

Resumé:

GREGORY WHITE, PG

Mr. White is a Project Manager with EHS Support Inc. and has over 7 years of environmental consulting experience. Experience includes project management under a variety of regulatory frameworks including the RCRA Corrective Action Program in U.S. EPA Region 5 and Region 9 and state voluntary and Superfund programs in California, Illinois, Indiana, Michigan, Minnesota, and Wisconsin.

Technical experience includes conceptual site model development, hydrogeologic data interpretation, remedy design and implementation, and various workplan, report, and technical submittal preparation.

Field experience includes investigation and remedial action program management and execution; soil classification and drilling oversight of HSA, Geoprobe®, air and mud rotary, CPT, and sonic drilling methods; soil, groundwater, soil vapor, and NAPL sampling; aquifer pump and slug testing; LNAPL transmissivity testing; surveying; remedy construction and system operation and maintenance; geophysical surveying; and construction management and excavation oversight.

Education

- BS, Geology with Honors, University of Illinois, 2003

Registrations and Certifications

- Licensed Professional Geologist:
 - California No. 8415
 - Illinois No. 196.001259
 - Indiana No. IN2287
- OSHA HAZWOPER 40-hour Safety Training and current 8-hour refresher
- OSHA HAZWOPER 8-hour Site Supervisor Training
- OSHA Competent Person Training for Trenching & Excavation – 29 CFR 1926, Subpart P
- OSHA Construction Worker Training
- Loss Prevention System – Behavior Based Safety Training
- Smith System Defensive Driving Course
- E-RailSafe Railroad Worker Safety Training
- American Heart Association First Aid, CPR & AED Certified
- Transportation Worker Identification Credential

Areas of Expertise

- Environmental Site Assessment
- Geologic and Hydrogeologic Investigation
- LNAPL and DNAPL Investigation
- RCRA Corrective Action Program and 2020 Vision
- Conceptual Site Model Development
- Illinois Tiered Approach to Corrective Action Objectives (Title 35, Part 742)

Key Projects

Lead Geologist, LNAPL Technical Advisor, and Assistant Project Manager for various LNAPL and groundwater projects at an active petroleum refinery in IN (2010). Mr. White's primary office roles were to evaluate existing data and create Conceptual Site Models (CSM) to identify data gaps, focus future investigation efforts, provide technical guidance for the various ongoing projects at the refinery, and to develop work plans and budgets to execute necessary follow-on work. Mr. White worked closely with project managers and client technical experts to standardize CSM and LNAPL CSM formats across the various projects to provide the client and project team with concise information in an easily accessible electronic format that was designed to be

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updated as the project progresses. Mr. White also provided guidance on the development of a closure strategy for a RCRA Post Closure permitted landfill through the RCRA Corrective Action Program. Additional efforts included leading a review of historical documentation, preparing an addendum to the Current Conditions Report, and presenting RCRA 2020 Vision information to the client with the intent on opening a dialogue with the Indiana Department of Environmental Management on streamlining the traditional RCRA Correction Action process.

Project Manager, Lead Geologist, Site Manager and Safety Officer, and Task Manager for a DNAPL investigation at a chemical distribution facility in Illinois (summer 2007-present). Mr. White's field responsibilities included leading investigation efforts for a RCRA Facility Investigation (RFI). The field effort included installing over 200 soil borings and 50 monitoring wells, performing various down-hole geophysical surveys and aquifer tests to evaluate DNAPL impacts in both unconsolidated and fractured bedrock water-bearing zones. Additional field responsibilities included overseeing the rehabilitation of a pump and treat system installed in 1986. After rehab was complete, the system's pumping rate increased by 160%. Office responsibilities included analyzing RFI data and working with the groundwater modeling team to update the Conceptual Site Model. Based on RFI results, the project team was able to establish that groundwater was not discharging to the nearby river, but was instead flowing beneath the river and discharging to a sanitary canal. Mr. White also prepared multiple sections of the RFI Report regarding geology, hydrogeology, groundwater contaminant distribution, and intrinsic bioattenuation. After RFI approval, Mr. White prepared large portions of the Final Corrective Measures Proposal based on RFI data and current interim remedial efforts. As

project manager, Mr. White lead meetings with the client and U.S. EPA to finalized the FCMP and prepare the Statement of Basis.

Lead Geologist and Task Manager for CPT/ROST and Direct Push boring advancement for a LNAPL mobility and recoverability perimeter investigation at an active refinery in CA (fall 2006-spring 2007). Pre-investigation activities included preparing cost estimates for investigation activities; scheduling subcontractors and preparing work orders; obtaining necessary permits; developing and implementing an utility clearance program; providing technical guidance for LNAPL sampling, well redevelopment, and corresponding LNAPL baildown testing; and analyzing historical LNAPL and groundwater levels throughout various areas of the refinery to determine target CPT/ROST screening intervals for the presence of LNAPL. The investigation involved advancing approximately 45 CPT/ROST and 30 DPT borings over a two-month span. Responsibilities onsite included managing field staff and coordinating investigation activities to ensure the project schedule was maintained; overseeing CPT/ROST activities; logging downgradient Direct Push soil borings according to the USCS specifications and Munsell color classifications; conducting field tests for grain size distribution, plasticity, and soil strength; screening soils for headspace using a PID and florescence using a UV light; collecting samples from Direct Push borings for chemical analyses from coarse-grained zones based on field observations and upgradient CPT/ROST data; and correlating CPT data and ROST florescence information to determine depth intervals for field screening and core collection at co-located and downgradient Direct Push boring locations. Post-investigation activities involved interpreting UV photographs of the collected soil cores for areas of florescence and selecting subsets of these cores for additional grain size, pore saturation, and

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chemical analyses based on UV fluorescence, white light photographs, and co-located CPT/ROST data; and interpreting field data to assist in the development of cross sections that integrate existing well and boring log information, current LNAPL levels, CPT/ROST data, and Direct Push data. Management activities included preparing cost estimates and schedules and developing a proposal with project managers to pursue follow-up work.

