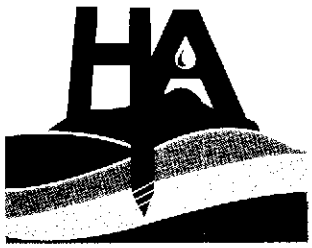


Environmental & Water Resources Engineering
Groundwater Consultants

GROUNDWATER SAMPLING

REPORT

(Sampled September 3, 1999)

QUALITY TUNE-UP

2780 Castro Valley Boulevard
Castro Valley, California

September 16, 1999

11100 SAN PABLO AVE., SUITE 200-A, EL CERRITO, CALIFORNIA 94530 • TEL 510-620-0891 • FAX 510-620-0894

HAGEMAN-AGUIAR, INC.
Environmental & Water Resources Engineering
Groundwater Consultants

September 22, 1999

Scott Seery
Alameda County Environmental Health
1131 Harbor Bay Parkway
2nd Floor
Alameda, CA 94502

Re: Quality Tune-Up
2780 Castro Valley Blvd
Castro Valley, CA

Dear Mr. Seery:

Please find enclosed a copy of the "*Groundwater Sampling Report*" by Hageman-Aguiar, Inc., dated September 16, 1999.

As shown by the analytical results, no detectable concentration of Benzene was found in any of the shallow groundwater samples. In addition, the data indicate that only "trace" concentrations of any petroleum hydrocarbons remain in the shallow groundwater and that no off-site migration of any of these concentrations is presently occurring. Based upon the results of this most recent groundwater sampling, it is recommended that the case be closed.

If you have any questions, please contact me at (510)620-0891.

Sincerely,

Gary Aguiar
Principal Engineer

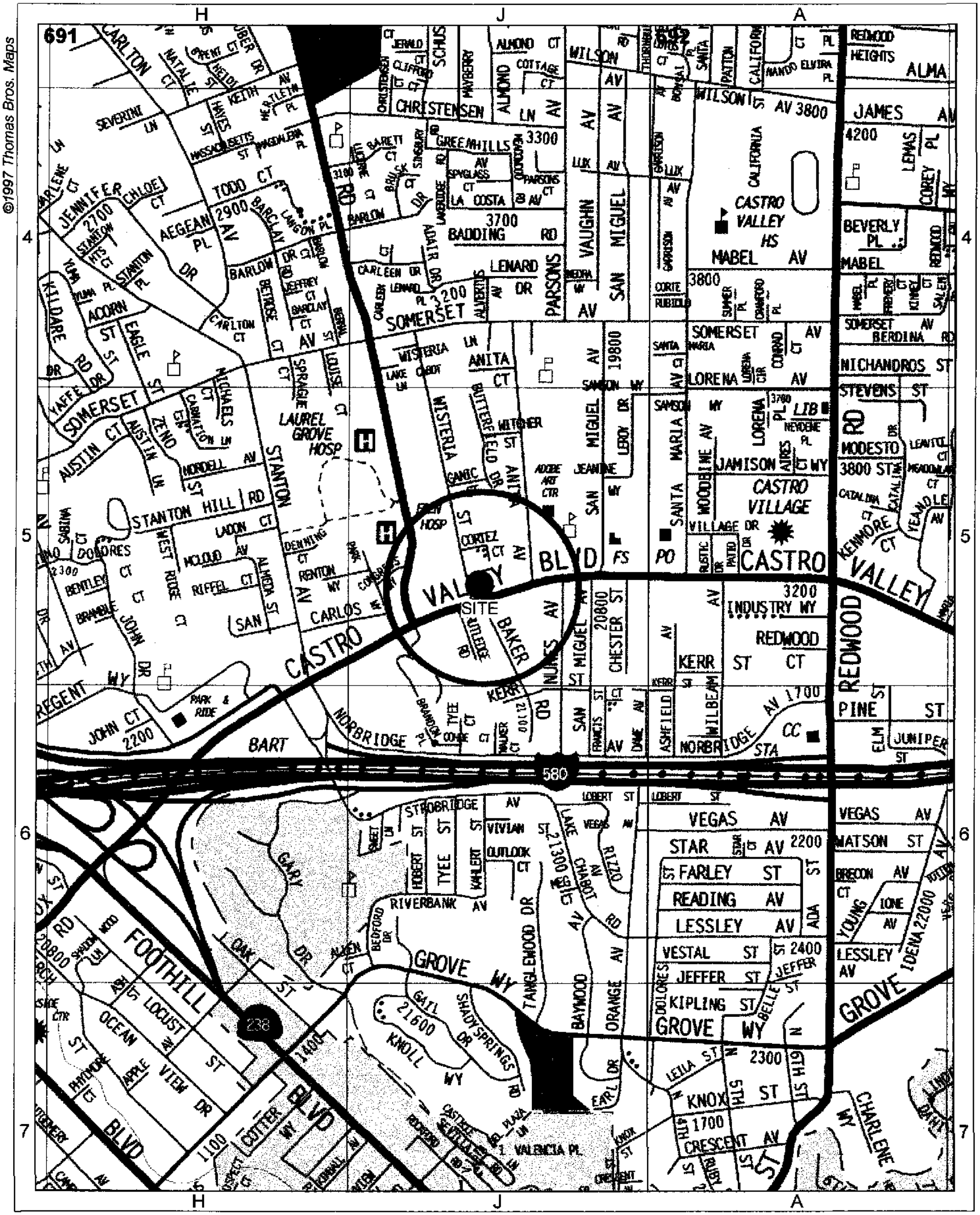
11100 SAN PABLO AVE., SUITE 200-A, EL CERRITO, CALIFORNIA 94530 • TEL 510-620-0891 • FAX 510-620-0894

