PROJECT STATUS REPORT: ENVIRONMENTAL ENGINEERING SERVICES INDUSTRIAL ASPHALT FACILITY PLEASANTON, CALIFORNIA



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1 CONCLUSIONS

The contaminants of concern at this site have migrated to the ground water table, and have contaminated ground water. The lateral and vertical extent of the contaminant plume, which are as yet unknown, should be delineated in order to assess the impact on soil and ground water resources. Remediation measures to clean-up the contaminated soil and ground water will be dependent on factors such as 1) concentration level of soil contamination, 2) concentration level of contamination of the ground water, 3) spatial extent of the contaminant plume, and 4) beneficial uses of the ground water.

2 RECOMMENDATIONS

Based on our analysis of the data and the work completed to date, we recommend that the following phases of work be undertaken to comply with the "Guidelines for Addressing Fuel Leaks" issued by the California Regional Water Quality Control Board, San Francisco Bay Region:

1) Tank Removal

The existing asphalt tanks should be excavated and disposed of at an appropriate disposal facility. Following removal of the tanks, any free product observed in the excavation should be removed and disposed of at a Class I disposal facility. Additionally, any diesel saturated backfill or native soil materials should be excavated and stockpiled. Soil samples should be collected within the excavation and analyzed to determine the concentration of contamination in soil remaining after excavation.

Well Canvass

A well canvass should be conducted to identify existing wells in the site area, use of the ground water, and information on well construction and development to aid in characterizing regional ground water conditions.

3) Soil Vapor Monitoring

A soil vapor monitoring survey should be conducted to identify the lateral extent of the contaminant plume in the subsurface.

4) Additional Monitoring Wells and Observations

The three onsite wells should be surveyed (level survey) on a regular basis (monthly) to continue monitoring depth to ground water and determination of any changes in floating product thickness and distribution. Additional monitoring wells should be installed to confirm the extent of the contamination plume and further characterize ground water contamination.

The results of these four recommended studies would aid in identifying beneficial ground water use, characterizing the contaminant plume and serve as a basis for identifying alternative remedial actions for both ground water and soil.

3 PROJECT DESCRIPTION

3.1 INTRODUCTION

This report presents the results of our second phase of the on-going environmental engineering services at the Industrial Asphalt facility in Pleasanton, California (Plate 1). This phase of work included the installation of three ground water monitoring wells and associated sample collection and laboratory analysis.

The results of the first phase of our investigation to characterize shallow soil conditions at the subject site were presented in our report entitled, "Final Environmental Investigation Report, Industrial Asphalt Facility, Eastern Alameda County, California", dated May 18, 1987.

3.2 PURPOSE AND SCOPE OF SERVICES

In accordance with our proposed workplan for the installation of three monitoring wells, dated May 22, 1987, this phase of the investigation was conducted to provide preliminary assessment of ground water conditions at the site.

The following scope of work was completed to meet this objective:

- 1. Permit and drill three borings to encounter ground water, MW-1 was drilled with 8-inch hollow stem auger and a CME-75 drill rig; MW-2 and MW-3 were drilled with Ingersoll Rand Cyclone rotary drill rig using air and mud.
- 2. Complete and develop each boring as a water monitoring well; Well MW-1 was completed as 2-inch well; Well MW-2 and MW-3 were completed as 4-inch wells.
- 3. Sample water and free product, if present, in each well, and collect sample of tank backfill material for laboratory analysis.
- 4. Analyze water and backfill samples for total petroleum hydrocarbons (TPH) as diesel and for polychlorinated biphenyls (PCB); analyze floating product sample for PCB.
- 5. Conduct level survey to evaluate depth to ground water and thickness of floating product, if present, in the three monitoring wells.
- Prepare status report summarizing field investigations and analytical data, and provide recommendations for further site investigation.



4. FIELD ACTIVITIES AND OBSERVATIONS

4.1 INTRODUCTION

Three soil borings were drilled and completed as water monitoring wells. The locations of these wells are shown on Plate 2 relative to the shallow soil borings completed in the first phase of this investigation and the underground tanks and above ground facilities onsite. Logs of the monitoring wells are shown on Plates 3 through 5.

4.2 DRILLING AND SOIL SAMPLING

On June 10 and 11, 1987, the first boring, MW-1, was drilled using a CME 75 drill rig equipped with 8-inch hollow-stem augers. A Kleinfelder geologist supervised the drilling and logged the soils encountered. Soil samples were obtained by advancing the boring to a point immediately above the sampling depth and then driving a Modified California sampler into the soil through the center of the auger with a 140 pound hammer falling 30 inches. Penetration resistance to driving the sampler was recorded as blows per foot. The soils encountered were visually classified in accordance with the Unified Soil Classification System (USCS) which is summarized on Plate 6.

Due to limited sample recovery and drilling conditions, the second and third borings, MW-2 and MW-3, were drilled with an Ingersoll Rand Cyclone mud rotary drill rig during the period July 22 through July 28, 1987. A Kleinfelder field geologist supervised the drilling and logged the borings by visually classifying the soils encountered in accordance with the USCS.

