



**KAMUR INDUSTRIES INC.**

2351 Shoreline Dr., Alameda, CA 94501 - (415) 523-7866

July 24, 1990

Mr. M. Hossain Kazemi  
Regional Water Quality Control Board  
San Francisco Region  
1800 Harrison Street  
Oakland, CA 94612

Mr. Gilbert Wistar  
Alameda County  
Health Care Services Agency  
Hazardous Materials Program  
80 Swan Way, Room 200  
Oakland, CA 94612

Subject: Plaza Car Wash  
400 San Pablo Avenue  
Albany, CA

Gentlemen:

Enclosed are the results of the storm event sampling done April 25, 1990 on the monitoring wells, sump and El Cerrito Creek. Also included are the monthly sampling done on May 7th. The Analysis was again done by Precision Analytical Laboratory and the results were tabulated by International Technology Corporation.

The attached graphs and tables add these testing results to the previous historical data.

Based on the removal oof the tanks at South Shore, and the handling of the remediation work, a plan will be submitted for Plaza by August 23, 1990.

Please let me know if there are any questions.

Sincerely,

Murray T. Stevens

MTS:khs

enclosures

cc: Ms. Vicky Dvorak - BAAQMD  
Mr. Craig S. J. Johns - CHR&M  
Ms. S. I. Mills - ITC



INTERNATIONAL  
TECHNOLOGY  
CORPORATION

TABLE 1  
KAMUR INDUSTRIES  
MONTHLY GROUNDWATER SAMPLING  
MONITORING WELLS  
RESULTS IN PARTS PER BILLION (PPB)

MONITORING WELL MW-1

Date Sampled	TPH (Gas)	Benzene	Toluene	Ethyl Benzene	Xylene
08/03/89	16,000	1,800	1,800	1,200	210
12/08/89	BDL	21	12	17	7.7
01/03/90	BDL	6,300	530	410	900
02/02/90	BDL	BDL	BDL	BDL	BDL
03/06/90	BDL	BDL	BDL	BDL	BDL
04/06/90	BDL	2.1	3.5	BDL	BDL
05/07/90	BDL	BDL	0.62	BDL	BDL

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MONITORING WELL MW-2

Date Sampled	TPH (Gas)	Benzene	Toluene	Ethyl Benzene	Xylene
08/03/89	80,000	9,100	12,000	7,100	460
12/08/89	13,000	13,000	8,400	750	2,500
01/03/90	5,500	NA	NA	NA	NA
02/02/90	7,200	3,500	80	240	270
03/06/90	4,100	1,900	160	140	250
04/06/90	39,000	11,000	13,000	1,100	5,700
05/07/90	6,800	5,200	620	290	140

TABLE 2  
 KAMUR INDUSTRIES  
 MONTHLY GROUNDWATER SAMPLING  
 SUMP  
 RESULTS IN PARTS PER BILLION (PPB)

SUMP SP-1

Date Sampled	TPH (Gas)	Benzene	Toluene	Ethyl Benzene	Xylene
12/08/89	55,000	26,000	25,000	2,100	13,000
01/03/90	72,000	22,000	25,000	2,400	13,000
02/02/90	38,000	20,000	17,000	1,400	8,000
02/08/90	76,000	7,900	7,400	1,700	8,300
02/19/90	90,000	1,100	750	2,600	5,600
03/06/90	130,000	24,000	18,000	1,900	14,000
03/13/90	80,000	22,000	18,000	1,900	19,000
04/06/90	260,000	25,000	30,000	6,600	64,000
04/25/90	100,000	31,000	21,000	1,600	13,000
05/07/90	70,000	24,000	18,000	1,100	6,500

NOTE: Results in parts per billion (ppb)

TABLE 3  
 KAMUR INDUSTRIES  
 STORM EVENT SAMPLING (PPT > 0.25 IN) AND MONTHLY SAMPLING  
 EL CERRITO CREEK  
 RESULTS IN PARTS PER BILLION (PPB)

