KLEINFELDER

10/26/89
ALAMEDA COUNTY
DEPT. OF ENVIRONMENTAL HEALTH
HAZARDOUS MATERIALS

October 25, 1989
File: 10-1682-03/38

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

SUBJECT: Monthly Monitoring, Environmental Engineering Services, Industrial Asphalt, Pleasanton, California

Dear Mr. Hunt:

Kleinfelder, Inc., is pleased to submit the results of our monthly monitoring and sampling activities during September 1989 at the Industrial Asphalt facility in Pleasanton, California. Field activities were performed on September 18 through September 28.

Water level and free product thickness data for the all eleven onsite monitoring wells are presented in the attached table. A summary of analytical data for the sampled ground water monitoring wells is also included in this table. As indicated by the data in the table, ground water elevation has risen significantly as compared to its surface elevations during previous months. Therefore, all existing onsite monitoring wells had sufficient water to obtain a representative sample.

Our discussions with the Zone 7 - Alameda County Flood Control and Water Conservation District (ACFCWCD) staff indicate that the percolation test was performed in the Arroyo Mocho creek which flows along the eastern boundry of the project site (Plate 1). Thus, additional quantities of water released to the creek increased its flow from approximately 5 cubic feet per second (cfs) on September 11, 1989, to 64 cfs on September 22, 1989. Subsequently, the discharge to the creek decreased to 20 cfs on September 24, 1989, and 5 cfs on September 28, 1989. Since water levels measurements in the monitoring wells were collected on September 25, 1989, they were likely influenced by the artificial reacharge from Arroyo Mocho creek.

A ground water potentiometric map has been developed from the data obtained on September 25, 1989. Interpretation of the data indicates that ground water flowed towards the southwest, away from the influent creek, at an approximate hydraulic gradient of 2% (Plate 2).

As shown in the attached table, approximately one-half inch of free product was detected in ground water monitoring well MW-1. Sheen was found on the ground water surface in wells MW-2, MW-3, MW-7, MW-8, MW-9 and MW-11. No free product was detected in the remaining wells during this round of sampling.

Chemical analyses of ground water samples indicate the presence of dissolved hydrocarbons as diesel in all monitoring wells with the exeption of wells MW-6 and MW-10. Polychlorinated Biphenyls (PCBs) as Aloclor 1260 were found in ground water samples obtained from wells MW-1, MW-2 and MW-3.

Due to lack of water or the presence of free product in monitoring wells MW-1, MW-2 and MW-3 these wells have not been sampled since May or July 1988. The data obtained during the September 1989 sampling event, however, indicate that the subsurface environment in the vicinity of these three wells appears to be the most impacted by the past leaks from the tank farm.

Based upon the analytical results, it appears that purge water from wells MW-4, MW-5, MW-6, MW-7, MW-8, MW-9 and MW-11 can be recycled in manufacturing process used by Indusrrial Asphalt. Purge water from well MW-10 can be disposed of on the ground. However, purge water contained in drums marked MW-1, MW-2 and MW-3 contains PCBs and, therefore, should be disposed of according to applicable regulations.

