

Environmental Related Project Experience

Description: *Brown Fields Program Phase II Environmental Site Assessment and Remediation*

Site: *Former Gasoline Service Station Site*

Location: *Indiana*

IES implemented all aspects according to “EPA Brown Fields Program” requirements. IES Defined the extent of petroleum contaminated soil and groundwater at the site. Drafted and implemented corrective action procedures and performed all work at the site. This former gasoline service station was located in a commercial/residential area. Soil contamination extended to a depth of 12 feet. A de-watering and treatment system was installed to clean up groundwater. A total of 5,300 cubic yards of petroleum-contaminated soil was excavated and disposed of. The site was backfilled. Successful remediation was accomplished and the site is pending development.

Description: *Storage Tank Facility De-Commissioning*

Site: *Former Fuel Storage Facility*

Location: *Indiana*

IES was contracted to de-commission and close a former fuel storage facility. A soil remediation plan was prepared and approved. IES cleaned and removed 16 aboveground storage tanks ranging in size from 5,000-30,000 gallons in capacity. Once all tanks were removed, the remediation plan was implemented and the site was backfilled and compacted.

Description: *Soil Remediation Project*

Site: *Former Military Facility*

Location: *Louisiana*

IES implemented an approved corrective action plan (CAP) to remove metal-contaminated soil from nine areas at a former military facility. All areas were located and defined according to GPS coordinates provided. All contaminated soil was excavated, loaded, transported, and disposed of. Clean up confirmation sampling was conducted. Successful remediation of soils was confirmed by analysis and the areas were backfilled and restored per CAP requirements. Project was completed on schedule and within budget estimates.

Environmental Related Project Experience

Description: Soil Remediation

Site: Rail Yard

Location: Illinois

Several utility poles, which provided overhead telephone and electrical service, were permanently relocated. Temporary railroad crossings were constructed prior to work to accommodate necessary truck traffic into the area. IES excavated over 6,000 cubic yards of diesel fuel impacted soil in and around live railroad tracks. The soil was hauled to a specified landfill for disposal. The area was then backfilled with structural fill and compacted to meet railroad specifications.

Description: Phase II Environmental Site Assessment and Remediation Plan

Site: Former Dry Cleaners

Location: Indiana

IES was contracted to define the extent of perchloroethylene (PCE) - contaminated soil and groundwater at a former dry cleaning facility. Numerous soil probes were advanced on-site and off-site to define the horizontal and vertical extent of PCE contamination. Groundwater monitoring wells were installed to assist in groundwater monitoring and to determine the hydraulic gradient for the Site. A soil and groundwater remediation plan was prepared and submitted as a bid document.

Description: Phase II Environmental Site Assessment and Corrective Action Plan

Site: Former Bus Garage Maintenance Facility

Location: Indiana

An active bus maintenance facility was ruined in a fire. Several USTs were removed and impacted soils were noted. IES was contracted to perform a Phase II ESA to determine the extent of diesel contaminated soil and groundwater.

Several subsurface investigations were performed to determine the full extent of impacted soil and groundwater. The soil and groundwater were impacted on-site and off-site with diesel fuel to a depth of 18 feet below grade surface. Free product was also detected and recovered over several months. IES performed the required investigations, reports and corrective action plan (CAP). Subsequently, IES performed the approved CAP, the corrective action completion report and filed for reimbursement. The corrective action involved installation of a 200 GPM dewatering system and the removal of over 6,100 cubic yards of contaminated soil.

Environmental Related Project Experience

Description: *Phase I Environmental Site Assessment*

Site: *Commercial Building*

Location: *Indiana*

A Phase I ESA was performed on a single-story commercial building using ASTM standards, which included a review of federal, state, and local regulatory records, and site reconnaissance. Continuous air sampling was performed to determine radon levels. Random samples were also collected and tested for asbestos and lead-based paint.