TABLE OF CONTENTS

I. INTRODUCTION

The site location is the Quality Tune-Up facility located at 2780 Castro Valley Boulevard in Castro Valley, California. The location of the site is shown in Figure 1. In conjunction with a previous service station operation, the site had historically operated four underground fuel storage tanks for a number of years.

On September 3, 1999, all three (3) on-site shallow groundwater monitoring wells were sampled for the laboratory analysis for dissolved petroleum constituents. This groundwater sampling event has been conducted as requested by the Alameda County Department of Environmental Health.



● *SITE: 2780 Castro Valley Blvd, Castro Valley, 94546, Page & Grid 691 J5*

FIGURE 1.

Site Location Map.

II. FIELD WORK

Monitoring Well Sampling

On September 3, 1999, groundwater samples were collected from on-site monitoring wells MW-1, MW-2 and MW-3. The locations of the monitoring wells are shown on Figure 2 (Site Map).

Prior to groundwater sampling, several casing volumes of water were purged by hand using a PVC bailer. Field conductivity, temperature, and pH meters were present on-site during the monitoring well sampling. As the purging process continued, the three parameters were monitored. Purging continued until the readings appeared to have reasonably stabilized. Groundwater samples were subsequently collected using clean disposable sampling bailers. The water samples were placed inside appropriate 40 ml VOA vials free of any headspace. The samples were immediately placed on ice, then transported under chain-of-custody to the laboratory at the end of the work day.

At the time the monitoring wells were sampled, the following information was recorded in the field: 1) depth-to-water prior to purging, using an electrical well sounding tape, 2) identification of any floating product, sheen, or odor prior to purging, using a clear acrylic bailer, 3) sample pH, 4) sample temperature, and 5) specific conductance of the sample.

Copies of the well sampling logs are included as Attachment A.