POINT 1

<u>Date Sampled</u>	<u>TPH (Gas)</u>	<u>Benzene</u>	<u>Toluene</u>	<u>Ethyl Benzene</u>	<u>Xylene</u>
08/03/89	BDL	BDL	BDL	BDL	BDL
12/08/89	BDL	NA	NA	NA	NA
01/03/90+	BDL	NA	NA	NA	NA
01/15/90*	BDL	NA	NA	NA	NA
01/17/90*	BDL	NA	NA	NA	NA
02/02/90+	BDL	NA	NA	NA	NA
02/08/90*	BDL	NA	NA	NA	NA
02/19/90*	BDL	NA	NA	NA	NA
03/06/90+	65	NA	NA	NA	NA
03/13/90*	BDL	NA	NA	NA	NA
04/06/90+	BDL	NA	NA	NA	NA
04/25/90*	BDL	NA	NA	NA	NA
05/07/90-	BDL	NA	NA	NA	NA

MONITORING WELL MW-3

Date Sampled	TPH (Gas)	Benzene	Toluene	Ethyl Benzene	Xylene
08/03/89	71,000	20,000	21,000	7,900	580
12/08/89*	NA	NA	NA	NA	NA
01/03/90*	NA	NA	NA	NA	NA
02/02/90*	NA	NA	NA	NA	NA
03/06/90*	NA	NA	NA	NA	NA
04/06/90*	NA	NA	NA	NA	NA
05/07/90*	NA	NA	NA	NA	NA

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MONITORING WELL MW-4

Date Sampled	TPH (Gas)	Benzene	Toluene	Ethyl Benzene	Xylene
08/03/89	14,000	2,000	1,500	1,000	BDL
12/08/89*	NA	NA	NA	NA	NA
01/03/90*	NA	NA	NA	NA	NA
02/02/90*	NA	NA	NA	NA	NA
03/06/90*	NA	NA	NA	NA	NA
04/06/90*	NA	NA	NA	NA	NA
05/07/90*	NA	NA	NA	NA	NA

\* Not sampled due to the presence of free product.

NOTE:

BDL = below detection limit  
 NA = not analyzed

## POINT 2

Date Sampled	TPH (Gas)	Benzene	Toluene	Ethyl Benzene	Xylene
08/03/89	470,000	16,000	29,000	4,200	29,000
12/08/89	33,000	NA	NA	NA	NA
01/03/90+	99,000	NA	NA	NA	NA
01/15/90*	16,000	NA	NA	NA	NA
01/17/90*	15,000	NA	NA	NA	NA
02/02/90+	16,000	NA	NA	NA	NA
02/08/90*	7,000	NA	NA	NA	NA
02/19/90*	26,000	NA	NA	NA	NA
03/06/90+	30,000	NA	NA	NA	NA
03/13/90*	30,000	NA	NA	NA	NA
04/06/90+	42,000	NA	NA	NA	NA
04/25/90*	47,000	NA	NA	NA	NA
05/07/90-	55,000	NA	NA	NA	NA

## POINT 3

Date Sampled	TPH (Gas)	Benzene	Toluene	Ethyl Benzene	Xylene
12/08/89	BDL	NA	NA	NA	NA
01/03/89+	900	NA	NA	NA	NA
01/15/90*	840	NA	NA	NA	NA
01/17/90*	BDL	NA	NA	NA	NA
02/02/90+	60	NA	NA	NA	NA
02/08/90*	100	NA	NA	NA	NA
02/19/90*	30	NA	NA	NA	NA
03/06/90+	600	NA	NA	NA	NA
03/13/90*	360	NA	NA	NA	NA
04/06/90+	3000	NA	NA	NA	NA
04/25/90*	360	NA	NA	NA	NA
05/07/90-	260	NA	NA	NA	NA

