KLEINFELDER

June 14, 1995

File: 10-1682-03/38

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

SUBJECT: Semi-Annual Report (September 1994 — February 1995) Industrial Asphalt, Pleasanton, California

Dear Mr. Hunt:

Kleinfelder, Inc., is pleased to submit this semi-annual report including data from September 1994 through February 1995 for the Industrial Asphalt site in Pleasanton, California (Plate 1). Semi-annual progress reports were requested by the Alameda County Department of Environmental Health (ACDEH).

INTRODUCTION

Thirteen monitoring wells and eleven extraction wells are present onsite. Groundwater remediation began in July, 1994. Data collected from the quarterly monitoring of monitoring wells have been used to evaluate the nature and extent of the plume and the ground water gradient beneath the site. The locations of the monitoring and extraction wells are shown on Plate 2. All accessible monitoring wells are monitored for depth to water and product thickness (if present) on a quarterly basis in accordance with recommendations in the Remedial Investigation Report dated December 28, 1990. Groundwater samples were collected and analyzed for the target compounds including total petroleum hydrocarbons (TPH) as diesel (TPH[d]) and oil (TPH[o]), and polychlorinated biphenyls (PCBs). Additionally, as requested by the ACDHS in their letter to your firm dated February 21, 1991, water samples were also analyzed for Total Oil and Grease (TOG) and Total Hydrocarbons (TH).

Water samples were collected in November 1994 and February 1995. In November, all but one (MW-9) of the thirteen onsite groundwater monitoring wells (MW-1, MW-2, MW-3, MW-4, MW-5, MW-6, MW-7, MW-8, MW-10, MW-14, MW-15, and MW-16) were sampled. Monitoring well MW-9 was not accessible due to flooding on the sampling days. In February, wells MW-3 and MW-9 were not accessible or sampled due to flooding and a parked vehicle. Duplicate samples were collected from monitoring wells MW-2 and MW-14 in November 1994,

and from wells MW-2 and MW-8 in February 1995. In addition to the onsite monitoring wells, an offsite water supply well located on the adjacent Jamieson property was sampled via a hose tap. Refer to Plate 2 for the location of all wells and the offsite well.

WATER LEVEL MONITORING DATA

Groundwater surface elevations were measured in monitoring wells on November 14 and 28, 1994 and on February 14, 1995, prior to sampling. The November 28 measurements were taken following a period of heavy rainfall. Water levels in the eleven groundwater extraction wells were measured for the first time during the February sampling round. These measurements are summarized on Table 1.

Overall groundwater surface elevations at the site dropped an average of about 2.0 feet from August 23 to November 14, 1994, with a further drop of about 0.5 feet between November 14 and 28, 1994. From November 28, 1994, to February 14, 1995 surface elevations continued to fall another 2.9 feet. In total, water levels beneath the site fell an average of about 5.4 feet through the fall and early winter.

On November 14, 1994, groundwater flow directions beneath the site were to the west and northwest with gradients varying from 0.004 on the east, steepening to 0.009 in the central portion of the site, then flattening to 0.001 on the west (Plate 3). At the time the groundwater remediation system was pumping an average of 7.8 gallons per minute for the prior week. Two weeks later, on November 28, 1994, the groundwater flow direction beneath the site was consistently towards the west with an overall gradient of 0.002 with a slightly steeper gradient to the east. At that time the remediation system was removing about 13 gallons per minute for the prior week. By February 24, 1995, the groundwater flow beneath the site had shifted to a northerly direction at the western and central portions of the site and towards the northeast beneath the eastern portion of the site as operation of the remediation system became more consistent. Relatively steep gradients of 0.02 to the north and east were apparent in the vicinity of well EW-6, which had the highest water level reported for the site. A flatter gradient of 0.004 to the north was inferred beneath the central portion of the site, shifting to the northeast (towards Arroyo Mocho) beneath the eastern portion of the site and away from the influence of the extraction wells. Drawdown cones were noted in the areas of wells EW-7 and EW-11 in particular. At this time the remediation system was pumping approximately 5.8 gallons per minute for the prior week.

GROUNDWATER CHEMISTRY MONITORING RESULTS

Groundwater samples collected from the site were analyzed by American Environmental Network (AEN) laboratories, a State-certified analytical laboratory. The samples were analyzed for TPH(d) and TPH(o) using a modified EPA Test Method 8015 (extraction), for TOG using standard method (SM) 5520C, for TH using SM-5520F, and for PCBs using EPA Test Method 8080. Analytical data are summarized on Table 2. Complete analytical laboratory reports for the

November 1994 and February 1995 sampling events along with chain of custody records are included in the Appendix.

A sheen and/or hydrocarbon-like odors were reported for four of the thirteen wells sampled during these two rounds (MW-1, MW-2, MW-3, and MW-8).

No detectable concentrations of PCBs were found during the November sampling round. PCBs were detected in February in only one sample (from MW-1) at a concentration of 0.8 μ g/L. PCBs were last detected in a sample collected from this well in May 1994 at a concentration of 0.7 μ g/L.

No petroleum hydrocarbons were detected in wells MW-5, MW-6, or the Jamieson production well in November 1994. No petroleum hydrocarbons were detected in wells MW-4, MW-6 or the Jamieson well in February 1995.

TPH(d) was detected in the samples collected from nine of the thirteen sampled wells (MW-1, MW-2, MW-3, MW-7, MW-8, MW-10, MW-14, MW-15, and MW-16) in November 1994. TPH(o) was detected in seven of the wells (MW-1, MW-2, MW-3, MW-7, MW-8, MW-10, MW-15). TOG was detected in seven of the wells (MW-1, MW-2, MW-3, MW-4, MW-7, MW-8, MW-10). The highest petroleum hydrocarbon concentrations were detected in the sample collected from MW-2 in November 1994.

In February 1995, TPH(d) was detected in samples from six of the twelve wells (MW-1, MW-2, MW-7, MW-9, MW-10, MW-15). TPH(o) was detected in samples from eight wells (MW-1, MW-2, MW-5, MW-7, MW-8, MW-10, MW-14, MW-16). TOG was found in samples from seven wells (MW-1, MW-2, MW-7, MW-8, MW-10, MW-15, MW-16). TH was detected in samples from four wells (MW-1, MW-2, MW-8, MW-10. The highest petroleum hydrocarbon concentrations were found in the sample water collected from MW-1.

Duplicate samples were collected from wells MW-2 and MW-14 in November 1994. The duplicate results from MW-2 differ between four to seven times of each other, which is outside of typical quality control limits. In February 1995 duplicate samples were collected from MW-2 and MW-8. Analytical results for these samples appeared to be in fair agreement with one another indicating acceptable levels of field and laboratory precision.

SUMMARY

A review of the data available from the November 1994 and February 1995 sampling rounds at the Industrial Asphalt site indicates the following:

• The groundwater surface elevation beneath the site decreased approximately 2.5 feet between August 23 and November 28, 1994, and 2.9 feet between November 28, 1994 and February 14, 1995. The groundwater flow direction has shifted from the northwest to a complex pattern as the treatment system has increased its operating rate.

- Between November 1994 and February 1995, petroleum hydrocarbon concentrations beneath the site were similar except for well MW-1 (a six-fold increase) and MW-2 (a 50 percent increase).
- In August 1994 no petroleum hydrocarbons were detected in wells MW-4, MW-5, MW-6, MW-10, MW-14, MW-15, MW-16, or the Jamieson well. These constituents were not detected in wells MW-5, MW-6, or the Jamieson well in November 1994. During the most recent sampling round in February 1995, wells MW-4, MW-6, and the Jamieson well did not contain detectable levels of the target constituents.
- In the last three years, PCBs were detected in samples collected from MW-1 only during the May 1992 (1 μg/l), August 1993 (2 μg/l), February 1994 (0.7 μg/l), May 1994 (0.7 μg/l) and February 1995 (0.8 μg/l) sampling rounds.

RECOMMENDATIONS

Oil and grease, TPH(d), TPH(o), TOG, total hydrocarbons, and PCBs have occasionally been found in water samples obtained from most of the onsite monitoring wells. It is recommended that quarterly sampling be continued and that water samples be analyzed for the same compounds. This is to allow an assessment of possible changes in concentrations of these compounds in the groundwater at various locations and to document changes in groundwater contamination during site remediation.

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 other representations, expressed or implied, and no warranty or guarantee is included or intended.

This report may be used only by the client and only for the purposes stated, within a reasonable time from its issuance. Land use, site conditions (both onsite and offsite) or other factors may change over time, and additional work may be required with the passage of time. Any party other than the client who wishes to use this report shall notify Kleinfelder of such intended use. Based on the intended use of the report, Kleinfelder may require that additional work be

performed and that an updated report be issued. Non-compliance with any of these requirements by the client or anyone else will release Kleinfelder from any liability resulting from the use of this report by any unauthorized party.

If you have any questions regarding this report or require additional information, please contact the undersigned at (510) 484-1700.

Sincerely,

KLEINFELDER, INC.,

Guy A. Jett, R.G.

Project Geologist

Daniel S. Carroll, P.E.

Project Manager

GAJ\JER\ch

cc: Ravi Arulanantham - Alameda County Department of Environmental Health
 John Jang - California Regional Water Quality Control Board
 Jerry Killingstad - Alameda County Flood Control and Water Conservation District, Zone 7

TABLE 1
SUMMARY OF GROUND WATER ELEVATIONS
INDUSTRIAL ASPHALT

		Product	Depth to						
Well	Date	Thickness	Water	Elevation			Trend .		
Number		(ft)	(ft)	(ft, MSL)		22			
Control Address of the Control of th									
MW-1	5/16/94	SHEEN	72.72	306.69	325 F				
MP Elev.	8/23/94	SHEEN	68.82	310.59	315		-	-	
379.41	11/14/94	SHEEN	71.29	308.12	295	_			•
Well Depth	11/28/94	SHEEN	71.44	307.97	285				
88	2/14/95	SHEEN	74.77	304.64	4/01/94	7/01/94	9/30/94	12/30/94	4/01/95
MW-2	5/16/94	SHEEN	72.91	306.89	325 _T				
MP Elev.	8/23/94	SHEEN	70.49	309.31	315		-		_
379.80	11/14/94	SHEEN	72.16	307.64	305 =				•
Well Depth	11/28/94	SHEEN	72.16	307.64	285				
90	2/14/95	SHEEN	75.16	304.64	4/01/94	7/01/94	9/30/94	12/30/94	4/01/95
MW-3	5/16/94	SHEEN	71.26	307.28	325 E				
MP Elev.	8/23/94	SHEEN	68.82	309.72	315				_
378.54	11/14/94	SHEEN	70.76	307.78	305				•
Well Depth	11/28/94	SHEEN	71.19	307.35	285	· · · · · · · · · · · · · · · · · · ·			
90	2/14/95	SHEEN	73.73	304.81	4/01/94	7/01/94	9/30/94	12/30/94	4/01/95
0.0000000									
MW-4	5/16/94	NE	69.26	307.00	325 E				
MP Elev.	8/23/94	NE	67.76	308.50	315		-	1-1	
376.26	11/14/94	NE	69.12	307.14	295			•	
Well Depth	11/28/94	NE	69.53	306.73	285			10/20/04	4/01/05
95	2/14/95	NE	71.71	304.55	4/01/94	7/01/94	·9/30/94	12/30/94	4/01/95

TABLE 1 SUMMARY OF GROUND WATER ELEVATIONS INDUSTRIAL ASPHALT

		Product	Depth to						
Well	Date	Thickness	Water	Elevation			Trend		
Number		(ft)	(ft)	(ft, MSL)					
MW-5	5/16/94	NE	79.04	303.51	325 F				
MP Elev.	8/23/94	NE	68.60	313.95	315 + 305 +				
382.55	11/14/94	NE	73.10	309.45	295				
Well Depth	11/28/94	NE	73.87	308.68	285				
110	2/14/95	NE	78.91	303.64	4/01/94	7/01/94	9/30/94	12/30/94	4/01/95
	# 14 C 10 A	210	G1 G4	207.41					
MW-6	5/16/94	NE	71.74	307.41	325				
MP Elev.	8/23/94	NE	69.02	310.13	315			-	1
379.15	11/14/94	NE	70.02	309.13	295				
Well Depth	11/28/94	NE	71.50	307.65	285	7/01/94	9/30/94	12/30/94	4/01/95
109	2/14/95	NE	74.19	304.96	4/01/94	7/01/94	9/30/94	12/30/94	4/01/93
MW-7	5/16/94	NE	72.52	306.42	T		S. C.		
MP Elev.	8/23/94	NE	67.01	311.93	325 315				
378.94	11/14/94	NE	70.01	308.93	305				
Well Depth	11/28/94	NE	70.46	308.48	295				
109	2/14/95	NE	74.20	304.74	4/01/94	7/01/94	9/30/94	12/30/94	4/01/95
107	2/14/75	112	, , , , ,	501					
MW-8	5/16/94	ODOR	71.48	307.08	325 _T	8			
MP Elev.	8/23/94	ODOR	69.49	309.07	315	*			
378.56	11/14/94	ODOR	71.04	307.52	305 =				•
Well Depth	11/28/94	ODOR	71.46	307.10	285				
109	2/14/95	ODOR	73.87	304.69	4/01/94	7/01/94	9/30/94	12/30/94	4/01/95