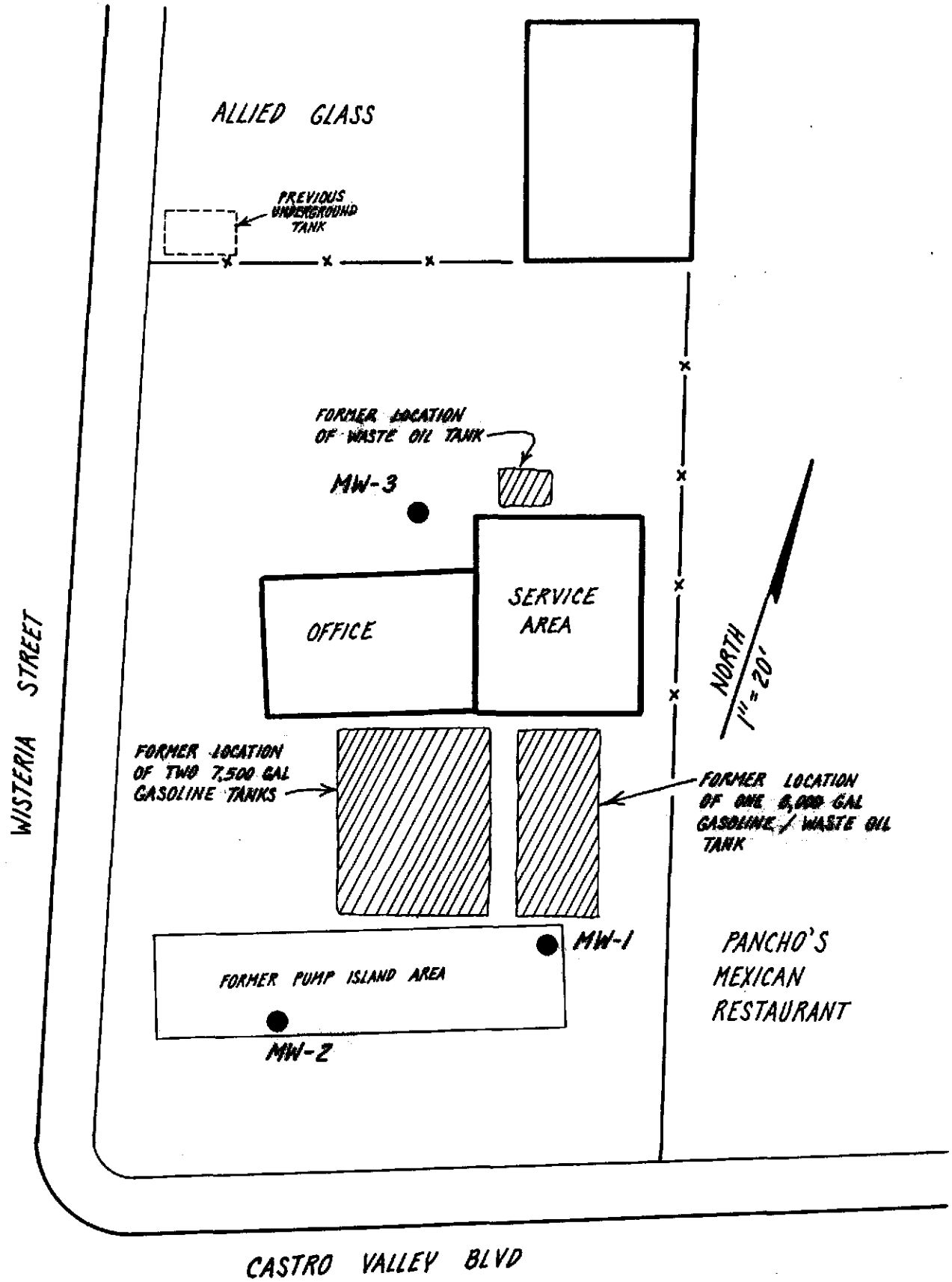


FIGURE 2.

Site Map.

Wastewater Generation

All water removed from the wells during purging was drummed and stored on-site until the results of laboratory analyses were obtained. Based upon these results, the water should be transported as a non-hazardous liquid waste under special waste manifest or bill of lading to an appropriate facility for treatment and disposal.

III. RESULTS OF WATER LEVEL MEASUREMENTS

Shallow Groundwater Flow Direction

The shallow water table elevations were measured on September 3, 1999. These measurements are shown in Table 1. Figure 3 presents a contour map for the shallow groundwater table beneath the site. As shown in this figure, the shallow groundwater beneath the site appears to flow in the southeasterly direction during this most recent sampling event.

Shallow Water Table Hydraulic Gradient

Figure 3 presents the contour map for the shallow groundwater table beneath the site. As shown in this figure, the shallow groundwater table beneath the site appears to have a calculated hydraulic gradient of dH/dL = 1.0'/39' = 0.026.

Historical Water Level Measurements

Table 2 presents the results of all water level measurements collected between May 20, 1992, and the present time.

TABLE 1.

Shallow Water Table Elevations
September 3, 1999

Well	Top of Casing Elevation (feet)	Depth to Water (feet)	Water Table Elevation (feet)
MW-1	163.70	11.00	152.70
MW-2	163.33	10.51	152.82
MW-3	163.35	9.01	154.34

Datum is Alameda County Benchmark Anita-CVB.
Standard surveyor brass disc on top-of-curb over drop inlet on Anita Avenue.
Elevation = 168.04 MSL

