



~~Mr. Larry Seto~~ *Scott*
Alameda County Health Care Services Agency
Division of Hazardous Materials
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

ALCO
HAZMAT
94 FEB -4 AM 11:53

Subject: GI Trucking Company
1750 Adams Avenue, San Leandro, CA
Forth Quarter 1993 Groundwater Monitoring and Sampling

Dear Mr. Seto:

This letter documents the quarterly groundwater sampling for the fourth quarter of the fifth 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 December 13, 1993. 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-milliter 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 NET Pacific, Inc., a California-certified laboratory.

The groundwater samples were analyzed for Total Petroleum Hydrocarbons (TPH) as diesel using 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). BTEX was not detected in any of the groundwater samples (Table II). TPH as diesel has not been detected in any groundwater samples from monitoring wells MW-2, MW-4, and MW-5. This is the second time groundwater samples have been analyzed for BTEX.

Mr. Larry Seto
Alameda County Health Care Services Agency

February 2, 1994
BEI Job No. 88288

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 0.19 mg/L in well MW-3 during this sampling event. Groundwater flow direction is toward the south to southeast at this site. 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.

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

Cordially,

Blymyer Engineers, Inc.

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

By: 
Sue Black
V.P. - Environmental Services

Mr. Larry Seto
Alameda County Health Care Services Agency

February 1, 1994
BEI Job No. 88288

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

Well Purging and Sampling Data Forms
Laboratory Analytical Report, December 28, 1993

cc: Mr. Eddy So, RWQCB
Mr. Mike Bakaldin, San Leandro Fire Department
Mr. Curtis Carr, Carolina Freight Carriers Corporation
Mr. Bob Hogencamp, GI Trucking Company
Mr. Tom McGuire, GI Trucking Company

**Table I, Summary of Groundwater Sample Analytical Results
 Total Petroleum Hydrocarbons as Diesel,
 Modified EPA Method 8015 (milligrams per liter)
 Blymyer Engineers 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	0.18 feet free product	<0.03	<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

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

Table II, Summary of Groundwater Sample Analytical Results
Benzene, Toluene, Ethylbenzene, and Total Xylenes
Modified EPA Method 8020 (micrograms per liter)
Blymyer Engineers 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	ND	ND	ND	ND
December 13, 1993	free product recovery	ND	ND	ND	ND

ND = none detected above the reporting limits

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

Date Measured	MW-1 TOC Elevation 100.00*		MW-2 TOC Elevation 100.24*		MW-3 TOC Elevation 100.22*		MW-4 TOC Elevation 99.48*		MW-5 TOC Elevation 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 Measurements 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

TOC = Top of Casing Elevation

* = Based on an Arbitrary Datum

NA = Not Applicable

-- = Not Available Due to Free Product Recovery

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


Date	Volume Recovery
November 9, 1993	0.125 Gallons
December 7, 1993	0.25 Gallons
January 12, 1994	0.05 Gallons




SOURCE: UNITED STATES GEOGRAPHICAL SURVEY T 5 QUAD. "SAN LEANDRO, CA" PHOTOREVISED 1980.




BLMYER
ENGINEERS, INC.