TABLE 1
SUMMARY OF GROUND WATER ELEVATIONS
INDUSTRIAL ASPHALT

		Product	Depth to						
Well	Date	Thickness	Water	Elevation			Trend		
Number		(ft)	(ft)	(ft, MSL)					
			1	K No. o					
MW-9	5/16/94	NA		looded	325 E				
MP Elev.	8/23/94	NA		Buried	315 = 305 =				
377.40	11/14/94	NA		looded	295				
Well Depth	11/28/94	NA		looded	285			10/00/04	4104 105
108	2/14/95	NA	F	looded	4/01/94	7/01/94	9/30/94	12/30/94	4/01/95
N 6777 10	£ /1 C /0 A	NE	70.76	307.28					
MW-10	5/16/94				325 315				
MP Elev.	8/23/94	NE	69.11	308.93	305	•		-	1
378.04	11/14/94	NE	70.61	307.43	295				
Well Depth	11/28/94	NE	71.01	307.03	285 * 4/01/94	7/01/94	9/30/94	12/30/94	4/01/95
111	2/14/95	NE	73.32	304.72	4/01/54			12/30/71	
MW-14	5/16/94	NE	73.15	306.94	325 E				
MP Elev.	8/23/94	NE	70.69		315		_		
380.09	11/14/94	NE	72.51		305				l.
Well Depth	11/28/94	NE	72.85		295				
114.5	2/14/95	NE	75.48		4/01/94	7/01/94	9/30/94	12/30/94	4/01/95
22.110									<u> </u>
MW-15	5/16/94	NE	72.01	306.11	325 F	and the second of the second o			
MP Elev.	8/23/94	NE	67.92	310.20	315				
378.12	11/14/94	NE	70.29	307.83	305 =				l
Well Depth	11/28/94	NE	70.66	307.46	285				
117	2/14/95	NE	73.83	304.29	4/01/94	7/01/94	9/30/94	12/30/94	4/01/95

TABLE 1 SUMMARY OF GROUND WATER ELEVATIONS INDUSTRIAL ASPHALT

Well Number	Date	Product Thickness (ft)	Depth to Water (ft)	Elevation (ft, MSL)	Trend	
MW-16 MP Elev. 379.65 Well Depth 110	5/16/94 8/23/94 11/14/94 11/28/94 2/14/95	NE NE NE NE	72.22 69.99 71.83 72.24 73.83	307.43 309.66 307.82 307.41 305.82	325 315 305 295 285 4/01/94 7/01/94 9/30/94 12/30/94 4/0	—↓ /01/95
STAFF GAGE MP Elev. 300.00	5/16/94 8/23/94 11/14/94 11/28/94 2/14/95	NE NE NE NE	Above St	302.40 taff Gage taff Gage taff Gage	325.00 315.00 305.00 295.00 285.00 1/01/94 4/02/94 7/02/94 10/01/94 1/01/	/95
CJMW-1 MP Elev. 382.75 Well Depth NA	5/16/94 8/23/94 11/14/94 11/28/94 2/14/95	NE NE NE NE	73.61 74.65 75.77 76.10 77.23	309.14 308.10 306.98 306.65 305.52	325 315 305 295 285 4/01/94 7/01/94 9/30/94 12/30/94 4/0	 /01/95

NOTES:

MP Elev. Measuring Point Elevation refers to Top of Casing, Mean Sea Level (USGS Datum)

Depth to Water in feet below Top of Casing

NA Not Applicable NE Not Encountered

TABLE 1 SUMMARY OF GROUND WATER ELEVATIONS INDUSTRIAL ASPHALT

		Depth to						
Well	Date	Water	Elevation			Trend		
Number		(ft)	(ft, MSL)			****		
EW-1 MP Elev. 374.41	2/14/95	Not !	Located	325 315 305 295 285				
				4/01/94	7/01/94	9/30/94	12/30/94	4/01/95
EW-2 MP Elev. 375.55	2/14/95	70.92	304.63	325 315 305 295 285 4/01/94	7/01/94	9/30/94	12/30/94	4/01/95
EW-3 MP Elev. 376.43	2/14/95	72.03	304.40	325 315 305 295 285 4/01/94	7/01/94	9/30/94	12/30/94	4/01/95
EW-4 MP Elev. 377.89	2/14/95	73.34	304.55	325 315 305 295 285 4/01/94	7/01/94	9/30/94	12/30/94	4/01/95

TABLE 1 SUMMARY OF GROUND WATER ELEVATIONS INDUSTRIAL ASPHALT

		Depth to						
Well	Date	Water	Elevation			Trend		
Number		(ft)	(ft, MSL)	***************************************				
EW-5 MP Elev. 377.44	2/14/95	73.00	304.44	325 T 315 T 305 T 295 T 285 T				
				4/01/94	7/01/94	9/30/94	12/30/94	4/01/95
EW-6 MP Elev. 375.40	2/14/95	68.59	306.81	325 T 315 T 305 T 295 T 285 T			120004	
				4/01/94	7/01/94	9/30/94	12/30/94	4/01/95
EW-7 MP Elev. 375.33	2/14/95	70.94	304.39	325 315 305 295 285 4/01/94	7/01/94	9/30/94	12/30/94	4/01/95
EW-8 MP Elev. 376.46	2/14/95	71.67	304.79	325 315 305 295			•	
				4/01/94	7/01/94	9/30/94	12/30/94	4/01/95

TABLE 1 SUMMARY OF GROUND WATER ELEVATIONS INDUSTRIAL ASPHALT

		Depth to						
Well	Date	Water	Elevation			Trend		
Number	m_vaterinate	(ft)	(ft, MSL)	•				
EW-9 MP Elev. 377.14	2/14/95	72.31	304.83	325 315 305 295 285				
				4/01/94	7/01/94	9/30/94	12/30/94	4/01/95
EW-10 MP Elev. 376.31	2/14/95	71.47	304.84	325 315 305 295 285			•	
				4/01/94	7/01/94	9/30/94	12/30/94	4/01/95
EW-11 MP Elev. 376.46	2/14/95	72.70	303.76	325 T 315 T 305 T 295 T 285 T				·
				4/01/94	7/01/94	9/30/94	12/30/94	4/01/95

NOTES:

MP Elev. Measuring Point Elevation refers to Top of Casing, Mean Sea Level (USGS Datum)

Depth to Water in feet below Top of Casing

NA Not Applicable

NE Not Encountered

TABLE 2 SUMMARY OF ANALYTICAL RESULTS INDUSTRIAL ASPHALT

Well	Samula Data	Sample	TPH as	TPH as Oil	Total Oil &	Total	PCBs⁴
Number	Sample Date	Number	Diesel ¹	IPH as Oil	Grease ²	Hydrocarbons ³	PCBs.
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(μg/L)
MW-1	May 1994	63333	31	20	150	100	0.7
	Aug. 1994	64171	3.2	2.6	0.8	0.6	ND
	Nov. 1994	652390	0.6	0.6	5	3	ND
	Feb. 1995	4142	4.8	3.6	91	75	0.8
MW-2	May 1994	59228	13	7.0	6.1	4.8	ND
	Aug. 1994	64149	0.65	ND	0.8	ND	ND
	(duplicate)	61815	0.64	ND	0.8	ND	ND
	Nov. 1994	12241	19	13	45	34	ND
	(duplicate)	25961	4.3	2.5	6.7	5.2	ND
	Feb. 1995	4140	2.3	1	13	10	ND
	(duplicate)	4144	3.3	2.3	19	16	ND
						/ // // // // // // // // // // // // /	#.
MW-3	May 1994	59226	6.0	3.6	6.4	5.6	ND
	Aug. 1994	64150	0.1	ND	ND	ND	ND
	Nov. 1994	650510	2.5	1.9	9.3	7.0	ND
	Feb. 1995	NA	NT	NT	NT	NT	NT
MW-4	May 1994	63357	ND	0.4		0.6	ND
	Aug. 1994	64106	ND	ND	ND	ND	ND
	Nov. 1994	652496	ND	ND	0.5	ND	ND
	Feb. 1995	4131	ND	ND	ND	ND	ND
							1
MW-5	May 1994	63335	ND	ND	ND	ND	ND
	Aug. 1994	64197	ND	ND	ND	ND	ND
	Nov. 1994	652490	ND	ND	ND	ND	ND
	Feb. 1995	4130	ND	0.2	ND	ND	ND
		1000-0000000000000000000000000000000000			4.000000000		
MW-6	May 1994	59231	ND	0.6	E .	ND	ND
	Aug. 1994	64107	ND		ND	ND	ND
	Nov. 1994	652395	ND		ND	ND	ND
	Feb. 1995	4132	ND	ND	ND	ND	ND
		Name of the Control					
MW-7	May 1994	55441	ND	ł.	ND	ND	ND
	(duplicate)	59230	ND	•		1	ND
	Aug. 1994	64103	ND		The second second	1	ND
	Nov. 1994	652382	0.08				ND
	Feb. 1995	4134	0.09	0.3	0.6	ND	ND

TABLE 2 SUMMARY OF ANALYTICAL RESULTS INDUSTRIAL ASPHALT

Well	0 1 0	Sample	TPH as	TTP11 0:11:	Total Oil &	Total	DCD (
Number	Sample Date	Number	Diesel ¹	TPH as Oil	Grease ²	Hydrocarbons ³	PCBs⁴
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(μg/L)
MW-8	May 1994	59232	0.5	0.9	0.6	ND	ND
	(duplicate)	59227_	0.5	1.0	0.5	ND	ND
	Aug. 1994	64094	0.1	ND	ND	ND	ND
	(duplicate)	64093	0.1	ND	ND	ND	ND
	Nov. 1994	12236	1.1	1.5	1	0.5	ND
	Feb. 1995	4139	0.5	0.4	1	0.6	ND
	(duplicate)	4143	0.5	0.4	2	0.9	ND
MW-9	May 1994	NA	NT	NT	NT	NT	NT
	Aug. 1994	NA	NT	NT	NT	NT	NT
	Nov. 1994	NA	NT	NT	NT	NT	NT
	Feb. 1995	NA	NT	NT	NT	NT	NT
) ¥:		
MW-10	May 1994	55440	1.8	2	2	- Sec.	ND
	Aug. 1994	64108	ND	ND	ND	ND	ND
	Nov. 1994	12206	2.0	0.5	2	0.9	ND
	Feb. 1995	4135	0.5	1	2	1	ND
MW-14	May 1994	63445	ND	ND	ND	ND	ND
	Aug. 1994	64221	ND	ND	ND		ND
	Nov. 1994	12226	0.08	ND	ND		ND
	(duplicate)	12231	0.09		ND		ND
	Feb. 1995	4138	ND	0.3	ND	ND	ND
MW-15	May 1994	63334	0.4			ND	ND
	Aug. 1994	64216	ND	ND	ND	ND	ND
	Nov. 1994	12216	1.2			ND	ND
	Feb. 1995	4136	0.2	ND	0.7	ND	ND
MW-16	May 1994	63448	0.08	10.00000	ND	0.0000	ND
	Aug. 1994	64204	ND		ND	I was a second	ND
	Nov. 1994	12221	0.06	N AND AND AND AND AND AND AND AND AND AN	ND	1	
	Feb. 1995	4137	ND	0.5	0.7	ND	ND

TABLE 2 SUMMARY OF ANALYTICAL RESULTS INDUSTRIAL ASPHALT

Well Number	Sample Date	Sample Number	TPH as Diesel ¹	TPH as Oil	Total Oil & Grease ²	Total Hydrocarbons ³	PCBs ⁴
			(mg/L)	(mg/L)	(mg/L)	(mg/L)	(μg/L)
14A2'	May 1994 Aug. 1994 Nov. 1994 Feb. 1995	63332 64220 12211 4133	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND	ND ND ND ND
Labora	atory Detection	Limits	0.05	0.2	0.5	0.5	0.5
Drink	Drinking Water Standard ⁶				_	_	0.5