These three borings were completed as ground water monitoring wells as described in the following section.

4.3 WELL INSTALLATION

Monitoring well MW-1 was completed as a two inch diameter well installed within the auger drill stem. Monitoring wells MW-2 and MW-3 was completed as four-inch diameter wells. Construction details for these wells are presented on the respective boring and monitoring well data sheets and boring logs (Plates 3 through 5).

4.4 MONITORING WELL SAMPLING

Prior to well development and purging for sample collection, water level measurements were recorded and observations made for floating fuel product; results are listed in Table 4-1.

TABLE 4-1
MONITORING WELL DATA

<u>Well</u>	<u>Date</u>	Total Well <u>Depth</u> *	Depth* to Water	Depth* to Product	Product Thickness(feet)
MW-1	6-11-87 7-9-87 8-6-87	88 88 88	75 75.9 79.1	NE 75.9 75.9	NE <0.1 3.2
MW-2	8-6-87	89.3	NE	75.3	14.0
MW-3	8-6-87	90	75	NE	0 '

^{*} Depth measured in feet from top of casing
NE = Not encountered in well
NM = Not measured

To date, approximately three feet of floating product has been observed in monitoring well MW-1. In monitoring well MW-2, floating product was first encountered at a depth of approximately 75 feet; the sampling bailer was lowered to the bottom of the well (total depth = 89.3 feet) and no water was encountered. No floating product has been observed in monitoring well MW-3.



After purging, monitoring wells MW-1 and MW-3 were each sampled with a teflon bailer. Prior to sampling, the bailer was thoroughly washed with a tri-sodium phosphate (TSP) solution and rinsed with distilled water to minimize potential for cross-contamination. To collect a sample, the bailer was lowered in the well casing below static water level. The bailer was then retrieved from the well and the water sample was decanted into one liter glass bottle and 40 milliliter glass volatile organics analysis (VOA) vials. The samples were labelled and immediately placed in refrigerated storage for transport to the analytical laboratory. In addition, a sample of the floating product in monitoring well MW-2 was collected with teflon bailer, placed in one liter glass containers and prepared for shipment to the analytical laboratory.

4.5 BACKFILL SAMPLING

One bulk sample of the tank backfill gravel was collected adjacent to Tank 5 at bottom of tank depth (Plate 2). The bulk sample was placed in a one liter glass bottle, labelled, refrigerated, and prepared for shipment to the analytical laboratory for determination of total petroleum hydrocarbons as diesel and for polychlorinated biphenyls.

4.6 CHAIN-OF-CUSTODY

All samples were labelled and transported under chain-of-custody control to Med-Tox Associates, Inc., in Pleasant Hill, California, for laboratory analysis. Copies of the chain-of-custody forms are included in the Appendix of this report.



5. LABORATORY ANALYSES

A summary of the analytical results is presented in Table 5-1. Water samples were analyzed using EPA Method 602 for purgeable organics, EPA Method 8015 for Total Petroleum Hydrocarbons, and EPA Method 608 for polychlorinated biphenyls (PCB). The backfill sample was analyzed using EPA Method 8015 for Total Petroleum Hydrocarbons and EPA Method 8080 for PCBs. The product sample was analyzed using EPA Method 8080 for PCBs. Copies of the laboratory reports are included in the Appendix of this report.

As indicated in Table 2, total petroleum hydrocarbons (TPH) as diesel in the backfill gravel was present at a concentration level of 300 ppm. In the water sample from monitoring well MW-1, the TPH concentration was 350 ppm. The water sample from monitoring well MW-3 had a TPH concentration of 0.6 ppm. The maximum concentration of polychlorinated biphenyls of 18 ppm was detected in the sample of floating product from monitoring well MW-2.

Sample Identification	Total Petroleum Hydrocarbons <u>Diesel (ppm)</u>	Polychlorinated Biphenyls as <u>Arochlor 1260</u> (ppb)	Benzene (ppb)	Toluene (ppb)	Total Xylenes (ppb)	Ethylbenzenes (ppb)
PT-1 Backfill gravel	300	140	NT	NT	NT	NT
MW-1 Water	350	5.7	ND(200)	ND(200)	ND(200)	ND(200)
MW-2 Product		18000	NT	NT	NT	NT
MW-3 Water	0.6	ND(0.5 ppb)	NT	NT	NT	NT