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

R. Jeffrey Dunn, Ph.D., G.E.
Assistant Regional Manager

REGISTERED PROFESSIONAL ENGINEER
R. JEFFREY DUNN
No. 2015
Exp. 3-31-91
GEOTECHNICAL
STATE OF CALIFORNIA

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

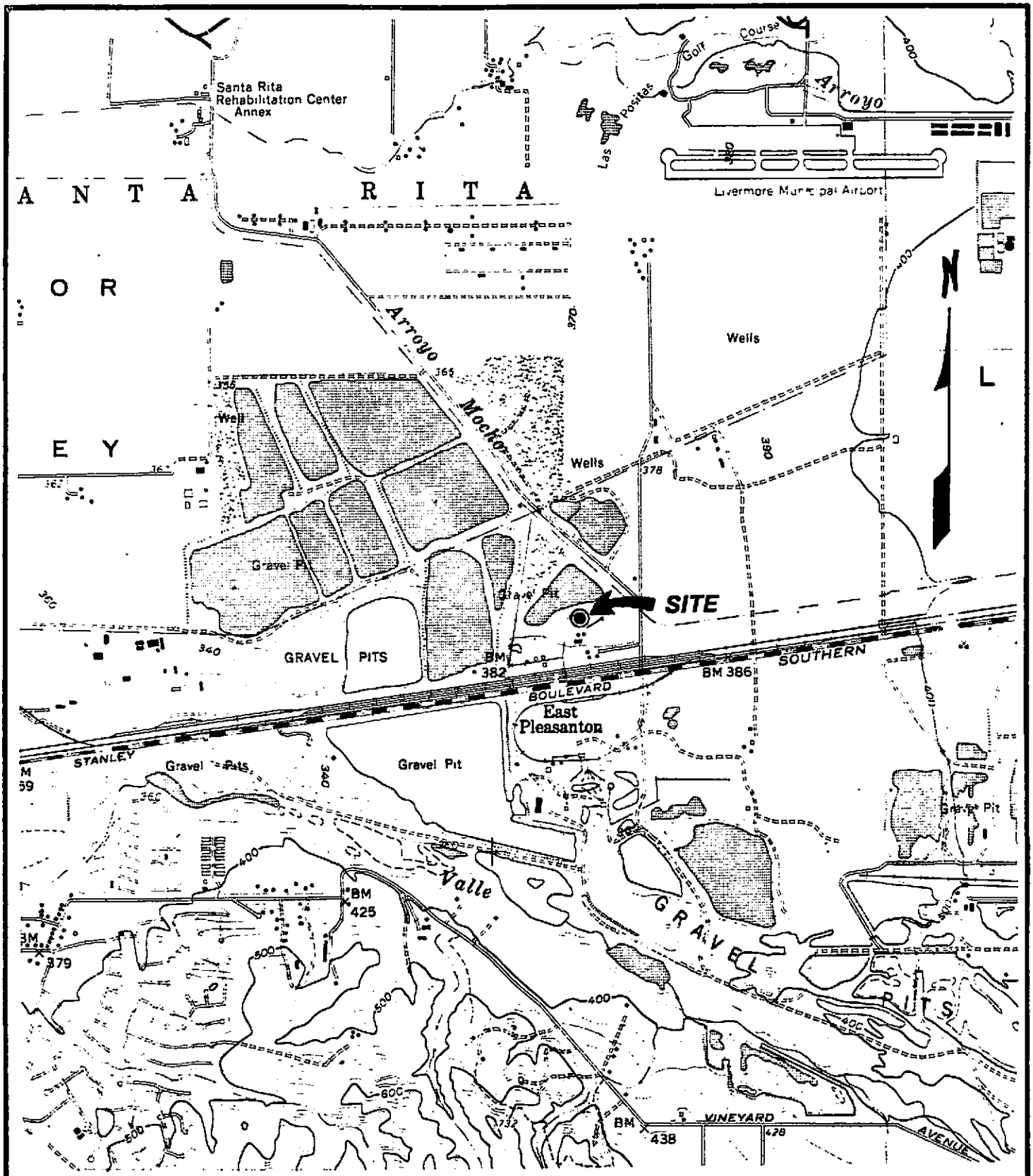
KLEINFELDER 2121 N. California Blvd., Suite 570, Walnut Creek, CA 94596 (415) 938-5610

MONITORING PARAMETERS (9/25/89)
INDUSTRIAL ASPHALT

Monitoring Well	Total Depth (feet)	Depth to Water[1][2] (feet)	Ground Water Elevation[3] (feet)	Product Thickness (feet)	TPH as Diesel (mg/l)	TPH as Waste Oil (mg/l)	PCBs (µg/l)
MW-1	88	68.56	310.85	0.04	130	37	1.6
MW-2	90	71.39	308.41	SHEEN	100	43	3.5
MW-3	90	70.30	307.24	SHEEN	120	58	3.6
MW-4	95	69.68	306.58	NE	2.7	ND	ND
MW-5	110	66.51	316.04	NE	0.7[4]	ND	ND
MW-6	109	70.24	308.91	NE	ND	0.6	ND
MW-7	109	67.40	311.54	SHEEN	2	0.9	ND
MW-8	109	84.18[5]	294.38[5]	SHEEN	3.3	2	ND
MW-9	108	64.12	313.28	SHEEN	0.3[4]	ND	ND
MW-10	111	70.62	307.42	NE	ND	ND	ND
MW-11	75	71.35	307.67	SHEEN	5.8	ND	ND
SG	NA	1.10[6]	301.10[7]	NA	NA	NA	NA

NOTES:

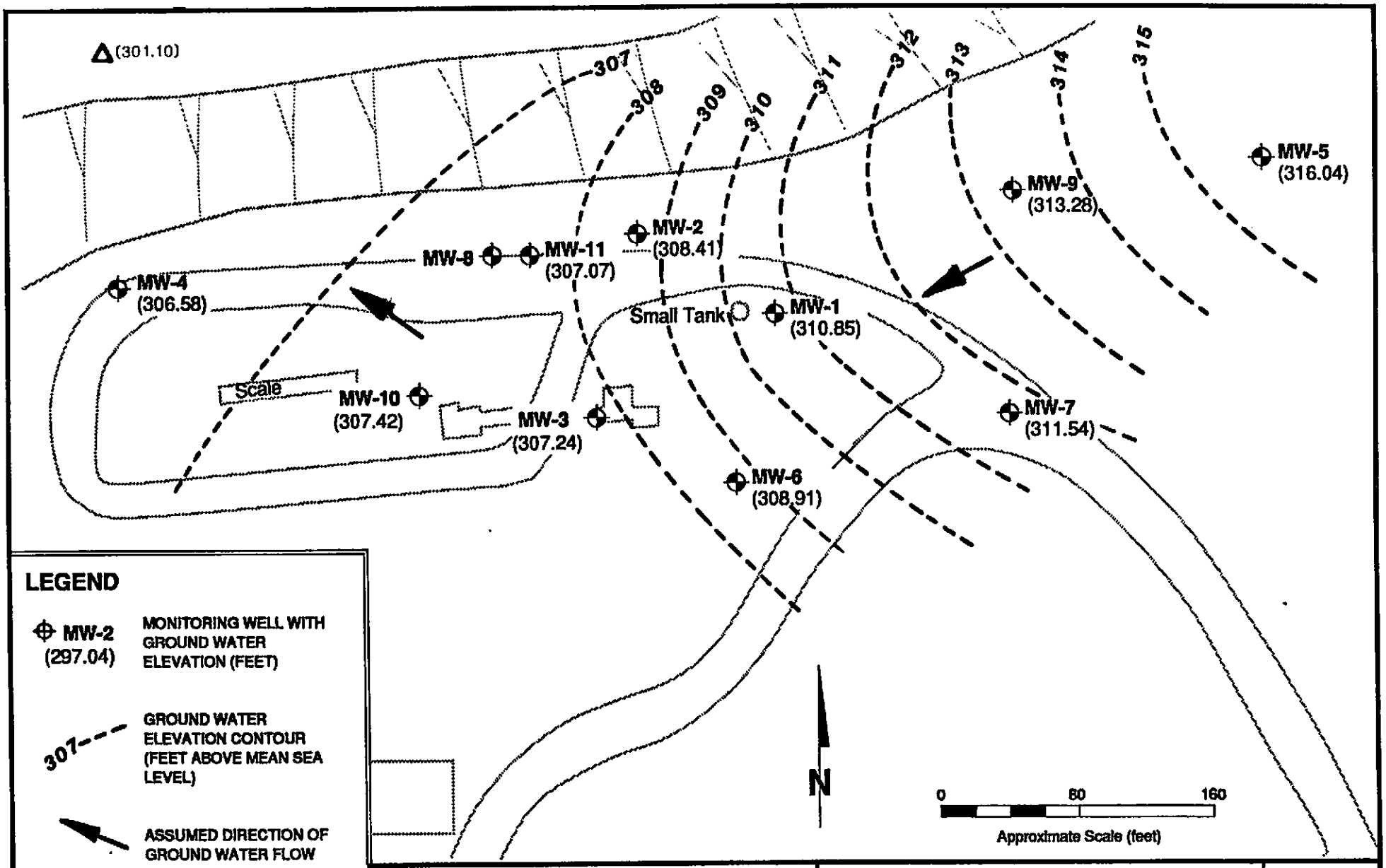
(1) Below top of casing
(2) Measurement taken on September 25, 1989 unless indicated otherwise
(3) Feet above mean sea level (USGS Datum)
(4) "Weathered diesel" (includes higher molecular weight hydrocarbons than those typically contained in a diesel fuel)
(5) Measurement taken on September 18, 1989
(6) Reading on the staff gauge
(7) 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 Gauge



SCALE 1:24000

Source: USGS 7.5 minute Livermore Quadrangle

KLEINFELDER	**SITE LOCATION MAP** INDUSTRIAL ASPHALT PLEASANTON, CALIFORNIA	PLATE **1**
PROJECT NO. 10-1682-03		



LEGEND

- MW-2 (297.04) — MONITORING WELL WITH GROUND WATER ELEVATION (FEET)
- 307 — GROUND WATER ELEVATION CONTOUR (FEET ABOVE MEAN SEA LEVEL)
- ASSUMED DIRECTION OF GROUND WATER FLOW
- △ SURFACE WATER ELEVATION

KLEINFELDER

DRAFTED BY: L. Sue DATE: 10-20-89

CHECKED BY: K. Jesionek DATE: 10-20-89

GROUND WATER POTENMTIOMETRIC MAP ON SEPTEMBER 25, 1989

INDUSTRIAL ASPHALT
PLEASANTON, CALIFORNIA

PROJECT NO. 10-1682-03

PLATE 2