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December 18, 1989
File: 10-1682-03/38

Mr. Dennis Hunt
Industrial Asphalt
P.O. Box 636
52 El Charro Road
Pleasanton, CA 94566

SUBJECT: November 1989 Monthly Monitoring, Industrial Asphalt, Pleasanton, California

Dear Mr. Hunt:

Kleinfelder, Inc., is pleased to submit the results of our monthly monitoring and sampling activities at the Industrial Asphalt facility in Pleasanton, California. Field activities were performed on 28 November 1989 through 30 November 1989.

Water level and free product thickness data for the six onsite monitoring wells are presented in the attached table. On the sampling day, monitoring well MW-9 was covered with several feet of surface water due to a rainstorm and, therefore, was inaccessible for sampling. The four other wells (MW-1, MW-2, MW-3, and MW-11) were dry or had an insufficient volume of water to obtain a representative sample. Surface water level in the pond was obtained from the staff gage.

Collected ground water samples were tested for the standard suite of constituents which included total petroleum hydrocarbons (TPH) as diesel and waste oil and polychlorinated biphenyls (PCBs). A summary of the analytical data for the sampled ground water from monitoring wells MW-4, MW-5, MW-6, MW-7, MW-8, and MW-10 is also included in the attached table.

As indicated by the data, ground water table beneath the project site dropped as compared to the previous monitoring round. As discussed in the past, this is consistent with the continuous decreasing trend in ground water elevation observed in the site vicinity.

A ground water potentiometric map has been developed from the data obtained on November 28, 1989. Interpretation of the data indicates that ground water flow was towards the northeast and northwest, with an apparent ground water trough along a MW-7, MW-1 and MW-8 line, at an approximate hydraulic gradient of 6.5% (Plate 1).

As shown in the attached table, no free product or sheen was found on the ground water surface in any of the site monitoring wells excluding well MW-9 which was not accessible.

(39)C89-708

Chemical analyses of ground water samples indicate the presence of dissolved hydrocarbons as diesel in monitoring well MW-7 alone. Polychlorinated Biphenyls (PCBs) were not found in any water sample collected.

Based upon the analytical results, it appears that purge water from wells MW-4, MW-5, MW-6, MW-7, MW-8, and MW-10 can be disposed of on the ground. Purge water from well MW-7 can be recycled in manufacturing processes used by Industrial Asphalt.

LIMITATIONS

This report was prepared in general accordance with the accepted standard of practice which exists in Northern California at the time the investigation was performed. It should be recognized that definition and evaluation of environmental conditions is a difficult and inexact art. Judgements leading to conclusions and recommendations are generally made with an incomplete knowledge of the conditions present. More extensive studies, including additional environmental investigations, can tend to reduce the inherent uncertainties associated with such studies. If the Client wishes to reduce the uncertainty beyond the level associated with this study, Kleinfelder should be notified for additional consultation.

Our firm has prepared this report for the Client's exclusive use for this particular project and in accordance with generally accepted engineering practices within the area at the time of our investigation. No warranties, expressed or implied, as to the professional advice provided are made.

If you have any questions, please call the undersigned.

Sincerely,

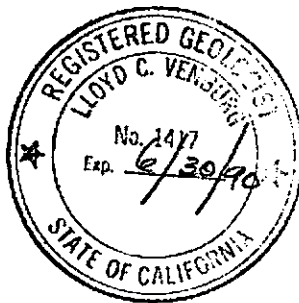
KLEINFELDER, INC.



Krzysztof (Krys) S. Jesionek
Project Manager



Lloyd C. Venburg, R.G.
Senior Project Manager



cc: Dwight Beavers, Industrial Asphalt
Gil Wistar, Alameda County Department of Environmental Services
Lester Feldman, California Regional Water Quality Control Board
Jerry Killingstad, Alameda County Flood Control and Water Conservation District