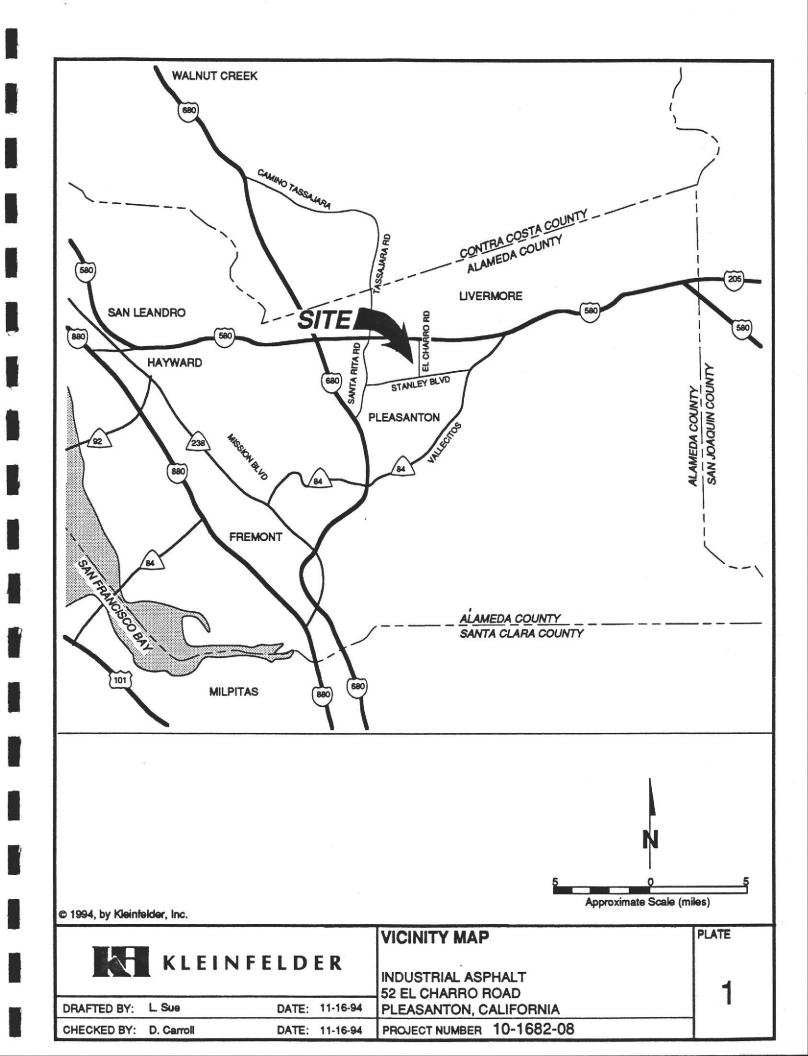
NOTES FOR TABLE 2

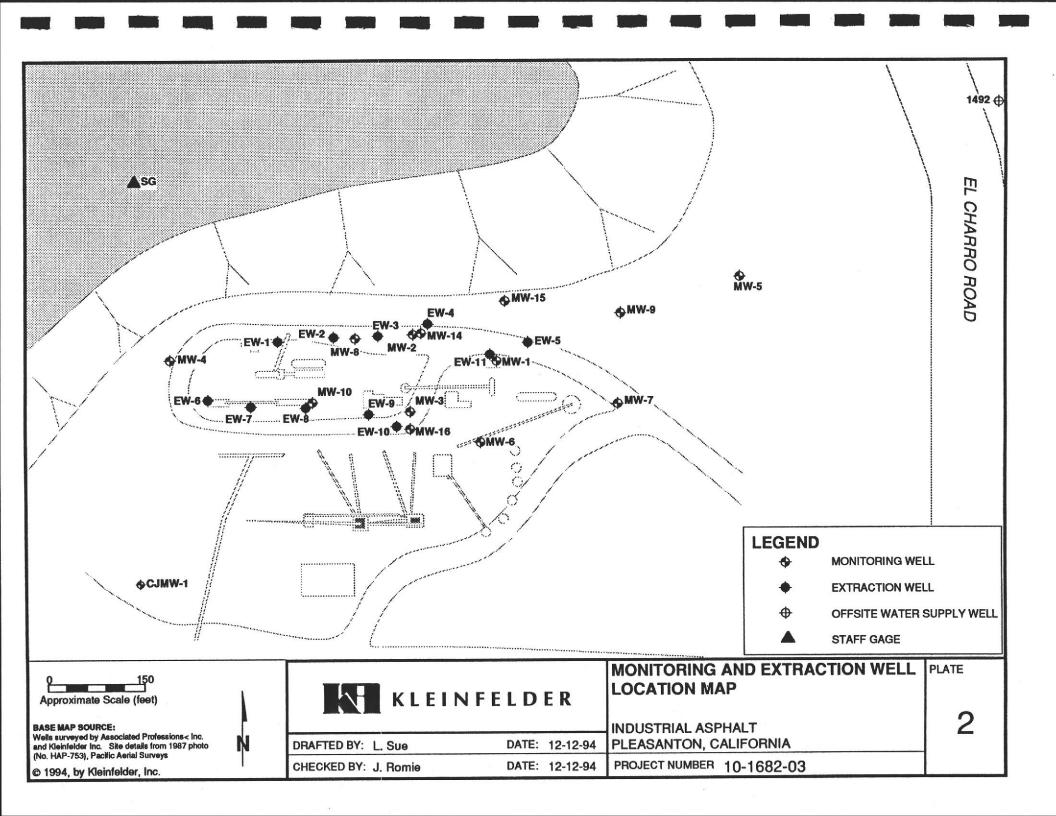
- Sample analysis via SM 3510 GCFID.
- Sample analysis via SM 5520C.
- Sample analysis via SM 5520F.
- Polychlorinated Biphenyl compounds. Sample analysis via EPA Test Method 8080.
- Routine Laboratory detection limits. Some limits may vary. Please refer to attached laboratory reports for specific detection limits.
- California Department of Health Services Drinking Water Standards, Primary Maximum Contaminant Levels (MCL); secondary MCLs listed in parentheses. Source: Water Quality Goals, California Regional Water Quality Control Board, February 1991.
- ⁷ Jamieson Well sampled via a tap.

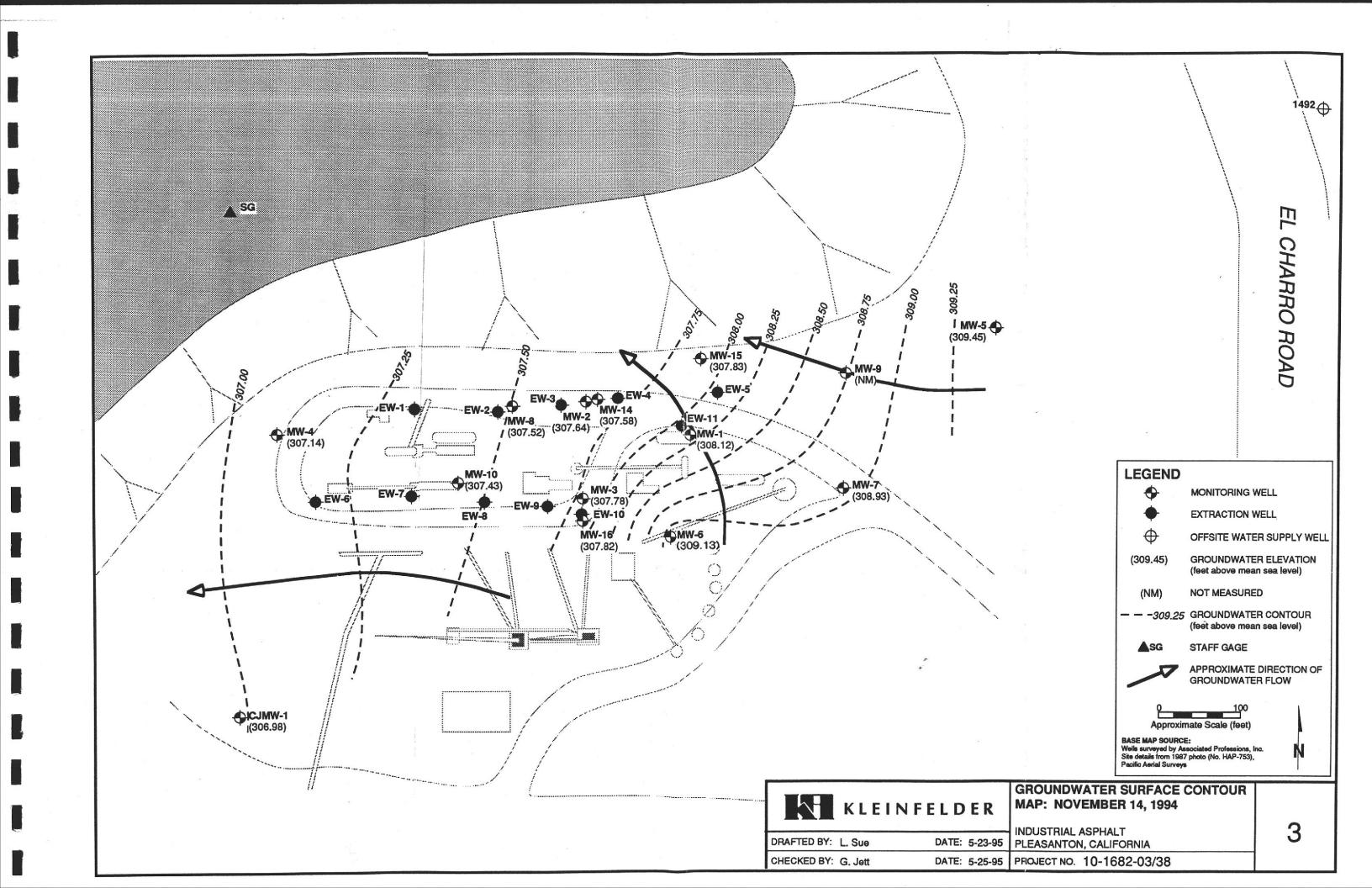
TPH Total Petroleum Hydrocarbons.

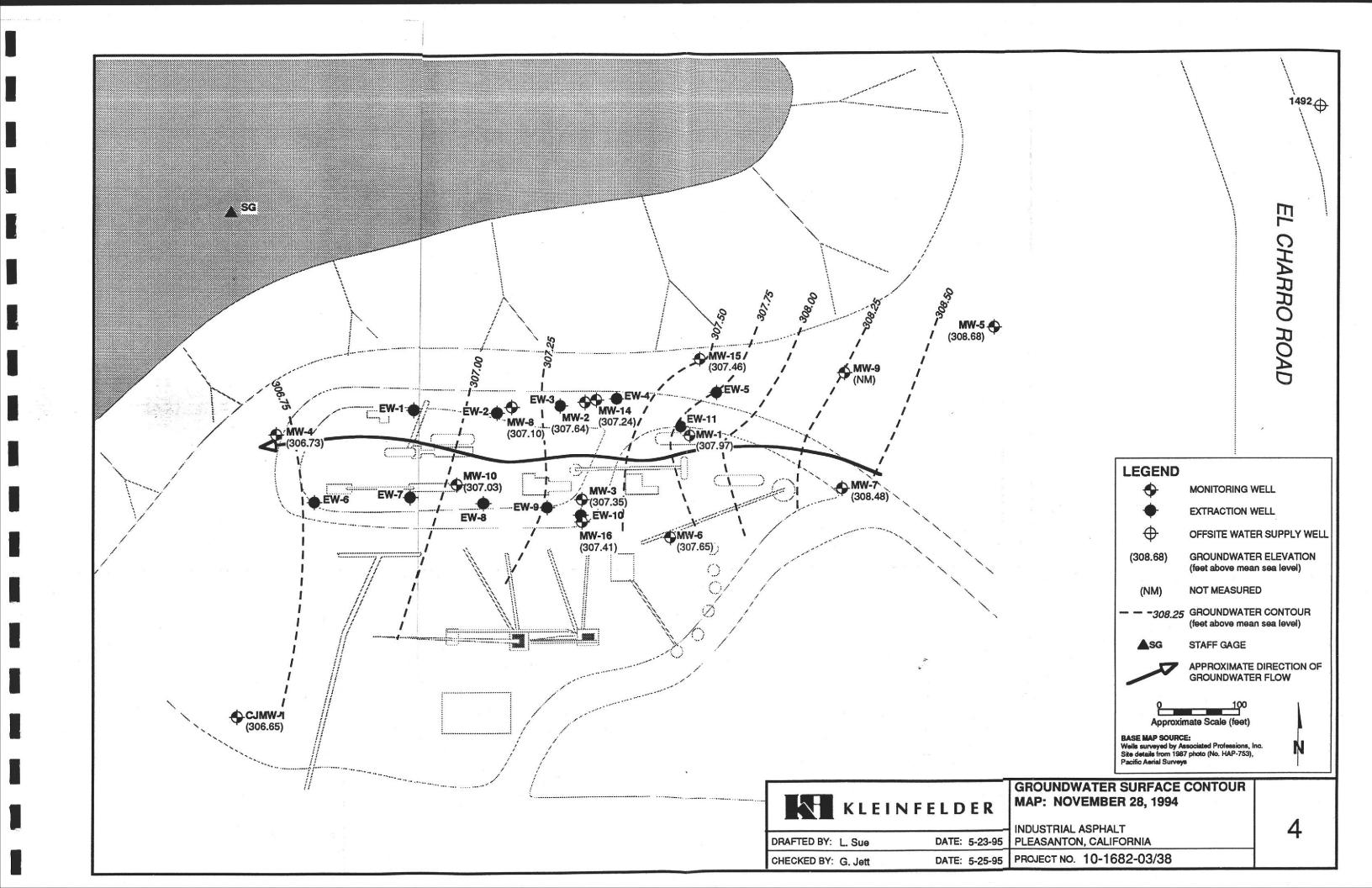
ND Not Detected at or above laboratory reporting limits

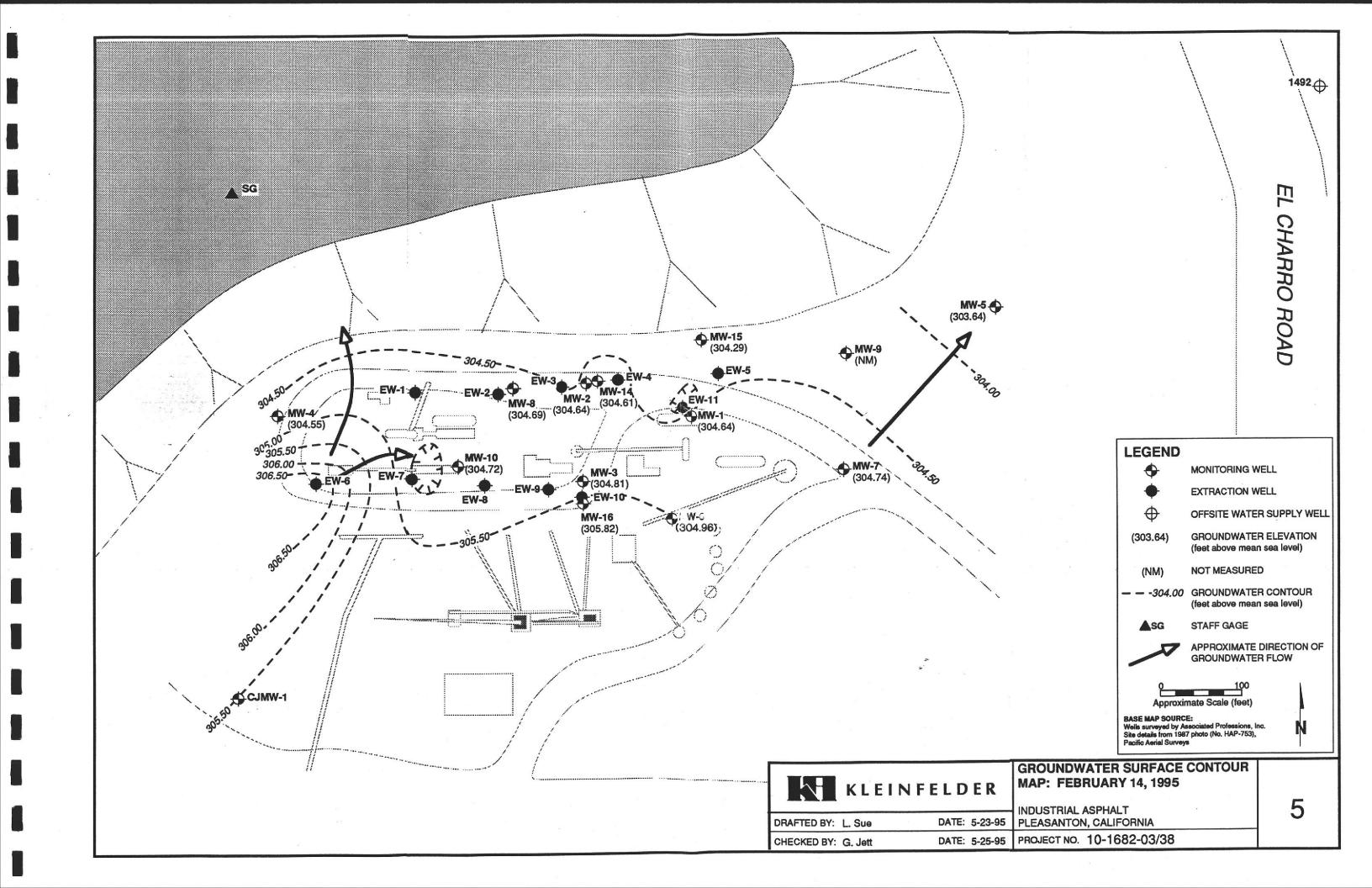
NT Not Tested











American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AlHA Accreditation: 11134