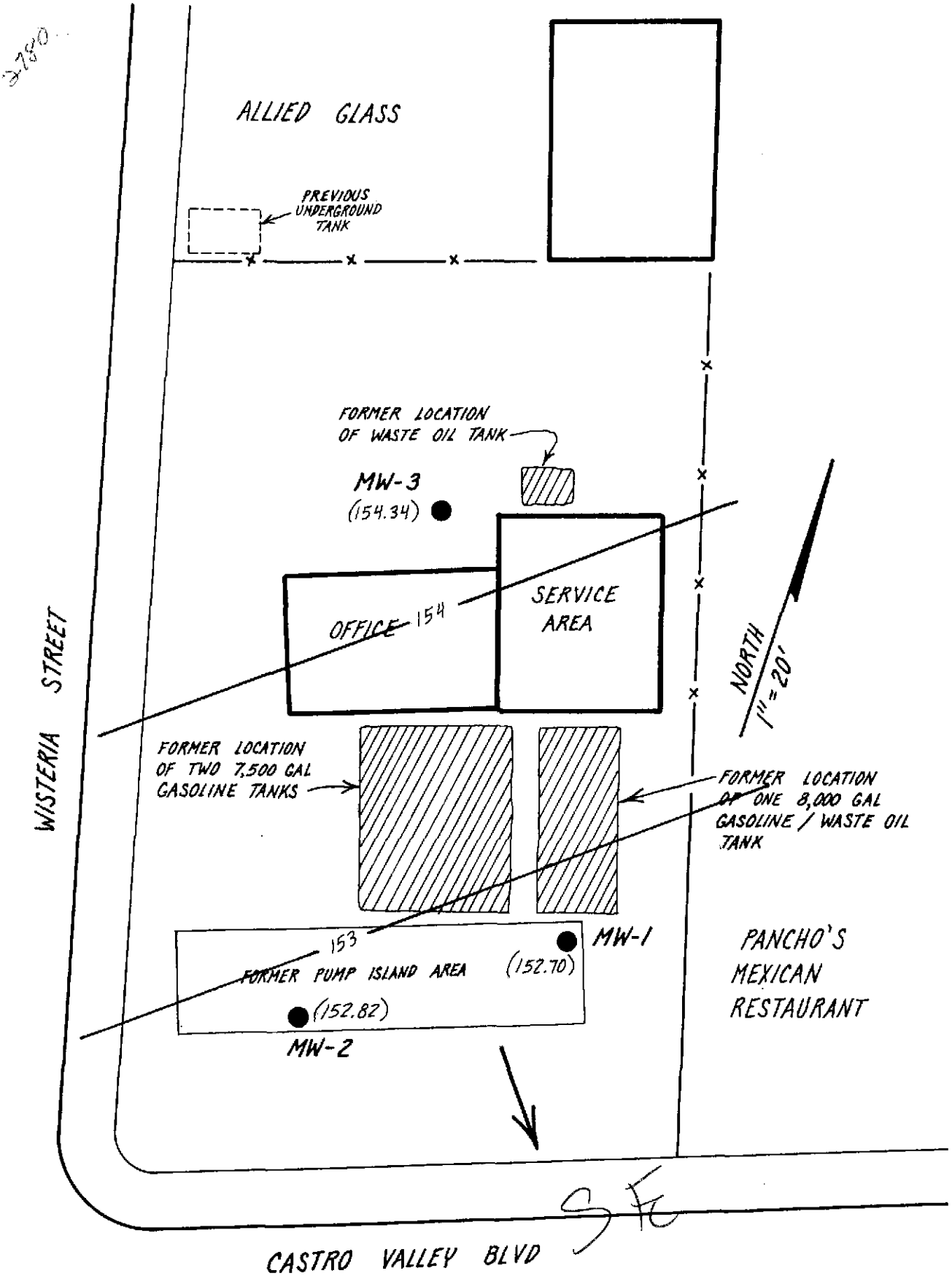


FIGURE 3.

Shallow Groundwater Contour Map, measured on September 3, 1999.

TABLE 2.

Historical Water Table Elevations
(feet)

Well	Date of Measurement								
	5-20-92	8-19-92	11-18-92	3-1-93	5-24-93	8-16-93	11-15-93	2-11-94	6-28-94
MW-1	152.67	152.64	152.40	154.88	153.27	153.00	153.52	154.96	153.09
MW-2	152.65	152.47	151.84	154.23	153.01	152.69	153.01	154.15	153.08
MW-3	154.28	154.48	154.05	156.88	154.89	154.48	154.87	154.82	154.65
Flow Direction	SE	SE	S	S	S	S	S	SW	SE
Hydraulic Gradient	0.025	0.029	0.030	0.035	0.027	0.025	0.024	0.020	0.025

Well	Date of Measurement								
	9-12-94	12-13-94	3-24-95	6-27-95	9-3-99				
MW-1	152.97	154.25	157.15	153.35	152.70				
MW-2	152.76	153.51	156.12	153.20	152.82				
MW-3	154.34	156.03	160.03	155.04	154.34				
Flow Direction	S	S	S	S	SE				
Hydraulic Gradient	0.022	0.034	0.051	0.027	0.026				

IV. ANALYTICAL RESULTS

Laboratory Analysis

All analyses were conducted by a California State DOHS certified laboratory in accordance with EPA recommended procedures. The laboratory analyses were performed by Chromalab, Inc., located in Pleasanton, California.

Groundwater samples were analyzed for:

1) Total Petroleum Hydrocarbons as Gasoline
(EPA method 8015M).

2) Benzene, Toluene, Ethylbenzene, and Total Xylenes
(EPA method 8020).

3) Methyl Tertiary Butyl Ether (MTBE)
(EPA method 8020).

Analytical Results: Groundwater

Table 3 presents the results of the laboratory analysis for groundwater samples collected from the shallow groundwater monitoring wells. Copies of the laboratory certificates for the groundwater sample analyses are provided in Attachment B.