ND = Not detected at given detection limit shown in parenthesis

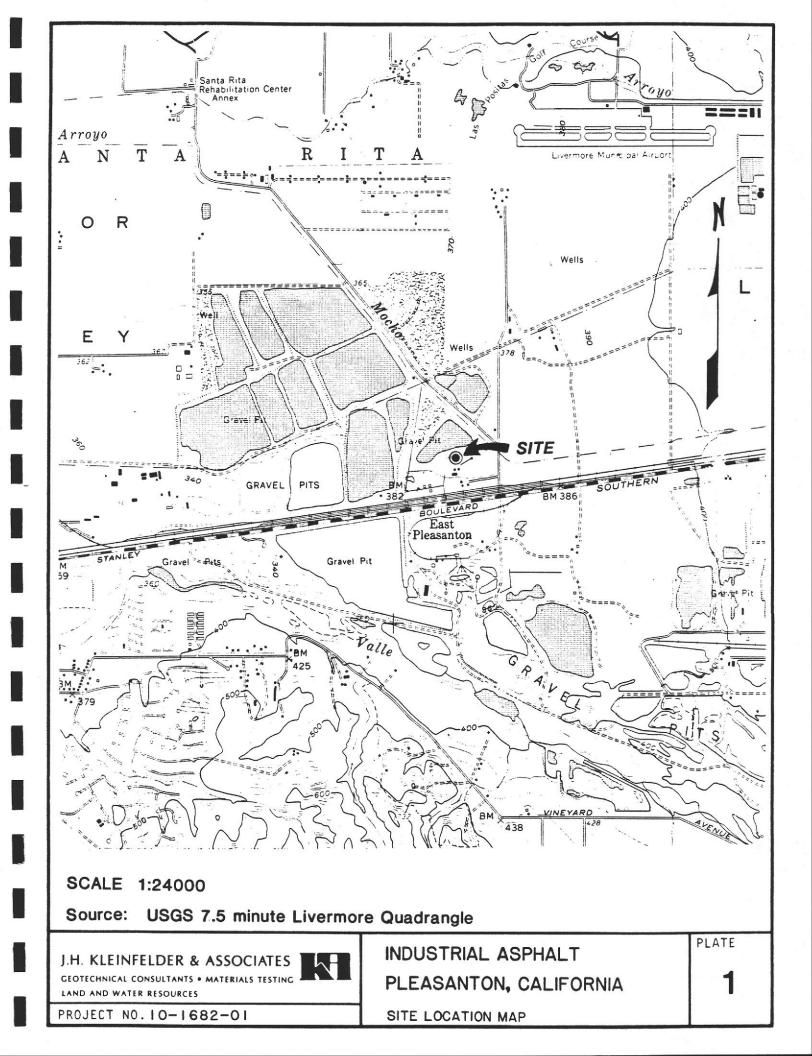
NT = Not tested.



6 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. Judgments 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 uncertainty beyond the level associated with this study, Kleinfelder & Associates 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 other warranties, expressed or implied, as to the professional advice provided are made. The recommendations provided in this report are based on the assumption that an adequate program of tests and field observations will be conducted by our firm during subsequent phases in order to evaluate compliance with the recommendations.



J.H. KLEINFELDER & ASSOCIATES GEOTECHNICAL CONSULTANTS . MATERIALS TESTING

PROJECT NO. 10-1682-01

PLEASANTON, CALIFORNIA

MONITORING WELL LOCATION MAP

2

12	J. H. KLEINFELDER & ASSOCIATES GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS
	GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

J. H. KLEINFELDER & ASSOCIATES	Project Industrial Asphalt	Boring
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS	Number 10-1682-02	No.
	Total Depth 88 feet	MW-1
BORING AND MONITORING-WELL DATA SHEET	Sheet 1 of 4	\neg

Owner & Mailing Information Industrial Asphalt 1645 Stanley Blvd. Pleasanton, CA				Sketch Map		
1645 Stanley Blvd.		Township / R	Range / Section	Sketch Map		
3-1-1-40-24-00-7-40-4-40-7-40-9-3-3-3-3-3-4-3-4-4-4-4-4-4-4-4-4-4-4-4	Other Identifi	iers				
Site Location (if different)						
Drilling Operations				'		
Drilling Agency H.E.W.	Driller / Cre Tomas/S.	ew / inspector Fox	1			
Rig Make / Model	Task	Start	Finish			
CME 75 Bit & Size	Drilling	6/15/87	6/16/87			
8 inch Hammer Data Wt. Drop	Completion	6/16/87	6/16/87			
140 lbs 30"	Development	7/09/87	7/09/87		Ti	2 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Well Development and Construc	ction			<u> </u>	97	
Monumentation	Develop	ment Info.	Well Design	Size & Type	Top	Bottom
Ref. Pt. Description			Surface Casing			
			Casing	2" Schedule 40	1	50
Elevations Ref. Pt. Ground				2" 0.020 slot	58	88
Datum Ground	-		Gravel Pack	#3 Sand	56	88
Markings	Yield Tes1?	(2//2)		Pellets	53	56
we will a	11610 1621:	(Y/N)	Concrete	Grout	Surface	53
Field Hydrologic Observations						
Weather	Date	Time	Water	Other Obse	ervations	
Sunny, Clear Recent Rainfall? Irrigation?	-	Thire	Level		3114116	
No						
Nearby Wells Pumping? Settling pond nearby.		c .				
Ditches? Utility Courses?	—					
			<u> </u>			
Remarks						

