

	1829 Clement	Avenue			ATTENTION MR.	LARRY SETO
Α	lameda, California	94501-139	96		SUBJECT:	
(510)	521-3773 FAX	K: (510) 865	5-2594		GI TRUCKING	COMPANY
				<u>.</u>	1750 ADAMS A	VENUE
Alameda	County Health Ca	re Services			SAN LEANDRO), CA
	Environmental Hearbor Bay Parkway	alth				
Alameda	, CA 94502-6577					
□ Iı	are sending you nvoice Copy of letter		☐ Report ☐ Prints ☐ Plans		Work Order Change Order	□ Specifications □
Copies	Date	Number			Description	п
1	9/26/94		THIRD (QUARTER 1994 C	ROUNDWATER	MONITORING AND SAMPLING
					······································	
9 M. Y			<u> </u>			
The	se are transmitted	as checked	d below:			
□ F □ <i>A</i> □ F	For signature For payment As requested For approval FOR BIDS DUE		☐ Approve☐ Returne☐ For revi	ed as submitted ed as noted ed for Corrections iew and comment I For your use	□ s	Resubmitcopies for approval Submitcopies for distribution Returncorrected prints
REMARKS	S:					
THE ENC	LOSED 3RD QUA	ARTER 199	4 GROUNL	OWATER MONIT	ORING AND SAM	MPLING REPORT
IS FOR Y	OUR USE.					
СОРҮ:			SIGNED:	MARK DETT	ERMAN/ds	

LETTER OF TRANSMITTAL

BEI Job No. 88288

DATE: 9/29/94

ATTENTION

MR. EDDY SO, RWQCB

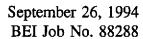
MR. MIKE BAKALDIN, SAN LEANDRO FIRE DEPARTMENT

MR. WADE STROUPE, JR., CAROLINA FREIGHT CARRIERS CORP.

MR. BOB HOGENCAMP, GI TRUCKING COMPANY

MR. TOM McGUIRE, GI TRUCKING COMPANY

If enclosures are not as noted, kindly notify Blymyer Engineers, Inc. at once.





STID 1373

Mr. Larry Seto
Alameda County Health Care Services Agency
Division of Hazardous Materials
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

Subject:

GI Trucking Company

1750 Adams Avenue, San Leandro, CA

Third Quarter 1994 Groundwater Monitoring and Sampling

Dear Mr. Seto:

This letter documents the quarterly groundwater sampling for the third quarter of the sixth year of quarterly groundwater sampling at the subject facility located in San Leandro, California (Figure 1).

Four of the five existing groundwater monitoring wells (MW-2 through MW-5, Figure 2) were sampled on August 23, 1994. Monitoring well MW-1 contained an EZ Skimmer which is used to recover free product in the well, as part of the interim remedial efforts at the site. Consequently, a groundwater sample was not collected from monitoring well MW-1.

Three well casing volumes of water were removed from each of the four wells prior to sampling. A representative groundwater sample was collected from each well using a Teflon® bailer and placed in 1-liter amber bottles without a preservative and 40-milliliter vials containing hydrochloric acid as a preservative which were provided by the laboratory. The Well Purging and Sampling Data forms for all wells are attached. The groundwater samples were placed in a cooler with blue ice and delivered via courier to National Environmental Testing, Inc., a California-certified laboratory.

The groundwater samples were analyzed for Total Petroleum Hydrocarbons (TPH) as diesel by modified EPA Method 8015 and benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8020. As indicated in the enclosed analytical report, TPH as diesel was detected only in the groundwater sample collected from monitoring well MW-3 (Table I). TPH as diesel has never been detected in any groundwater samples from monitoring wells MW-2, MW-4, and MW-5 since the initial sampling on November 15, 1988. Toluene was detected in the groundwater sample collected from monitoring well MW-3 for the first time, at a concentration of 0.6 micrograms per liter (Table II). BTEX was not detected in the groundwater samples

collected from monitoring wells MW-2, MW-4, and MW-5. This is the fifth time groundwater samples have been analyzed for BTEX.

TPH as diesel was first detected in a groundwater sample from well MW-3 collected in February 1990. Except for the December 1990 and December 1992 sampling events, TPH as diesel has been detected in all groundwater samples from this well since February 1990, at concentrations ranging from 0.19 milligrams/liter (mg/L) to 1.6 mg/L. TPH as diesel was detected at 0.45 mg/L in well MW-3 during this sampling event. The groundwater flow direction has consistently been toward the south to southeast at this site (Figure 2). Depth to groundwater measurements are included in Table III.