## POINT 4

Date Sampled	TPH (Gas)	Benzene	Toluene	Ethyl Benzene	Xylene
08/03/89	2,700	88	8	BDL	210
12/08/89	BDL	NA	NA	NA	NA
12/22/89?	800	NA	NA	NA	NA
01/03/90+	800	NA	NA	NA	NA
01/15/90*	BDL	NA	NA	NA	NA
01/17/90*	160	NA	NA	NA	NA
02/02/90+	130	NA	NA	NA	NA
02/08/90*	140	NA	NA	NA	NA
02/19/90*	200	NA	NA	NA	NA
03/06/90+	120	NA	NA	NA	NA
03/13/90*	100	NA	NA	NA	NA
04/06/90+	400	NA	NA	NA	NA
04/25/90*	350	NA	NA	NA	NA
05/07/90-	400	NA	NA	NA	NA

## NOTE:

BDL = below detection limit

NA = not analyzed

\* = storm event sampling

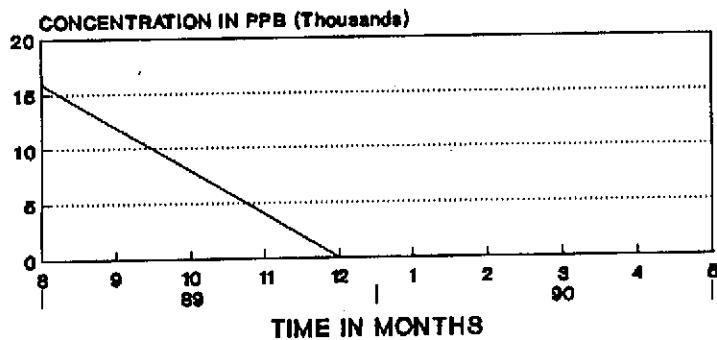
+ = monthly and storm event programs completed

? = one point sampling to test remediation method efficiency

- = monthly sampling



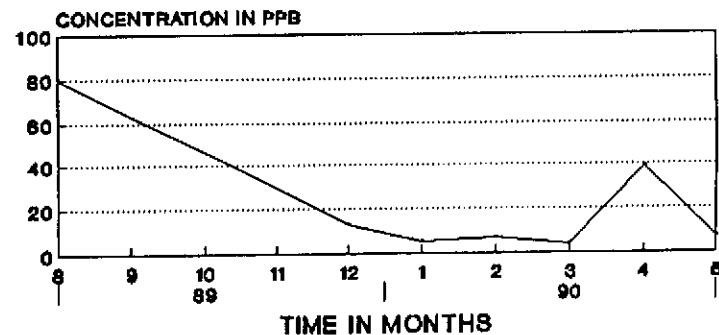
## KAMUR INDUSTRIES MONITORING WELL MW-1



ANALYSIS  
— TPH AS GASOLINE

MONTHLY SAMPLING

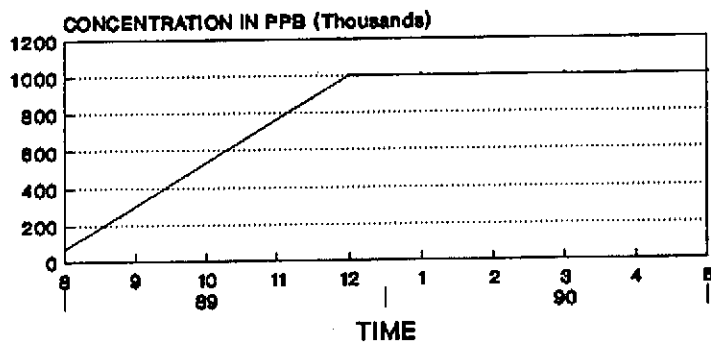
## KAMUR INDUSTRIES MONITORING WELL MW-2



ANALYSIS  
— TPH AS GASOLINE

MONTHLY SAMPLING

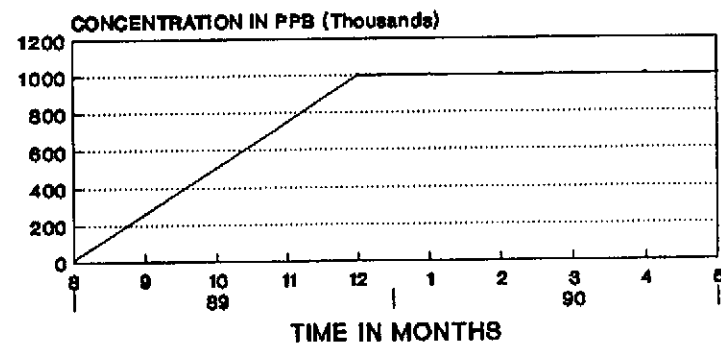
## KAMUR INDUSTRIES MONITORING WELL MW-3