		Blow/ Ft.	Sample No.	USCS	Description	Well Const
	2 4 6			GP/ GM	SANDY GRAVEL - fill, brownish gray, medium dense, dry, fine- to medium-grained sand, subangular gravel up to 1/2-inch diameter, NOSC	
	8 —					
	10 —	6			SILTY CLAY - green, brown, low plasticity, medium stiff to stiff, dry, some roots present, NOSC	
	12 —					
э ө t)	14 —			CL		
Depth (feet)	16 —					
Del	18 -				- trace of sand present	
	20 -	21	21		- very stiff, some subangular to rounded gravel present, NOSC	
	22 -	-				
	24 -				SANDY GRAVEL - gray, brown, medium to very dense, dry, medium- to coarse-grained sand, subangular to rounded gravel up to 1/4-inch diameter, NOSC	- 22222 - 22222 - 22222
	26 -	1		GP/		
	28 -			GM		
	30 -					
		49				



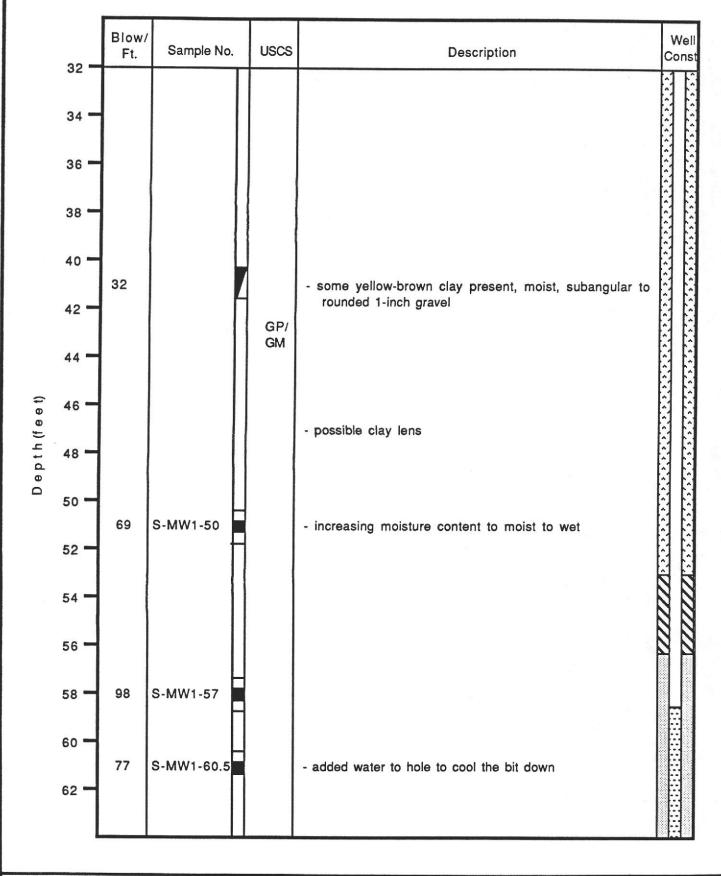
PROJECT NO.10-1682-02

INDUSTRIAL ASPHALT PLEASANTON, CALIFORNIA

BORING LOG NO. MW-I

PLATE

3b





KLEINFELDER

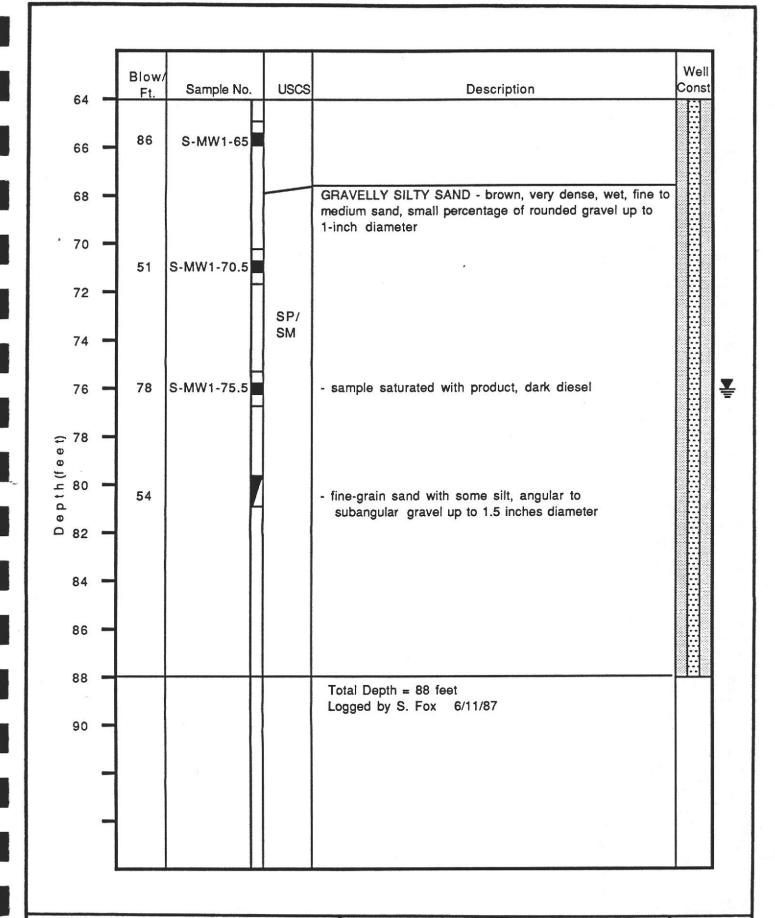
INDUSTRIAL ASPHALT PLEASANTON, CALIFORNIA