As shown in Table 3, Gasoline was detected in the groundwater samples collected from monitoring well MW-3 at a concentration of 760 μg/L (ppb). In addition, MTBE was detected in the groundwater sample collected from monitoring well MW-3 at a concentration of 22 μg/L (ppb). Benzene was not detected in any of the shallow groundwater samples collected from monitoring wells MW-1, MW-2 or MW-3.

2780

TABLE 3.

Shallow Groundwater Sampling Results

Well	Date	TPH as Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
MW-1	05-20-92	260	ND	ND	4.4	9.0	---
	08-19-92	ND	ND	ND	ND	ND	---
	11-18-92	160	0.9	4.0	2.6	9.4	---
	02-22-93	9,000	15	34	46	91	---
	05-24-93	540	0.5	0.9	2.0	4.5	---
	08-16-93	53	ND	ND	1.0	4.7	---
	11-15-93	780	0.6	0.9	1.1	5.2	---
	02-11-94	3,000	3.9	2.5	12	26	---
	06-28-94	180	ND	ND	4.2	9.0	---
	09-12-94	ND	ND	ND	ND	ND	---
	12-13-94	580	ND	ND	2.6	3.9	---
	03-24-95	1,500	7.3	6.2	12	28	---
	06-27-95	160	ND	ND	4.7	9.2	---
	09-03-99	ND	ND	ND	ND	ND	ND
MW-2	05-20-92	ND	ND	ND	ND	ND	---
	08-19-92	ND	ND	ND	ND	ND	---
	11-18-92	70	ND	ND	0.9	6.7	---
	02-22-93	ND	ND	ND	ND	ND	---
	05-24-93	ND	ND	ND	ND	ND	---
	08-16-93	ND	ND	ND	ND	ND	---
	11-15-93	ND	ND	ND	ND	ND	---
	02-11-94	ND	ND	ND	ND	ND	---
	06-28-94	ND	ND	ND	ND	ND	---
	09-12-94	ND	ND	ND	ND	ND	---
	12-13-94	120	ND	ND	ND	0.8	---
	03-24-95	290	ND	0.5	10	18	---
	06-27-95	63	ND	3.4	1.9	9.1	---
	09-03-99	ND	ND	ND	ND	ND	ND
Detection Limit		50	0.5	0.5	0.5	0.5	0.5

ND = Not Detected

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TABLE 3. (continued)

Shallow Groundwater Sampling Results

Well	Date	TPH as Gasoline (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl-benzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)
MW-3	05-20-92	4,200	4.5	1.2	13	43	---
	08-19-92	280	5.3	16	25	61	---
	11-18-92	4,800	26	27	35	98	---
	02-22-93	6,200	9.4	15	30	66	---
	05-24-93	1,100	1.5	3.4	4.1	9.9	---
	08-16-93	420	2.1	3.0	3.8	23	---
	11-15-93	3,000	2.4	3.1	4.4	20	---
	02-11-94	3,700	7.7	6.8	12	29	---
	06-28-94	230	ND	4.0	8.5	19	---
	09-12-94	460	0.7	1.4	3.5	4.7	---
	12-13-94	1,400	1.1	2.1	5.4	9.5	---
	03-24-95	6,000	14	15	10	79	---
	06-27-95	1,100	6.2	39	26	43	---
	09-03-99	760	ND	1.5	2.9	4.1	22
Detection Limit		50	0.5	0.5	0.5	0.5	0.5

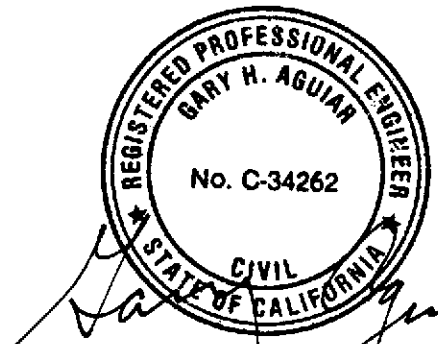
ND = Not Detected

GROUNDWATER SAMPLING REPORT

QUALITY TUNE-UP

2780 Castro Valley Boulevard, Castro Valley, CA.

September 16, 1999



EXP. 9-30-03

Gary Aguiar **RCE 34262**

Reneé L. Athey **Staff Engineer**

ATTACHMENT A

Well Sampling Logs

Hageman-Aguiar, Inc.
11100 San Pablo Ave. Suite 200A
El Cerrito, CA 94530
(510) 620-0891 Fax (510) 620-0894

Project: Quality Tune Up - Castro Valley **Date:** 09/03/99

WELL #	DEPTH TO WATER	PRODUCT	WELL DEPTH	PRODUCT REMOVED	WATER REMOVED	COMMENTS
MW-1	11.00'	none	24.82'		8 gal	
MW-2	10.51'	none	20.94'		8 gal	
MW-3	9.01'	sheen	24.81'		10 gal	

