



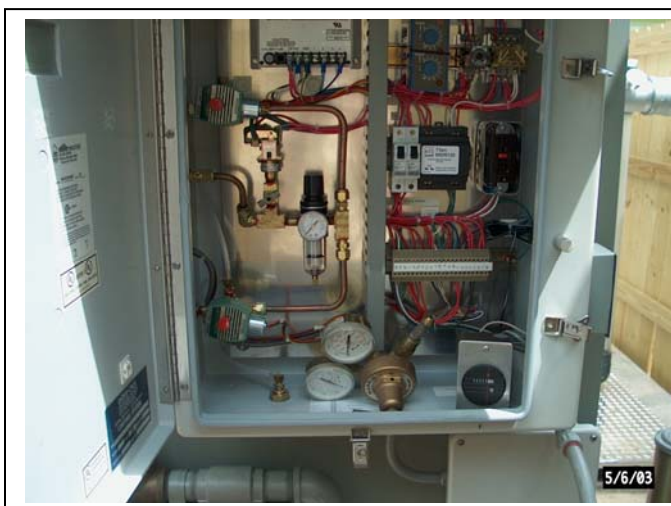
TALLAHASSEE / FLORIDA

In June 2003, GBI implemented *Butane Biostimulation Technologies*[™] at the Former Union 76 facility located in Tallahassee, Florida. The primary environmental contractor for the Site is Handex of Florida (Handex) located in Tampa, Florida. A Contamination Assessment Report was prepared by Handex and submitted to the FDEP on July 4, 1996. Final assessment activities were conducted by Handex in 1999. Based on the assessment activities, it was determined that the petroleum release had been substantially defined and that the plume had remained primarily on-site. Contamination had extended vertically to approximately forty-two feet below the land surface (bls), where further migration was impeded by the presence of a clay layer.

The lithology of the Site consists of medium grained sandy clay from ground surface to a depth varying from 19 to 25 feet bls. A medium grained silty sand with a small clay fraction (a zone containing the mass of petroleum constituents above the State target levels) extends to a depth of approximately 40 to 42 feet bls. Handex has estimated that a total volume of 7,300 cubic yards of soil within this strata has been impacted by the petroleum release. Below this heavily-contaminated zone is a layer of medium grained sand, which extends to a depth of approximately 55 feet bls.

Handex conducted the injection well permitting and installation. Sixteen *Butane Biosparging*[™] wells were installed at the Site. Handex also conducted all trenching activities, underground piping, well vault installation and wellhead construction, compound construction, and utilities and ancillary equipment installation. GBI installed one *Butane Injector 2000*[™] system. The last sampling event was conducted at the Site in August 2004.

BUTANE BIOSTIMULATION TECHNOLOGIES[™]
Site Photos



**Summary of Groundwater Quality Data
Tallahassee, Florida
System Startup in June 2003**

Sample Location	Sample Date	Analytical Method	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
MW-1R	6/2/2003	8260 VOCs	209	1,950	336	2,300	6.4
	8/21/2003	8260 VOCs	23	327	115	993	12.3
	11/12/2003	8260 VOCs	3.1	2.6	15.6	105	<5.0
	5/20/2004	8260 VOCs	1.0	2.5	7.9	20.3	<1.0
	8/19/2004	8260 VOCs	<1.0	<1.0	4.0	6.4	<1.0
MW-2	10/17/2002	8260 VOCs	23	2.0	15	18	6.0
	5/20/2004	8260 VOCs	<1.0	<1.0	<1.0	<3.0	0.84
MW-3	10/17/2002	8260 VOCs	565	3,800	585	5,830	29.7
	11/12/2003	8260 VOCs	6	135	257	2,230	3.8
	5/20/2004	8260 VOCs	85.2	78.1	120	1,010	15.8
MW-4	10/16/2002	8260 VOCs	85	440	789	4,430	<50
	11/12/2003	8260 VOCs	265	7,430	836	8,050	<50
	5/20/2004	8260 VOCs	21.1	628	336	1,940	<5.0
	8/19/2004	8260 VOCs	4.6	129	166	855	0.56
MW-5	10/16/2002	8260 VOCs	<1.0	2.5	1.5	5.5	<1.0
	11/12/2003	8260 VOCs	<1.0	0.68	<1.0	1.2	<1.0
MW-9	10/17/2002	8260 VOCs	4.0	8.0	5.0	14	<1.0
	11/12/2003	8260 VOCs	<1.0	<1.0	3.3	19.1	<1.0
	5/20/2004	8260 VOCs	<1.0	<1.0	<1.0	<3.0	<1.0
	8/19/2004	8260 VOCs	<1.0	<1.0	<1.0	<3.0	<1.0
MW-12	10/17/2002	8260 VOCs	131	51	78.2	611	24.3
	5/20/2004	8260 VOCs	<1.0	0.64	<1.0	2.1	<1.0
MW-16	10/16/2002	8260 VOCs	248	2,490	588	3,860	18
	11/12/2003	8260 VOCs	65.2	829	434	2,210	<10
	5/20/2004	8260 VOCs	<10	569	508	3,180	<10
	8/19/2004	8260 VOCs	<10	239	176	1,270	<10
MW-18	10/17/2002	8260 VOCs	38	260	87	536	<10
	11/12/2003	8260 VOCs	27.4	85.1	48.3	325	7.1
	5/20/2004	8260 VOCs	<2.5	6.5	32.3	302	<2.5
	8/19/2004	8260 VOCs	<1.0	0.67	32.7	25	<1.0
MW-21	10/17/2002	8260 VOCs	370	1,690	599	3,570	<20
	11/12/2003	8260 VOCs	257	939	653	3,990	<10
	5/20/2004	8260 VOCs	8	5.9	75.5	215	<2
	8/19/2004	8260 VOCs	7.1	10.4	233	789	<10
MW-22	10/17/2002	8260 VOCs	<1.0	<1.0	<1.0	15	<1.0
	11/12/2003	8260 VOCs	<1.0	<1.0	<1.0	<3.0	<1.0
	5/20/2004	8260 VOCs	<1.0	<1.0	<1.0	<3.0	<1.0
MW-23	10/16/2002	8260 VOCs	<1.0	<1.0	<1.0	15	<1.0
	5/20/2004	8260 VOCs	<1.0	<1.0	<1.0	<3.0	<1.0
Florida Drinking Water Standard			1.0	40	30	20	50

NOTES: All concentrations expressed in µg/l (ppb)
Bold values exceed Groundwater Cleanup Target Level
Yellow shading indicates pre-treatment concentrations

REFERENCES

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