

File No. 8-90-421-SI

DECEMBER 1992 AND JANUARY 1993
SAMPLING OF EL CERRITO CREEK
ADJACENT TO PLAZA CAR WASH
LOCATED AT 400 SAN PABLO AVENUE
ALBANY, CALIFORNIA
FEBRUARY 2, 1993

PREPARED FOR:
KAMUR INDUSTRIES, INC.
2351 SHORELINE DRIVE
ALAMEDA, CALIFORNIA 94501

BY:
SOIL TECH ENGINEERING, INC.
298 BROKAW ROAD
SANTA CLARA, CALIFORNIA 95050

SOIL TECH ENGINEERING, INC.

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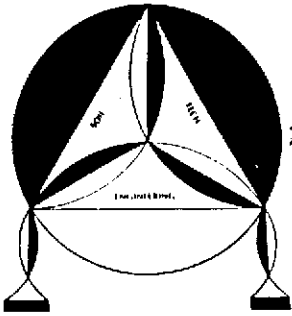
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SOIL TECH ENGINEERING, INC.



SOIL TECH ENGINEERING

Soil, Foundation and Geological Engineers

298 BROKAW ROAD, SANTA CLARA, CA 95050 ■ (408) 496-0265 OR (408) 496-0266

February 2, 1993

File No. 8-90-421-SI

Kamur Industries, Inc.
2351 Shoreline Drive
Alameda, California 94501

ATTENTION: MR. MURRAY STEVENS

SUBJECT: DECEMBER 1992 AND JANUARY 1993 SAMPLING OF
EL CERRITO CREEK ADJACENT TO PLAZA CAR WASH
Located at 400 San Pablo Avenue, in
Albany, California

Dear Mr. Stevens:

This report summarizes the surface water sampling of El Cerrito Creek conducted in the months of December 1992 and January 1993 for Kamur Industries by Soil Tech Engineering, Inc. (STE). The El Cerrito Creek is located north of Plaza Car Wash at 400 San Pablo Avenue, in Albany, California. The surface water sampling is the on-going monitoring program requested by the California Regional Water Quality Control Board (CRWQCB) and Alameda County Health Care Service Agency (ACHCSA). The El Cerrito Creek sampling is conducted during rainy season within 48 hours following a significant rainfall greater than or equal to 0.25 inches. Currently, the surface water samples are taken from four sampling locations (Figure 1). The four stations are designated as:

C-1 - Approximately 20 feet up-stream from the storm drain outlet

C-2 - The storm drain outlet

C-3 - Confluence of the storm drain flow and El Cerrito Creek

C-4 - 50 feet down-stream from the storm drain

Grab water sample taken at the designated location in December 1992 was analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg) only, and grab water samples taken at the designated locations on January 1993 are analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg), Benzene, Toluene, Ethylbenzene, and Total Xylenes (BTEX), per ACHCSA request. The purpose of the sampling is to assess the presence of dissolved hydrocarbons migrating from the storm drain, and its impact on the El Cerrito Creek. To date, five grab water samples (one in December 1992 and four in January 1993) were collected for the months of December 1992 and January 1993 after the rainstorm.

The grab water samples from each station were collected in 40 ml VOA bottles with no headspace left in the bottle. Each VOA bottle was logged and placed in a cool ice chest and transported to a state-certified laboratory accompanied with a chain-of-custody. On both days of sampling, a very mild petroleum odor was noted at the storm drain outlet. No visible sheen was noted on the water surface on both days of sampling.

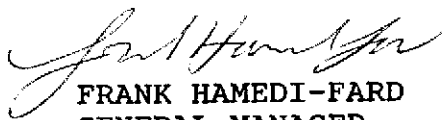
The analytical results for two days (December 14, 1992 and January 23, 1993) are summarized in Table 1. Results of the December 14, 1992, showed a low TPH concentration [0.28 milligrams per liter (mg/L)] at Station C-3. Results of the samples taken on January 23, 1993, showed no TPHg or BTEX at the up-stream from the storm drain outlet (Station C-1). Low levels of TPHg ranging from 0.057 mg/L to a maximum of 0.45 mg/L were detected from storm drain outlet (Station C-2), El Cerrito Creek (Station C-3) and down-stream Station C-4. In addition, a very low to non-detectable levels of BTEX detected at the Station C-2, C-3 and C-4.

Comparing of the recent (January 1993) surface water analyses results with February and March of 1992, shows a substantial decrease in concentration of TPHg at Station C-2. A slight increase of TPHg was detected in Station C-3.

If you have any questions or require additional information, please feel free to contact our office at your convenience.

Sincerely,

SOIL TECH ENGINEERING, INC.