JOB NO. 68288 DATE 1/26/94



SCALE IN FEET



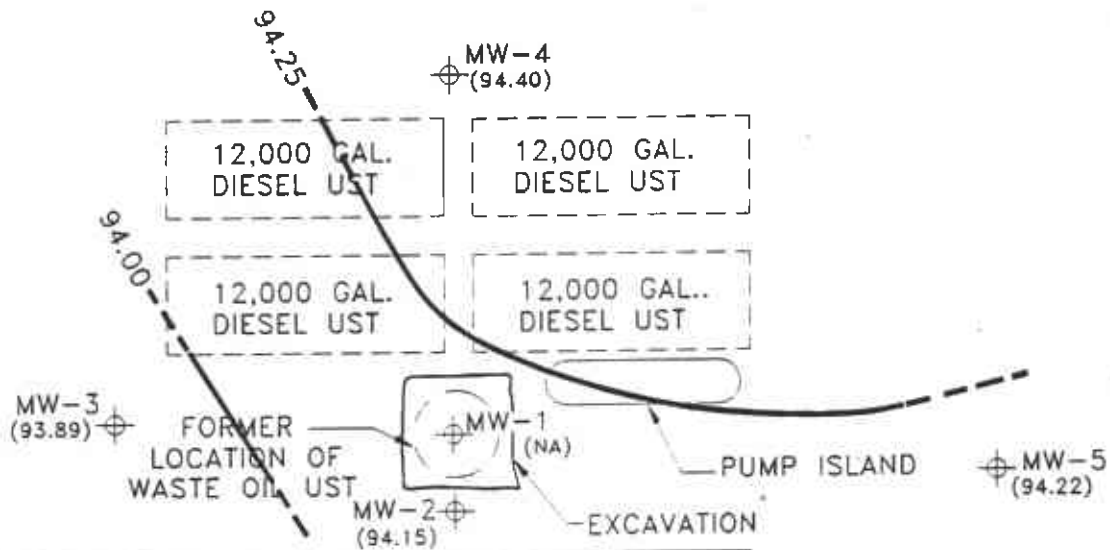
SITE LOCATION MAP



GI TRUCKING
1750 ADAMS AVE.
SAN LEANDRO, CA

FIGURE
1



APPARENT
GROUNDWATER FLOW
DIRECTION
DECEMBER 13, 1993



BLYMYER ENGINEERS, INC. 		LEGEND UST UNDERGROUND STORAGE TANK  GROUNDWATER MONITORING WELL (94.40) GROUNDWATER ELEVATION IN FEET (ARBITRARY DATUM) ——— CONTOUR LINE OF EQUAL ELEVATION (NA) NOT AVAILABLE	PROJECT GI TRUCKING SAN LEANDRO, CA GROUNDWATER CONTOUR MAP DECEMBER 13, 1993	FIGURE 2
BEI JOB NO. 88288	DATE 1/26/94			

Well Purging and Sampling Data

Date	12/13/93	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 Removed	
Depth to product	N/A	Gallons per foot of casing	= 0.17 gal/ft.
Depth to water	6.09 ft.	Column of water	x 17.16 ft.
Total depth of well	23.25 ft.	Volume of casing	= 2.9 gal.
Column of water	17.16 ft.	No. of volumes to remove	x 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	Slightly silty, brown color, no odor
Final	Slightly silty, brown color, no odor

Field Analysis	Initial	During		Final
Time	12:48	12:52	12:58	13:04
Temperature (F)	66.7	66.7	66.4	66.4
Conductivity (us/cm)	803	804	796	793
pH	8.42	8.19	8.17	8.12
Method of measurement	Hydac meter			
Total volume purged	8.75 gal.			
Comments				

Sample Number	Amount of Sample
MW-2	3-40ml VOA w/ HCl
	2-1l amber bottles

Signed/Sampler	Date
<i>Steph W. Wilson</i>	12/13/93
Signed/Reviewer	Date
<i>Mark J. [Signature]</i>	1/6/94

Well Purging and Sampling Data

Date	12/13/93	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 Removed
Depth to product	N/A
Depth to water	6.33 ft.
Total depth of well	22.75 ft.
Column of water	16.42 ft.
	Gallons per foot of casing = 0.17 gal/ft.
	Column of water x 16.42 ft.
	Volume of casing = 2.8 gal.
	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	Slightly silty, brown color, no odor
Final	Slightly silty, brown color, no odor

Field Analysis	Initial	During		Final
Time	13:38	13:43	13:50	13:56
Temperature (F)	67.4	67.9	67.9	68.1
Conductivity (us/cm)	775	810	921	891
pH	8.16	7.90	7.71	7.68
Method of measurement	Hydac meter			
Total volume purged	8.5 gal.			
Comments				

Sample Number	Amount of Sample
MW-3	3-40ml VOA w/ HCl
	2-1l amber bottles

Signed/Sampler	Date
<i>Steph W Moore</i>	12/13/93
Signed/Reviewer	Date
<i>Mark [Signature]</i>	1/6/94

Well Purging and Sampling Data

Date	12/13/93	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 Removed	
Depth to product	N/A	Gallons per foot of casing	= 0.17 gal/ft.
Depth to water	5.08 ft.	Column of water	x 17.71 ft.
Total depth of well	22.79 ft.	Volume of casing	= 3.0 gal.
Column of water	17.71 ft.	No. of volumes to remove	x 3
		Total volume to remove	= 9.0 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	Slightly silty, brown color, no odor
Final	Slightly silty, brown color, no odor