Monitoring well MW-1 has consistently contained a free product layer. An EZ Skimmer was installed on October 27, 1993. The skimmer is on a monthly operation and maintenance schedule, overseen by on-site personnel. Table IV contains a summary of the amount of free product recovered to date.

The well head box on monitoring well MW-3 was raised and the PVC casing for the well was lowered after indications of traffic compression in the expansion plug were detected in early 1994. The well was resurveyed to the existing arbitrary datum on May 11, 1994.

In response to a letter from the Alameda County Health Care Services Agency, entitled RE: G.I. Trucking, 12750 Adams Avenue, San Leandro, dated August 5, 1994, Carolina Freight Carriers Corporation has requested Blymyer Engineers to proceed with groundwater sampling for TPH as diesel, TPH as gasoline, BTEX, halogenated volatile organic compounds, semivolatile organic compounds, and the metals cadmium, chromium, lead, nickel and zinc with the next quarterly sampling event, currently scheduled for November 1994.

If you have any questions, please call us at (510) 521-3773.

Cordially,

Blymyer Engineers, Inc.



Mark E. Detterman, C.E.G. 1788 Senior Geologist

John Morrison, R.G. 5773
Director, Earth Sciences

Attachments: Table I:

Summary of Groundwater Sample Analytical Results; Total

Petroleum Hydrocarbons as Diesel

Table II:

Summary of Groundwater Sample Analytical Results; Benzene,

Toluene, Ethylbenzene, and Total Xylenes

Table III:

Groundwater Elevation Measurements

Table IV:

Free Product Recovery From Monitoring Well MW-1

Figure 1:

Site Location Map

Figure 2:

Site Plan and Groundwater Contour Map, 8/23/94

Well Purging and Sampling Data Forms, dated August 23, 1994 Laboratory Analytical Report, National Environmental Testing, Inc., dated September 6, 1994

cc:

Mr. Eddy So, RWOCB

Mr. Mike Bakaldin, San Leandro Fire Department

Mr. Wade Stroupe, Jr., Carolina Freight Carriers Corporation

Mr. Bob Hogencamp, GI Trucking Company

Mr. Tom McGuire, GI Trucking Company

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Table I, Summary of Groundwater Sample Analytical Results Total Petroleum Hydrocarbons as Diesel, Modified EPA Method 8015 (milligrams per liter) BEI Job No. 88288.

GI Trucking Company

1750 Adams Avenue, San Leandro, California

Date of Sampling	MW-1	MW-2	MW-3	MW-4	MW-5
November 15, 1988	0.22 feet product	<0.20	<0.20	<0.20	<0.20
February 16, 1989	0.20 feet product	<0.09	<0.09	<0.09	<0.09
May 19, 1989	0.20 feet free product	<0.08	<0.08	<0.08	<0.08
August 22, 1989					<0.03
	0.18 feet free product	<0.03	<0.03	<0.03	
November 21, 1989	product sheen	<0.03	<0.03	<0.03	<0.03
February 23, 1990	product sheen	<0.05	0.34	<0.05	<0.05
May 23, 1990	0.15 feet free product	<0.05	0.64	<0.05	<0.05
August 27, 1990	product sheen	<0.05	0.41	<0.05	<0.05
December 3, 1990	product sheen	<0.05	<0.05	<0.05	<0.05
March 13, 1991	product sheen	<0.05	1.3	<0.05	<0.05
May 29, 1991	product sheen	<0.05	0.54	<0.05	<0.05
August 28, 1991	0.09 feet free product	<0.05	0.24	<0.05	<0.05
December 9, 1991	0.20 feet free product	<0.05	0.20	<0.05	<0.05
February 18, 1992	0.09 feet free product	<0.05	0.89	<0.05	<0.05
May 15, 1992	0.17 feet free product	<0.05	0.38	<0.05	<0.05
August 13, 1992	0.19 feet free product	<0.05	0.20	<0.05	<0.05
December 3, 1992	0.10 feet free product	<0.05	<0.05	<0.05	<0.05
March 25, 1993	product sheen	<0.05	1.6	<0.05	<0.05
May 21, 1993	0.09 feet free product	<0.05	0.72	<0.05	<0.05
August 17, 1993	0.13 feet free product	<0.05	0.48	<0.05	<0.05
December 13, 1993	free product	<0.05	0.19	<0.05	<0.05
February 24, 1994	free product	<0.05	0.38	<0.05	<0.05
May 11, 1994	heavy sheen	<0.05	0.58	<0.05	<0.05
August 23, 1994	.08 feet free product	<0.05	0.45*	<0.05	<0.05

< x = Detected at less than the indicated detection limit of x.