Description: *Environmental Assessment and Underground Storage Tank Removal*

Site: *Major Rehabilitation-Development Project*

Location: *Indiana*

IES was contracted to address environmental issues that arose from a re-development project of an area in a Northwest Indiana City. The re-development plan included demolition of old structures, infrastructure replacement, new construction of commercial buildings, and new housing. The project encompassed 6 square city blocks. During demolition and construction activities several underground storage tanks were encountered. Some tanks were found leaking. IES personnel conducted all underground storage tank removal and corrective action. No delays were encountered due to environmental issues on this project because of IES's thorough and immediate address of issues as they arose.

Description: *LUST Investigation, Corrective Action and IDEM NFA Status*

Site: *Former Construction Company Yard*

Location: *Indiana*

Performed a Site Investigation as a prelude for a pending property transfer. The extent of contamination was defined and corrective action completed. Corrective action included the removal of heavily contaminated soil adjacent to a building from a former UST excavation. The groundwater was remediated to IDEM residential cleanup goals with the installation of an inexpensive dewatering system. Quarterly groundwater monitoring was performed for one year after corrective action was completed. The aforementioned corrective action and groundwater monitoring resulted in the issuance of "No Further Action Letter" by IDEM.

Environmental Related Project Experience

Description: *LUST Investigation, Corrective Action Plan, Corrective Action and IDEM NFA Status*

Site: *Manufacturing Facility*

Location: *Indiana*

An extensive site investigation was performed to define the extent of contamination in soil and groundwater. A corrective action plan (CAP) was prepared for IDEM approval. Upon receipt of CAP approval from IDEM, IES remediated the soil and groundwater. An NFA letter was received for the Site.

Description: *UST Removal Oversight and Phase II*

Site: *Industrial Site*

Location: *Indiana*

An ice rink facility had two 10,000-gallon non-regulated (i.e., pre-January 1, 1974) USTs removed by a local contractor. A release was observed during the UST removals. A Phase II ESA was conducted to assess the nature and extent of subsurface impacts in support of remediation and/or subdivision of the property to separate contaminated from non-contaminated lands.

Description: *Voluntary Remediation Program*

Site: *Industrial Site*

Location: *Indiana*

The historical site activities included a truck terminal and automobile salvage yard. The site was enrolled into the VRP to document that the previous site activities did not impact the surface soil with semi-volatile organic compounds and lead. A Certificate of Completion letter from IDEM and a Covenant-Not-To-Sue letter from the Governor of the State of Indiana were obtained for surface soil without having to conduct any remedial activities. The list of contaminants included sixty-one semi-volatile organic compounds and total lead. Cleanup standards for thirteen of the sixty-one semi-volatile organic compounds were successfully obtained from existing U.S. EPA Region III and the Massachusetts Department of Environmental Protection chemical-specific cleanup standards.

Environmental Related Project Experience

Description: *Voluntary Remediation Program*

Site: *Commercial Facility*

Location: *Indiana*

A commercial facility was located adjacent to a dry cleaning facility. The dry cleaning facility had historical releases of perchloroethylene that impacted the subsurface soil. A vapor extraction and air sparging system was installed to remediate the subsurface soil. Upon reaching asymptotic conditions, a human health risk assessment was conducted to demonstrate that further remediation was not required. A Covenant-Not-To-Sue Letter was obtained from the Governor of the State of Indiana.

Description: *Site Remediation Program*

Site: *Former Industrial Facility*

Location: *Illinois*

A former industrial facility underwent closure activities for three RCRA units. Soil impacts from two of the RCRA units involved inorganic contaminants of cadmium and cyanide. The third RCRA unit involved volatile organic compounds. The Site was enrolled in the Illinois Site Remediation Program. A focused site investigation was conducted to delineate the flow rate and extent of VOCs in the groundwater. After four quarters of groundwater monitoring, a No Further Remediation Letter was obtained for the Site.

Description: *Phase II Environmental Site Assessment*

Site: *Gasoline Service Station*

Location: *Indiana*

The extent of gasoline-contaminated soil and groundwater was defined at an active gasoline service station in a commercial/residential area. Soil contamination extends to a depth of 60 feet. Two adjacent corners were previously occupied by other gasoline service stations. Based on the contaminant concentrations, elevations of those concentrations, surficial elevations and hydraulic gradient. IES prepared and submitted the required state reports and reimbursement application. A soil and groundwater corrective action plan was prepared.