Field Analysis	Initial	During		Final
Time	10:32	10:37	10:44	10:51
Temperature (F)	66.0	68.1	67.5	67.4
Conductivity (us/cm)	825	838	839	838
pH	7.60	7.64	7.73	7.92
Method of measurement	Hydac meter			
Total volume purged	9.0 gal.			
Comments				

Sample Number	Amount of Sample
MW-4	3-40ml VOA w/ HCl
	2-1l amber bottles

Signed/Sampler	Date
<i>Steph W Moore</i>	12/13/93
Signed/Reviewer	Date
<i>Mark [Signature]</i>	1/6/94

Well Purging and Sampling Data

Date	12/13/93	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 Removed	
Depth to product	N/A	Gallons per foot of casing	= 0.17 gal/ft.
Depth to water	5.38 ft.	Column of water	x 16.87 ft.
Total depth of well	22.25 ft.	Volume of casing	= 2.9 gal.
Column of water	16.78 ft.	No. of volumes to remove	x 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	Slightly silty, brown color, no odor
Final	Slightly silty, brown color, no odor

Field Analysis	Initial	During		Final
Time	11:35	11:40	11:45	11:52
Temperature (F)	67.1	66.1	66.2	66.2
Conductivity (us/cm)	885	878	889	901
pH	8.40	8.14	8.11	7.94
Method of measurement	Hydac meter			
Total volume purged	8.75 gal.			
Comments				

Sample Number	Amount of Sample
MW-5	3-40 ml VOA w/ HCl
	2-1l amber bottles

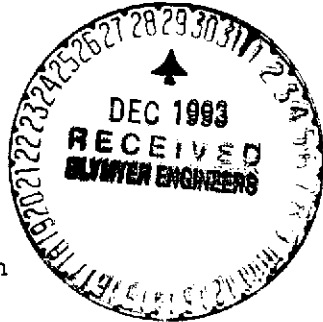
Signed/Sampler	Date
<i>Steph W Moore</i>	12/13/93
Signed/Reviewer	Date
<i>Mark E. [Signature]</i>	1/6/94



NATIONAL
ENVIRONMENTAL
TESTING, INC.

NET Pacific, Inc.
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623

Mark E. Ditterman
Carolina Freight Carriers
c/o Blymyer Engineers, Inc
1829 Clement Ave.
Alameda, CA 94501




Date: 12/28/1993
NET Client Acct. No: 61900
NET Pacific Job No: 93.05424
Received: 12/15/1993

Client Reference Information

GI Trucking/San Leandro, Job No. 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:


Jules Skamarack
Laboratory Manager

Enclosure(s)



Client Acct: 61900
Client Name: Carolina Freight Carriers
NET Job No: 93.05424

Date: 12/28/1993
ELAP Certificate: 1386
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Ref: GI Trucking/San Leandro, Job No. 88288

SAMPLE DESCRIPTION: MW-4
Date Taken: 12/13/1993
Time Taken: 11:05
NET Sample No: 180735

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
METHOD 8020 (GC, Liquid)							
DILUTION FACTOR*	1						12/16/1993
Benzene	ND		0.5	ug/L	8020		12/16/1993
Toluene	ND		0.5	ug/L	8020		12/16/1993
Ethylbenzene	ND		0.5	ug/L	8020		12/16/1993
Xylenes (Total)	ND		0.5	ug/L	8020		12/16/1993
SURROGATE RESULTS							
Bromofluorobenzene (SURR)	99			% Rec.			12/16/1993
METHOD 3510/M8015							
DILUTION FACTOR*	1					12/16/1993	12/21/1993
as Diesel	ND		0.05	mg/L	3510		12/21/1993

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 61900
Client Name: Carolina Freight Carriers
NET Job No: 93.05424

Date: 12/28/1993
ELAP Certificate: 1386
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Ref: GI Trucking/San Leandro, Job No. 88288

SAMPLE DESCRIPTION: MW-5
Date Taken: 12/13/1993
Time Taken: 12:15
NET Sample No: 180736