PAGE 1

FILE COPY

KLEINFELDER, INC. 7133 KOLL CENTER PARKWAY, SUITE 100 PLEASANTON, CA 94566

ATTN: GUY JETT

CLIENT PROJ. ID: 10-1682-03/35 CLIENT PROJ. NAME: INDUST.ASPHALT

C.O.C. NUMBER: 693 P.O. NUMBER: R2137 REPORT DATE: 03/10/95

DATE(S) SAMPLED: 02/16/95-02/17/95

DATE RECEIVED: 02/21/95

AEN WORK ORDER: 9502253

PROJECT SUMMARY:

On February 21, 1995, this laboratory received 10 water sample(s).

Client requested sample(s) be analyzed for organic parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein

Laboratory Director

KLEINFELDER, INC.

SAMPLE ID: 4134

MW-7

AEN LAB NO: 9502253-01 AEN WORK ORDER: 9502253 CLIENT PROJ. ID: 10-1682-03/35

DATE SAMPLED: 02/16/95

DATE RECEIVED: 02/21/95 REPORT DATE: 03/10/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	2 02/28/95
TPH as Diesel	GC-FID	0.09 *	0.05	mg/L	03/02/95
TPH as Oil	GC-FID	0.3 *	0.2	mg/L	03/02/95
#Water Extrn for HCs (IR)	SM 5520CF	-		Extrn Date	03/01/95
#Water Extrn for O&G (IR)	SM 5520C	-		Extrn Date	03/01/95
Hydrocarbons (IR)	SM 5520CF	ND	0.5	mg/L	03/02/95
Oil & Grease (IR)	SM 5520C	0.6 *	0.5	mg/L	03/02/95
#Extraction for Pest/PCBs	EPA 3510	-		Extrn Date	02/23/95
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 608 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L	02/25/95 02/25/95 02/25/95 02/25/95 02/25/95 02/25/95 02/25/95

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

KLEINFELDER, INC.

MW-10

SAMPLE ID: 4135 AEN LAB NO: 9502253-02 AEN WORK ORDER: 9502253

CLIENT PROJ. ID: 10-1682-03/35

DATE SAMPLED: 02/16/95

DATE RECEIVED: 02/21/95 REPORT DATE: 03/10/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TDU	EPA 3510			Extrn Date	02/28/95
#Extraction for TPH	GC-FID	0.5 *	0.05	mg/L	03/02/95
TPH as Diesel					
TPH as Oil	GC-FID	1 *	0.2	mg/L	03/02/95
#Water Extrn for HCs (IR)	SM 5520CF	-		Extrn Date	03/01/95
#Water Extrn for O&G (IR)	SM 5520C	-		Extrn Date	03/01/95
Hydrocarbons (IR)	SM 5520CF	1 7	0.5	mg/L	03/02/95
Oil & Grease (IR)	SM 5520C	2 3	0.5	mg/L	03/02/95
#Extraction for Pest/PCBs	EPA 3510	-		Extrn Date	02/23/95
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 608 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L	02/25/95 02/25/95 02/25/95 02/25/95 02/25/95 02/25/95 02/25/95

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

KLEINFELDER, INC.

SAMPLE ID: 4136

MW-15

AEN LAB NO: 9502253-03 AEN WORK ORDER: 9502253 CLIENT PROJ. ID: 10-1682-03/35

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	02/28/95
TPH as Diesel	GC-FID	0.2 *	0.05	mg/L	03/02/95
TPH as Oil	GC-FID	ND	0.2	mg/L	03/02/95
#Water Extrn for HCs (IR)	SM 5520CF	-		Extrn Date	03/01/95
#Water Extrn for O&G (IR)	SM 5520C	-		Extrn Date	03/01/95
Hydrocarbons (IR)	SM 5520CF	ND	0.5	mg/L	03/02/95
Oil & Grease (IR)	SM 5520C	0.7 *	0.5	mg/L	03/02/95
#Extraction for Pest/PCBs	EPA 3510	-		Extrn Date	02/23/95
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 608 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L	02/25/95 02/25/95 02/25/95 02/25/95 02/25/95 02/25/95 02/25/95

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

KLEINFELDER, INC.

MW-16 SAMPLE ID: 4137

AEN LAB NO: 9502253-04 AEN WORK ORDER: 9502253 CLIENT PROJ. ID: 10-1682-03/35

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	02/28/95
TPH as Diesel	GC-FID	ND	0.05	mg/L	03/02/95
TPH as Oil	GC-FID	0.5	0.2	mg/L	03/02/95
#Water Extrn for HCs (IR)	SM 5520CF	-		Extrn Date	03/01/95
#Water Extrn for O&G (IR)	SM 5520C	-		Extrn Date	03/01/95
Hydrocarbons (IR)	SM 5520CF	ND	0.5	mg/L	03/02/95
Oil & Grease (IR)	SM 5520C	0.7 🕏	0.5	mg/L	03/02/95
#Extraction for Pest/PCBs	EPA 3510	-		Extrn Date	02/23/95
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 608 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L ug/L	02/25/95 02/25/95 02/25/95 02/25/95 02/25/95 02/25/95 02/25/95

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

KLEINFELDER, INC.

MW-14 SAMPLE ID: 4138

AEN LAB NO: 9502253-05 AEN WORK ORDER: 9502253 CLIENT PROJ. ID: 10-1682-03/35

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-	8	Extrn Date	02/28/95
TPH as Diesel	GC-FID	ND	0.05	mg/L	03/02/95
TPH as Oil	GC-FID	0.3 *	0.2	mg/L	03/02/95
#Water Extrn for HCs (IR)	SM 5520CF	-		Extrn Date	03/01/95
#Water Extrn for O&G (IR)	SM 5520C	-		Extrn Date	03/01/95
Hydrocarbons (IR)	SM 5520CF	ND	0.5	mg/L	03/02/95
Oil & Grease (IR)	SM 5520C	ND	0.5	mg/L	03/02/95
#Extraction for Pest/PCBs	EPA 3510	-		Extrn Date	02/23/95
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 608 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L	02/25/95 02/25/95 02/25/95 02/25/95 02/25/95 02/25/95 02/25/95

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

KLEINFELDER, INC.

nw-8 SAMPLE ID: 4139

AEN LAB NO: 9502253-06 AEN WORK ORDER: 9502253 CLIENT PROJ. ID: 10-1682-03/35

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	•		Extrn Date	02/28/95
TPH as Diesel	GC-FID	0.5	* 0.05	mg/L	03/02/95
TPH as Oil	GC-FID	0.4	* 0.2	mg/L	03/02/95
#Water Extrn for HCs (IR)	SM 5520CF	-		Extrn Date	03/01/95
#Water Extrn for O&G (IR)	SM 5520C	-		Extrn Date	03/01/95
Hydrocarbons (IR)	SM 5520CF	0.6	* 0.5	mg/L	03/02/95
Oil & Grease (IR)	SM 5520C	1 '	* 0.5	mg/L	03/02/95
#Extraction for Pest/PCBs	EPA 3510	-		Extrn Date	02/23/95
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 608 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L	02/25/95 02/25/95 02/25/95 02/25/95 02/25/95 02/25/95

ND = Not detected at or above the reporting limit
 * = Value at or above reporting limit

KLEINFELDER, INC.

MW-8 (dup) SAMPLE ID: 4143

AEN LAB NO: 9502253-07 AEN WORK ORDER: 9502253 CLIENT PROJ. ID: 10-1682-03/35

AL BOARS

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510			Extrn Date	02/28/95
TPH as Diesel	GC-FID	0.5 *	0.05	mg/L	03/02/95
TPH as Oil	GC-FID	0.4 *	0.2	mg/L	03/02/95
#Water Extrn for HCs (IR)	SM 5520CF	-		Extrn Date	03/01/95
#Water Extrn for O&G (IR)	SM 5520C	-		Extrn Date	03/01/95
Hydrocarbons (IR)	SM 5520CF	0.9 *	0.5	mg/L	03/02/95
Oil & Grease (IR)	SM 5520C	2 *	0.5	mg/L	03/02/95
#Extraction for Pest/PCBs	EPA 3510	=		Extrn Date	02/23/95
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 608 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L	02/25/95 02/25/95 02/25/95 02/25/95 02/25/95 02/25/95

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

KLEINFELDER, INC.

MW-Z

SAMPLE ID: 4140 MW-AEN LAB NO: 9502253-08 AEN WORK ORDER: 9502253 CLIENT PROJ. ID: 10-1682-03/35

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	02/28/95
TPH as Diesel	GC-FID	2.3 *	0.05	mg/L	03/02/95
TPH as Oil	GC-FID	1 ,	0.2	mg/L	03/02/95
#Water Extrn for HCs (IR)	SM 5520CF	-		Extrn Date	03/01/95
#Water Extrn for O&G (IR)	SM 5520C	-		Extrn Date	03/01/95
Hydrocarbons (IR)	SM 5520CF	10 '	0.5	mg/L	03/02/95
Oil & Grease (IR)	SM 5520C	13 *	0.5	mg/L	03/02/95
#Extraction for Pest/PCBs	EPA 3510	-		Extrn Date	02/23/95
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 608 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L	02/25/95 02/25/95 02/25/95 02/25/95 02/25/95 02/25/95 02/25/95

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

KLEINFELDER, INC.

SAMPLE ID: 4144

MM-5 (Gab)

AEN LAB NO: 9502253-09 AEN WORK ORDER: 9502253 CLIENT PROJ. ID: 10-1682-03/35

DATE SAMPLED: 02/17/95

DATE RECEIVED: 02/21/95 REPORT DATE: 03/10/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	02/28/95
TPH as Diesel	GC-FID	3.3 *	0.05	mg/L	03/02/95
TPH as Oil	GC-FID	2.3 *	0.2	mg/L	03/02/95
#Water Extrn for HCs (IR)	SM 5520CF	-		Extrn Date	03/01/95
#Water Extrn for O&G (IR)	SM 5520C	-		Extrn Date	03/01/95
Hydrocarbons (IR)	SM 5520CF	16 *	0.5	mg/L	03/02/95
Oil & Grease (IR)	SM 5520C	19 *	0.5	mg/L	03/02/95
#Extraction for Pest/PCBs	EPA 3510	-		Extrn Date	02/23/95
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 608 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L	02/25/95 02/25/95 02/25/95 02/25/95 02/25/95 02/25/95 02/25/95

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

KLEINFELDER, INC.