^{* =} Laboratory reports that the positive result appears to be a heavier hydrocarbon than diesel.

Table II, Summary of Groundwater Sample Analytical Results Benzene, Toluene, Ethylbenzene, and Total Xylenes Modified EPA Method 8020 (micrograms per liter) BEI Job No. 88288,

GI Trucking Company 1750 Adams Avenue, San Leandro, California

Date of Sampling	MW-1	MW-2	MW-3	MW-4	MW-5	
November 15, 1988 through May 21, 1993	Not Analyzed					
August 17, 1993	0.13 feet free product	<0.5	<0.5	<0.5	<0.5	
December 13, 1993	free product recovery	<0.5	<0.5	<0.5	<0.5	
February 24, 1994	free product recovery	<0.5	<0.5	<0.5	<0.5	
May 11, 1994	free product recovery	<0.5	<0.5	<0.5	<0.5	
August 23, 1994	0.08 feet free product	<0.5	0.6 T	<0.5	<0.5	

< = Detected at less than the indicated detection limit of x.

T = Toluene

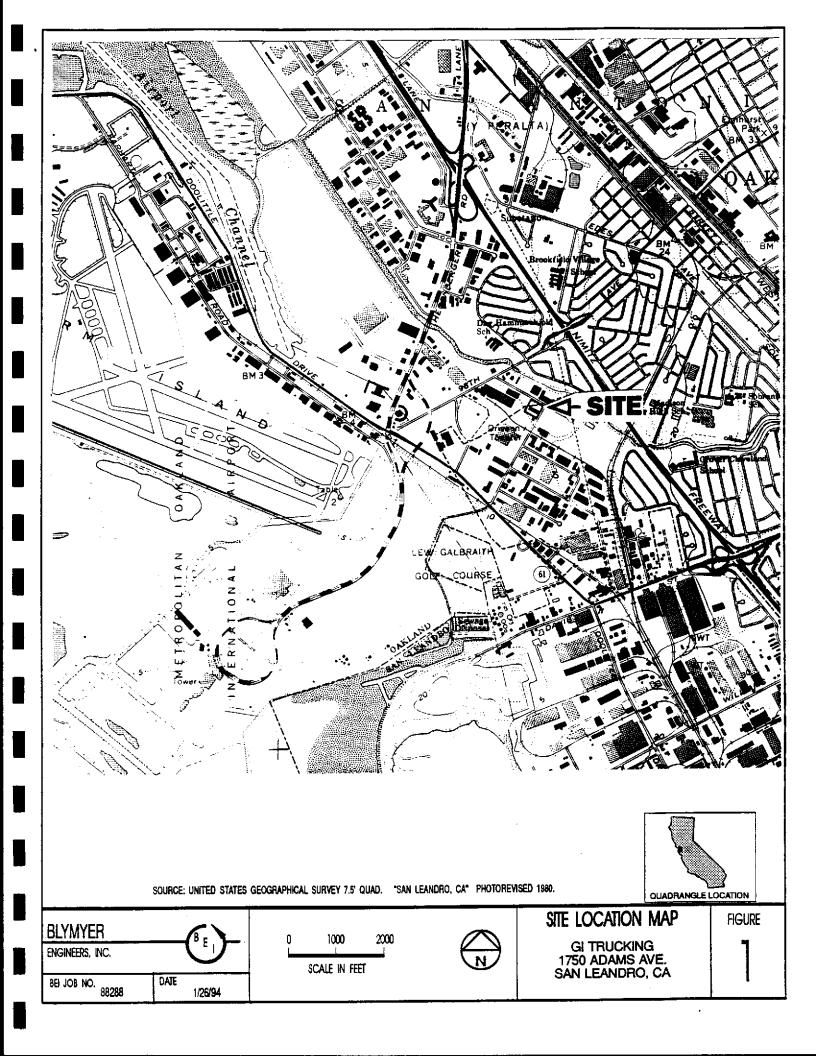
Table III, Groundwater Elevation Measurements BEI Job No. 88288, GI Trucking Company 1750 Adams Avenue, San Leandro, California

