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Engineering | Environment | Earth

Gregory L. Aumann

Project Geologist

Professional Experience

Mr. Aumann has over 20 years of field and project management experience completing assessment-related activities at bulk fuel facilities, retail stations, industrial and commercial facilities and properties impacted by petroleum constituents, chlorinated solvents, pesticides and metals. He has provided supervisory and geological support for soil, sediment, groundwater and surface water sampling conducted as part of large-scale assessments, as well as construction oversight, for federal and state funded, privately funded and consent order sites for multiple Fortune 500 clients. Mr. Aumann takes a leadership role in engaging client and regulatory interactions onsite, facilitating a problem-solving team effort leading to a safe, collaborative and effective site cleanup effort.

Representative Project Experience

FDOT – US Hwy 27 From Highlands County Line to SR60 PD&E Study, Polk County; FPID: 419243-1-22-01: Mr. Aumann has conducted multiple wildlife surveys for FDOT PD&E projects in coordination with FWS. In 2014, he worked closely with the wetland/ecological team for four consecutive months assisting with multiple aviary surveys (caracara, scrub jay), gopher tortoise surveys, in addition to the largest sand skink survey ever conducted for FDOT along a 20-mile section of US 27.

United States Coast Guard Station, Fort Myers Beach, Lee County: Lead field Geologist for removal of aboveground storage tank (AST) and replacement activities. Provided oversight for all field activities, coordinated the field schedule, and completed all report documents. The scope of work included the removal, cleaning and proper disposal of a 150-gallon diesel AST providing fuel for the onsite generator. Scheduling was conducted during non-hurricane season in conjunction with United States Coast Guard (USCG) personnel. A 100 KW generator was rented and staged onsite to provide backup power in case of emergency. The existing tank slab was removed and properly disposed. A crane was utilized to set the new 250-gallon Convault AST. The scope of work also included installation of

EDUCATION:

- *BS | Geology | Florida State University, Tallahassee, FL*
- *Minor | Mathematics and Chemistry| Florida State University, Tallahassee, FL*

CERTIFICATIONS | REGISTRATIONS:

- *AECOM Project Manager Certification*
- *Transportation Worker Identification Credential (TWIC)*
- *Stormwater and Erosion Control Inspector*

TRAINING:

- *40-Hour OSHA Health and Safety Training, Refresher Training (annually)*
- *8-Hour OSHA Site Supervisor Training*
- *American Petroleum Institute (API) Service Station Contractor Safety Key*
- *FDEP Field Sampling Training Course-Groundwater, Surface Water, Wastewater, Sediment*
- *Duke Energy Powersafe Training*
- *Amtrak Safety Training*
- *BP Safety Passport Training*
- *AECOM Phase I ESA Training*
- *BP MITT Training*
- *Smith Defense Driving Course*
- *AECOM Defensive Driving Course*

AFFILIATIONS:

- *Florida Association of Environmental Professionals (Tampa Bay Chapter)*
- *Florida Groundwater Association (FGWA)*
- *Association of Engineering Geologists (AEG)*
- *Society of American Military Engineers (SAME) Sustaining Member, Tampa Bay and Jacksonville Posts*

all components, welding of all associated piping, and startup and load testing. All site activities were conducted within limited spacing in close proximity to the existing building and seawall.

Naval Sea Systems Station Command Panama City (NAVSEA), Bay County, Florida: Mr. Aumann was lead field geologist for the Coastal System Station Naval Warfare Facility in Panama City, Florida for 3 years. Mr. Aumann performed all groundwater and soil sampling activities at the base which was comprised of two AOCs. Mr. Aumann also performed free-product recovery in the wells at the site.

Naval Air Station Whiting Field (NAS Whiting Field), Milton, Santa Rosa County, Florida: Mr. Aumann performed gas analyzing and sampling for a biosparging system, one of only several systems of its kind in the state, and associated groundwater sampling and assessment activities. Mr. Aumann coordinated all base access and project site authorization with project managers in Richmond, VA, Naval Engineering and base personnel.

