

*Aberdeen, Mississippi*

PELA was contracted to perform a Phase I assessment at a gas station, in Aberdeen, Mississippi. Soil samples collected during tank closure activities indicated maximum BTEX concentrations in soil up to 235.6 mg/kg. Elevated BTEX concentrations were observed in the UST pit at the northwest corner of the property.

The Modified Phase I Assessment was performed subsequently. Activities included: a review of pertinent site information on file with MDEQ; installation and soil sampling of twenty-three soil borings utilizing direct push technology (DPT); construction of twenty-three 1-inch diameter monitoring wells; measurement of static groundwater elevations; groundwater sampling; and a vapor survey of open utility conduits.

Analytical results indicated maximum BTEX concentrations in soil up to 477.4 mg/kg and in groundwater up to 46.4 mg/l. MDEQ's typical action limit (TAL) of 100 mg/kg for soil was exceeded in one boring and MDEQ's TAL of 18 mg/l for groundwater was exceeded in three wells.



*Direct Push Unit*



*Installation of Well*

Modified Phase II Assessment activities included installation of six soil borings utilizing DPT; construction of five 1-inch diameter monitoring wells; and groundwater sampling. Based on the definition of plume south of the site, five monitoring wells were also plugged and abandoned in that area.

Analytical results indicated groundwater BTEX concentration exceeding MDEQ's TAL in two existing wells. None of the new wells exhibited soil or groundwater BTEX contamination exceeding MDEQ's TAL.

Two monitoring wells exhibiting maximum BTEX contamination were over-drilled and reconstructed as 4-inch fluid recovery wells. Afterwards, four 8-hour vacuum events were performed.

Groundwater samples collected three weeks after the last vacuuming event showed maximum BTEX concentration in groundwater up to 7.408 mg/l. None of the monitoring wells exhibited BTEX concentration above MDEQ's TAL of 18 mg/l, therefore, follow-up groundwater sampling was recommended to ensure contaminant concentration remain below MDEQ's TAL of 18 mg/l over a longer period.

Three subsequent groundwater sampling events showed BTEX concentrations below TAL in all wells. PELA requested a "no further action" status for the site; the request was granted.