ANALYSIS  
— TPH AS GASOLINE

NOTE: FREE PRODUCT DISCOVERED DEC-APRIL

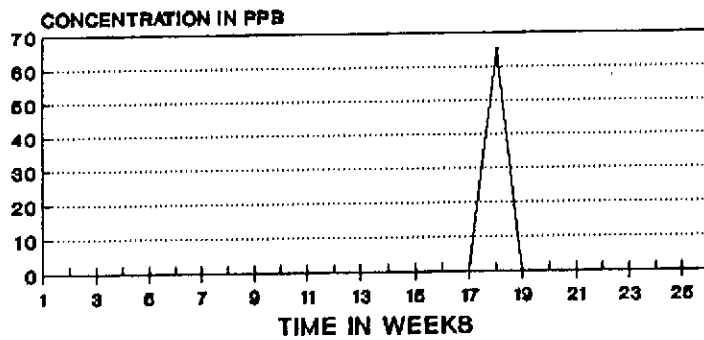
## KAMUR INDUSTRIES MONITORING WELL MW-4



ANALYSIS  
— TPH AS GASOLINE

NOTE: FREE PRODUCT DISCOVERED DEC-APRIL

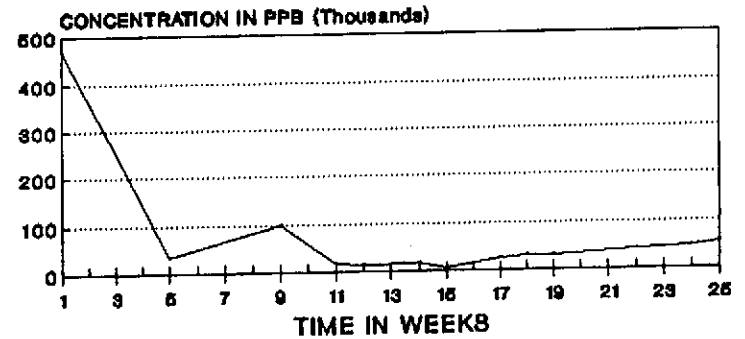
## KAMUR INDUSTRIES EL CERRITO CREEK SAMPLING - PT1



ANALYSIS  
— TPH AS GASOLINE

POINT 1 - 20' UPSTREAM

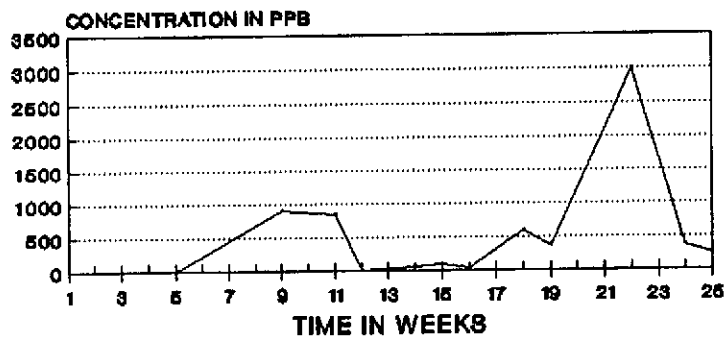
## KAMUR INDUSTRIES EL CERRITO CREEK SAMPLING - PT2