21st Avenue Remediation Project, Tampa, Hillsborough County: NovelE is a sub-consultant on this four-year contract with Hillsborough Area Regional Transit (HART). Liza Grudin, PE, President of NovelE, serves as the Engineer-of-Record, Remediation Lead and Sustainability Lead for the contract providing management and completion of comprehensive environmental assessment and remediation activities. The contract, valued at over $1.7 million, is the largest procured by HART for these services. Mr. Aumann conducted the quarterly visual sampling required under the facilities Multi-Sector Generic Permit (MSGP) Facility ID #FLR05H905-001 under the FDEP National Pollutant Discharge Elimination System (NPDES) and in accordance with the Stormwater Pollution Prevention Plan (SWPPP). Data from the onsite rain gauge is evaluated on an ongoing basis to determine qualifying events, then samples are collected within 30 minutes of the precipitation. Samples were collected from two discharge points as required by the permit. Samples were analyzed visually for color, odor, clarity, floating solids, settled solids, suspended solids, foam, and oil sheen.

Quail Hollow/The Grove Project, Wesley Chapel, Pasco County: Mr. Aumann was the lead field geologist for twelve years on the former Quail Hollow Dry Cleaners for CREA. Mr. Aumann served as the lead field geologist for the project duration, from the initial discovery of the solvent impacts in a Floridan Aquifer well onsite, providing comprehensive environmental assessment and remediation activities of the thirty-acre site contaminated with chlorinated solvents. The project scope included shallow, intermediate and Floridan monitoring well installation of over eighty (80) monitoring wells and associated sampling during assessment and natural attenuation monitoring. Boundary wells at the adjacent shopping plaza were sampled on an ongoing basis to evaluate the potential for migration.

Fruitville Brownfields Area, L3 Communication/DMB-Sarasota I, RCRA, Sarasota, Sarasota County: Mr. Aumann was the lead field Geologist for this RCRA site for over 4 years and conducted operations, maintenance, and troubleshooting evaluations on groundwater and soil remediation systems for a Brownfields site in Sarasota County contaminated with chlorinated solvents. The two dual phase remediation systems were designed with a packed stripping tower and low-profile air stripper, respectively,

to remediate tetrachloroethylene (PCE), trichloroethene (TCE), 1,2-dichloroethylene (1,2-DCE), and vinyl chloride. Mr. Aumann conducted groundwater sampling activities inside the active commercial building on a quarterly basis. He was responsible for the installation of over 30 of the site's wells, which were installed into the surficial, intermediate and Floridan aquifers. 1,4-dioxane concentrations were discovered in the monitoring wells inside the building during the remediation and a separate assessment was performed to establish the extent of the 1,4-dioxane impacts distinct from the solvent impacted area of concern. Mr. Aumann also completed multiple arsenic investigations at the western side of the portion culminating in the excavation and removal of over 600 cubic yards of arsenic-impacted soils and sediments. The Brownfields site is currently developed with a Lowe's Plaza and Harley Davidson retail establishment.

City of Tallahassee Brownsfield, Gaines Street Corridor, Leon County In 1999, Mr. Aumann was the lead field Geologist responsible for the installation and assessment of over twenty monitoring wells installed into shallow, intermediate and deep aquifers. Many of the well locations were installed as three-well clusters to assess the aquifers in one location. Mr. Aumann was responsible for all access to the proposed well locations. Right of way permit applications were submitted with the City for many of the wells and MOT was required on monitoring wells installed in the ROW. The other wells required Site Access Agreements with individual business owners. The assessment for the City included the three-source comingled plume known as the "Spur cluster" at the intersection of Gaines and Macomb Street.

Port of Tampa, BP Terminal, Tampa, Hillsborough County: As Southwest Area Senior Field Geologist, Mr. Aumann was the field lead for emergency response, source removal and assessment activities for two petroleum releases at the active BP Terminal. Initial remedial actions included soil excavation and vacuum extraction of soils and product. Both discharges were granted a No Further Action without Conditions status once site assessment and additional excavation of petroleum-impacted soils was completed. Regulatory review conducted by the Hillsborough County Environmental Protection Commission (EPC) revealed two ineligible discharges with the potential for Consent Order issues at the terminal facility. It was agreed that upon completion of passive free product recovery, one year of monitoring would be conducted to evaluate the site under Level II Risk Management Options. After considerable regulatory negotiations, the second ineligible discharge at the BP Terminal was granted No Further Assessment status based upon a commingled plume with an eligible discharge.

Former BP Terminal, Tampa, Hillsborough County: Mr. Aumann performed a Site Assessment and Inspection for Atlantic Richfield (BP Oil Company) of the former terminal closure at Port Tampa. He assisted with general cleanup of the facility in conjunction with evaluation of divestment options. Remote client staff were unaware of the property conditions. Mr. Aumann prepared detailed reports allowing for the client to make informed property management decisions.