Mw-l SAMPLE ID: 4142

AEN LAB NO: 9502253-10 AEN WORK ORDER: 9502253 CLIENT PROJ. ID: 10-1682-03/35

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	e 02/28/95
TPH as Diesel	GC-FID	4.8 *	0.05	mg/L	03/02/95
TPH as Oil	GC-FID	3.6 *	0.2	mg/L	03/02/95
#Water Extrn for HCs (IR)	SM 5520CF	-		Extrn Date	03/01/95
#water Extrn for O&G (IR)	SM 5520C	-		Extrn Date	03/01/95
Hydrocarbons (IR)	SM 5520CF	75 *	0.5	mg/L	03/02/95
Oil & Grease (IR)	SM 5520C	91 7	0.5	mg/L	03/02/95
#Extraction for Pest/PCBs	EPA 3510	-		Extrn Date	02/23/95
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 608 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND O.8	0.5 0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L	02/25/95 02/25/95 02/25/95 02/25/95 02/25/95 02/25/95

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

AEN (CALIFORNIA) QUALITY CONTROL REPORT

AEN JOB NUMBER: 9502253

CLIENT PROJECT ID: 10-1682-03/035

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

- D: Surrogates diluted out.
- #: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9502253 DATE EXTRACTED: 02/28/95

INSTRUMENT: C MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
03/02/95 03/02/95 03/02/95 03/02/95 03/02/95 03/02/95 03/02/95 03/02/95 03/02/95	4134 4135 4136 4137 4138 4139 4143 4140 4144 4142	01 02 03 04 05 06 07 08 09	85 88 87 76 95 90 84 91 86 86
QC Limits:			73-129

DATE EXTRACTED: 02/22/95
DATE ANALYZED: 02/25/95
SAMPLE SPIKED: DI WATER
INSTRUMENT: C

Method Spike Recovery Summary

				QC Limi	ts
Analyte	Spike Added (mg/L)	Average Percent Recovery	RPD	Percent Recovery	RPD
Diesel	1.68	91	1	65-103	12

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

QUALITY CONTROL DATA

METHOD: SM 5520

AEN JOB NO: 9502253
DATE EXTRACTED: 03/01/95
DATE ANALYZED: 03/02/95
SAMPLE SPIKED: DI WATER
INSTRUMENT: IR

MATRIX: WATER

Method Spike Recovery Summary

	0 :1	•		QC Lim	its
Analyte	Spike Added (mg/L)	Average Percent Recovery	RPD	Percent Recovery	RPD
0i1	7.5	89	2	80-109	5

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

QUALITY CONTROL DATA

METHOD: EPA 608

AEN JOB NO: 9502253

DATE EXTRACTED: 02/23/95

INSTRUMENT: B MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery 2,4,5,6-Tetrachloro-meta-xylene
02/25/95 02/25/95 02/25/95 02/25/95 02/25/95 02/25/95 02/25/95 02/25/95 02/25/95	4134 4135 4136 4137 4138 4139 4143 4140 4144 4142	01 02 03 04 05 06 07 08 09	101 106 107 113 105 104 108 90 92 85
QC Limits:			30-131

DATE EXTRACTED: 02/01/95
DATE ANALYZED: 02/03/95
SAMPLE SPIKED: DI WATER
INSTRUMENT: B

Method Spike Recovery Summary

				QC Limits					
Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	Percent Recovery	RPD				
A1260	4.00	101	1	53-133	16				

Daily method blanks for all associated analytical runs showed no contamination over the reporting limit.

	REEIT	FELDER									L		ı	Ri	1 - 5,7	К, L,	(L)	1	9.	50	-7 2	3	
10-1682-0	71	ndustria (Signature/Number)	Asphalt	NO			Z	/,	1/4	3/	7	7	7	//	7	1	/3	3 1	LA	Int	ers	aci	diffid cidifing
R2137	SAMPLERS:	(Signature/Number)	12671	OF	١.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3/3	3/5			//			//	/,	//	´ ¬	Wi	TH	HC	~ ~<	nata	cid ful
DATE	SAMPLE I D. TIME HH MM SS	SAME	PLEID	TAINER	is A	25/	3/2	3/5	7 /	//	//	//			Ι,		Z	16	R	REMAR	KS		1 1
2/16/95		4134	OIA-E	6	- /	1	\mathcal{I}	1	\uparrow	f		\Box	\Box	\mathcal{T}	1	H	120		-				
	12:50	4135	02A-E	Ī	/	/		1															
	2:20	4136	03 A-E		\angle	/		4												***			
1	3:40	4137	OHA-E			/		4						\perp	\perp								
2/17/95	10:40	4138	05A-E	$\sqcup \bot$	\angle	V,	4	4		_				_	_								_
	11:50	4139	ObA-E	$\vdash \vdash$	-/	Z	4	4		<u> </u>			_	4	4								
	12:20	4143	074-E	$\bot\bot$	1/	1	\angle	4		_			_		\perp								
	1:15	4140	08 A-E	$\vdash \vdash$	-V	K,	4	4	_	<u> </u>		\vdash	_	_	+								
	1:40	4144	09 A E	++	-1/	1	//	4		-			_		+								
Ψ	3:15	4142	10 A-E	\ <u>\</u>	+	1	//	4		-	\vdash		-	-	+								\dashv
	4:25	4		-	+	-	\vdash	+	+	-		\vdash	-	+	+								
				┼──	+	-	\vdash	\dashv		-	\vdash		-		+								-
				 	+		\vdash	+	+	\vdash	\vdash	\vdash	-	+	+								\dashv
					+	\vdash	\vdash	+	+	\vdash	\vdash	\vdash	\dashv	+	+								-
				-	+	\vdash	\vdash	+	+	\vdash	\vdash	\vdash	\dashv	+	+								• ; ;
				-	+	-	\vdash	+	+	\vdash	\vdash			+	+								
				-	+	\vdash	\vdash	+	+	+		H	-	+	+								- ·
				-	+		H	+	+	\vdash	\vdash		-	+	+		***************************************						-
				 	\dashv	\vdash	H	+	\dashv	\vdash	\vdash	\vdash		+	+								_
Relinquishe	d by: (Signature)	Date/Time	Received by: (Signature)	Re	marks	Ш			1		L1		_	-1	Send F	lesuits To	,					$\overline{}$
71	195:	7/1/95 8:25	1. Auth			_	-	L	d	.	V	7	A	\mathcal{I}_{\cdot}		KI	EINFEL	DEB					
Reimquishe	d by: (Signature)	Date/Time	Regulved by Asignature	"	-		/	lau	~01	·	01	+	_	+		71		L CENT	ER PAR	RKWA	Y	•	
March	PLH	2/21/95 12'	o My She	_		1	44	~	~d . G	ru)	Y	J	e	1		PL		ITON, C	A 94566	6			
Relinguishe	d by is/gnaturei	Date/Time	Repeived for Laborato	ry by:		•	-,,		•	/				*		(3	. 5, 404	.,					
Miller	11/	7-2112:	79 Jai Ll	tin																			
M-60	7/	White - Sample	r	, ,,,,,,,					To Ship								Pink - Lal	b Copy	No .		693		

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

FILE COPY

PAGE 1

KLEINFELDER, INC. 7133 KOLL CENTER PARKWAY, SUITE 100

PLEASANTON. CA 94566

ATTN: GUY JETT CLIENT PROJ. ID: 10-1682-03/035 CLIENT PROJ. NAME: INDUST ASPHALT

C.O.C. NUMBER: 692 P.O. NUMBER: R2137

REPORT DATE: 03/06/95

DATE(S) SAMPLED: 02/15/95

DATE RECEIVED: 02/16/95

AEN WORK ORDER: 9502205

PROJECT SUMMARY:

On February 16, 1995, this laboratory received 4 water sample(s).

Client requested sample(s) be analyzed for organic parameters. Results of analysis are summarized on the following page(s). Please see quality control report for a summary of QC data pertaining to this project.

Samples will be stored for 30 days after completion of analysis, then disposed of in accordance with State and Federal regulations. Samples may be archived by prior arrangement.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein

Laboratory Director

KLEINFELDER, INC.

MW-5

DATE SAMPLED: 02/15/95

DATE RECEIVED: 02/16/95 REPORT DATE: 03/06/95

the state of the s					
ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	02/22/95
TPH as Diesel	GC-FID	ND	0.05	mg/L	02/25/95
TPH as Oil	GC-FID	0.2 *	0.2	mg/L	02/25/95
#Water Extrn for HCs (IR)	SM 5520CF	-		Extrn Date	02/22/95
#Water Extrn for O&G (IR)	SM 5520C	- ,		Extrn Date	02/22/95
Hydrocarbons (IR)	SM 5520CF	ND	0.5	mg/L	02/22/95
Oil & Grease (IR)	SM 5520C	ND	0.5	mg/L	02/22/95
#Extraction for Pest/PCBs	EPA 3510			Extrn Date	02/21/95
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 608 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L ug/L	02/24/95 02/24/95 02/24/95 02/24/95 02/24/95 02/24/95 02/24/95

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

KLEINFELDER, INC.

SAMPLE ID: 4131 AEN LAB NO: 9502205-02 AEN WORK ORDER: 9502205 CLIENT PROJ. ID: 10-1682-03/035

DATE SAMPLED: 02/15/95 DATE RECEIVED: 02/16/95 REPORT DATE: 03/06/95

					the same of the sa
ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	02/22/95
TPH as Diesel	GC-FID	ND	0.05	mg/L	02/25/95
TPH as Oil	GC-FID	ND	0.2	mg/L	02/25/95
#Water Extrn for HCs (IR)	SM 5520CF			Extrn Date	02/22/95
#Water Extrn for O&G (IR)	SM 5520C	-		Extrn Date	02/22/95
Hydrocarbons (IR)	SM 5520CF	ND	0.5	mg/L	02/22/95
Oil & Grease (IR)	SM 5520C	ND	0.5	mg/L	02/22/95
#Extraction for Pest/PCBs	EPA 3510	-		Extrn Date	02/21/95
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 608 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L ug/L	02/24/95 02/24/95 02/24/95 02/24/95 02/24/95 02/24/95 02/24/95

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

KLEINFELDER, INC.

SAMPLE ID: 4132 AEN LAB NO: 9502205-03 AEN WORK ORDER: 9502205 CLIENT PROJ. ID: 10-1682-03/035

DATE SAMPLED: 02/15/95 DATE RECEIVED: 02/16/95 REPORT DATE: 03/06/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	_		Extrn Date	02/22/95
TPH as Diesel	GC-FID	ND	0.05	mg/L	02/25/95
TPH as Oil	GC-FID	ND	0.2	mg/L	02/25/95
#Water Extrn for HCs (IR)	SM 5520CF	-		Extrn Date	02/22/95
#Water Extrn for O&G (IR)	SM 5520C	-		Extrn Date	02/22/95
Hydrocarbons (IR)	SM 5520CF	ND	0.5	mg/L	02/22/95
Oil & Grease (IR)	SM 5520C	ND	0.5	mg/L	02/22/95
#Extraction for Pest/PCBs	EPA 3510	-		Extrn Date	02/21/95
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 608 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L	02/25/95 02/25/95 02/25/95 02/25/95 02/25/95 02/25/95 02/25/95

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

KLEINFELDER, INC.

SAMPLE ID: 4133 AEN LAB NO: 9502205-04 AEN WORK ORDER: 9502205 CLIENT PROJ. ID: 10-1682-03/035

DATE SAMPLED: 02/15/95

DATE RECEIVED: 02/16/95 REPORT DATE: 03/06/95

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
				Futon Data	02/22/05
#Extraction for TPH	EPA 3510	-		Extrn Date	02/22/95
TPH as Diesel	GC-FID	ND	0.05	mg/L	02/25/95
TPH as Oil	GC-FID	ND	0.2	mg/L	02/25/95
#Water Extrn for HCs (IR)	SM 5520CF	* -		Extrn Date	02/22/95
#Water Extrn for O&G (IR)	SM 5520C	-		Extrn Date	02/22/95
Hydrocarbons (IR)	SM 5520CF	ND	0.5	mg/L	02/22/95
Oil & Grease (IR)	SM 5520C	ND	0.5	mg/L	02/22/95
#Extraction for Pest/PCBs	EPA 3510	-		Extrn Date	02/21/95
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 608 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L ug/L	02/25/95 02/25/95 02/25/95 02/25/95 02/25/95 02/25/95 02/25/95

ND = Not detected at or above the reporting limit
* = Value at or above reporting limit

AEN (CALIFORNIA) QUALITY CONTROL REPORT

AEN JOB NUMBER: 9502205

CLIENT PROJECT ID: 10-1682-03/035

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

- D: Surrogates diluted out.
- #: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9502205

DATE EXTRACTED: 02/22/95

INSTRUMENT: C MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
02/25/95 02/25/95 02/25/95 02/25/95	4130 4131 4132 4133	01 02 03 04	102 97 106 86
QC Limits:			73-129

DATE EXTRACTED: 02/17/95 DATE ANALYZED: 02/17/95 SAMPLE SPIKED: LCS INSTRUMENT: C

Laboratory Control Sample

Analyte	Spike Added (mg/L)	Percent Recovery	QC Limits Percent Recovery
Diesel	1.68	102	65-103

QUALITY CONTROL DATA

METHOD: SM 5520

AEN JOB NO: 9502205
DATE EXTRACTED: 02/02/95
DATE ANALYZED: 02/03/95
SAMPLE SPIKED: DI WATER
INSTRUMENT: IR
MATRIX: WATER

Method Spike Recovery Summary

	200	9356		QC Lim	its
Analyte	Spike Added (mg/L)	Average Percent Recovery	RPD	Percent Recovery	RPD
0i1	6.9	92	<1	80-109	5

7	KLEIN	FELDER	of the East					7:	R-	1,5-1	}	1		9502205
PROJ NO	1/2 In	dustrial	Aspalt	NO			1	E 4		7	7,	7	7	With HCl with
I P NO	CAMPI EDC	(Signature/Number)		OF	1	she /		9	/ /	/ /				/// WITH HE!
R213	7 700	ld Dan	- /2671	CON	ANAC YE.	90	X	7 /		//	/ /	/ /	/ /	// 21L Ambers NP
DATE MM DD YY	SAMPLEID	SAN	MPLE ID /	TAINERS	1	7/3	0	//	//	//	/		/	REMARKS
1/15/95		4130	DIA-E	5	1	1	11	$\overline{}$	+	11	\mathcal{H}	1	+	H20
7.70	2:20	4121	02A-E	1	1	/	1	\dashv	+	+	\dashv	\dashv	+	
	3:10	4132		1-1-	1	1	1		+	\Box	+	\dashv	+	
	4:00	4133	03A-E 04A-E			1	1	\dashv	+	H	\dashv	+	+	
	7.00	4132	04H-E	- W	1	-	+	+	+	1	\dashv	\dashv	+	11
					H	+	++	+	+	\vdash	\dashv	\dashv	+	3 IN AT PER TOLL DAVIS PIS. ALL
						\top	\Box		1		T	\dashv	十	TPH-motor oil to sanders 4130
			_			\top	+	\top	\top	\Box	\top	\forall	十	TPH-motor oil to sample & 4130, 4131, 4132, 4133, UKS
		**************************************				+	+	\dashv	+	\Box	\top	\dashv	十	101,102,103
					H	+	+	\dashv	+	\vdash	\dashv	\dashv	+	
					\vdash	+	++	+	+	\vdash	+	+	+	
			·	 	\vdash	+	++	\dashv	+	+	+	+	+	- 1
				<u> </u>	\vdash	+	+	\dashv	+	H	+	\dashv	+	
				-	\vdash	+	+	+	+	+	+	\dashv	+	
					\vdash	+	+	+	+	\vdash	\dashv	\dashv	+	
					\vdash	+	+		+	-	+	\dashv	\dashv	· ÷
		<u> </u>			\vdash	+	+		-	\vdash	4	\dashv	+	
					\vdash	\perp	\perp		_		_	\dashv	+	
					\sqcup	\bot	\sqcup		_	\sqcup	4	4	\perp	
					\sqcup	\perp	\perp		<u> </u>	\sqcup	\bot	4	\perp	
					Ш	\perp					\perp	\perp	\perp	
Relinquished	by: (Signature)	Date/Pime	Received by Signature		Rema		- - - -	dan	2	_	T.A	1.	Γ.	Send Results to GNY JETT KLEINFELDER
Relinquished	West (Signature)	2/16/95 10:	15 Milland It	helle	A	the	G	dan		اج	+			7133 KOLL CENTER PARKWAY SUITE 100 PLEASANTON, CA 94566 (510) 484-1700
RelingShee	Joseph Comment	DaterTime			5	, .	. 0	7		, (, (
M-60		White - Samp	1 00001	1.0	_	ry - Retu	ırn Copy	y To Ship	per		-			Pink - Lab Copy No 692

