes inventory of equipment, health and safety, review of waste categories, and managing of temporary workers.
- Identification and sorting of over 50 different commercial and residential waste categories
- Identification and sorting of over 30 different recyclables
- Sorting of 200 lb. samples, 10 per day, for 3 to 5 days.
- Weighing each category for percentage of total weight (1 ton)

Wastewater Management

Customs Veterinary, Miami, Florida. Wastewater Sampling

Schwarz Partners, Miami, Florida. Wastewater Sampling

- Coordinated with Client for a facility walkthrough and assisted in assessment for wastewater sampling method
- Conducted sampling using a wastewater compositor setup for overnight and time interval sampling 24-hrs sampling

Project Experience prior to joining SCS

**Department of Energy (DOE) Science and Technology Workforce Development Program
Applied Research Center – Engineering Center FIU, Miami, Florida. DOE Fellow/Environmental
Research Assistant**

- Studied the behavior of actinides and lanthanides in the presence of organic ligands in WIPP-relevant conditions
- Characterized geochemical fate of radioactive contaminants with Dolomite in the presence and absence of EDTA with kinetic batch experiments
- Exhibited and presented work at various conferences including Waste Management 2020-2021
- Thesis “Dolomite Dissolution and Contaminant Adsorption in the Presence of EDTA within Different Ionic Strength Solutions relevant to WIPP”

**Sandia National Laboratory – Carlsbad, New Mexico. Field and Lab Coordinator – WIPP Program -
Internship**

- Lead on developing a new method for Well Density Characterization of well H6-bR
- Equipment calibration and deployment: multi-parameter reader, Snap Sampler tool, Pump-pressure system
- Density Measurements using scales and hydrometers in laboratory
- Developed a method for ICP-MS and ran trace metal analysis
- Excel worksheets for formulating results and plotting data
- Internship report found here <https://fellows.fiu.edu/wp-content/uploads/2020/04/Vento-2019-Summer-Internship-Tech-Report.pdf>

**Water and Sewer Department – Medley, Florida Equipment Technical Assistant and Data Analyst–
Leak Detection Program – Internship**

- Transfer data from logger field equipment
- Maintenance and calibration of loggers and responders
- Analyzing and correlation of the fixed network database
- Data entry for water accountability report on Excel
- Leak classification of city sewer infrastructure and mapping techniques