Former Private Golf Course (razed), Fort Lauderdale, Broward County: Mr. Aumann was the site safety office and field team member responsible for assisting the Boca Raton team with assessment and monitoring of this approximate 18-acre former golf course with arsenic-impacted soil. Comprehensive investigations for pesticides, herbicides and associated arsenics were conducted to assess soil and groundwater horizontally

and vertically. He assisted in coordinating access to the adjacent property and easements, provided oversight for the soil sampling effort which was comprised of over 200 mapped polygons containing 5 composite soil sampling locations each. The property has since been rehabilitated and developed residential.

Grand Isles I & II, Punta Gorda, Lee County: Mr. Aumann was the Project Manager for the discharge reporting, assessment and site closure activities related to the discharge of diesel fuel from an onsite 1,000-gallon diesel Convault aboveground storage tank (AST) associated with the fuel system for a generator. Major stakeholders included Prosperity Point Gateway Management Board of Directors and personnel, Lee County, FDEP South District, and Charlotte County. Regulatory interpretation was required to determine the agency responsible for direction of cleanup activities as neither Lee, nor Charlotte County sought involvement in the discharge reporting or closure. The initial evaluation projected the removal of one 55-gallon drum of petroleum-impacted soils, which soon escalated to the excavation and proper transportation and disposal of 101.41 tons of soils and vacuum extraction of 510 gallons of light non-aqueous phase liquids (LNAPL). Demolition activities included the removal of the fuel room wall, diesel AST and a 6' by 12' hole in the fuel room floor. Confirmatory soil and groundwater analysis was below the respective cleanup target levels and the site was issued a Site Rehabilitation Completion Order without comments or the need for further monitoring.

Phase I and Phase II Environmental Site Assessments, Multiple sites: Mr. Aumann has performed numerous Phase I and Phase II ESAs of industrial manufacturing and commercial parcels, residential developments, vacant parcels, and undeveloped hunting and farming parcels. ESAs were conducted in general conformance with the current ASTM Standard E1527 and commercial lending guidelines. Major clients include government agencies, financial institutions, insurance companies, law firms, property management companies, and a variety of industrial and commercial companies. Limited and full scope Phase I and/or Phase II ESAs were conducted in Pinellas, Sarasota, Manatee, Osceola, Orange, Bay, Ft. Walton, Seminole, Lee and Polk counties. Mr. Aumann was primary investigator for an ESA performed on a 6,000-acre parcel in Pomona Park, in Putnam County. Mr., Aumann has performed ESAs for greater than one thousand-acre properties in Bay, Walton, Putnam, Highlands and Glades Counties for the Florida Division of State Lands.

Sarasota Commons, Touch of Class Dry Cleaners, Sarasota, Sarasota County: From 2010 through 2017, Mr. Aumann was the field Geologist for this active dry-cleaning facility. He provided oversight of one of the well installations to delineate the lateral and vertical extent of volatile organic halogens (VOHs) in groundwater beneath this dry-cleaning site and surrounding suites. Mr. Aumann oversaw the installation of the small single-phase vapor extraction system, composed of four vapor extraction wells inside the interior of the active store, performed construction of the Vapor Extraction System, conducted O&M, provided oversight for monitor well installation and abandonment activities, and compiled reports documenting field activities for regulatory submittal.

Petroleum Stations, Multiple sites: From 1999 to 2011, Mr. Aumann provided support to the BP contract as Staff Geologist, Project Geologist, and Senior Project Geologist for the Southwest Florida Division of BP. Mr.

Aumann was responsible for functional and project management of BP-owned and divested properties where BP retained their environmental liability. Mr. Aumann was a member of the team of staff which worked on over one hundred sites during this timeframe. A few sites outlining the scope and breadth of BP work are provided below for reference:

Former Amoco 2093, Sanford, Seminole County: Mr. Aumann was the Field Geologist/Oversight responsible for implementation, permitting, construction oversight, and O&M for environmental petroleum remediation at this Former Amoco site. Due to offsite impacts, angled AS wells were installed under the roadway, remediation points were required in the median of Lake Mary Boulevard, and remediation points and angled AS wells were installed on an offsite property utilized as a shopping plaza. Two remediation systems utilizing AS and SVE were installed connecting the remediation points. An existing 8-inch conduit was located in the field and utilized to provide a tie in for the median remediation wells. Due to the high level of traffic in the roadway, three weeks of construction was conducted at night with lane closures and appropriate MOT. Mr. Aumann was the lead oversight for all night work and worked with staff and subcontractors to maintain a high level of safety and address fatigue concerns associated with prolonged night work. All Florida Department of Transportation (FDOT) requirements were completed successfully, including implementation of the MOT, compaction testing of soils and replacement of the entire median, neighboring sidewalk and driveway. Mr. Aumann worked closely with the licensed General Contractor, Engineer of Record, Seminole County, the responsible party, BP, and each of the site owners to minimize impacts to vehicular and pedestrian traffic on the CVS Pharmacy property, within the FDOT right-of-way, and on the adjacent shopping center parking lot. During construction, a high-water table was encountered on the offsite property. Since this condition was not anticipated, construction activities were modified to account for floating piping and health and safety issues with the standing water. A remediation trailer capable of handling the additional water was located, exchanged for the originally slated equipment, and mobilized to the site. SVE wells were modified to dual phase wells in the field with the approval of Seminole County. A NPDES permit was obtained and the effluent was routed to a storm sewer with the associated and required tie-in.

City of Tallahassee FEMA Grant – Retention Pond Assessment: Mr. Aumann was one of a team of ten environmental field personnel in a contract with the City of Tallassee for the purpose of a FEMA grant application as a result of Tropical Storm Allison. The storm pushed debris and massive sediment loads into the ponds maintained by the City, 210 ponds in total, debilitating their functionality. Mr. Aumann assessed a total of 26 ponds.

Former BP 24573, LaBelle, Hendry County: Mr. Aumann provided field oversight and functioned as Project Geologist at this site. He provided oversight for the installation of soil boring and monitor wells for horizontal and vertical assessment of petroleum impacts. He also provided oversight for the system design, drilling of remediation wells, and construction activities. When the effectiveness of the dual phase system diminished, Mr. Aumann oversaw the installation of angled AS wells in the right-of-way to address impacts under State Road 80 that remained after historical road widening. Site cleanup progressed smoothly from this point allowing for issuance of a Site Rehabilitation Completion Order (SRCO).

Leon County Solid Waste Authority, Leon County Landfill, Tallahassee, Florida: Mr. Aumann was the lead field staff and sampler for the Leon County Division of Solid Waste Contract. Duties included oversight of well installations, including triple-cased Floridan aquifer screened wells. Mr. Aumann also fulfilled the groundwater and surface water sampling requirements for the contract per the permit and coordinated with the County officials and agents to facilitate the project.

WaWa No. 5258, Bradenton, Manatee County, Florida: Mr. Aumann completed the Notice of Dewatering / Dewatering Plan for the installation of underground storage tanks (USTs) during construction of this facility. Dewatering was proposed for the duration of the UST installation to lower the water table and facilitate the installation. A series of well points were proposed for installation around the perimeter of the UST area, then groundwater was removed using a suction pump that generates vacuum at the well points. Dewatering activities were anticipated to occur for a maximum of seven days. The anticipated discharge rate was 30 to 40 gallons per minute (gpm) or 0.06 million gallons per day (MGD) with a maximum anticipated discharge rate of 60 gpm (0.09 MGD), based on typical performance of the dewatering system. Water discharge was proposed as surface flow to the valley curbing along the southbound right-of-way (ROW) of Upper Manatee River Road located on the east side of the development, leading along the valley curb and to the stormwater curb inlet located along State Road 64 directly south of the site as indicated on the attached. The dewatering plan included details of the well points, turbidity control, fail safes, and flow measurement.

Ross Plaza, Tampa, Hillsborough County, Florida: Completed operation and maintenance (O&M) of depressurization system at this shopping plaza. Eight (8) tenant spaces were accessed to collect operational data and photo documentation. During each site visit, the condition of the vacuum gauges is noted. A tenant inventory is collected and monitored as part of the management of this system to evaluate risk and potential exposure.

Keystone Civic Association, Odessa, Pasco County, Florida: NovelEsolutions, Inc. (NovelE) was contracted to the Keystone Civic Association (KCI) for environmental consulting services. Greg Aumann, Project Geologist, served as the primary client contact providing research and QA/QC for the contract. NovelE was tasked with reviewing the laboratory analytical report for soil and surface water samples collected by Florida Department of Environmental Protection (FDEP) personnel based on shooting range operations on a neighboring property. Sampling activities were performed by FDEP personnel in February 2018 and the samples collected were submitted and analyzed by FDEP's Central Laboratory located in Tallahassee, Florida. NovelE was authorized by the client, the President of the Keystone Civic Association, to perform interpretation and analysis of the provided chemical analytical report and to submit to the client a Letter Report Summary of the sample collection and analysis.