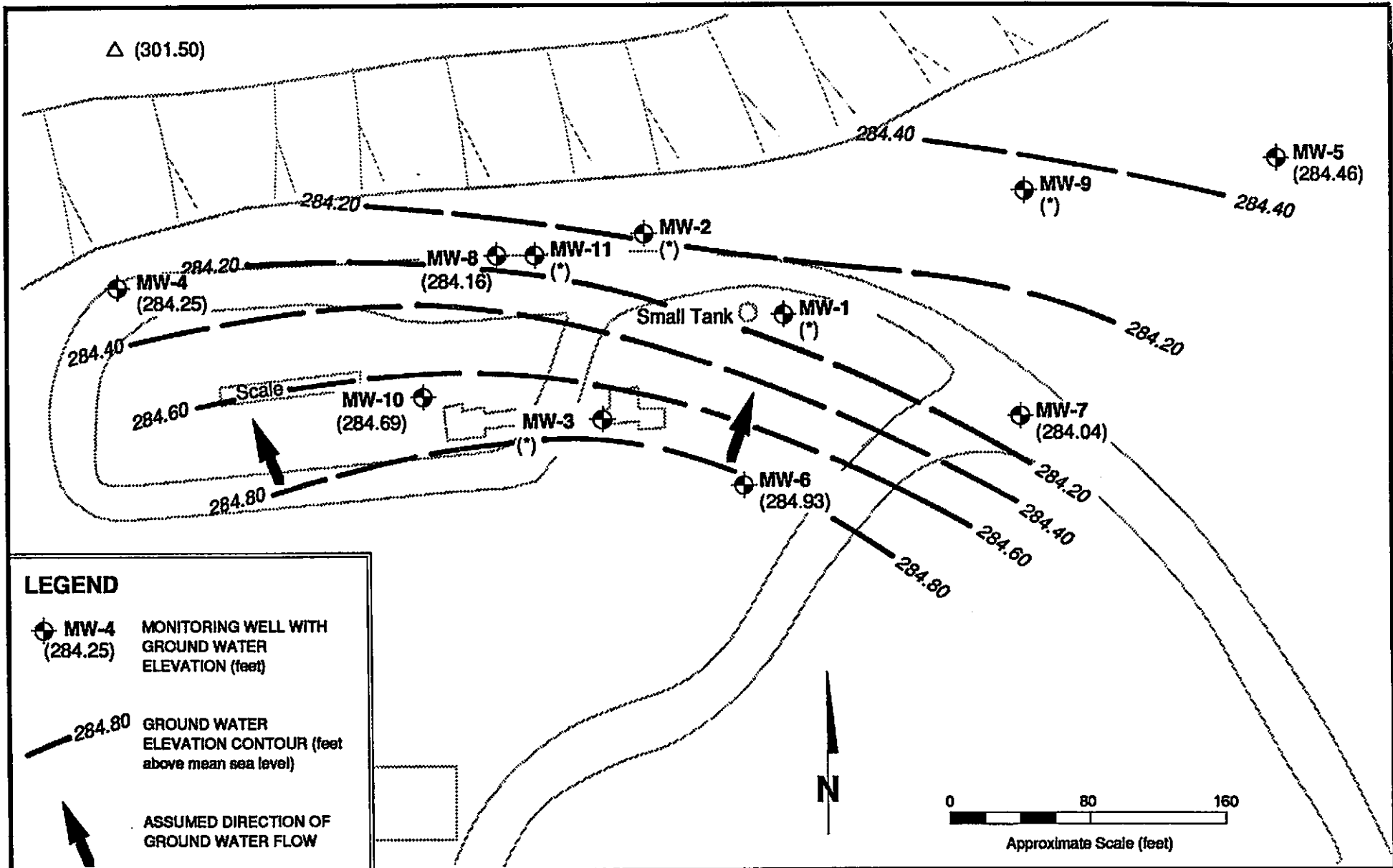
(39)C89-708

MONITORING PARAMETERS (11/28/89)
INDUSTRIAL ASPHALT

Monitoring Well	Total Depth (feet)	Depth to Water ⁽¹⁾ (feet)	Ground Water Product Elevation ⁽²⁾ (feet)	Product Thickness (feet)	TPH as Diesel (mg/l)	TPH as Waste Oil (mg/l)	PCBs g/l
MW-1	88	DRY	NA	NE	NT	NT	NT
MW-2	90	DRY	NA	NE	NT	NT	NT
MW-3	90	DRY	NA	NE	NT	NT	NT
MW-4	95	92.01	284.25	NE	ND	ND	ND
MW-5	110	98.09	284.46	NE	ND	ND	ND
MW-6	109	94.22	384.93	NE	ND	ND	ND
MW-7	1009	94.90	284.04	NE	0.6	ND	ND
MW-8	109	94.40	284.16	NE	ND	ND	ND
MW-9	108	NC	NA	NE	NT	NT	NT
MW-10	111	93.35	284.69	NE	ND	ND	ND
MW-11	75	DRY	NA	NE	NT	NT	NT
SG	NA	1.50 ⁽³⁾	301.50 ⁽⁴⁾	NA	NA	NA	NA

NOTES:

- (1) Below top of casing
- (2) Feet above mean sea level (USGS Datum)
- (3) Reading on the staff gage
- (4) Surface water elevation in the pit
- TPH Total Petroleum Hydrocarbons
- PCBs Polychlorinated Biphenyls (Aroclor 1260)
- NE Not Encountered
- ND Not Detected at or above laboratory detection limits
- NA Not Applicable
- SG Staff Gage
- NC Not Accessible



LEGEND	
	MONITORING WELL WITH GROUND WATER ELEVATION (feet)
	GROUND WATER ELEVATION CONTOUR (feet above mean sea level)
	ASSUMED DIRECTION OF GROUND WATER FLOW
(*)	DRY OR NOT ACCESSIBLE WELL
	SURFACE WATER ELEVATION (feet, above mean sea level)

DRAFTED BY: L. Sue	DATE: 12-14-89
CHECKED BY: K. Jesionek	DATE: 12-15-89

GROUND WATER POTENTIOMETRIC MAP ON NOVEMBER 28, 1989
INDUSTRIAL ASPHALT PLEASANTON, CALIFORNIA
PROJECT NO. 10-1682-03

PLATE 1