Date Measured	MW TOC Elevati	_	14	W-2 tion 100.24*	TOC Eleva	W-3 tion 100.22* ion 100.18**	MW TOC Elevai			W-5 ution 99.60*
	Depth to Water/ Free Product	Water Surface Elevation	Depth to Water	Water Surface Elevation	Depth to Water	Water Surface Elevation	Depth to Water	Water Surface Elevation	Depth to Water	Water Surface Elevation
November 15, 1988					No Measure	ments Recorded				
February 16, 1989	6.03/5.83	NA	6.13	94.11	6.00	94.22	5.92	93.56	5.42	94.18
May 19, 1989	6.31/6.11	NA	6.24	94.00	6.20	94.02	5.25	94.23	5.53	94.07
August 22, 1989	6.72/6.54	NA	6.68	93.56	6.60	93.62	6.76	92.72	5.94	93.66
November 21, 1989	6.51	93.49	6.64	93.60	6.55	93.67	5.72	93.76	5.91	93.69
February 23, 1990	5.74	94.26	6.04	94.20	5.83	94.39	4.92	94.56	5.69	93.91
May 23, 1990	6.34/6.19	NA	6.40	93.84	6.38	93.84	5.39	94.09	5.92	93.68
August 27, 1990	6.27	93.73	6.70	93.54	6.67	93.55	5.66	93.82	6.17	93.43
December 3, 1990	6.49	93.51	6.83	93.41	6.75	93.47	5.95	93.53	6.05	93.55
March 13, 1991	4.94	95.06	5.64	94.60	5.42	94.80	4.39	95.09	5.01	94.59
May 29, 1991	9.46	90.54	6.31	93.93	6.28	93.94	5.27	94.21	5.57	94.03
August 28, 1991	6.31/6.22	NA	6.68	93.56	6.62	93.60	5.70	93.78	5.90	93.7
December 9, 1991	6.49/6.29	NA	6.69	93.55	6.65	93.57	5.78	93.78	5.99	93.61
February 18, 1992	4.19/4.09	NA	4.96	95.28	4.73	95.49	3.60	95.88	4.45	95.15
May 15, 1992	5.72/5.55	NA	6.07	94.17	5.99	94.23	5.03	94.45	5.33	94.27
August 13, 1992	6.12/5.93	NA	6.42	93.82	6.32	93.90	5.40	94.08	5.62	93.98
December 3, 1992	5.65/5.55	NA	6.25	93.99	6.23	93.99	5.14	94.34	5.58	94.02
March 25, 1993	4.60	95.40	5.40	94.84	5.27	94.95	4.14	95.34	4.34	95.26
May 21, 1993	5.56/5.47	NA	6.04	94.20	5.97	94.25	4.95	94.53	5.28	94.32
August 17, 1993	6.07/5.94	NA	6.42	93.82	6.59	93.63	5.40	94.08	5.61	93.99
December 13, 1993		NA	6.09	94.15	6.33	93.89	5.08	94.40	5.38	94.22
February 24, 1994		NA	5.57	94.67	5.76	94.46	4.38	95.10	4.90	94.70
May 11, 1994	5.20	94.80	5.94	94.30	5.84	94.34	4.85	94.63	5.23	94.37
August 23, 1994	5.98	94.02	6.44	93.80	6.38	93.80	5.47	94.01	5.70	93.90

TOC = Top of Casing Elevation; * = Based on an Arbitrary Datum; NA = Not Applicable; -- = Not Available Due to Free Product Recovery ** = Resurveyed elevation, May 11, 1994

Table IV, Free Product Recovery From Monitoring Well MW-1 BEI Job No. 88288, GI Trucking Company 1750 Adams Avenue, San Leandro, California

Date	Volume Recovery
November 1993	0.125 Gallons
December 1993	0.25 Gallons
January 1994	0.05 Gallons
February 1994	<0.05 Gallons
March 1994	<0.05 Gallons
April 1994	<0.05 Gallons
May 1994	<0.05 Gallons
June 1994	<0.025 Gallons
July 1994	<0.025 Gallons
August 1994	0.10 Gallons



