



DUAL PHASE EXTRACTION REMEDIATION SYSTEM FABRICATION AND INSTALLATION

BELKNAP CAMPUS LOUISVILLE, KY

Client:	University of Louisville
Contaminants:	Benzene, Toluene, Ethylbenzene, and Xylenes
Impacted Matrix:	Saturated Soils and Ground Water
Methods:	In-House Fabrication and Construction Activities

PROJECT OVERVIEW:

Specialty Earth Sciences, LLC (SE SCIENCES) was contracted to facilitate the fabrication, installation, and continued operations & maintenance of a dual phase extraction (DPE) remediation system at an impacted fueling location on the Belknap Campus at the University of Louisville.

SE SCIENCES personnel completed all remediation system fabrication and on-site installation activities ahead of schedule (approx. 16 weeks) and on budget.

Scope of Work Included:

- Installation of 15 gallons per minute (gpm) dual phase extraction system (DPE).
- Installation and system integration of (8) 4" ID extraction wells with internal drop tubes.
- Construction and connection of associated wellhead assemblies.
- Installation of (8) traffic rated steel access vaults with concrete collar finish.
- Approx. 300 linear feet of conveyance line excavation trenching.
- Installation of approx. 850 linear feet of 4" ID vacuum/ground water extraction piping.
- Installation of 4" ID treated effluent discharge piping into local storm sewer inlet.
- Concrete resurfacing with site restoration.

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**CONVEYANCE PIPE TRENCHING
WITH WELL ACCESS VAULTS**



CONVEYANCE PIPING NETWORK



**DPE REMEDIATION SYSTEM
INTERIOR VIEW**



**DPE REMEDIATION SYSTEM
EXTERIOR VIEW**