BORING LOG NO. MW-I

PLATE

3c

PROJECT NO.10-1682-02





PROJECT NO.10-1682-02

INDUSTRIAL ASPHALT PLEASANTON, CALIFORNIA

BORING LOG NO. MW-I

PLATE

3d



BORING	AND	MONI	TORIN	G-WELL	DATA	CHEET
DOMING	AIND	IVIOIA	IUNIII	CI-AAFFF	DAIA	STILL

Project Industrial Asphalt	Boring
Number 10-1682-02	No.
Total Depth 90 feet	MW-2
Sheet 1 of 4	

ocation				Sketch Map		
Owner & Mailing Intermation		Township / F	Range / Section			
Industrial Asphalt 1645 Stanley Blvd Pleasanton, CA	Other Identifiers		-			
Site Location (if different)						
Orilling Operations				·		
Drilling Agency P.C. Exploration	Driller / Cr Scott/Day	ew / Inspecto e/S. Fox	г			
Rig Make / Model	Task	Start	Finish			
Ingersoll Rand/Cyclone Mud Bit & Size	Drilling	7/22/87	7/24/87			
Tri-Cone/8-7/8 inches	Completion	7/24/87	7/27/87			
Hammer Data Wt. Drop	Development	8/06/87	8/06/87	20		
Well Development and Construc	ction		· · · · · · · · · · · · · · · · · · ·			
Monumentation		ment Info.	Well Design	Size & Type	Тор	Bottom
Ref. Pt. Description			Surface Casing	0.20 0 1,700	100	Bottom
			Casing	411 6 1 1 2 40		
Elevations	_			4" Schedule 40	1	65
Ref. Pt. Ground			Well Screen	4" 0.020 slot	65	90
Datum			Gravel Pack	#3 Sand	62	90
Markings	Yield Test? (Y/N)		Bentonite	Pellets	59	62
	44 19 7 7 9 9 9 7 1 8 9 9 7 9 9 9 9 7 9 9 9 9 7 9 9 9 9 7 9		Concrete	Grout	0	62
ield Hydrologic Observations						11
Weather Sunny-Clear	Date	Time	Water	Other Obs	ervations	
Recent Rainfall? Irrigation?			1			
No Nearby Wells Pumping?						
Settling pond nearby.						
Ditches? Utility Courses?	—					
			i			
Remarks						
100 N						
Had trouble because of the ca			sandy gravels a	at depth. Drilled w	ith air until	26 feet.
then the rest of the hole was	s drilled with	mud.				
		Andrew Milana Anna Anna Anna				
	<u> </u>					1.0
						Plate

	0		Blow/ Ft.	Sample No.	USCS	Description	We
						Asphalt	2
	2	-		-	GP	GRAVEL - fill, brownish gray, medium dense, dry, angular gravel up to 1/4-inch diameter, NOSC	22.22
	4	-					55.55
	6	-				SILTY CLAY - green, brown, low plasticity, medium	22.22
	8	-				stiff to stiff, dry, NOSC	22.22
	10				CL		5555
	12	_				A No. of the second sec	22.22.2
Depth (feet)	14	4					2222
	16	4					22222
2	18	_				 some subangular to rounded gravel up to 1/4-inch diameter 	2222
	20	-					25252
	22	4					25.55
•	24	4				SANDY GRAVEL - gray, brown, medium to very dense, dry, medium- to coarse-grained sand, subangular to	
	26	4			GP/	rounded gravel up to 1/2-inch diameter	22.22
	28	4			GM GM	- losing air down the hole, started drilling with water	27.7.7.
	30					at 26 feet	77.7

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INDUSTRIAL ASPHALT PLEASANTON, CALIFORNIA

PLATE

4b

PROJECT NO.10-1682-02

BORING LOG NO. MW-2

	32		Blow/ Ft.	Sample No.	USCS	Description	Wel Cons
	34		,				233333
	36	_					
	38	_					
	40	-					
	42	_					
	44					- some clay and silt in returns	
6	46	-					
n a b i i i d a n	48	-			GP/ GM		
)	50	-	push	S-MW2-50		- layers with increasing silt and clay	
	52	-					
	54	1				a a	
	56	-					
	58	1					
	60	1				*	
	62	1	push	S-MW2-63		- sample recovery just in the bit of the sampler	