Lead Geologist, Field Manager, and Site Safety Officer, unleaded gasoline pipeline release site in CA (fall 2005-spring 2007). Activities onsite included logging soils according to USCS specifications and conducting field tests for grain size distribution, plasticity, and soil strength at approximately 30 boring locations; installing nine groundwater monitoring wells using HSA, mud rotary, air rotary, and sonic drilling methods based on the analysis of existing boring logs, required well depth, and the associated soil logging/rock coring needs; installing nine soil vapor extraction wells based on boring logs and corresponding cross section data; overseeing soil vapor extraction (SVE) system installation and maintenance activities; conducting slug testing on groundwater wells to determine hydraulic conductivity within various water-bearing zones; conducting a GORE™ module soil-gas survey to aid in monitoring well placement; coordinating waste disposal activities; and conducting daily safety meetings. Office responsibilities included analyzing lithologic data obtained from numerous soil borings to identify the extent of a gravelly zone that acts as a preferential pathway for groundwater and associated contaminant transport; analyzing slug test information, fluid levels, hydraulic head differences, and geochemical data to determine that two separate water-bearing zones are present in the project area; researching the use of seismic refraction and electric resistivity geophysical methods to more accurately map the irregular siltstone

bedrock surface and discontinuous unconfined water-bearing zone as tools for optimally placing future groundwater monitoring wells; writing various technical reports, proposals, work plans, and letters to California agencies; assisting in remediation system design and establishing clean-up objectives; characterizing geologic and hydrogeologic conditions at the site based on regional and site specific information; obtaining proper permitting for site activities; preparing subcontracts and work orders for all on-site activities; reviewing geologic data and relevant literature to prepare various investigation reports, workplans, groundwater monitoring reports, and geologic summaries; generating numerous cross-sections based on geologic and hydrogeologic data; correlating published geologic information with site-specific lithologic, hydrogeologic, and geochemical data to determine that an unconformity observed at the site was the Calaveras Fault zone; conducting extensive research to explore the use of horizontal drilling techniques to install soil vapor extraction wells in areas inaccessible to conventional rigs; leading various technical discussions and group meetings with other URS geologists in regards to the site's complex geologic and hydrogeologic conditions; presenting project work at departmental meetings and the 2007 URS Oakland Office Technical Symposium.

Geologist, and Site Safety Officer active refinery in CA (fall 2005- spring 2007). Responsibilities at the crude oil refinery include overseeing the injection of Oxygen Release Compound (ORC®) and associated surveying activities; assembling, installing, removing, and conducting maintenance on ORC® socks placed in site monitoring wells; obtaining proper permits to work in the refinery; and conducting daily safety meetings in accordance with the LPS program. Office responsibilities include writing various technical reports and preparing the site HASP and various other

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safety related documents.

Geologist and Site Safety Officer, former aluminum manufacturing plant in IL (fall 2003-fall 2005). Responsibilities on-site included free-product delineation; well installation, development and abandonment; groundwater, free-product, and soil sampling; oversight of oil and soil removal activities; and specific gravity skimmer pumps (SPG) oil recovery system installation, maintenance, and monitoring. Office responsibilities include designing oil recovery systems, writing various technical reports and letters to Illinois EPA regarding site conditions, constructing related figures and tables, preparing subcontracts and work orders for all on-site activities, setting up site activities and lab analyses with subcontractors, and handling subcontractor invoices.

Field Manager and Site Safety Officer, former electronic plating facility in IL (fall 2003-fall 2005). Field responsibilities included measuring groundwater levels quarterly, collecting groundwater samples biannually, disassembling and sealing a piping discharge outlet for a groundwater treatment facility, and scheduling and overseeing the disposal of investigation-derived hazardous waste. Office responsibilities included constructing piezometric maps and calculating hydraulic gradient based on field data. In addition, Mr. White investigated a shift in the groundwater gradient from northwest to southwest in the vicinity of the site in early 2004. Investigation responsibilities included researching current and historical rainfall and nearby surface water discharge fluctuations, obtaining water well information from the Illinois State Water Survey (ISWS) for public and private wells near the site, interviewing a public works official regarding public wells, and conducting phone interviews with various area construction project managers regarding temporary dewatering wells emplaced near the site. Based on Mr. White's research, it was

determined that the shift in groundwater was due to operation of a newly installed municipal water supply well.

Data manager, former alloy and nuclear fuel element fabricating facility for the aircraft and space industry in NY (fall 2003- fall 2005). Responsibilities included consolidating and managing chemical and radiological field data for the site, and inspecting laboratory reports for typographical errors to maintain quality control standards.

Geologist, former Trinitrotoluene (TNT) manufacturing facility, IL (fall 2004). Field responsibilities included mapping former building imprints associated with TNT manufacturing processes and sampling soil for gross contamination of residual explosive chemical compounds.

Geologist, potential petroleum pipeline leak sites throughout WI, IL, and IN (spring 2005-fall 2005). Field activities included inspecting the integrity of submerged petroleum pipelines at various locations by overseeing the removal of overburden soils, characterizing the soils surrounding the pipeline by visual means, and using a photoionization detector (PID) to field test for the presence of volatile organic compounds. During April of 2005 Mr. White also oversaw the removal of impacted soils at a leak site along a petroleum pipeline, conducted confirmation sampling, and facilitated the disposal of impacted soils. Office responsibilities included preparing various reports and letters to state agencies regarding pipeline integrity inspections and corrective action activities associated with pipeline leaks.