ANALYSIS  
— TPH AS GASOLINE

POINT 2 - MOUTH OF STORM DRAIN

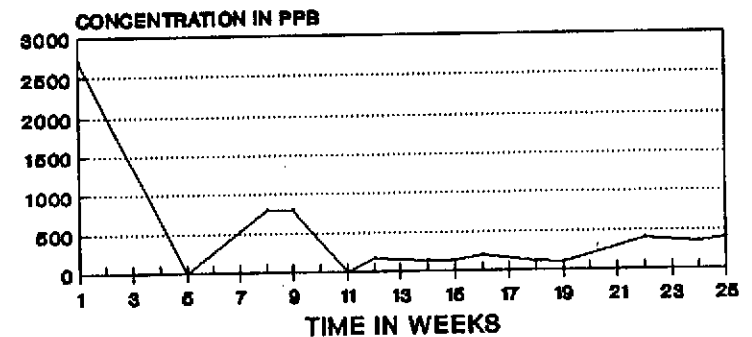
## KAMUR INDUSTRIES EL CERRITO CREEK SAMPLING - PT3



ANALYSIS  
— TPH AS GASOLINE

POINT 3 - DRAINAGE FLOW/CREEK INTERFACE

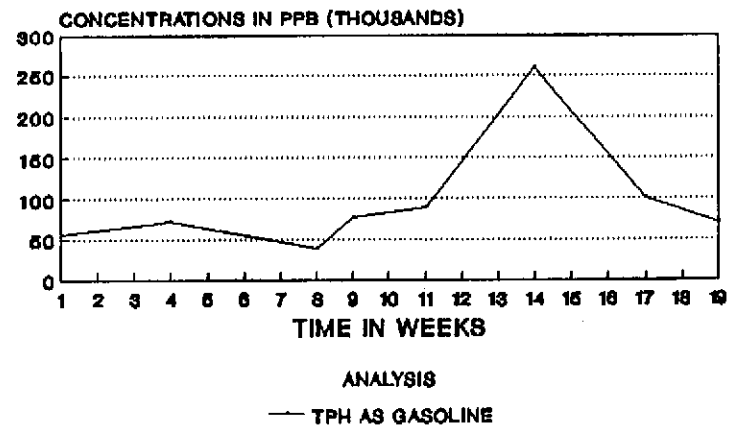
## KAMUR INDUSTRIES EL CERRITO CREEK SAMPLING - PT4



ANALYSIS  
— TPH AS GASOLINE

POINT 4 - 60' DOWNSTREAM

# KAMUR INDUSTRIES SUMP SAMPLING



Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (415) 222-3002

FAX (415) 222-1251

### CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 05/02/90

Reported: 05/09/90

Job #: 71530

Attn: Sydney Mills  
International Technology  
4585 Pacheco Blvd.  
Martinez, CA. 94553

Project: Kamur Albany  
Matrix: Water

Total Petroleum Hydrocarbons Analysis  
DHS Extraction Method (LUFT)  
mg/l

Lab ID	Client ID	Diesel	MDL
71530-6	042590 SP1	ND<0.5	0.5

QA/QC: Spike Recovery for Diesel: 97%

MDL: Method detection Limit: Compound below this level would not be detected.

  
\_\_\_\_\_  
Jaime Chow  
Laboratory Director

JC/dc

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

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Reported: 05/08/90

Job #: 71530

Attn: Sydney Mills  
International Technology  
4585 Pacheco Blvd.  
Martinez, CA. 94553

Project: Kamur Albany  
Matrix: Water

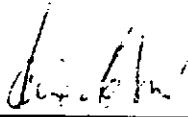
Aromatic Volatile Organic Analysis  
EPA Method 8020  
mg/l

Lab ID	Client ID	Benzene	MDL	Toluene	MDL
71530-5	042590 SP1	31	0.03	21	0.03

Lab ID	Client ID	Ethyl- benzene	MDL	Xylene	MDL
71530-5	042590 SP1	1.6	0.03	13	0.06

QA/QC: Spike Recovery for Benzene: 132%  
Spike Recovery for Toluene: 106%  
Spike Recovery for O-Xylene: 89%

MDL: Method detection Limit: Compound below this level would not be detected.