WELL SAMPLING LOG

Site Location: Quality Tune Up - Castro Valley Page: 1 of 3

Well Number: MW-2 Date: 09/03/99

Weather: Overcast, 55°-65° Time Began: 10:15

Sampling Personnel: R Wilson Completed: 10:33

EVACUATION DATA

Description of Measuring Point (MP): WB@G

Total Sounded Depth of Well Below MP	20.67'+0.27'	Sample Collected	
- Depth to Water Below MP	10.51'	Volatile Organics (VOA's)	3
= Water Column in Well	10.43'	1 Liter Amber Glass	
x Casing Diameter Multiplier	0.169 2"	Polyethylene (plastic)	
= Gallons in Casing	1.76	Other	
Gallons Pumped Prior to Sampling	8	Samples Filtered	no

Evacuation Method:		Sample Method:	
PVC Bailer	X	Evacuation Bailer	X
Acrillyc Bailer		Disposable Bailer	
Pump		Pump	
Other		Direct	

SAMPLING DATA / FIELD PARAMETERS

Inspection for Free Product (thickness to 0.01 foot, if any): None, Clear

Time	10:19	10:23	10:27	10:33	
Gals Removed	2	4	6	8	
Temperature	21.9	21.2	20.9	20.8	
Conductivity	196	240	245	247	
pH	6.86	6.90	6.91	6.92	
Color / Odor	clear	Tan	Tan	Tan	
Turbidity	low	low	med	med	
Other					

Comments:

WELL SAMPLING LOG

Site Location: Quality Tune Up - Castro Valley | Page: 2 of 3

Well Number: MW-1 | Date: 09/03/99

Weather: Overcast, 55°-65° | Time Began: 10:55

Sampling Personnel: R Wilson | Completed: 11:11

EVACUATION DATA

Description of Measuring Point (MP): WP@G

Total Sounded Depth of Well Below MP: 24.55' ± 0.27'

- Depth to Water Below MP: 11.00'

= Water Column in Well: 13.82'

x Casing Diameter Multiplier: 0.169 (2")

= Gallons in Casing: 2.34

Gallons Pumped Prior to Sampling: 8

Sample Collected

Volatile Organics (VOA's)	3
1 Liter Amber Glass	
Polyethylene (plastic)	
Other	
Samples Filtered	no

Evacuation Method:

PVC Bailer	X
Acrillyc Bailer	
Pump	
Other	

Sample Method:

Evacuation Bailer	X
Disposable Bailer	
Pump	
Direct	

SAMPLING DATA / FIELD PARAMETERS

Inspection for Free Product: None, Clear
(thickness to 0.01 foot, if any)

Time	10:59	11:03	11:07	11:11	
Gals Removed	2	4	6	8	
Temperature	21.4	21.1	20.7	20.5	
Conductivity	262	272	293	284	
pH	6.96	6.97	6.97	6.97	
Color / Odor	Tan	Tan	Tan	Tan	
Turbidity	low	low	low	low	
Other					

Comments:

WELL SAMPLING LOG

Site Location: Quality Tune Up - Castro Valley | Page 3 of 3

Well Number: MW-3 | Date: 09/03/99

Weather: Overcast, 60°-70° | Time Began: 11:37

Sampling Personnel: R Wilson | Completed: 11:53

EVACUATION DATA

Description of Measuring Point (MP): WB@G

Total Sounded Depth of Well Below MP	24.54'+0.27'		Sample Collected
- Depth to Water Below MP	9.01'		Volatile Organics (VOA's) 3
= Water Column in Well	15.80'		1 Liter Amber Glass
x Casing Diameter Multiplier	0.169	2"	Polyethylene (plastic)
= Gallons in Casing	2.67		Other
Gallons Pumped Prior to Sampling	10		Samples Filtered no

Evacuation Method:		Sample Method:	
PVC Bailer	x	Evacuation Bailer	x
Acrillyc Bailer		Disposable Bailer	
Pump		Pump	
Other		Direct	

SAMPLING DATA / FIELD PARAMETERS

Inspection for Free Product: (thickness to 0.01 foot, if any) Sheen, Clear

Time	11:41	11:45	11:49	11:53	
Gals Removed	2.5	5	7.5	10	
Temperature	20.6	19.9	19.6	19.4	
Conductivity	307	320	322	332	
pH	6.99	6.95	6.94	6.94	
Color / Odor	gray	gray	gray	gray	
Turbidity	med	med	med	med	
Other	sheen	sheen			

Comments:

ATTACHMENT B

Analytical Results

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-09-0048

Date: September 14, 1999

Hageman-Aguiar, Inc.
11100 San Pablo Avenue, Suite 200-A
El Cerrito, CA 94530

Attn.: Mr. Randal Wilson

Project: Quality-Castro Valley

Site: 2780 Castro Valley Blvd,
Castro Valley

Dear Mr. Wilson,

Attached is our report for your samples received on Friday September 3, 1999. This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after October 3, 1999 unless you have requested otherwise. We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

Sincerely,

Pierre Monette

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-09-0048

Gas/BTEX and MTBE

Hageman-Aguiar, Inc.

