

28 November 1990
File: 10-1682-03/38

Mr. Dennis Hunt
District Manager
Industrial Asphalt
P.O. Box 636
Pleasanton, CA 94566

SUBJECT: October 1990 Bimonthly Monitoring, Industrial Asphalt, Pleasanton, California

Dear Mr. Hunt:

Kleinfelder, Inc., is pleased to submit the results of our bimonthly monitoring and sampling activities at the Industrial Asphalt facility in Pleasanton, California. Additionally, as requested by the Alameda County Department of Environmental Health (ACDEH) in their letter to Industrial Asphalt dated 9 February 1990, bimonthly reports now contain a summary of the RI activities and specific plans for the next month activities.

BIMONTHLY MONITORING

Field monitoring activities were performed on 22 October 1990 through 1 November 1990. Monitoring data for the twelve onsite monitoring wells and one extraction well (MW-13) are shown on the attached table. One well (MW-1) was not sampled at this time due to insufficient volume of water in this well to obtain a representative sample. Monitoring well MW-11 was abandoned on 8 August 1990. Surface water level in the pond north of the site 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/waste oil and polychlorinated biphenyls (PCBs). Additionally, as requested by ACDEH, ground water samples collected from monitoring/extraction wells (MW-2, MW-3, MW-13, MW-14, MW-15 and MW-16) were analyzed for benzene, toluene, xylenes and ethylbenzene (BTXE). Thus, monitoring well MW-1 remains the only one not yet analyzed for BTXE. A summary of the analytical data for the sampled ground water from wells MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-9, MW-10, MW-13, MW-14, MW-15 and MW-16 is also included in the attached table.

As indicated by the data, the ground water table beneath the project site has risen by approximately 4 feet as compared to the previous monitoring round (August 1990). A ground water surface contour map has been developed from the data obtained on 22 October 1990. Interpretation of the data indicates that ground water flow was toward the north and northeast at an approximate hydraulic gradient of 4% and it was consistent with the August 1990 data (Plate 1).

As shown in the attached table, sheen was noted on the ground water surface in the site monitoring wells MW-1, MW-2, MW-3, MW-8 and in the extraction well MW-13.

Chemical analyses of ground water samples indicate the presence of dissolved hydrocarbons as diesel in monitoring wells MW-2, MW-3, MW-8, MW-9, MW-13 and MW-15 at concentrations 190 mg/l, 34 mg/l, 0.7 mg/l, 0.2 mg/l, 0.2 mg/l and 0.1 mg/l, respectively. Dissolved hydrocarbons as waste oil were detected in wells MW-2, MW-3 and MW-8 at concentrations 110 mg/l, 24 mg/l and 0.5 mg/l, respectively. Polychlorinated biphenyls (PCBs) were detected in two wells MW-2 and MW-3 at concentrations 4 ug/l and 2 ug/l. Copies of the laboratory reports are available in our files.

As was mentioned above, several water samples from the site wells were also analyzed for BTXE (EPA Method 8020) during the October 1990 sampling round. As shown in Table 1 none compound was detected at or above laboratory detection limits. To this time all the site monitoring/extraction wells but MW-1 were tested for BTXE. No BTXE was found in any of the tested well water samples.

Based upon the analytical results, it appears that approximately 360 gallons of purge water from monitoring wells MW-4, MW-5, MW-6, MW-7, MW-10, MW-14 and MW-16 can be disposed on the ground. The purge water from wells MW-2, MW-3, MW-8, MW-9, MW-13 and MW-15 may be recycled in manufacturing process used by Industrial Asphalt. This recommendation is in accordance with the California Regional Water Quality Control Board (CRWQCB) decision to waive waste discharge requirements for purge water disposal on the ground at the project site (letter from S.R. Ritchie of the CRWQCB to K.S. Jesionek dated 22 May 1990).

Presently, monitoring at the Industrial Asphalt site occurs every other month. However, considering relatively low concentrations of the target compounds in ground water samples and consistent monitoring results, it is proposed that monitoring at the site be rescheduled to occur quarterly. Therefore, the next sampling event is scheduled for February 1991 unless ACDEH indicates otherwise. Also, it is proposed that the summary of collected data including conclusions and recommendations be presented in annual reports.

RI ACTIVITIES

The data from the pumping test has been evaluated and a Health Risk Assessment is being performed. It has also been decided to collect and analyzed for TPH as Diesel and PCBs water samples from two water supply wells located downgradient from the IA site. Therefore, it is expected that the RI report will be submitted to ACDEH around 20 December 1990. Additional excavation of impacted soil at the project site is tentatively scheduled for Saturday, 12 January 1990. An updated project schedule is attached to this report.