APPARENT GROUNDWATER FLOW DIRECTION AUGUST 23, 1994 MW-4(94.011) 12,000_GAL. 12,000 GAL. DIESEL ŪSŦ DIESEL UST 12,000 GAL. 12,000 GAL DIESEL UST DIESEL UST MW-3(93.80) FORMER -(NA) LOCATION OF **₩W-**5 PUMP ISLAND WASTE OIL UST (93.90) MW-2-⊕ **EXCAVATION** (93.80)MAINTENANCE BUILDING 20 SCALE IN FEET LEGEND **FIGURE** UST UNDERGROUND STORAGE TANK

GROUNDWATER MONITORING WELL

(94.02') GROUNDWATER ELEVATION IN FEET

(ARBITRARY DATUM)

CONTOUR LINE OF EQUAL ELEVATION

NOT AVAILABLE SITE PLAN AND <u>BLYMYER</u> GROUNDWATER CONTOUR ENGINEERS, INC. MAP 8/23/94 BEI JOB NO. DATE GI TRUCKING 88288 9/21/94 SAN LEANDRO, CA

Date	8/23/94	Project Number	88288	Project Name	G.I. Trucking
Well Number	MW-1	Boring Diameter	N/A	Casing Diameter	12"

Column of Liquid in Well	Volume to be Removed				
Depth to product 5.90 ft.	Gallons per foot of casing	= N/A			
Depth to water 5.98 ft.	Column of water	x N/A			
Total depth of well N/A	Volume of casing	= N/A			
Column of water N/A	No. of volumes to remove	× N/A			
	Total volume to remove	= N/A			

Method of measuring liquid Oil/water interface probe

Method of purging well N/A

Method of decontamination Methanol, liqui-nox and distilled water

		Physical appearance of water (clarity, color, particulates, odor)	
Initial	N/A		
During	N/A		
Final	N/A		

Field Analysis	Field Analysis Initial		During		
Time	N/A	N/A	N/A	N/A	
Temperature (F)					
Conductivity (us/cm)					
р Н					
Method of measurement	N/A				
Total volume purged	N/A				

Sample Number	. Amount of Sample
N/A	N/A

Signed/Sampler Stand W Wou	Date 8/23/94
Signed/Reviewer Make	Date 4/14/94

Date	8/23/94	Project Number	88288	Project Name	G.I. Trucking
Well Number	MW-2	Boring Diameter	N/A	Casing Diameter	2"

Column of Liquid in Well	Volume to be R	emoved
Depth to product N/A	Gallons per foot of casing	= 0.17 gal/ft.
Depth to water 6.44 ft.	Column of water	x 16.81 ft.
Total depth of well 23.25 ft.	Volume of casing	= 2.9 gal.
Column of water 16.81 ft.	No. of volumes to remove	x 3
	Total volume to remove	= 8.7 gai.

Method of measuring liquid Oil/water interface probe

Method of purging well Teflon bailer

Method of decontamination Liqui-nox and distilled water

	Physical appearance of water (clarity, color, particulates, odor)
Initial	Clear, no odor
During	Slightly silty, tan color, no odor
Final	Silty, tan color, no odor

Field Analysis	Initial	Du	ring	Final
Time	11:01	11:08	11:15	11:23
Temperature (F)	68.8	68.2	67.7	68.2
Conductivity (us/cm)	774	770	768	777
рН	7.40	7.34	7.31	7.42
Method of measurement	Hydac meter			
Total volume purged	9.0 gal.			
Comments				

Sample Number	Amount of Sample
MW-2	3-40ml VOA w/ HCI
	2-11 amber bottles

Signed/Sampler Stephy () Wou	Date 8/23/94
Signed/Reviewer Make Sont	Date 9/14/94
	-

Date	8/23/94	Project Number	88288	Project Name	G.I. Trucking
Well Number	MW-3	Boring Diameter	N/A	Casing Diameter	2"

Column of Liquid in Well	Volume to be R	emoved
Depth to product N/A	Gallons per foot of casing	= 0.17 gal/ft.
Depth to water 6.38 ft.	Column of water	× 16.37 ft.
Total depth of well 22.75 ft.	Volume of casing	= 2.8 gal.
Column of water 16.37 ft.	No. of volumes to remove	x 3
	Total volume to remove	= 8.4 gal.