  
Jaime Chow  
Laboratory Director

JC/dc

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Martinez, CA 94553

OUTSTANDING QUALITY AND SERVICE

100% CUSTOMER SATISFACTION GUARANTEED

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4585 Pacheco Blvd.  
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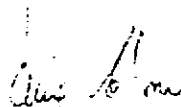
Project: Kamur Albany  
Matrix: Water

Total Petroleum Hydrocarbons Analysis  
EPA Method 5030  
ug/l

Lab ID	Client ID	Gasoline	MDL
71530-1	042590 PT1	ND<50	50
71530-2	042590 PT2	47,000	50
71530-3	042590 PT3	360	50
71530-4	042590 PT4	350	50
71530-5	042590 SP1	100,000	50

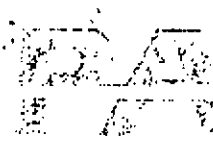
QA/QC: Spike Recovery for Gasoline: 77%

MDL: Method detection Limit: Compound below this level would not be detected.



Jaime Chow  
Laboratory Director

JC/dc



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CERTIFICATE OF ANALYSIS

STATE LICENSE NO. 211

Received: 05/07/90  
Reported: 05/16/90  
Job No. #: 71537

Attn: Sydney Mills  
International Technology  
4585 Pacheco Blvd.  
Martinez, CA. 94553

Project: Kamur Albany  
Matrix: Water

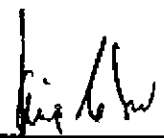
Aromatic Organic Compound Analysis  
EPA Method 8020  
ug/l

Lab ID	Client ID	Benzene	MDL	Toluene	MDL
71537-5	050790MW1	ND<0.3	0.3	0.62	0.3
71537-6	050790MW2	5200	0.3	620	0.3
71537-7	050790MWFB	ND<0.3	0.3	ND<0.3	0.3
71537-8	050790SP1	24,000	0.3	18,000	0.3

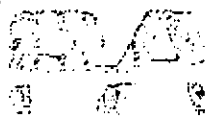
Lab ID	Client ID	Ethyl- benzene	MDL	Toluene	MDL
71537-5	050790MW1	ND<0.3	0.3	ND<0.6	0.6
71537-6	050790MW2	290	0.3	140	0.6
71537-7	050790MWFB	ND<0.3	0.3	ND<0.6	0.6
71537-8	050790SP1	1100	0.3	6500	0.6

QA/QC: Spike Recovery for Benzene: 89%  
Spike Recovery for Toluene: 88%  
Spike Recovery for O-Xylene: 80%

MDL: Method detection limit: Compound below this level would not be detected.

  
\_\_\_\_\_  
Jaime Chow  
Laboratory Director

JC/dc



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 Reported: 05/16/90  
 Job No. #: 71537

Attn: Sydney Mills  
 International Technology  
 4585 Pacheco Blvd.  
 Martinez, CA. 94553

Project: Kamur Albany  
 Matrix: Water

Total Petroleum Hydrocarbon Analysis  
 EPA Method 5030  
 ug/l

Lab ID	Client ID	Caroline	MNI
71537-1	050790PT1	ND<50	50
71537-2	050790PT2	55000	50
71537-3	050790PT3	260	50
71537-4	050790PT4	400	50
71537-5	050790MW1	ND<50	50
71537-6	050790MW2	6800	50
71537-7	050790MWFB	ND<50	50
71537-8	050790SP1	70000	50

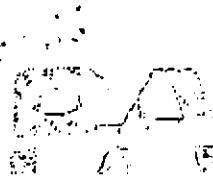
QA/QC: Spike Recovery for Gasoline: 71%

MDL: Method detection limit: Compound below this level would not be detected.

Jaime Chow  
 Laboratory Director

JC/dc





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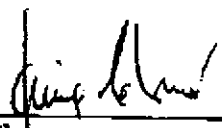
Project: Kamur Albany  
Matrix: Water

#### Total Petroleum Hydrocarbon Analysis DHS Extraction Method (LUFT) mg/l

Lab ID	Client ID	Diesel	MDL
71537-9	050790SP1	ND<0.5	0.5

QA/QC: Spike Recovery for Diesel: 83%

MDL: Method detection limit: Compound below this level would not be detected.

  
\_\_\_\_\_  
Jaime Chpw

JC/dc