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

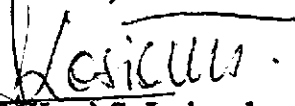
associated with such studies. If the Client wishes to reduce the uncertainty beyond the level associated with this study, Kleinfelder should be notified for additional consultation.

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.

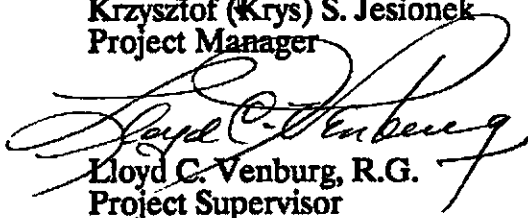
If you have any questions, please call the undersigned.

Sincerely,

KLEINFELDER, INC.



Krzysztof (Krys) S. Jesionek
Project Manager



Lloyd C. Venburg, R.G.
Project Supervisor

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

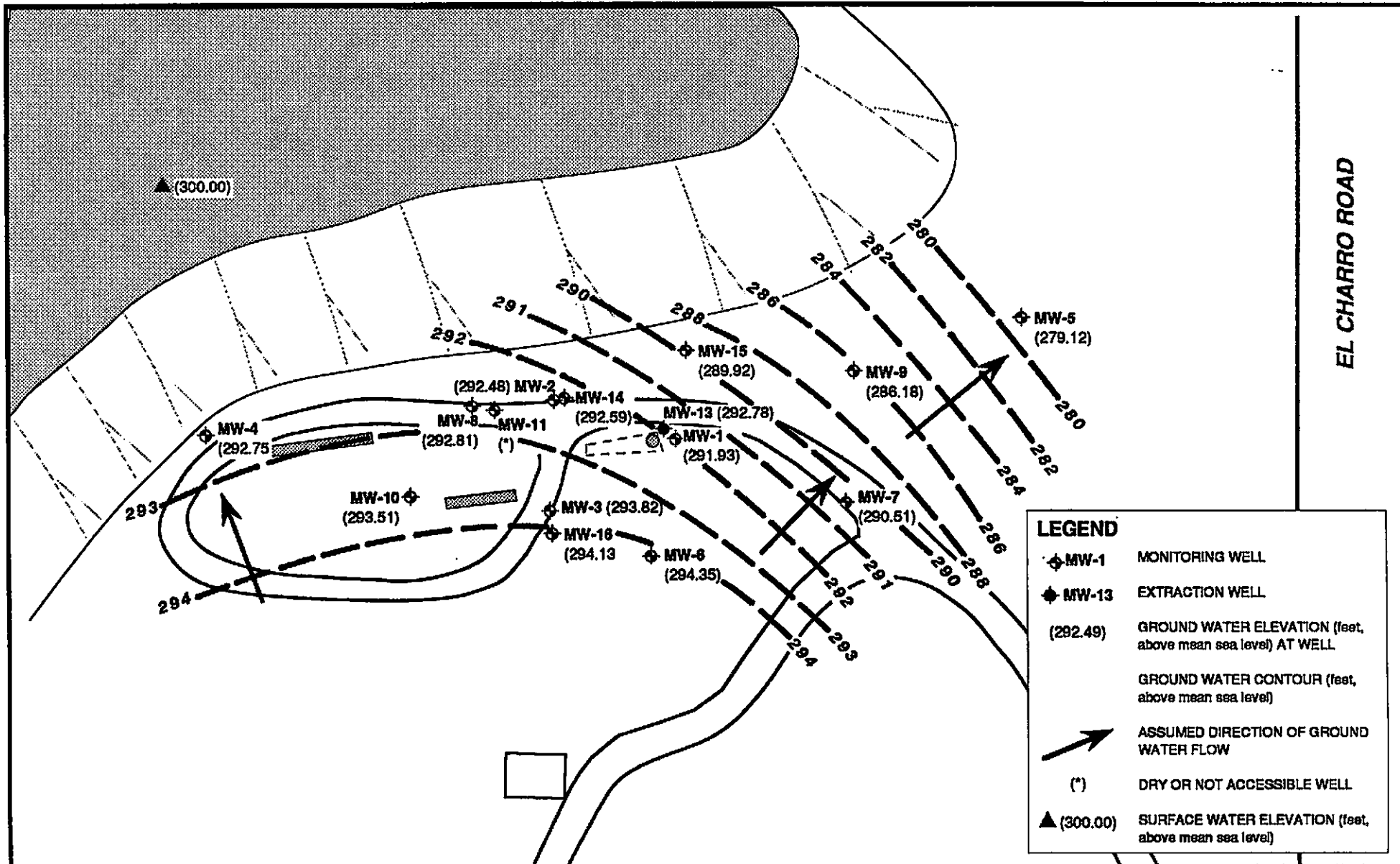
MONITORING PARAMETERS (22 October 1990)
INDUSTRIAL ASPHALT

