

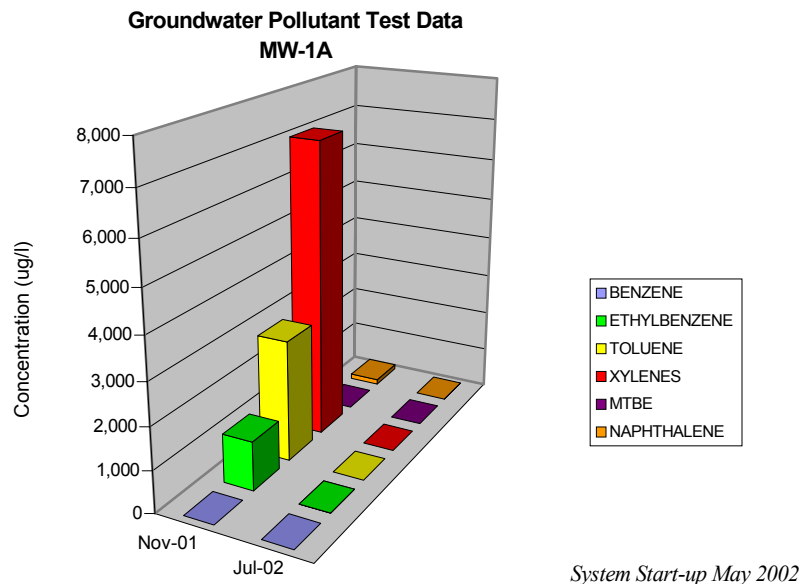


Petroleum Pollutants Case Study

KEYSTONE HEIGHTS/ FLORIDA

In February 2002, GBI installed Butane Biostimulation Technologies™ at the City of Keystone Heights maintenance yard to clean up petroleum pollutants. The property was contaminated by an underground storage tank (UST) in 1997 that leaked diesel fuel into the site soil and groundwater. The target contaminants at the site include benzene, toluene, ethylbenzene, xylene and naphthalene, all components of diesel fuel. Butane Injection System™ start-up occurred in May 2002. Butane is being injected via three Butane Biosparge™ wells into the clay layer of soil on the one-half acre site. After approximately three months of system operation, Florida Department of Environmental Protection Groundwater Cleanup Target Levels for petroleum products contaminants of concern were achieved. Groundwater sampling data for three monitoring wells with initial concentrations exceeding the Cleanup Target Levels are presented here.

BUTANE BIOSTIMULATION TECHNOLOGIES™



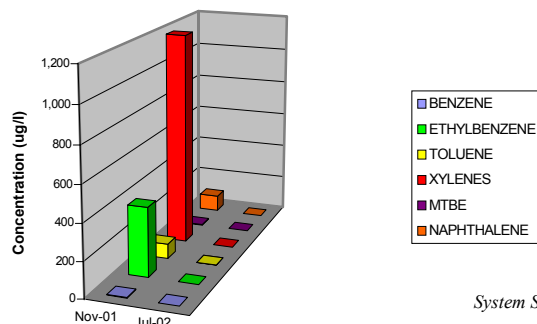
	11/6/01	7/24/02
BENZENE	0.5	0.5
ETHYLBENZENE	* 1,170.0	0.5
TOLUENE	* 2,900.0	0.5
XYLENES	* 7,090.0	0.5
MTBE	0.5	0.5
NAPHTHALENE	* 122.0	1.8

*All concentrations reported in ug/l
* Concentration exceeds Groundwater Cleanup Target Level
Non-detects graphed as one-half minimum detection limit*

Florida Department of Environmental Protection Groundwater Cleanup Target Levels (ug/l)					
Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
1.0	40	30	20	50	20

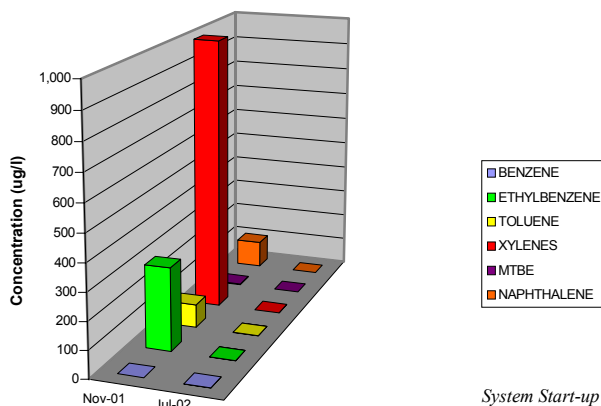
KEYSTONE HEIGHTS/ FLORIDA

Groundwater Pollutant Test Data MW-2



	11/6/01	7/24/02
BENZENE	* 3.0	0.5
ETHYLBENZENE	* 387.0	0.5
TOLUENE	* 83.0	0.5
XYLENES	* 1,190.0	0.5
MTBE	4.0	0.5
NAPHTHALENE	* 92.0	0.5

Groundwater Pollutant Test Data MW-4



	11/6/01	7/24/02
BENZENE	0.5	0.5
ETHYLBENZENE	* 302.0	0.5
TOLUENE	* 85.0	0.3
XYLENES	* 999.0	0.5
MTBE	3.0	0.5
NAPHTHALENE	* 99.0	0.5

*All concentrations reported in ug/l
* Concentration exceeds Groundwater Cleanup Target Level
Non-detects graphed as one half minimum detection limit*

Florida Department of Environmental Protection Drinking Water Standards (ug/l)					
Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Naphthalene
1.0	40	30	20	50	20