CHAIN OF CHICHORY

1.4	KLEIN	FELDER		1			110	R-	1,5-F	1		9502205
PROJ NO 16-1692-0! LP NO .P.O. NO. P.O. NO. DATE MM DD YY	SAMPLE ID	ME dustrial (Signature/Number) Id Dais SAMPI	Asplat 2671	NO OF CON- TAINERS	8 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		12 P. J.	-				3 IL Ambers acidif with HCl 2 IL Ambers NP REMARKS
	12:30	4130	DIA-E	5		1						H20
1	2:20	4131	02A-E	1	//	V						
	3:10	4132	03A-E		//							
V	4:00	4133	04A-E									1
												JIDAR PER TOUT DAVIC PRINTAL
					\vdash	++	\dashv		\vdash	_	-	1911- nutur oil to samples 4130, 4131 4132 4133 LHS
		/			$\vdash \vdash$	++	++	_	\dashv	-	+-	4131 4132 4133
- /			\\		\vdash	++	++	_	\vdash	_	-	
					$\vdash\vdash$	++	++	+	++	+	+-	
1				-	\vdash	++	++	+	H	+	+	
-				-	$\vdash\vdash$	╀┼	++	+	H	+	+	
	,,					++	++	+	+	+	+	
				 	\vdash	++	++	+	+	+	+	
						++	++	+	+	\vdash	+	
					\vdash	++	+	\dashv	H		+	
					\Box	11	+	\dashv	\Box		\top	
						$\top \top$	\top	\top	П		\top	
				1								
Relinquishe Supl	d by: (Signature) d by: (Signature) d by: (Signature) d/oy/sSignature)	Date/Time 3/16/95 8:06 Date/Time 3/16/95 10:15 Date/Time 3/16/95 11:0	Received by (Signature) Received for Laborato (Signature)	heller	0	5ta Itn	nda Guy		Se	r.A H	.T.	
M-60	*	White - Sample	U U	CII	Canary A TRT		Copy To S	585	177			Pink - Lab Copy Nº 692

10-1682-03 INDUSTRIAL ASPHALT

Quarterly Ground Water Monitoring
Laboratory Analyses
November 1994

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

FILE COPY

PAGE 1

KLEINFELDER, INC. 7133 KOLL CTR PARKWAY,STE 100 PLEASANTON, CA 94566

ATTN: GUY JETT

CLIENT PROJ. ID: 10-1682-03/035 CLIENT PROJ. NAME: IND. ASPHALT

C.O.C. NUMBER: 715 P.O. NUMBER: R2004 REPORT DATE: 12/16/94

DATE(S) SAMPLED: 11/21/94-11/22/94

DATE RECEIVED: 11/23/94

AEN WORK ORDER: 9411346

PROJECT SUMMARY:

On November 23, 1994, this laboratory received 9 water sample(s).

Client requested sample(s) be analyzed for organic parameters. Results of analysis are summarized on the following page(s).

Please see quality control report for a summary of QC data pertaining to this project.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein

Laboratory Director

KLEINFELDER, INC.

SAMPLE ID: 652395 AEN LAB NO: 9411346-01 AEN WORK ORDER: 9411346 CLIENT PROJ. ID: 10-1682-03/035

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
			ç.		
#Extraction for TPH	EPA 3510			Extrn Date	12/04/94
TPH as Diesel	GC-FID	ND	0.05	mg/L	12/05/94
TPH as Oil	GC-FID	ND	0.2	mg/L	12/05/94
#Water Extrn for HCs (IR)	SM 5520CF	-		Extrn Date	12/06/94
#Water Extrn for O&G (IR)	SM 5520C	-		Extrn Date	12/06/94
Hydrocarbons (IR)	SM 5520CF	ND	0.5	mg/L	12/06/94
Oil & Grease (IR)	SM 5520C	ND	0.5	mg/L	12/06/94
#Extraction for Pest/PCBs	EPA 3510	-		Extrn Date	11/28/94
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 8080 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L ug/L	11/30/94 11/30/94 11/30/94 11/30/94 11/30/94 11/30/94 11/30/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

KLEINFELDER, INC.

SAMPLE ID: 652382 $\mu \omega - 7$ AEN LAB NO: 9411346-02
AEN WORK ORDER: 9411346
CLIENT PROJ. ID: 10-1682-03/035 Nw-7

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Futuration for TDU	EDA 2510			Extrn Date	. 12/04/94
#Extraction for TPH	EPA 3510	•			
TPH as Diesel	GC-FID	0.08 *	0.05	mg/L	12/06/94
TPH as Oil	GC-FID	0.2 *	0.2	mg/L	12/06/94
#Water Extrn for HCs (IR)	SM-5520CF	_		Extrn Date	e 12/06/94
#Water Extrn for O&G (IR)	SM 5520C	-		Extrn Date	e 12/06/94
Hydrocarbons (IR)	SM 5520CF	ND	0.5	mg/L	12/06/94
Oil & Grease (IR)	SM 5520C	0.8 *	0.5	mg/L	12/06/94
#Extraction for Pest/PCBs	EPA 3510	-		Extrn Date	e 11/28/94
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 8080 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L ug/L	11/30/94 11/30/94 11/30/94 11/30/94 11/30/94 11/30/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

KLEINFELDER, INC.

MW-10 SAMPLE ID: 12206

AEN LAB NO: 9411346-03 AEN WORK ORDER: 9411346 CLIENT PROJ. ID: 10-1682-03/035

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	2 12/04/94
TPH as Diesel	GC-FID	2.0 *	0.05	mg/L	12/06/94
TPH as Oil	GC-FID	0.5 *	0.2	mg/L	12/06/94
#Water Extrn for HCs (IR)	SM 5520CF	- "		Extrn Date	12/06/94
#Water Extrn for O&G (IR)	SM 5520C	-		Extrn Date	12/06/94
Hydrocarbons (IR)	SM 5520CF	0.9 *	0.5	mg/L	12/06/94
Oil & Grease (IR)	SM 5520C	2 *	0.5	mg/L	12/06/94
#Extraction for Pest/PCBs	EPA 3510	-		Extrn Date	11/28/94
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 8080 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L	11/30/94 11/30/94 11/30/94 11/30/94 11/30/94 11/30/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

KLEINFELDER, INC.

SAMPLE ID: 12211

AEN LAB NO: 9411346-04 AEN WORK ORDER: 9411346

CLIENT PROJ. ID: 10-1682-03/035

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510			Evton Date	= 12/04/94
TPH as Diesel	GC-FID	ND	0.05	400	12/06/94
				mg/L	
TPH as 0il	GC-FID	ND	0.2	mg/L	12/06/94
#Water Extrn for HCs (IR)	SM 5520CF			Extrn Date	2/06/94
#Water Extrn for O&G (IR)	SM 5520C	-		Extrn Date	e 12/06/94
Hydrocarbons (IR)	SM 5520CF	ND	0.5	mg/L	12/06/94
Oil & Grease (IR)	SM 5520C	ND	0.5	mg/L	12/06/94
#Extraction for Pest/PCBs	EPA 3510	-		Extrn Date	e 11/28/94
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 8080 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L	11/30/94 11/30/94 11/30/94 11/30/94 11/30/94 11/30/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

KLEINFELDER, INC.

MW-16 SAMPLE ID: 12221

AEN LAB NO: 9411346-06 AEN WORK ORDER: 9411346 CLIENT PROJ. ID: 10-1682-03/035

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510			Extrn Date	12/05/94
TPH as Diesel	GC-FID	0.06 *	0.05	mg/L	12/06/94
TPH as Oil	GC-FID	ND	0.2	mg/L	12/06/94
#Water Extrn for HCs (IR)	SM 5520CF			Extrn Date	12/06/94
#Water Extrn for O&G (IR)	SM 5520C	-		Extrn Date	12/06/94
Hydrocarbons (IR)	SM 5520CF	ND	0.5	mg/L	12/06/94
Oil & Grease (IR)	SM 5520C	ND	0.5	mg/L	12/06/94
#Extraction for Pest/PCBs	EPA 3510	-		Extrn Date	11/28/94
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 8080 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L	11/29/94 11/29/94 11/29/94 11/29/94 11/29/94 11/29/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

KLEINFELDER, INC.

MW-14 (dup) SAMPLE ID: 12231

AEN LAB NO: 9411346-08

AEN WORK ORDER: 9411346 CLIENT PROJ. ID: 10-1682-03/035

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	, DATE ANALYZED
#Extraction for TPH	EPA 3510	_		Extrn Date	12/05/94
TPH as Diesel	GC-FID	0.09 *	0.05	mg/L	12/06/94
TPH as Oil	GC-FID	ND	0.2	mg/L	12/06/94
#Water Extrn for HCs (IR)	SM 5520CF	-		Extrn Date	12/06/94
#Water Extrn for O&G (IR)	SM 5520C	-		Extrn Date	12/06/94
Hydrocarbons (IR)	SM 5520CF	ND	0.5	mg/L	12/06/94
Oil & Grease (IR)	SM 5520C	ND	0.5	mg/L	12/06/94
#Extraction for Pest/PCBs	EPA 3510	-		Extrn Date	11/28/94
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 8080 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L	11/29/94 11/29/94 11/29/94 11/29/94 11/29/94 11/29/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

KLEINFELDER, INC.

MW-8 SAMPLE ID: 12236 MW-8 AEN LAB NO: 9411346-09 AEN WORK ORDER: 9411346 CLIENT PROJ. ID: 10-1682-03/035

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Futuration for TDU	FDA 2510			Extrn Date	12/05/04
#Extraction for TPH	EPA 3510	-	0.05		17
TPH as Diesel	GC-FID	1.1 *	0.05	mg/L	12/06/94
TPH as Oil	GC-FID	1.5 *	0.2	mg/L	12/06/94
#Water Extrn for HCs (IR)	SM 5520CF	-		Extrn Date	12/06/94
#Water Extrn for O&G (IR)	SM 5520C	· -		Extrn Date	12/06/94
Hydrocarbons (IR)	SM 5520CF	0.5 *	0.5	mg/L	12/06/94
Oil & Grease (IR)	SM 5520C	1 *	0.5	mg/L	12/06/94
#Extraction for Pest/PCBs	EPA 3510	- 12 - 12		Extrn Date	11/28/94
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 8080 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L ug/L	11/29/94 11/29/94 11/29/94 11/29/94 11/29/94 11/29/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

AEN (CALIFORNIA) QUALITY CONTROL REPORT

AEN JOB NUMBER: 9411346

CLIENT PROJECT ID: 10-1682-03/035

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (equeous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

- D: Surrogates diluted out.
- #: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9411346

DATE EXTRACTED: 12/04/94; 12/05/94 INSTRUMENT: C.D

MATRIX: WATER

Surrogate Standard Recovery Summary

	The same of the sa		
Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
12/05/94 12/06/94 12/06/94 12/06/94 12/06/94 12/06/94 12/06/94 12/06/94	652395 652382 12206 12211 12216 12221 12226 12231 12236	01 02 03 04 05 06 07 08 09	93 99 105 103 99 96 96 98 113
QC Limits:			30-120

DATE EXTRACTED: 12/04/94 DATE ANALYZED: 12/06/94 SAMPLE SPIKED: DI WATER INSTRUMENT: C

Method Spike Recovery Summary

				QC Limi	+c
	Spike Added	Average Percent		Percent	LS
Analyte	(mg/L)	Recovery	RPD	Recovery	RPD
Diesel	2.01	92	4	65-103	12

QUALITY CONTROL DATA

AEN JOB NO: 9411346 DATE EXTRACTED: 12/04/94 DATE ANALYZED: 12/04/94 MATRIX: WATER

Method Spike Recovery Summary Method: SM 5520

	6 .:1			QC Lim	its
Analyte	Spike Added (mg/L)	Average Percent Recovery	RPD	Percent Recovery	RPD
Oil	7.1	93	2	83-107	5

QUALITY CONTROL DATA

METHOD: EPA 8080

AEN JOB NO: 9411346 DATE EXTRACTED: 11/28/94

INSTRUMENT: B MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery 2,4,5,6-Tetrachloro-meta-xylene
11/30/94 11/30/94 11/30/94 11/30/94 11/30/94 11/29/94 11/29/94 11/29/94	652395 652382 12206 12211 12216 12221 12226 12231 12236	01 02 03 04 05 06 07 08 09	103 98 103 98 96 97 58 104 98
QC Limits:			30-131