Method of measuring liquid Oil/water interface probe

Method of purging well Teflon bailer

Method of decontamination Liqui-nox and distilled water

Physical appearance of water (clarity, color, particulates, odor)

Initial Clear, no odor

During Silty, tan color, no odor

Final Silty, tan color, no odor

Field Analysis	Initial	Du	Final	
Time	12:05	12:10	12:17	12:23
Temperature (F)	71.8	69.5	69.7	68.9
Conductivity (us/cm)	766	755	820	855
рН	7.10	6.99	6.94	7.00
Method of measurement	lydac meter	,		
Total volume purged 8	3.4 gal.			
Comments				

Sample Number	Amount of Sample
MW-3	3-40ml VOA w/ HCI
	2-11 amber bottles

Signed/Sampler Stews W When	Date	8/23/94	
Signed/Reviewer Mark &) 3 ct	Date	7/14/94	

Date	8/23/94	Project Number	88288	Project Name	G.I. Trucking
Well Number	MW-4	Boring Diameter	N/A	Casing Diameter	2*

Column of Liquid in Well	Volume to be R	emoved
Depth to product N/A	Gallons per foot of casing	= 0.17 gal/ft.
Depth to water 5.47 ft.	Column of water	× 17.32 ft.
Total depth of well 22.79 ft.	Volume of casing	= 2.9 gal.
Column of water 17.32 ft.	No, of volumes to remove	× 3
	Total volume to remove	= 8.7 gal.

Method of measuring liquid Oil/water interface probe

Method of purging well Teflon bailer

Method of decontamination Liqui-nox and distilled water

Physical appearance of water (clarity, color, particulates, odor)

Initial Clear, no odor

During Silty, tan color, no odor

Final Silty, tan color, no odor

Field Analysis	Initial	Du	Final	
Time	08:36	08:43	08:49	08:56
Temperature (F)	72.8	69.5	69.7	70.9
Conductivity (us/cm)	833	800	805	822
рН	7.10	6.96	6.90	6.92
Method of measurement	Hydac meter			
Total volume purged	9.0 gal.			
Comments				

Sample Number	Amount of Sample
MW-4	3-40ml VOA w/ HCl
	2-11 amber bottles

Signed/Sampler Steph W When	Date 8/23/94
Signed/Reviewer Market Valle	Date 9/14/94

Date	8/23/94	Project Number	88288	Project Name	G.I. Trucking
Well Number	MW-5	Boring Diameter	N/A	Casing Diameter	2"

Column of Liquid in Well	Volume to be R	emoved
Depth to product N/A	Gallons per foot of casing	= 0.17 gal/ft.
Depth to water 5.70 ft.	Column of water	× 16.55 ft.
Total depth of well 22.25 ft.	Volume of casing	= 2.8 gal.
Column of water 16.55 ft.	No, of volumes to remove	x 3
	Total volume to remove	= 8.4 gal.

Method of measuring liquid Oil/water interface probe

Method of purging well Teflon bailer

Method of decontamination Liqui-nox and distilled water

Physical appearance of water (clarity, color, particulates, odor)

Initial Clear, no odor

During Silty, tan color, no odor

Final Silty, tan color, no odor

10:01
68.9
884
7.27
1.21
_

Amount of Sample
3-40mt VOA w/ HCI
2-1I amber bottles

		· · · · · · · · · · · · · · · · · · ·	
Signed/Sampler	tentil Mone	Date \(\theta/23\) 94	
Signed/Reviewer	lack E lotter	Date 7/14/74	



Santa Rosa Division 435 Tesconi Circle Santa Rosa, CA 95401

Tel: (707) 526-7200 Fax: (707) 526-9623

Mark Detterman Carolina Freight Carriers c/o Blymyer Engineers, Inc 1829 Clement Ave. Alameda, CA 94501 pate: 05/06/1994

NET Client Acct. No: 61900 NET Pacific Job No: 94.03764

Received: 08/24/1994

Client Reference Information

GI Trucking/San Leandro, CA, Job: 88288

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

Nore Pearmain

Project Coordinator

Jim Hoch

Operations Manager

Enclosure(s)





Client Acct: 61900 NET Job No: 94.03764 Date: 09/06/1994

ELAP Cert: 1386 Page: 2

Ref: GI Trucking/San Leandro, CA, Job: 88288

SAMPLE DESCRIPTION: MW-4

Date Taken: 08/23/1994
Time Taken: 09:15
NET Sample No: 212720

			Reportin	9		Date	Date
Parameter	Results	Flags	Limit	Units	Method	Extracted	Analyzed
METHOD 8020 (GC, Liquid)							
DILUTION FACTOR*	1						08/31/1994
Benzene	ND		0.5	ug/L	8020		08/31/1994
Toluene	ND		0.5	ug/L	8020		08/31/1994
Ethylbenzene	ND		0.5	ug/L	8020		OB/31/1994
Xylenes (Total)	ND		0.5	ug/L	8020		08/31/1994
SURROGATE RESULTS							08/31/1994
Bromofluorobenzene (SURR)	97			% Rec.	8020		08/31/1994
METHOD M8015 (EXT., Liquid)						08/25/1994	
DILUTION FACTOR*	1						08/27/1994
as Diesel	ND		0.05	mg/L	3510		08/27/1994