Attn: Randal Wilson

Project #:

Site: 2780 Castro Valley Blvd, Castro Valley

11100 San Pablo Avenue, Suite 200-A
El Cerrito, CA 94530

Phone: (510) 620-0891 Fax: (510) 620-0894

Project: Quality-Castro Valley

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-1	Water	09/03/1999	1
MW-2	Water	09/03/1999	2
MW-3	Water	09/03/1999	3

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-09-0048

To: **Hageman-Aguiar, Inc.**

Attn.: Randal Wilson

Test Method: 8015M
8020

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**MW-1**	Lab Sample ID:	**1999-09-0048-001**
Project:	Quality-Castro Valley	Received:	09/03/1999 12:54
Site:	2780 Castro Valley Blvd, Castro Valley	Extracted:	09/13/1999 11:07
Sampled:	09/03/1999	QC-Batch:	1999/09/13-01.03
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	09/13/1999 11:07	
Benzene	ND	0.50	ug/L	1.00	09/13/1999 11:07	
Toluene	ND	0.50	ug/L	1.00	09/13/1999 11:07	
Ethyl benzene	ND	0.50	ug/L	1.00	09/13/1999 11:07	
Xylene(s)	ND	0.50	ug/L	1.00	09/13/1999 11:07	
MTBE	ND	5.0	ug/L	1.00	09/13/1999 11:07	
Surrogate(s)						
Trifluorotoluene	102.9	58-124	%	1.00	09/13/1999 11:07	
4-Bromofluorobenzene-FID	108.0	50-150	%	1.00	09/13/1999 11:07	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-09-0048

To: **Hageman-Aguiar, Inc.**

Attn.: Randal Wilson

Test Method: 8015M
8020

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**MW-2**	Lab Sample ID:	**1999-09-0048-002**
Project:	Quality-Castro Valley	Received:	09/03/1999 12:54
Site:	2780 Castro Valley Blvd, Castro Valley	Extracted:	09/10/1999 16:47
Sampled:	09/03/1999	QC-Batch:	1999/09/10-01.03
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	09/10/1999 16:47	
Benzene	ND	0.50	ug/L	1.00	09/10/1999 16:47	
Toluene	ND	0.50	ug/L	1.00	09/10/1999 16:47	
Ethyl benzene	ND	0.50	ug/L	1.00	09/10/1999 16:47	
Xylene(s)	ND	0.50	ug/L	1.00	09/10/1999 16:47	
MTBE	ND	5.0	ug/L	1.00	09/10/1999 16:47	
Surrogate(s)						
Trifluorotoluene	89.4	58-124	%	1.00	09/10/1999 16:47	
4-Bromofluorobenzene-FID	113.4	50-150	%	1.00	09/10/1999 16:47	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-09-0048

To: **Hageman-Aguiar, Inc.**

Attn.: Randal Wilson

Test Method: 8015M
8020

Prep Method: 5030

Gas/BTEX and MTBE

Sample ID:	**MW-3**	Lab Sample ID:	**1999-09-0048-003**
Project:	Quality-Castro Valley	Received:	09/03/1999 12:54
Site:	2780 Castro Valley Blvd, Castro Valley	Extracted:	09/13/1999 11:37
Sampled:	09/03/1999	QC-Batch:	1999/09/13-01.03
Matrix:	Water		

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	760	50	ug/L	1.00	09/13/1999 11:37	g
Benzene	ND	0.50	ug/L	1.00	09/13/1999 11:37	
Toluene	1.5	0.50	ug/L	1.00	09/13/1999 11:37	
Ethyl benzene	2.9	0.50	ug/L	1.00	09/13/1999 11:37	
Xylene(s)	4.1	0.50	ug/L	1.00	09/13/1999 11:37	
MTBE	22	5.0	ug/L	1.00	09/13/1999 11:37	
Surrogate(s)						
Trifluorotoluene	117	58-124	%	1.00	09/13/1999 11:37	
4-Bromofluorobenzene-FID	107	50-150	%	1.00	09/13/1999 11:37	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-09-0048