Monitoring Well	Total Depth (feet)	Depth to Water ⁽¹⁾ (feet)	Ground Water Elevation ⁽²⁾ (feet)	Product Thickness (feet)	TPH as Diesel ⁽³⁾ (mg/l)	TPH as Waste Oil ⁽⁴⁾ (mg/l)	PCBs ⁽⁵⁾ µg/l	BTXE ⁽¹⁰⁾ µg/l
MW-1	88	87.48	291.93	SHEEN	NT	NT	NT	NT
MW-2	90	87.32	292.48	SHEEN	190	110	4	ND ⁽¹¹⁾
MW-3	90	84.72	293.82	SHEEN	34	24	2	ND
MW-4	95	83.51	292.75	NE	ND	ND	ND	NT
MW-5	110	103.43	279.12	NE	ND	ND	ND	NT
MW-6	109	84.80	294.35	NE	ND	ND	ND	NT
MW-7	109	88.43	290.51	NE	ND	ND	ND	NT
MW-8	109	85.75	292.81	SHEEN	0.7	0.5	ND	NT
MW-9	108	91.22	286.18	NE	0.2	ND	ND	NT
MW-10	111	84.53	293.51	NE	ND	ND	ND	NT
MW-11 ⁽⁸⁾	NA	NA	NA	NA	NA	NA	NA	NA
MW-13 ⁽⁹⁾	116	87.43	292.78	SHEEN	0.2	ND	ND	ND
MW-14	114.5	87.50	292.59	NE	ND	ND	ND	ND
MW-15	117	88.20	289.92	NE	0.1	ND	ND	ND
MW-16	110	85.52	294.13	NE	ND	ND	ND	ND
SG	NA	0.00 ⁽⁶⁾	300.00 ⁽⁷⁾	NA	NA	NA	NA	NA

NOTES:

- (1) Below top of casing
 - (2) Feet above mean sea level (USGS Datum)
 - (3) Laboratory detection limits - 0.05 mg/l
 - (4) Laboratory detection limit - 0.1 mg/l
 - (5) Laboratory detection limit - 0.5 µg/l
 - (6) Reading on the staff gage
 - (7) Surface water elevation in the pit
 - (8) Well abandoned on 8 August 1990
 - (9) Extraction well
 - (10) Laboratory detection limit - 0.3 µg/l
 - (11) Laboratory detection limit - 6 µg/l (diluted sample)
- BTXE Benzene, Toluene, Xylenes, Ethylbenzene
 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
 NT Not Tested





EL CHARRO ROAD

0 150
Approximate Scale (feet)



KH KLEINFELDER

**GROUND WATER SURFACE CONTOUR
MAP — 22 OCTOBER 1990**

PLATE

**INDUSTRIAL ASPHALT
PLEASANTON, CALIFORNIA**

1

BASE MAP SOURCE:
Wells surveyed by Associated Professions Inc. and Kleinfelder Inc.
Site details from 1987 photo (No. HAP-753), Pacific Aerial Surveys.

DRAFTED BY: L. Sue DATE: 11-28-90

CHECKED BY: K. Jesonek DATE: 11-29-90

PROJECT NO. 10-1682-03

Revised Project Schedule

TASK	FOR THE WEEK BEGINNING														
	11/26/90	12/3/90	12/10/90	12/17/90	12/24/90	12/31/90	1/7/91	1/14/91	1/21/91	1/28/91	2/4/91	2/11/91	2/18/91	2/25/91	3/4/91
1. REGIONAL DATA (1)															
2. SOIL SAMPLING (2)								→							
3. MONITORING/EXTRACTION WELL CONSTRUCTION AND SAMPLING (3)		→													
4. CHEMICAL ANALYSES (2)		→	→	→											
5. PUMPING TESTS (1)															
6. BASELINE HEALTH RISK ASSESSMENT		→													
7. RI REPORT					→										
8. GROUND WATER TREATMENT SYSTEM DESIGN AND CONSTRUCTION															
9. SOIL TREATMENT SYSTEM DESIGN AND CONSTRUCTION															
10. QUARTERLY REPORT												▲			
11. ANNUAL REPORT											▲				

(1) Indicates completed task

(2) Includes soil excavation and free product removal from vicinity of boring SB-1 and well MW-13 tentatively scheduled for 12 January 1991.

(3) Sampling of two downgradient water supply wells.