PROJECT NO.10-1682-02

INDUSTRIAL ASPHALT PLEASANTON, CALIFORNIA

BORING LOG NO. MW-2

PLATE

4c

	64		Blow/ Ft.	Sample No.	USCS	Description	Wel Cons
	66	_					BSSSS
	68	-		-			REBERE
	70	-					H444444
	72	-	2		GP/ GM	<i>†</i>	515151515
	74	-	to to				1 33.
	76	4					9383839
0 0 t)	78	-					H383838
Depth (feet)	80	4					388888
Ď	82				140		188888
	84	4					FERREFERE
	86	+					1331313
	88	+					333333
	90	+				Total depth = 90.0 feet	<u> </u>
	92	+				Total depth = 90.0 feet Logged by S. Fox 7/24/87	**
	94	4					

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INDUSTRIAL ASPHALT PLEASANTON, CALIFORNIA

BORING LOG NO. MW-2

PLATE

4d

PROJECT NO.10-1682-02



0001110	4 5 10					
ROKING	AND	MON	HORI	ING-WELL	. DATA	SHEEL

Project Industrial Asph	alt Boring
Number 10-1682-02	No.
Total Depth 90 feet	. MW-3
Sheet 1 of 4	

ocation	17			Sketch Map		
owner & Mailing Information		Township / R	ange / Section			
Industrial Asphalt 1645 Stanley Blvd.	-	Other Identifi	ers			
Pleasanton, CA	,					
ite Location (if different)						
rilling Operations						
P.C. Exploration	Driller / Cre Scott/Dave	ew / Inspector e/S. Fox				
ig Make / Model	Task	Start	Finish			
Ingersoll Rand/Cyclone Mud	Drilling	7/26/87	7/28/87			
Fish Tail/7-1/2 inch	Completion	7/28/87	7/28/87			
ammer Data Wt. Drop	Development	8/06/87	8/06/87			
/all Davidonment and Constru	ction					
Vell Development and Constru-		ment Info.	Well Design	Size & Type	Тор	Bottor
Ref. Pt. Description	Develop	ment into.	Surface Casing	Size d Type	1 105	DOTTO
levations			Casing	4" Schedule 40	1	65
def. Pt. Ground			Well Screen	4" 0.020 Slot	65	90
atum			Gravel Pack	#3 Sand	62	90
tarkings	Yield Test?	Yield Test? (Y/N)		Pellets	59	62
	8		Concrete	Grout	Surface	62
eld Hydrologic Observations						
Veather Sunny-Clear	Date	Time	Water	Other Obs	ervations	
Recent Rainfall? Irrigation?			Level			
No		-				
learby Wells Pumping? Settling pond nearby.						
Ottohes? Utility Courses?						
			<u> </u>			
emarks						
				U Al	:	
The first 23 feet were drill				When the drilling sw	itched from ai	r to
				When the drilling sw	itched from ai	r to
The first 23 feet were drill				When the drilling sw	itched from ai	r to
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The first 23 feet were drill				When the drilling sw	itched from ai	r to
The first 23 feet were drill				When the drilling sw	itched from ai	r to
The first 23 feet were drill				When the drilling sw	itched from ai	r to
The first 23 feet were drill				When the drilling sw	itched from ai	r to

	0		Blow/ Ft.	Sample No.	USCS	Description	Con
	U					Asphalt	7.
	2	_			GP	GRAVEL - fill, brownish gray, medium dense, dry, angular gravel, NOSC	2222
	4	-				SILTY CLAY - light brown, green, low plasticity, medium stiff to stiff, rare coarse-grained sand present, NOSC	25222222
	6	_					22.22
	8	-				- increase in moisture content	
	10	-			CL		22.22
	12	-					
(1 0 0 1)	14	-					
Depth (feet)	16						2777
۵	18						
	20	-				SANDY GRAVEL - gray-brown, medium to very dense,	
	22	-				dry, coarse-grained sand, subangular to rounded gravel up to 1/2-inch diameter, NOSC	252525
	24	-			GP/	- losing air down the hole, started drilling with water at 23 feet	
	26				GM		
	28	-					
	30	_					22.22



PROJECT NO.10-1682-02

INDUSTRIAL ASPHALT PLEASANTON, CALIFORNIA

BORING LOG NO. MW-3

PLATE

5b

	00		Blow/ Ft.	Sample No.	USCS	Description	Well Const
Depth (feet)	32 34 36 38 40 42 44		Ft.	Ft. Sample No.	GP/ GM	- some coarse sand present	
Depth	48 50	_	i.				
	52	_					
	54	-				- difficult drilling at 55 feet, probably a large cobble	"J ".
	56	-				- angular gravel less than 1/4-inch diameter	
	58	_					
	60						
	62	-	push	MW3-62		- sample contains drilling mud and broken gravel less than 1/4-inch diameter	