Client Acct: 61900 NET Job No: 94.03764 Date: 09/06/1994

ELAP Cert: 1386 Page: 3

Ref: GI Trucking/San Leandro, CA, Job: 88288

SAMPLE DESCRIPTION: MW-5

Date Taken: 08/23/1994 Time Taken: 10:20

NET Sample No: 212721

			Reportin	ı g		Date	Date
Parameter	Results	Flags	Limit	Units	Method	Extracted	Analyzed
METHOD 8020 (GC, Liquid)							
DILUTION FACTOR*	1						08/31/1994
Benzene	ND		0.5	ug/L	B020		08/31/1994
Toluene	ND		0.5	ug/L	8020		08/31/1994
Ethylbenzene	ND		0.5	ug/L	8020		08/31/1994
Xylenes (Total)	ND		0.5	ug/L	8020		08/31/1994
SURROGATE RESULTS							08/31/1994
Bromofluorobenzene (SURR)	92			% Rec.	B020		08/31/1994
METHOD M8015 (EXT., Liquid)						08/25/1994	
· DILUTION FACTOR*	1						08/27/1994
as Diesel	ND		0.05	mg/L	3510		08/27/1994



Client Acct: 61900 NET Job No: 94.03764 ELAP Cert: 1386

Date: 09/06/1994

Page: 4

Ref: GI Trucking/San Leandro, CA, Job: 88288

SAMPLE DESCRIPTION: MW-2

Date Taken: 08/23/1994 Time Taken: 11:45 NET Sample No: 212722

-		Reportin	ng		Date	Date
Parameter	Results Fla	qs Limit	Units	Method	Extracted	Analyzed
METHOD 8020 (GC, Liquid)						
DILUTION FACTOR*	1					08/31/1994
Benzene	ND	0.5	ug/L	8020		08/31/1994
Toluene	ND	0.5	ug/L	8020		08/31/1994
Ethylbenzene	ND	0.5	ug/L	8020		08/31/1994
Xylenes (Total)	ND	0.5	ug/L	8020		08/31/1994
SURROGATE RESULTS						08/31/1994
Bromofluorobenzene (SURR)	96		% Rec.	8020		08/31/1994
METHOD M8015 (EXT., Liquid)					08/25/1994	
DILUTION FACTOR*	1					08/27/1994
as Diesel	ND	0.05	mg/L	3510		08/27/1994



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SAMPLE DESCRIPTION: MW-3

Date Taken: 08/23/1994 Time Taken: 12:55 NET Sample No: 212723

			Reportin	1g		Date	Date
Parameter	Results	Flags	Limit	Units	Method	Extracted	Analyzed
TETHOD 8020 (GC, Liquid)							
DILUTION FACTOR*	1					•	OB/31/1994
Benzene	ND		0.5	ug/L	8020		08/31/1994
Toluene	0.6	Ç	0.5	ug/L	8020		08/31/1994
Ethylbenzene	ND		0.5	ug/L	8020		08/31/1994
Xylenes (Total)	ND		0.5	ug/L	8020		08/31/1994
URROGATE RESULTS	- -						08/31/1994
Bromofluorobenzene (SURR)	94			% Rec.	8020		08/31/1994
METHOD M8015 (EXT., Liquid)						08/25/1994	
DILUTION FACTOR*	1						08/27/1994
as Diesel	0.45	DH	0.05	mg/L	3510		08/27/1994

 $^{{\}tt C}\,:\,{\tt Positive}$ result confirmed by secondary column or GC/MS analysis.

DH : The positive result appears to be a heavier hydrocarbon than Diesel.