FRANK HAMEDI-FARD
GENERAL MANAGER



LAWRENCE KOO, P. E.
C. E. #34928

TABLE 1
SURFACE WATER ANALYTICAL RESULTS
IN
MILLIGRAMS PER LITER (mg/L)

Date	Station	TPHg	B	T	E	X
1/11/91	C-1	ND	NA	NA	NA	NA
	C-2	14	NA	NA	NA	NA
	C-3	0.37	NA	NA	NA	NA
	C-4	ND	NA	NA	NA	NA
2/06/91	C-1	ND	NA	NA	NA	NA
	C-2	11	NA	NA	NA	NA
	C-3	ND	NA	NA	NA	NA
	C-4	ND	NA	NA	NA	NA
3/06/91	C-1	ND	NA	NA	NA	NA
	C-2	55	NA	NA	NA	NA
	C-3	1.1	NA	NA	NA	NA
	C-4	0.12	NA	NA	NA	NA
3/29/91	C-1	ND	NA	NA	NA	NA
	C-2	31	NA	NA	NA	NA
	C-3	ND	NA	NA	NA	NA
	C-4	0.057	NA	NA	NA	NA

TABLE 1 CONT'D
 SURFACE WATER ANALYTICAL RESULTS
 IN
 MILLIGRAMS PER LITER (mg/L)

Date	Station	TPHg	B	T	E	X
4/23/91	C-1	ND	NA	NA	NA	NA
	C-2	28	NA	NA	NA	NA
	C-3	ND	NA	NA	NA	NA
	C-4	0.086	NA	NA	NA	NA
1/01/92	C-1	ND	NA	NA	NA	NA
	C-2	3.3	NA	NA	NA	NA
	C-3	ND	NA	NA	NA	NA
1/10/92	C-1	ND	NA	NA	NA	NA
	C-2	20	NA	NA	NA	NA
	C-3	0.83	NA	NA	NA	NA
2/21/92	C-1	ND	NA	NA	NA	NA
	C-2	8.9	NA	NA	NA	NA
	C-3	ND	NA	NA	NA	NA

TABLE 1 CONT'D
SURFACE WATER ANALYTICAL RESULTS
IN
MILLIGRAMS PER LITER (mg/L)

Date	Station	TPHg	B	T	E	X
3/09/92	C-1	ND	NA	NA	NA	NA
	C-2	2.1	NA	NA	NA	NA
	C-3	ND	NA	NA	NA	NA
3/20/92	C-1	ND	NA	NA	NA	NA
	C-2	0.65	NA	NA	NA	NA
	C-3	ND	NA	NA	NA	NA
1/23/93	C-1	ND	ND	ND	ND	ND
	C-2	0.45	0.0016	0.0031	0.0042	0.017
	C-3	0.19	0.0008	0.0026	0.0036	0.0095
	C-4	0.057	ND	ND	0.0014	0.0036

TPHg - Total Petroleum Hydrocarbons as gasoline
 BTEX - Benzene, Toluene, Ethylbenzene, Total Xylenes
 ND - Not Detected (Below Laboratory Detection Limit)
 NA - Not Analyzed



Thomas Brothers Map 1993 Edition
San Francisco, Alameda
and Contra Costa Counties

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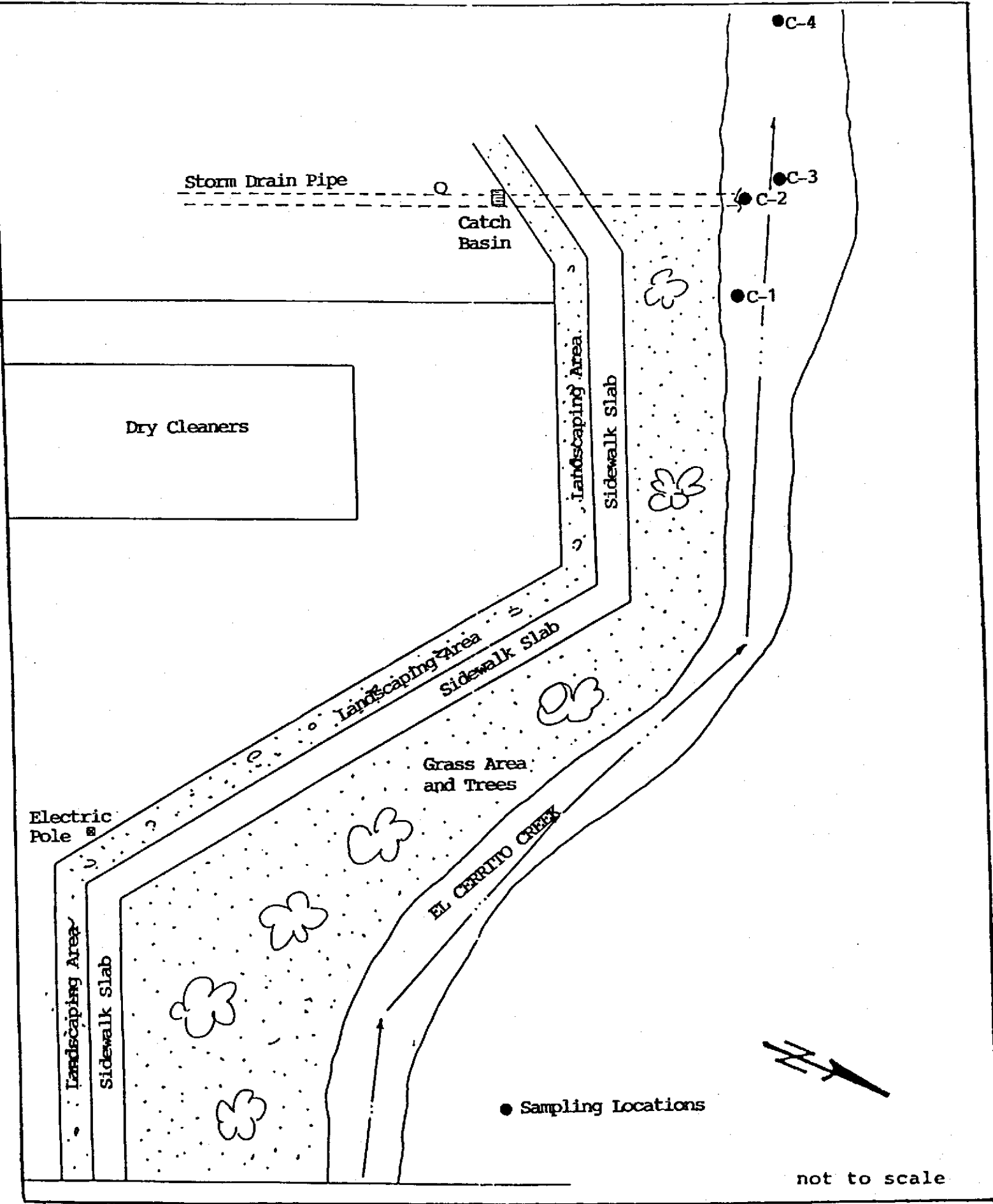
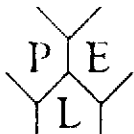