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INDUSTRIAL ASPHALT PLEASANTON, CALIFORNIA

BORING LOG NO. MW-3

PLATE

5c

PROJECT NO.10-1682-02

	64		Blow/ Ft.	Sample No.	U	ISCS	Description	Well Const								
	66		push			GP/ GM		5888888								
	68	_		e e		Civi		888888								
	70	_						13 13 13 13								
	72	_					CLAYEY GRAVEL - brown, medium dense, medium plastic clays, no free product visible in the drilling mud	3383833 3383333								
	74	_		S-MW3-75		GC	- Sample MW3-75 composed of drilling mud and angular	8383838								
	76	-										^				gravel up to 1-inch diameter, no free product
feet)	78	-						99999								
Depth (feet)	80	-							\$393934 5							
Q	82	+														
	84	-						333333								
	86	_				3		833333								
	88						- Sample MW3-90 composed of drilling mud and small	3333333								
	90	=	push	S-MW3-90	╪		angular gravel									
	92		72				Total Depth = 90.0 feet Logged by S. Fox 7/28/87									
	94	_														
*																

14	K	L	E	I	N	F	E	L	D	E	R
				-		-		-		_	

INDUSTRIAL ASPHALT PLEASANTON, CALIFORNIA

BORING LOG NO. MW-3

PLATE

5d

PROJECT NO.10-1682-02

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR	DIVISIONS	LTR	DESCRIPTION	MAJOR	DIVISIONS	LTR	DESCRIPTION	
		GW	Well-graded gravels or gravel sand mixtures, little or no fines.			ML	Inorganic sitts and very fine sands, rock flour, sitty or clayey fine sands or clayey sitts with slight plasticity.	
COAPISE	GRAVEL AND	GP	Poorly-graded gravels or gravel sand mixture, little or no fines.		SILTS	CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays,	
	GRAWELLY SOILS	GM	Sity gravels, gravel-sand-clay mixtures.		CLAYS LL < 50	-	silty clays, lean clays.	
		GC	Clayey gravels, gravel-sand-clay mixtures.	FINE		OL	Organic sitts and organic sitt-clays of low plasticity.	
SRAINED SOILS	SAND	sw	Well-graded sands or gravelly sands, little or no fines.	GRAINED	SILTS	мн	fnorganic sitts, micaceous or diatomaceous fine or sitty soils, elastic silts.	
	AND	SP	Poorly-graded sands or gravelly sands, little or no fines.		AND CLAYS	СН	Inorganic clays of high plasticity, fat clays.	
	SOILS	OILS S M Sitty sands, sand-sitt mixtures.			LL > 50	он	Organic clays of medium to high plasticity.	
		sc	Clayey sands, and-clay mixtures.	HIGHLY ORG	HIGHLY ORGANIC SOILS		Peat and other highly organic soils.	

	Standard penetration split spoon sample		Blank casing
	Modified California (Porter) sample	器	Screened Casing
Ι	Shelby tube sample	ഥ	
÷	Water level observed in boring	<u>``</u>	Cement grout
*	No recovery		Bentonite
NFWE	No free water encountered		Sand pack or gravel pack
NOSC	No odor, scent, or fluid cut	1000	

NOTES:

Blow count represents the number of blows of a 140-pound hammer falling 30 inches per blow required to drive a sampler through the last 12 inches of an 18-inch penetration.

The lines separating strata on the logs represent approximate boundaries only. The actual transition may be gradual. No warranty is provided as to the continuity of soil strata between borings. Logs represent the soil section observed at the boring location on the date of drilling only



INDUSTRIAL ASPHALT PLEASANTON, CALIFORNIA

BORING LOG LEGEND

PLATE

6





OCCUPATIONAL & ENVIRONMENTAL HEALTH SERVICES

3440 Vincent Road • Pleasant Hill, CA 94523 • [415] 930-9090

LABORATORY ANALYSIS REPORT

J.H. KLEINFELDER & ASSOCIATES

DATE: 07/30/87

1901 OLYMPIC BLVD

SAMPLES RECEIVED:

07/09/87

STEVE FOX ATTN:

WALNUT CREEK, CA 94596

MED-TOX JOB NO.:

8707025

PURCHASE ORDER NO:

10.1682.1

ANALYSIS OF: POLYCHLORINATED ONE WATER SAMPLE FOR TOTAL PETROLEUM HYDROCARBONS, BIPHENYLS,

BENZENE,

TOLUENE,

XYLENES,

ETHYLBENZENE

METHOD: EPA 8015 (PURGE & TRAP), 608, 602

Sample Iden Client	tification Lab. No.	Total Petroleum Hydrocarbons As Diesel (mg/L)	Polychlorinated Biphenyls as Aroclor 1260 (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Total Xylenes (ug/L)	Ethylbenzene (ug/L)
MW-1	01A	350	5.7	ND	ND	MD	MD
Trip blank	02A	ND	NA	ND	ND	ND	ND
Detection L	init	10	1	200	200	200	200

ND = Not Detected

NA = Not Applicable: analysis not requested

NOTE: Elevated detection limits for aromatic compounds resulted from sample's relatively high hydrocarbon content