DATE EXTRACTED: 11/28/94
DATE ANALYZED: 11/29/94
SAMPLE SPIKED: LCS
INSTRUMENT: B

Laboratory Control Sample

			QC Limits	
Analyte	Spike Added (ug/L)	Percent Recovery	Percent Recovery	
A1260	4.00	100	53-133	

KLE THE ELDER With HCl. Two IL Ambers Not Preserved 10-162-03/035 Industrial NO LP NO P.O. NO. CON TAINERS SAMPLEID DATE MM DD YY HH MM SS 652395 5 11/21/74 10:15 OIA - E 652382 5 1:30 OZA -E 4:00 12206 5 034 - E 4:30 044 - E 122211 (12211) 5 12216 10:30 05A -E 5 12221 12:15 064 -E 5 1:30 12226 07A-E 223 2100 084 -E 3:00 12236 09A-E Per project history: 0+6 by 5520CF 054 11/23/94 Standard T.A.T. Attn. Guy Jett Send Results To Date/Time Received by: (Signature) Relinquished by: (Signature) 11/23/94 8:20 KLEINFELDER Received by: (Shingure) 7133 KOLL CENTER PARKWAY Relinquished by: (Signature) Date/Time SUITE 100 11-239, 9:50 PLEASANTON, CA 94566 (510) 484-1700 Received for Laboratory by: Relinquished by Biggsty Date/Time Pink - Lab Copy White - Sampler Canary - Return Copy To Shipper

1 1 1

, ,	TETTV	FEEDER		T			_				9411346
O- 1682-01	1635 Ind	ustrial As	phalt	NO		//	//	7/	//	77	1 /3 IL Ambers acidit
P.O. NO.	SAMPLERS:	(Signature/Number)	2671	OF CON- TAINERS	4 / A		y //	//			41/1346 3 IL Ambers acidit With HCl. Two II Ambers Not Preserved REMARKS
MM DD YY	HH MM SS				17	79	//				
11/21/14	10:15	652395		5		14					OIA - E
	1:30	651387		5		14					02A -E
	4:00	12206		5		14					03A - E
V	4:30	12221	(12211)	5	1/	1/					04A - E
11/22/91	16:30	12216		5		\mathcal{I}					05A - E
'	12:15	12221		5			П				06A - E
	1:30	12226		5		1	\prod				07A-E
	2:00	1223		5		1				l	084 -E
V	3:00	12236		5	1						09A -E
					П						
											Per project history: TPH as diesel + oil
				ļ	\vdash	11	\sqcup			\vdash	TPH as diesel + oil
		·			\perp	$\bot \bot$	$\bot \bot$			\sqcup	046 by 5520CF
				ļ	\vdash		++	-			DS4 11/2 3/94
			1		++	+	++-	-		\vdash	
					\Box	++	$\dagger \dagger$	1			
								\top			
			q1		\Box		\sqcap				
							\sqcap				
Total	by: (Signature)	Date/Time 11/23/94 8:20 Date/Time	Received by: (Signature Sury U The Received/by: (Signature)	-	Remark	Star th.	dar	4	T.	A.T	Send Results To Guy Jett KLEINFELDER 7133 KOLL CENTER PARKWAY
Relinquished	Sugart	11-23-9 4:50 Date/Time 1/23-8 /2:15	Received for Laborato	Intlès	A	·th.	G	uy.	Jet	+	SUITE 100 PLEASANTON, CA 94566 (510) 484-1700
merca	~ Me Mill	(13.0)	Dennet	alrea	to						

M-60

White - Sampler

/ Canary - Rieturn Copy To Shipper CHAIN OF CUCTORY

715

American Environmental Network

Certificate of Analysis

DOHS Certification: 1172

AIHA Accreditation: 11134

Lab Data

KLEINFELDER, INC. 7133 KOLL CTR PARKWAY.STE 100 PLEASANTON, CA 94566

ATTN: GUY JETT

CLIENT PROJ. ID: 10-1682-03/035 CLIENT PROJ. NAME: IND. ASPHALT

C.O.C. NUMBER: 626 P.O. NUMBER: R2006 REPORT DATE: 12/14/94

DATE(S) SAMPLED: 11/23/94

DATE RECEIVED: 11/23/94

AEN WORK ORDER: 9411358

PROJECT SUMMARY:

On November 23, 1994, this laboratory received 3 water sample(s).

Client requested sample(s) be analyzed for organic parameters. Results of analysis are summarized on the following page(s).

Please see quality control report for a summary of QC data pertaining to this project.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein

Laboratory Director

KLEINFELDER, INC.

NW-2 SAMPLE ID: 12241

AEN LAB NO: 9411358-01

AEN WORK ORDER: 9411358 CLIENT PROJ. ID: 10-1682-03/035

DATE SAMPLED: 11/23/94 DATE RECEIVED: 11/23/94 REPORT DATE: 12/14/94

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	12/05/94
TPH as Diesel	GC-FID	19 *	0.3	mg/L	12/06/94
TPH as Oil	GC-FID	13 *	1	mg/L	12/06/94
#Water Extrn for HCs (IR)	SM 5520CF	-		Extrn Date	12/06/94
#Water Extrn for O&G (IR)	SM 5520C	-		Extrn Date	12/06/94
Hydrocarbons (IR)	SM 5520CF	34 3	0.5	mg/L	12/06/94
Oil & Grease (IR)	SM 5520C	45 7	0.5	mg/L	12/06/94
#Extraction for Pest/PCBs	EPA 3510	-		Extrn Date	11/28/94
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 8080 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L ug/L	11/29/94 11/29/94 11/29/94 11/29/94 11/29/94 11/29/94 11/29/94

Reporting limits elevated for diesel/oil due to high levels of target compounds; sample run at dilution.

ND = Not detected at or above the reporting limit
* = Value above reporting limit

KLEINFELDER, INC.

NW-S (grb) SAMPLE ID: 25961

AEN LAB NO: 9411358-02 AEN WORK ORDER: 9411358 CLIENT PROJ. ID: 10-1682-03/035

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	_		Extrn Date	e ⁻ 12/05/94
TPH as Diesel	GC-FID	4.3 *	0.05	mg/L	12/06/94
TPH as Oil	GC-FID	2.5 *	0.2	mg/L	12/06/94
#Water Extrn for HCs (IR)	SM 5520CF	-		Extrn Date	e 12/06/94
#Water Extrn for O&G (IR)	SM 5520C	-		Extrn Date	e 12/06/94
Hydrocarbons (IR)	SM 5520CF	5.2 *	0.5	mg/L	12/06/94
Oil & Grease (IR)	SM 5520C	6.7 *	0.5	mg/L	12/06/94
#Extraction for Pest/PCBs	EPA 3510	-		Extrn Date	e 11/28/94
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 8080 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L	11/29/94 11/29/94 11/29/94 11/29/94 11/29/94 11/29/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

KLEINFELDER, INC.

MW-3 SAMPLE ID: 650510 MW-3 AEN LAB NO: 9411358-03 AEN WORK ORDER: 9411358 CLIENT PROJ. ID: 10-1682-03/035

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	_	e e	Extrn Date	12/05/94
TPH as Diesel	GC-FID	2.5 *	0.05	mg/L	12/06/94
TPH as Oil	GC-FID	1.9 *	0.2	mg/L	12/06/94
#Water Extrn for HCs (IR)	SM 5520CF	-		Extrn Date	12/06/94
#Water Extrn for O&G (IR)	SM 5520C	(-)		Extrn Date	12/06/94
Hydrocarbons (IR)	SM 5520CF	7.0 *	0.5	mg/L	12/06/94
Oil & Grease (IR)	SM 5520C	9.3 *	0.5	mg/L	12/06/94
#Extraction for Pest/PCBs	EPA 3510	-		Extrn Date	11/28/94
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 8080 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L ug/L	11/29/94 11/29/94 11/29/94 11/29/94 11/29/94 11/29/94 11/29/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

AEN (CALIFORNIA) QUALITY CONTROL REPORT

AEN JOB NUMBER: 9411358

CLIENT PROJECT ID: 10-1682-03/035

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

- D: Surrogates diluted out.
- #: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9411358

DATE EXTRACTED: 12/05/94

INSTRUMENT: C MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
12/06/94 12/06/94 12/06/94	12241 25961 650510	01 02 03	I 112 105
QC Limits:			30-120

I: Surrogate out due to matrix interference

DATE EXTRACTED: 12/04/94 DATE ANALYZED: 12/06/94 SAMPLE SPIKED: DI WATER INSTRUMENT: C

Method Spike Recovery Summary

				QC Limi	ts
Analyte	Spike Added (mg/L)	Average Percent Recovery	RPD	Percent Recovery	RPD
Diesel	2.01	92	4	65-103	12

QUALITY CONTROL DATA

AEN JOB NO: 9411358

DATE EXTRACTED: 12/04/94
DATE ANALYZED: 12/04/94
MATRIX: WATER

Method Spike Recovery Summary Method: SM 5520

				QC Lim	its
Analyte	Spike Added (mg/L)	Average Percent Recovery	RPD	Percent Recovery	RPD
Oil	7.1	93	2	83-107	5

QUALITY CONTROL DATA

METHOD: EPA 8080

AEN JOB NO: 9411358

DATE EXTRACTED: 11/28/94

INSTRUMENT: B MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery 2,4,5,6-Tetrachloro-meta-xylene
11/29/94 11/29/94 11/29/94	12241 25961 650510	01 02 03	91 97 100
QC Limits:			30-131

DATE EXTRACTED: 11/28/94
DATE ANALYZED: 11/29/94
SAMPLE SPIKED: LCS
INSTRUMENT: B

Laboratory Control Sample

			QC Limits	
Analyte	Spike Added (ug/L)	Percent Recovery	Percent Recovery	
A1260	4.00	101	53-133	

1	KLEITVI	FELDER						<u>_</u> y		ځ					AFALH QUILLES
PRO L NO	PROJECT NA	R-5, S-A		1			7	7	7	7	7	7	7	,	AEN#9411358 //3 IL Ambers acidifi
10-1482-0	% Ind	ustrial As	phalt	NO		/	//	//		//	//	//	//	/	With HCl 2 1L Ambers Not Prese
P.O. NO.	SAMPLERS: ((Signature/Number)	(2/2)	OF	3	3/4	[9]	14	//		/,	//	//	//	2 11 Anlers Not Prese
R2004		SAMPLE	10	CON	3	3	W.	b /	//	/ /			/	/ ,	
MM DD YY	SAMPLE I D TIME HH MM SS	JAWI EL		TAINENS	19	7/	79	' /		//	/ /	//	//		REMARKS
-	10:45	12241	01A - E	5	1	1	1							ſ	May Mad to dilute
	11100	25961	024-E	5		1	1	T	Π	П		\top			1 1 2 1
V	12:30	650510	03A -E	5	Z	//	1								V
				ĺ											
															Per proj. Listory:
															Diesel + OiL
															046 by 5520CF
															046 by 5520CF DSH "/23/94
	1.														
		8													
								T	П		T			Π	
								T			T			Π	
						\top	\top	T	П				T	Т	
						\top	\top	T						Т	
						\top	T	T	П		T	\top		Τ	
						\top	\top	T			T	T		T	
							1	T	1		\top				
Relinquished	by: (Signature)	11/53/94/15:50	Received by: (Symboure)	r hulla	Rem	arks	sta	w	da	rd,	1-	r.A	1.7	1	Send Results To Guy Jeff KLEINFELDER
Relinquished	E Leville	Date/Time 11-23 18:50	Received by: (Signature)		A-	ttn	6	ful	, [Tel	4			7133 KOLL CENTER PARKWAY SUITE 100 PLEASANTON, CA 94566 (510) 484-1700
Relinquished	by. (Signature)	11/23/94 1850	Received for Laborator (Signature)		1	,									
M-60		White - Sampler		7	C	ary - Re			01-1						Pink - Lab Copy