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
METHOD 8020 (GC,Liquid)							
DILUTION FACTOR*	1						12/16/1993
Benzene	ND		0.5	ug/L	8020		12/16/1993
Toluene	ND		0.5	ug/L	8020		12/16/1993
Ethylbenzene	ND		0.5	ug/L	8020		12/16/1993
Xylenes (Total)	ND		0.5	ug/L	8020		12/16/1993
SURROGATE RESULTS	--						12/16/1993
Bromofluorobenzene (SURR)	99			% Rec.			12/16/1993
METHOD 3510/M8015						12/16/1993	
DILUTION FACTOR*	1						12/21/1993
as Diesel	ND		0.05	mg/L	3510		12/21/1993

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 61900
Client Name: Carolina Freight Carriers
NET Job No: 93.05424

Date: 12/28/1993
ELAP Certificate: 1386
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Ref: GI Trucking/San Leandro, Job No. 88288

SAMPLE DESCRIPTION: MW-2
Date Taken: 12/13/1993
Time Taken: 13:25
NET Sample No: 180737

Parameter	Results	Flags	Reporting			Date	Date
			Limit	Units	Method	Extracted	Analyzed
METHOD 8020 (GC,Liquid)							
DILUTION FACTOR*	1						12/16/1993
Benzene	ND		0.5	ug/L	8020		12/16/1993
Toluene	ND		0.5	ug/L	8020		12/16/1993
Ethylbenzene	ND		0.5	ug/L	8020		12/16/1993
Xylenes (Total)	ND		0.5	ug/L	8020		12/16/1993
SURROGATE RESULTS	--						12/16/1993
Bromofluorobenzene (SURR)	100			% Rec.			12/16/1993
METHOD 3510/M8015							
DILUTION FACTOR*	1					12/16/1993	
as Diesel	ND		0.05	mg/L	3510		12/21/1993

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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ELAP Certificate: 1386
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Ref: GI Trucking/San Leandro, Job No. 88288

SAMPLE DESCRIPTION: MW-3
Date Taken: 12/13/1993
Time Taken: 14:25
NET Sample No: 180738

Parameter	Results	Flags	Reporting		Method	Date	Date
			Limit	Units		Extracted	Analyzed
METHOD 8020 (GC,Liquid)							
DILUTION FACTOR*	1						12/16/1993
Benzene	ND		0.5	ug/L	8020		12/16/1993
Toluene	ND		0.5	ug/L	8020		12/16/1993
Ethylbenzene	ND		0.5	ug/L	8020		12/16/1993
Xylenes (Total)	ND		0.5	ug/L	8020		12/16/1993
SURROGATE RESULTS	--						12/16/1993
Bromofluorobenzene (SURR)	101			% Rec.			12/16/1993
METHOD 3510/M8015						12/16/1993	
DILUTION FACTOR*	1						12/21/1993
as Diesel	0.19	D-	0.05	mg/L	3510		12/21/1993

D- : The positive result has an atypical pattern for Diesel analysis.

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Client Acct: 61900
Client Name: Carolina Freight Carriers
NET Job No: 93.05424

Date: 12/28/1993
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Ref: GI Trucking/San Leandro, Job No. 88288

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Units	Date Analyzed	Analyst Initials
	Standard % Recovery	Standard Amount Found	Standard Amount Expected			
METHOD 8020 (GC,Liquid)						
Benzene	97.6	4.88	5.00	ug/L	12/16/1993	vin
Toluene	102.0	5.10	5.00	ug/L	12/16/1993	vin
Ethylbenzene	100.4	5.02	5.00	ug/L	12/16/1993	vin
Xylenes (Total)	103.2	15.48	15.0	ug/L	12/16/1993	vin
Bromofluorobenzene (SURRE)	96.0	96	100	% Rec.	12/16/1993	vin
METHOD 3510/M8015						
as Diesel	96.1	961	1000	mg/L	12/21/1993	dkb

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 61900
Client Name: Carolina Freight Carriers
NET Job No: 93.05424