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CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

	ccv	CCV Standard	CCV Standard				
	Standard	Amount	Amount		Date	Analyst	
<u>Parameter</u>	% Recovery	Found	Expected	Units	Analyzed	Initial <i>s</i>	
METHOD 8020 (GC, Liquid)					•		
Benzene	87.8	4.39	5.00	ug/L	08/31/1994	lss	
Toluene	94.4	4.72	5.00	ug/L	08/31/1994	lss	
Ethylbenzene	93.2	4.66	5.00	ug/L	08/31/1994	ls s	
Xylenes (Total)	92.0	13.8	15.0	ug/L	08/31/1994	lss	
Bromofluorobenzene (SURR)	99.0	99	100	% Rec.	08/31/1994	ls s	
METHOD M8015 (EXT., Liquid)							
as Diesel	102.9	1029	1000	mar/L	08/27/1994	tdn	



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METHOD BLANK REPORT

Method Blank

	Amount	Reporting		Date	Analyst	
Parameter	Found	Limit	Units	Analyzed	<u>Initials</u>	
METHOD 8020 (GC, Liquid)						
Benzene	ND	0.5	ug/L	08/31/1994	aal	
Toluene	ND	0.5	ug/L	08/31/1994	aal	
Ethylbenzene	ND	0.5	ug/L	08/31/1994	aal	
Xylenes (Total)	ND	0.5	ug/L	08/31/1994	aal	
Bromofluorobenzene (SURR)	98		% Rec.	08/31/1994	aal	
METHOD M8015 (EXT., Liquid)						
as Diesel	ND	0.05	mg/L	08/27/1994	tdn	



Client Acct: 61900

NET Job No: 94.03764

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MATRIX SPIKE / MATRIX SPIKE DUPLICATE

P	Matrix Spike	Dup	5.77	Spike	Sample	Matrix Spike	Matrix Spike Dup.	Units	Date	Analyst
Parameter METHOD 8020 (GC, Liquid)	% Rec.	% Rec.	RPD	Amount	Conc.	Conc.	Conc.	Units	Analyzed	Initials
Benzene Toluene	109.3 108.5	103.5 102.8	5.5 5.4	36.7 106	ND ND	40.1 115	38.0 109	ug/L ug/L	08/31/1994 08/31/1994	



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Date: 09/06/1994

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LABORATORY CONTROL SAMPLE REPORT

			LCS	LCS			
	LCS		Amount	Amount		Date	Analyst
Parameter	% Recovery	RPD	Found	Expected	Units	Analyzed	<u>Initials</u>
METHOD M8015 (EXT., Liquid)							
as Diesel	84.8		0.848	1.00	mg/L	08/27/1994	tdn
METHOD M8015 (EXT., Liquid)							
as Diesel	83.8	1.2	0.838	1.00	mg/L	08/27/1994	tdn



KEY TO ABBREVIATIONS and METHOD REFERENCES

 : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.

: Reporting Limits are a function of the dilution factor for any given sample. Actual reporting limits and results have been multiplied by the listed dilution factor. Do not multiply the reporting limits or reported values by the dilution factor.

dw : Result expressed as dry weight.

mean : Average; sum of measurements divided by number of measurements.

mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of

sample, wet-weight basis (parts per million).

mg/L : Concentration in units of milligrams of analyte per liter of sample.

mL/L/hr : Milliliters per liter per hour.

MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.

N/A : Not applicable.

NA : Not analyzed.

ND : Not detected; the analyte concentration is less than the applicable

listed reporting limit.

NTU : Nephelometric turbidity units.

RPD : Relative percent difference, 100 [Value 1 - Value 2]/mean value.

SNA : Standard not available.

ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample,

wet-weight basis (parts per billion).

ug/L : Concentration in units of micrograms of analyte per liter of sample.

umhos/cm : Micromhos per centimeter.

Method References

<u>Methods</u> 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, Rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, Rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid
Waste", U.S. EPA SW-846, 3rd edition, 1986., Rev. 1, December 1987.

 \underline{SM} : see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

Revised September, 1993 abb.93

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SAMPLERS (SIGNATURE) PROJECT NAME/LOCATION SAMPLERS (SIGNATURE) STOPPH W More		₩.	NE + BTXE 5/8020)	(MOD EPA	/8240)	625/8270	(1)	0/602)					REMARKS:			
DATE	TIME	COMP	GRAB	SAMPLE NAME/LOCATION	# OF CONTAINERS	TPH AS GASOLINE + BTXE (MOD EPA 8015/8020)	TPH AS DIESEL (MOD EPA 8015)	VOC (EPA 624/8240)	SEMI-YOC (EPA 625/8270)	TRPH (EPA 418.1)	BTXE (EPA 8020/602)				HOLD	
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