Organic Group Leader

LR20-52

SAN DIEGO

TUSTIN

PLEASANT HILL

SEATTLE

The second of th LAIN OF CUSTODY RECOR SAMPLERS: (Signature) SHIPPING INFORMATION J.H. Kleinfelder SHIP TO: Date Shipped. Shipment Service Airbill No .-ATTENTION: M.Y. Cooler No .-Phone No. Date/Time Received by: (Signature) Relinquished by: (Signature) Date/Time Received by: (Signature) Relinquished by: (Signature) Date/Time Received by: (Signature) Relinquished by: (Signature) Date/Time Receive for laboratory by : (Signature) Relinquished by: (Signature) 1 Lunne Analysis laboratory should complete, "sample condition upon receipt", section below, sign and return top copy to J. H. KLEINFELDER & ASSOCIATES, 1901 Olympic Blvd., Suite 300, Walnut Creek, California 94596 * Analysis laboratory should complete, Sample Condition **Analysis** Date Site Sample **Upon Receipt** Requested Sampled Identification Number OK MW-1 10-1682-1

LAB INSTRUCTIONS: Laboratory reports should reference and be billed by site ID# and contain the following:

summary of analytical methodology and QA work (blanks, spikes, duplicates) dates for (a) sampling, (b) lab receipt, (c) extraction, (d) injection/analysis detection limits for all constituents analyzed for and reporting of all constituents detected which were not specifically designated



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LABORATORY ANALYSIS REPORT

J. H. KLEINFELDER & ASSOC.

WALNUT CREEK, CA 94596

DATE: 08/05/87

1901 OLYMPIC BLVD.

SAMPLES RECEIVED:

07/30/87

ATTN: STEVE FOX

MED-TOX JOB NO:

8707092

PURCHASE ORDER NO:

10-1682-02

ANALYSIS OF: ONE GRAVEL SAMPLE FOR POLYCHLORINATED BIPHENYLS AND TOTAL PETROLEUM HYDROCARBONS.

METHOD: EPA 8080, 8015 (EXTRACTION)

Polychlorinated Total Petroleum
Biphenyls as Hydrocarbons
Sample Identification Aroclor 1260 As Diesel
Client Lab No. (mg/kg) (mg/kg)

PT-1

01A

0.14

300*

Detection Limit

0.01

50

* GC analysis also indicated the presence of hydrocarbons of higher molecular weight than those typically found in diesel fuel.

Michael J Jaeger Organic Group Leader

LR6-P10

Note: Results reported verbally 08/03/87.

SAN DIEGO

TUSTIN

PLEASANT HILL

SEATTLE

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med Tox	Shipper J. H. Kleinfel		
Pleasant Hill	7/2 (0)		
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LABORATORY ANALYSIS REPORT

J.H. KLEINFELDER & ASSOC. 1901 OLYMPIC BLVD., STE. 300

WALNUT CREEK, CA 94596

ATTN: STEVE FOX

DATE: 09/02/87

1

SAMPLES RECEIVED: 08/07/87

MED-TOX JOB NO: 8708018

PURCHASE ORDER NO: 10.1682.01

ANALYSIS OF: ONE WATER SAMPLE FOR POLYCHLORINATED BIPHENYLS AND TOTAL PETROLEUM HYDROCARBONS; ONE FUEL SAMPLE FOR POLYCHLORINATED BIPHENYLS

METHOD: EPA 608, 8015 (PURGE & TRAP), 8080

Polychlorinated Biphenyls as Sample Identification Aroclor 1260 Lab No. Client (mg/kg) MW-2 01A 18

Detection Limit

See attached for remaining results.

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PAGE 2 OF 2

Sample Ide	entification Lab No.	Polychlorinated Biphenyls as Aroclor 1260 (ug/L)	Total Petroleum Hydrocarbons As Diesel (mg/L)
MW-3	02A	ND	0.6
Detection Limit ND = Not Detected.		0.5	0.1
Michael J. Organic Ex	Jaeger Jaeger Soup Leader		LR34-P10

SHIPPING INFORMATION Phone: 41/5 938 5610 SHIPPO: Med Toy P.H. Shipper J.H. Kle. fielder Address Walnyt Creek Date Shipped Dig fat Shipper J.H. Kle. fielder Address Walnyt Creek Date Shipped Dig fat Shipper J.H. Kle. fielder Address Walnyt Creek Date Shipped Dig fat Shipper J.H. Kle. fielder Address Walnyt Creek Date Shipped Dig fat Shipper J.H. Kle. fielder Address Walnyt Creek Date Shipped Dig fat Shipper J.H. Kle. fielder Address Walnyt Creek Date Shipped Dig fat Shipper J.H. Kle. fielder Address Walnyt Creek Date Shipped Dig fat Shipper J.H. Kle. fielder Address Walnyt Creek Date Shipped Dig fat Signature) Pate Time Palliquished by: (Signature) Date Time Palliquished by: (Signature) Pate Time Palliquished by: (Signature) Date Time Palliquished by: (Signature) Palliquished by: (Signature) Date Time Palliquished by: (Signature) Palliquished by: (Signature) Date Time Palliquished by: (Signature) Date	('AIN OF	CUSTODY RECOR			
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