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METHOD BLANK REPORT

Parameter	Method	Reporting	Units	Date	Analyst
	Blank	Amount		Found	Analyzed
METHOD 8020 (GC,Liquid)					
Benzene	ND	0.5	ug/L	12/16/1993	vin
Toluene	ND	0.5	ug/L	12/16/1993	vin
Ethylbenzene	ND	0.5	ug/L	12/16/1993	vin
Xylenes (Total)	ND	0.5	ug/L	12/16/1993	vin
Bromofluorobenzene (SURR)	97		% Rec.	12/16/1993	vin
METHOD 3510/M8015					
as Diesel	ND	0.05	mg/L	12/21/1993	dkb

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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Ref: GI Trucking/San Leandro, Job No. 88288

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike			Spike Amount	Sample Conc.	Matrix Spike		Units	Date Analyzed	Analyst Initials
	Matrix Spike % Rec.	Dup % Rec.	RPD			Matrix Spike Conc.	Dup. Conc.			
METHOD 8020 (GC, Liquid)										
Benzene	98.5	100.0	1.4	40.8	3.5	43.7	44.3	ug/L	12/16/1993	vin
Toluene	97.2	98.5	1.3	100.8	8.1	106.1	107.4	ug/L	12/16/1993	vin
Bromofluorobenzene (SURR)	111	115		100	98			% Rec.	12/16/1993	vin
METHOD 3510/M8015										
as Diesel	81.0	78.0	3.8	1.00	ND	0.81	0.78	mg/L	12/21/1993	dkb
METHOD 3510/M8015										

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Acct: 61900
Client Name: Carolina Freight Carriers
NET Job No: 93.05424

Date: 12/28/1993
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LABORATORY CONTROL SAMPLE REPORT

<u>Parameter</u>	<u>LCS</u> <u>% Recovery</u>	<u>RPD</u>	<u>LCS</u> <u>Amount</u> <u>Found</u>	<u>LCS</u> <u>Amount</u> <u>Expected</u>	<u>Units</u>	<u>Date</u> <u>Analyzed</u>	<u>Analyst</u> <u>Initials</u>
METHOD 3510/M8015 as Diesel	69.0		0.69	1.00	mg/L	12/21/1993	dkb

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



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, $100 \text{ [Value 1 - Value 2] / mean value}$.
- 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

Methods 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.

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



CHAIN OF CUSTODY RECORD

7028

JOB #		PROJECT NAME/LOCATION				# OF CONTAINERS	TPH AS GASOLINE + BTXE (MOD EPA 8015/8020)	TPH AS DIESEL (MOD EPA 8015)	VOC (EPA 624/8240)	SEMI-VOC (EPA 625/8270)	TRPH (EPA 418.1)	BTXE (EPA 8020/602)	HOLD	TURNAROUND TIME: Standard DAY(S)	REMARKS:
88288		G-I Trucking / San Leandro CA													
SAMPLERS (SIGNATURE)															
Steph W Moore															
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-VOC (EPA 625/8270)	TRPH (EPA 418.1)	BTXE (EPA 8020/602)	HOLD	TURNAROUND TIME: Standard DAY(S)	REMARKS:	
12/13/93	0955	X	X	BB-1	5							X			
12/13/93	1105	X	X	MW-4	5	X					X				
12/13/93	1215	X	X	MW-5	5	X					X				
12/13/93	1325	X	X	MW-2	5	X					X				
12/13/93	1425	X	X	MW-3	5	X					X				

12/14/93
 SEaled
 Seal intact

REQUESTED BY: Mark E. [Signature]			RESULTS AND INVOICE TO: Carolina Freight Carriers Corp c/o Blymyer Engineers Inc		
RELINQUISHED BY: (SIGNATURE) Steph W Moore	DATE / TIME 12/13/93 16:00	RECEIVED BY: (SIGNATURE) [Signature]	RELINQUISHED BY: (SIGNATURE) [Signature]	DATE / TIME 12/14/93 11:17	RECEIVED BY: (SIGNATURE) P. L. Lumber
RELINQUISHED BY: (SIGNATURE) [Signature]	DATE / TIME 12/14/93 16:30	RECEIVED FOR LABORATORY BY: (SIGNATURE) [Signature]	DATE / TIME 12/15/93 0800	REMARKS: Temp read: 20C	

WHITE: Accompany Sample
 YELLOW: BEI, After Lab Signs
 PINK: Original Sampler