Figure 2



PRIORITY ENVIRONMENTAL LABS

Precision Environmental Analytical Laboratory

December 19, 1992

PEL # 129207

SOIL TECH ENGINEERING

Attn: Noori Ameli
Re: One water sample for Gasoline analysis.

Project name: 400 San Pablo Ave., -Albany
Project number: 8-90-421-SI

Date sampled: Dec 14 1992
Date extracted: Dec 18, 1992

Date submitted: Dec 18, 1992
Date analyzed: Dec 18, 1992

RESULTS:

SAMPLE I.D.	Gasoline (ug/L)
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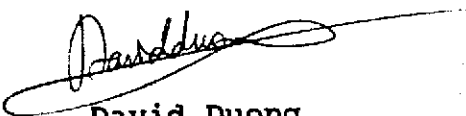
C-3	280
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Blank	N.D.
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Spiked Recovery	89.1%
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Detection limit	50
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Method of Analysis	5030 / 8015
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David Duong
Laboratory Director



PRIORITY ENVIRONMENTAL LABS

Environmental Analytical Laboratory

January 28, 1993

PEL # 9301035

SOIL TECH ENGINEERING

Attn: Noori Ameli
Re: Four water samples for Gasoline/BTEX analysis.

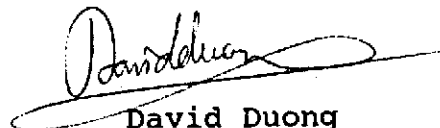
Project name: 400 San Pablo Ave., -Albany
Project number: 8-90-421-SI

Date sampled: Jan 23 1993
Date extracted: Jan 26-27, 1993

Date submitted: Jan 26, 1993
Date analyzed: Jan 26-27, 1993

RESULTS:

SAMPLE I.D.	Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
C-1	N.D.	N.D.	N.D.	N.D.	N.D.
C-2	450	1.6	3.1	4.2	17
C-3	190	0.8	2.6	3.6	9.5
C-4	57	N.D.	N.D.	1.4	3.6
Blank	N.D.	N.D.	N.D.	N.D.	N.D.
Spiked Recovery	92.5%	90.7%	84.4%	92.0%	97.3%
Duplicate Spiked Recovery	87.2%	102.3%	94.5%	98.2%	104.9%
Detection limit	50	0.5	0.5	0.5	0.5
Method of Analysis	5030 / 8015	602	602	602	602



David Duong
Laboratory Director

CHAIN OF CUSTODY RECORD

PROJ. NO. 8-90-421-SE		NAME 400 San Pablo Av. ALBANY				CON-TAINER	ANALYSES REQUESTED TPHG / BTE RX					REMARKS
SAMPLERS: (Signature) <i>[Signature]</i>												
NO.	DATE	TIME	SOIL	WATER	LOCATION	CON-TAINER						
1	1/23/93	10 ⁴⁰		✓	C-1	1	✓					
2	1/23/93	10 ⁵⁵		✓	C-2	1	✓					
3	1/23/93	11 ⁰⁵		✓	C-3	1	✓					
4	1/23/93	11 ²⁵		✓	C-4	1	✓					
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)		
<i>[Signature]</i>		1/24/93 9:13		<i>[Signature]</i>								
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)		
				THANH LAM								
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time		Remarks				
		1/26/93 9:13		PEL								



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