Νō

626

77	KLEINI	ELDER		-									1			151494435
PROJ NO	PROJECT NA	R-5, S-A		'	_		7	7		7	7	,		,	,	1/2/1/1/358
10-1682-0	63 Ind	ustrial A	sphalt	NO			/,	/,	//	/	//		/	/	/	NENJI 94/1358 // 3 IL Ambers acidifie With HCl 2 IL Anbers Not Preser
LP NO	SAMPLERS: (Signature/Number)		OF	١.	3/L	K	1/0	5//	/ /	/ /					A Laus Not Proces
R2004		Dio	12671	CON-	3	10	X	40/	//		/	/ ,	/ /	/ ,	/ ,	// 2 1L ANGERS! MOST
DATE MM DD YY	SAMPLE I.D. TIME	SAMP	LEID	TAINERS	/4	Y/-	7) /	//	//	//					REMARKS
		125/11		-	1	4	1	-	-	+	\leftarrow	\leftarrow	\leftarrow	\leftarrow	\leftarrow	(A) A4 0 + 1:1 +a
11/23/94	10:45	12241	DIA -E	5	1	4	\mathcal{A}	\dashv	+	+	+	\vdash	\vdash		_	May Mad to dilute
	11:00	2596	074-E	5			4	\dashv	+	╁	+	-		\vdash	_	
-4-	12:30	650510	03A - E	5	K	4	+	\dashv	\dashv	+	+	-	-			V
					H	-	\dashv	\dashv	\dashv	+	+	-	-			e · · · · · ·
				-	\vdash	-	\dashv	\dashv	+	+	+	\vdash				Per proj. Listory: O Diesel + Oit
		•		-	H	\dashv	\dashv	+	+	+	+	-		-	_	Diesel + OiL
				-	H	-	\dashv	\dashv		+	+	-			_	046 by 5520CF USH "/23/94
				-		-	\dashv	+		+	+	-	\vdash			DDA 1/23/94
					H	\dashv	\dashv	+	-	+	+	-		-		
					\vdash	\dashv	\dashv	\dashv	-	+	+	\vdash			_	<u> </u>
+				-	\vdash	\dashv	\dashv	\dashv	+	+	+	-		_	_	
				 		\dashv	\dashv	\dashv	+	+	+-	-			_	
							\dashv	\dashv		+	+-	-				
					\vdash	_	\dashv	\dashv		+	+-					
					\vdash	\dashv	\dashv	\dashv	-	+	+-					
				ļ	\vdash	\dashv	\dashv	\dashv	+	+	-	_				<u> </u>
				<u> </u>	\vdash	\dashv	-	\dashv	\dashv	+	-	_				·
				 	\square	\dashv	4	\dashv	+	+	+		\vdash			
				-	Н	\dashv	\dashv	\dashv	+	+	+	_				
-			I manufacture Co	1 4.			\bot	\perp	丄		上					
Tol	by: (Signature)	11/53/44 /5:50	Received by: (Signature	r hulla	Hen	narks <	54	ar	A.	ar	d	7.	A.	T.	•	Send Results To GNY JEHT
Mechae	E Chille	Date/Time	Received by: (Signature)		A	tti	. `	od.	Y	Je	#	•			7133 KOLL CENTER PARKWAY SUITE 100 PLEASANTON, CA 94566 (510) 484-1700
Relinquished	by: (Signature)	"/23/94 185	Received for Laborato (Signiture)	/ ·	/											
M-60		White - Semnler							To Shir							Pink - Lah Conv

Canary - Return Copy To Shipper

626

V.	TOTAL E PAR	FEEDER	3, 5 / D			7	1			4					1	NEN H 9011359 VOA'S acidified W/HC/ Sooml Plastic W/NAOH 2 IL Amber W/HC/ REMARKS, HC/ H IL Amber Not Preserve
PROJ NO		AME /					7	1	7/3	A	1	7	7	7	7	// NOA's acidified w/11
10-2300-0	2 Cal	Mat Jan	ieson	NO		,	/ ,	17		ϕ_{λ}		/ ,	/ /	//	/ /	// Vollage
L P NO	SAMPLERS:	(Signature/Number)	2671	OF	د ا		1	1/4	7.79	4	/ /		/		/	/ SOOM Plastic W/, NAOH
PATE	SAMPLE ID	SAMPLE		CON-	1 1	W		W		À	//	/ /	//			L Amber W HC
MM DD YY	TIME HH MM SS				/4	9/4		4 4	77	\angle	\perp	\angle			_	1 IL Amber Not Preserve
11/53/14	2:30	650509		10	\angle		4	4	4	\perp			_	4	\perp	01A - J
//								1	_	_	_		_	4	_	
								_	_	\bot	_		\dashv	+	-	N
							_	\dashv	-	+	-	\vdash	\dashv	+	\dashv	
						-	\dashv	\dashv	+	+	-	\vdash	\dashv	+	\dashv	10.10
						\vdash	\dashv	\dashv	-	+	+-	\vdash	\dashv	+	\dashv	Cancel all analysis
			· · · · · · · · · · · · · · · · · · ·					+	\dashv	+	+	H	\dashv	\dashv	\dashv	except 600 BTEX is
			2.00_2,000000000000000000000000000000000				\neg	\dashv	\top				\neg	\forall	\dashv	EXCIPT GO BTEX RE
								\neg	十	1		П	\dashv	7	\dashv	
														\perp	\Box	
									_	1	_		_	\perp		
		•						\dashv	\perp	\bot	_		\perp	\dashv	\dashv	
							\dashv	\dashv	+	+	+		-	\dashv	\dashv	
						-	\vdash	\dashv	+	+	+	\vdash	\vdash	\dashv	\dashv	
						-	\dashv	\dashv	+	+	+		\dashv	\dashv	-	
							\vdash	\dashv	+	+	+			\dashv		
Relinquishe	d by: (Signature)	Date/Time	Received by: (Signature	. M	Ren	narks	Щ,			1		<u>ار</u> د		<u> </u>		Send Results To
7	118	1/23/04/15:50	hickard &	dutto		<	Sto	and	dar	d	-1	· A):/	4		GLY JET/
Relinquishe	d by: (Signature)	7 Date/Time	Received by: (Signature)		1	4					-	-41		•	7133 KOLL CENTER PARKWAY SUITE 100
Melo	Etelul	11.23 18:5c				AT	In	•	dan	51	Ŋ	J	211			PLEASANTON, CA 94566 (510) 484-1700
Relinquishe	d by: (Signature)	Date/Time	Received for Laborato (Signature)	ry by:	1					,						
		123/94 1850	Demirta	ster 1	100	<u>ر</u>										
M-60		White - Sampler			Car	ary -	Return	Conv	To Sh	inner				•		Pink - Lab Copy

American Environmental Network

DOHS Certification: 1172

AlHA Accreditation: 11134

FILE COPY

PAGE 1

Lab Data

KLEINFELDER, INC. 7133 KOLL CTR PARKWAY, STE 100 PLEASANTON, CA 94566

ATTN: GUY JETT

CLIENT PROJ. ID: 10-1682-03/035 CLIENT PROJ. NAME: IND. ASPHALT

C.O.C. NUMBER: 716 P.O. NUMBER: R1987

REPORT DATE: 12/02/94

DATE(S) SAMPLED: 11/14/94

DATE RECEIVED: 11/15/94

AEN WORK ORDER: 9411201

PROJECT SUMMARY:

On November 15, 1994, this laboratory received 3 water sample(s).

Client requested sample(s) be analyzed for organic parameters. Results of analysis are summarized on the following page(s).

Please see quality control report for a summary of QC data pertaining to this project.

If you have any questions, please contact Client Services at (510) 930-9090.

Larry Klein Laboratory Director

KLEINFELDER, INC.

SAMPLE ID: 652490 AEN LAB NO: 9411201-01 AEN WORK ORDER: 9411201 CLIENT PROJ. ID: 10-1682-03/035

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	11/16/94
TPH as Diesel	GC-FID	ND	0.05	mg/L	11/19/94
TPH as Oil	GC-FID	ND	0.2	mg/L	11/19/94
#Water Extrn for HCs (IR)	SM 5520CF	-		Extrn Date	11/22/94
#Water Extrn for O&G (IR)	SM 5520C	-		Extrn Date	11/22/94
Hydrocarbons (IR)	SM 5520CF	ND	0.5	mg/L	11/23/94
Oil & Grease (IR)	SM 5520C	ND	0.5	mg/L	11/23/94
#Extraction for Pest/PCBs	EPA 3510	-		Extrn Date	11/16/94
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 8080 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L ug/L	11/17/94 11/17/94 11/17/94 11/17/94 11/17/94 11/17/94 11/17/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

KLEINFELDER, INC.

MW-4

SAMPLE ID: 652496

AEN LAB NO: 9411201-02 AEN WORK ORDER: 9411201 CLIENT PROJ. ID: 10-1682-03/035

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510			Extrn Date	11/16/94
TPH as Diesel	GC-FID	ND	0.05	mg/L	11/19/94
TPH as Oil	GC-FID	ND	0.2	mg/L	11/19/94
#Water Extrn for HCs (IR)	SM 5520CF	-		Extrn Date	11/22/94
#Water Extrn for O&G (IR)	SM 5520C	-		Extrn Date	11/22/94
Hydrocarbons (IR)	SM 5520CF	ND	0.5	mg/L	11/23/94
Oil & Grease (IR)	SM 5520C	0.5 *	0.5	mg/L	11/23/94
#Extraction for Pest/PCBs	EPA 3510	-		Extrn Date	11/16/94
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 8080 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L	11/17/94 11/17/94 11/17/94 11/17/94 11/17/94 11/17/94 11/17/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

KLEINFELDER, INC.

mw-l SAMPLE ID: 652390

AEN LAB NO: 9411201-03

AEN WORK ORDER: 9411201

CLIENT PROJ. ID: 10-1682-03/035

ANALYTE	METHOD/ CAS#	RESULT	REPORTING LIMIT	UNITS	DATE ANALYZED
#Extraction for TPH	EPA 3510	-		Extrn Date	11/16/94
TPH as Diesel	GC-FID	0.6 *	0.05	mg/L	11/29/94
TPH as Oil	GC-FID	0.6 *	0.2	mg/L	11/29/94
#Water Extrn for HCs (IR)	SM 5520CF	-		Extrn Date	11/22/94
#Water Extrn for O&G (IR)	SM 5520C	*		Extrn Date	11/22/94
Hydrocarbons (IR)	SM 5520CF	3 *	0.5	mg/L	11/23/94
Oil & Grease (IR)	SM 5520C	5 *	0.5	mg/L	11/23/94
#Extraction for Pest/PCBs	EPA 3510	-		Extrn Date	11/16/94
Polychlorinated Biphenyls Aroclor 1016 Aroclor 1221 Aroclor 1232 Aroclor 1242 Aroclor 1248 Aroclor 1254 Aroclor 1260	EPA 8080 12674-11-2 11104-28-2 11141-16-5 53469-21-9 12672-29-6 11097-69-1 11096-82-5	ND ND ND ND ND ND	0.5 0.5 0.5 0.5 0.5 0.5	ug/L ug/L ug/L ug/L ug/L ug/L	11/17/94 11/17/94 11/17/94 11/17/94 11/17/94 11/17/94 11/17/94

ND = Not detected at or above the reporting limit
* = Value above reporting limit

AEN (CALIFORNIA) QUALITY CONTROL REPORT

AEN JOB NUMBER: 9411201

CLIENT PROJECT ID: 10-1682-03/035

Quality Control and Project Summary

All laboratory quality control parameters were found to be within established limits.

Definitions

Laboratory Control Sample (LCS)/Method Spike(s): Control samples of known composition. LCS and Method Spike data are used to validate batch analytical results.

Matrix Spike(s): Aliquot of a sample (aqueous or solid) with added quantities of specific compounds and subjected to the entire analytical procedure. Matrix spike and matrix spike duplicate QC data are advisory.

Method Blank: An analytical control consisting of all reagents, internal standards, and surrogate standards carried through the entire analytical process. Used to monitor laboratory background and reagent contamination.

Not Detected (ND): Not detected at or above the reporting limit.

Relative Percent Difference (RPD): An indication of method precision based on duplicate analysis.

Reporting Limit (RL): The lowest concentration routinely determined during laboratory operations. The RL is generally 1 to 10 times the Method Detection Limit (MDL). Reporting limits are matrix, method, and analyte dependent and take into account any dilutions performed as part of the analysis.

Surrogates: Organic compounds which are similar to analytes of interest in chemical behavior, but are not found in environmental samples. Surrogates are added to all blanks, calibration and check standards, samples, and spiked samples. Surrogate recovery is monitored as an indication of acceptable sample preparation and instrumental performance.

- D: Surrogates diluted out.
- #: Indicates result outside of established laboratory QC limits.

QUALITY CONTROL DATA

METHOD: EPA 3510 GCFID

AEN JOB NO: 9411201

DATE EXTRACTED: 11/16/94 INSTRUMENT: C MATRIX: WATER

Surrogate Standard Recovery Summary

Date Analyzed	Client Id.	Lab Id.	Percent Recovery n-Pentacosane
11/19/94 11/19/94 11/29/94	652490 652496 652390	01 02 03	73 71 69
QC Limits:			30-120

DATE EXTRACTED: 11/14/94 DATE ANALYZED: 11/18/94 SAMPLE SPIKED: DI WATER INSTRUMENT: C

Method Spike Recovery Summary

4	,			QC Limi	 Limits	
Analyte	Spike Added (mg/L)	Average Percent Recovery	RPD	Percent Recovery	RPD	
Diesel	1.72	93	4	65-103	12	

QUALITY CONTROL DATA

METHOD: EPA 8080

AEN JOB NO: 9411201

DATE EXTRACTED: 11/16/94

INSTRUMENT: B MATRIX: WATER

Surrogate Standard Recovery Summary

	Percent Reco		Percent Recovery
Date Analyzed	Client Id.	Lab Id.	2,4,5,6-Tetrachloro-meta-xylene
11/17/94 11/17/94 11/17/94	652490 652496 652390	01 02 03	106 109 95
QC Limits:			30-131

DATE EXTRACTED: 11/11/94 DATE ANALYZED: SAMPLE SPIKED: 11/12/94

INSTRUMENT: B

DI WATER

Method Spike Recovery Summary

				OC Lir	QC Limits	
Analyte	Spike Added (ug/L)	Average Percent Recovery	RPD	Percent Recovery	RPD	
A1260	4.00	101	<1	53-133	16	

KLEINFELDER 9411201 //3 | Liter Ambers /Acidified W/HC1 2 | Liter Ambers Not acidified. PROJECT NAME LP NO SAMPLERS: (Signature/Number) R1987 CON-TAINERS SAMPLE I.D. DATE MM DD YY HH MM SS DIA-E 652490 5 DIA-E 12:50 ODA-E 652496 DIA-E 2:10 03A E 3:45 652390 03A-E 2 Standard T.A.T. Attn. Guy Jett Send Results To Guy Jett Date/Time 10:4 Received by (Signifure) Relinquished by: (Signature) KLEINFELDER 7133 KOLL CENTER PARKWAY Date/Time SUITE 100 Relinquished by Synature PLEASANTON, CA 94566 (510) 484-1700 Received for Laboratory by: 15-9 Relinguished by (Signature) Date/Time Pink - Lab Copy Canary - Return Copy To Shipper White - Sampler M-60

MITATE OF OHIGHOUN