



BLAINE TECH SERVICES INC.

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93 OCT -7 AM 11:42
July 21, 1993

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DATE:
June 30, 1993

GROUNDWATER SAMPLING REPORT 930630-C-1

Blaine Tech Services, Inc. performs specialized environmental sampling and documentation as an independent third party. In order to avoid compromising the objectivity necessary for the proper and disinterested performance of this work, Blaine Tech Services, Inc. does not participate in the interpretation of analytical results or become involved with the marketing or installation of remedial systems.

This report deals with the groundwater well sampling performed by our firm in response to your request. Data collected in the course of our work at the site is presented in the TABLE OF WELL MONITORING DATA. This data was collected during our inspection, well evacuation, and sample collection. Measurements include the total depth of the well and depth to water. Water surfaces were further inspected for the presence of immiscibles. A series of electrical conductivity, pH, and temperature readings were obtained during well evacuation and at the time of sample collection. Recharge performance can be evaluated by comparing the anticipated three, four, or five case volume evacuation gallonage with the volume which could actually be purged.

TABLE OF WELL MONITORING DATA

Well I.D.	MW-1	MW-1
Date Sampled	02/02/93	06/30/93
Well Diameter (in.)	2	2
Total Well Depth (ft.)	12.96	13.54
Depth To Water (ft.)	4.32	5.80
Free Product (in.)	NONE	NONE
Reason If Not Sampled	--	--
1 Case Volume (gal.)	1.38	1.24
Did Well Dewater?	NO	NO
Gallons Actually Evacuated	4.25	4.0
Purging Device	BAILER	BAILER
Sampling Device	BAILER	BAILER
Time	12:12 12:15 12:21	09:47 09:52 09:55
Temperature (Fahrenheit)	55.2 56.8 57.0	68.0 66.8 66.0
pH	7.2 7.1 7.1	7.8 7.6 7.6
Conductivity (micromhos/cm)	1100 1300 1300	800 600 500
BTS Chain of Custody	930202-M-1	930630-C-1
BTS Sample I.D.	MW-1	MW-1
DHS HMTL Laboratory	SEQUOIA	SEQUOIA
Laboratory Sample I.D.	3B29001	3G12201
Analysis	TPH (GAS), BTEX	TPH (GAS), BTEX TPH (DIESEL)

S U M M A R Y O F C A R R E S U L T S in Parts Per Billion unless otherwise noted

DHS HMTL Laboratory	SEQUOIA	SEQUOIA
Laboratory Sample I.D.	3B29001	3G12201
TPH Gasoline.....	300	450
Benzene.....	15	100
Toluene.....	2.1	13
Ethyl Benzene.....	2.4	3.3
Xylene Isomers.....	0.92	8.2
TPH Diesel.....	--	290

In the interest of clarity, an addendum has been appended to the TABLE which lists analytical results in such a way that our field observations are presented together with the analytical results. This addendum is entitled a SUMMARY OF CAR RESULTS. As indicated by the title, the source documents for these numbers are the laboratory's certified analytical reports. These certified analytical reports (CARs) are generated by the laboratory as the sole official documents in which they issue their findings. Any discrepancy between the CAR and a tabular or text presentation of analytical values must be decided in favor of the CAR on the grounds that the CAR is the authoritative legal document.

TABLE OF WELL MONITORING DATA

Well I.D.	MW-2	MW-2
Date Sampled	02/02/93	06/30/93
Well Diameter (in.)	2	2
Total Well Depth (ft.)	12.94	12.90
Depth To Water (ft.)	1.83	3.04
Free Product (in.)	NONE	NONE
Reason If Not Sampled	--	--
1 Case Volume (gal.)	1.78	1.57
Did Well Dewater?	NO	NO
Gallons Actually Evacuated	5.5	4.75
Purging Device	BAILER	BAILER
Sampling Device	BAILER	BAILER
Time	10:45 10:50 10:53	10:28 10:31 10:35
Temperature (Fahrenheit)	56.0 56.4 56.6	66.8 67.2 67.4
pH	7.3 7.2 7.3	7.2 7.2 7.2
Conductivity (micromhos/cm)	1300 1300 1100	100 100 100
BTS Chain of Custody	930202-M-1	930630-C-1
BTS Sample I.D.	MW-2	MW-2
DHS HMTL Laboratory	SEQUOIA	SEQUOIA
Laboratory Sample I.D.	3B29002	3G12202
Analysis	TPH (GAS), BTEX	TPH (GAS), BTEX TPH (DIESEL)

S U M M A R Y O F C A R R E S U L T S in Parts Per Billion unless otherwise noted

DHS HMTL Laboratory	SEQUOIA	SEQUOIA
Laboratory Sample I.D.	3B29002	3G12202
TPH Gasoline.....	100	260
Benzene.....	ND	1.0
Toluene.....	ND	0.92
Ethyl Benzene.....	ND	0.82
Xylene Isomers.....	ND	2.4
TPH Diesel.....	--	ND

TABLE OF WELL MONITORING DATA

Well I.D.	MW-3	MW-3			
Date Sampled	02/02/93	06/30/93			
Well Diameter (in.)	2	2			
Total Well Depth (ft.)	12.46	12.44			
Depth To Water (ft.)	2.50	2.82			
Free Product (in.)	NONE	NONE			
Reason If Not Sampled	--	--			
1 Case Volume (gal.)	1.59	1.54			
Did Well Dewater?	NO	NO			
Gallons Actually Evacuated	5.0	4.75			
Purging Device	BAILER	BAILER			
Sampling Device	BAILER	BAILER			
Time	11:32	11:34	11:37	11:02	11:05 11:07
Temperature (Fahrenheit)	55.2	57.2	57.7	69.4	69.8 69.2
pH	7.4	7.2	7.2	7.0	7.0 7.0
Conductivity (micromhos/cm)	1100	1500	1400	800	400 400
BTS Chain of Custody	930202-M-1	930630-C-1			
BTS Sample I.D.	MW-3	MW-3			
DHS HTML Laboratory	SEQUOIA	SEQUOIA			
Laboratory Sample I.D.	3B29003	3G12203			
Analysis	TPH (GAS), BTEX	TPH (GAS), BTEX			TPH (DIESEL)

SUMMARY OF CAR RESULTS in Parts Per Billion unless otherwise noted

DHS HTML Laboratory	SEQUOIA	SEQUOIA
Laboratory Sample I.D.	3B29003	3G12203
TPH Gasoline.....	85	290
Benzene.....	6.9	43
Toluene.....	4.3	15
Ethyl Benzene.....	8.1	6.9
Xylene Isomers.....	2.6	25
TPH Diesel.....	--	2,700