To: **Hageman-Aguiar, Inc.**

Attn.: Randal Wilson

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report
Gas/BTEX and MTBE

Method Blank **Water** **QC Batch # 1999/09/10-01.03**

MB: 1999/09/10-01.03-001 Date Extracted: 09/10/1999 08:28

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	09/10/1999 08:28	
Benzene	ND	0.5	ug/L	09/10/1999 08:28	
Toluene	ND	0.5	ug/L	09/10/1999 08:28	
Ethyl benzene	ND	0.5	ug/L	09/10/1999 08:28	
Xylene(s)	ND	0.5	ug/L	09/10/1999 08:28	
MTBE	ND	5.0	ug/L	09/10/1999 08:28	
Surrogate(s)					
Trifluorotoluene	93.6	53-124	%	09/10/1999 08:28	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-09-0048

To: **Hageman-Aguiar, Inc.**

Attn.: Randal Wilson

Test Method: 8020
8015M

Prep Method: 5030

Batch QC Report
Gas/BTEX and MTBE

Method Blank | **Water** | **QC Batch # 1999/09/13-01.03**

MB: 1999/09/13-01.03-001

Date Extracted: 09/13/1999 08:43

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	09/13/1999 08:43	
Benzene	ND	0.5	ug/L	09/13/1999 08:43	
Toluene	ND	0.5	ug/L	09/13/1999 08:43	
Ethyl benzene	ND	0.5	ug/L	09/13/1999 08:43	
Xylene(s)	ND	0.5	ug/L	09/13/1999 08:43	
MTBE	ND	5.0	ug/L	09/13/1999 08:43	
Surrogate(s)					
Trifluorotoluene	102.8	58-124	%	09/13/1999 08:43	

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-09-0048

To: **Hageman-Aguiar, Inc.**

Attn: Randal Wilson

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 1999/09/10-01.03**

LCS: 1999/09/10-01.03-002 Extracted: 09/10/1999 08:55 Analyzed: 09/10/1999 08:55

LCSD: 1999/09/10-01.03-003 Extracted: 09/10/1999 07:06 Analyzed: 09/10/1999 07:06

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	524	502	500	500	104.8	100.4	4.3	75-125	20		
Benzene	84.5	85.5	100.0	100.0	84.5	85.5	1.2	77-123	20		
Toluene	84.5	86.3	100.0	100.0	84.5	86.3	2.1	78-122	20		
Ethyl benzene	81.9	85.5	100.0	100.0	81.9	85.5	4.3	70-130	20		
Xylene(s)	237	245	300	300	79.0	81.7	3.4	75-125	20		
Surrogate(s)											
Trifluorotoluene	440	442	500	500	88.0	88.4		58-124			

CHROMALAB, INC.

Environmental Services (SDB)

Submission #: 1999-09-0048

To: **Hageman-Aguiar, Inc.**

Attn: Randal Wilson

Test Method: 8015M
8020

Prep Method: 5030

Batch QC Report

Gas/BTEX and MTBE

Laboratory Control Spike (LCS/LCSD) **Water** **QC Batch # 1999/09/13-01.03**

LCS: 1999/09/13-01.03-002 Extracted: 09/13/1999 06:42 Analyzed: 09/13/1999 06:42

LCSD: 1999/09/13-01.03-003 Extracted: 09/13/1999 07:10 Analyzed: 09/13/1999 07:10

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Gasoline	450	468	500	500	90.0	93.6	3.9	75-125	20		
Benzene	81.8	84.6	100.0	100.0	81.8	84.6	3.4	77-123	20		
Toluene	81.7	86.2	100.0	100.0	81.7	86.2	5.4	76-122	20		
Ethyl benzene	82.0	84.5	100.0	100.0	82.0	84.5	3.0	70-130	20		
Xylene(s)	227	243	300	300	75.7	81.0	6.8	75-125	20		
Surrogate(s)											
Trifluorotoluene	417	424	500	500	83.4	84.8		58-124			

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone: (925) 484-1919 * Facsimile: (925) 484-1096

Printed on: 09/14/1999 18:17

To: **Hageman-Aguilar, Inc.**

Attn:Randal Wilson

Test Method: 8015M
8020

Prep Method: 5030

Legend & Notes

Gas/BTEX and MTBE

Analyte Flags

9

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

CHAIN OF CUSTODY RECORD

PROJECT NAME AND ADDRESS:

Quality - Castro Valley
2780 Castro Valley Blvd.
Castro Valley

SAMPLER: (Signature) Randal Wiley

HAGEMAN - AGUIAR, INC.
11100 San Pablo Ave., Suite 200-A
El Cerrito, CA 94530
(510)620-0891 (510)620-0894 (FAX)

ANALYSIS REQUESTED: TPH-Gas, BTEX, MTBE, 4 VOA's

CROSS REFERENCE NUMBER	DATE	TIME	SOIL	WATER	SAMPLE LOCATION								REMARKS
MW-1	09/03/99	11:11		X	Monitoring well # MW-1	X							Normal
MW-2	09/03/99	10:37		X	" " # MW-2	X							Turnaround
MW-3	09/03/99	11:53		X	" " # MW-3	X							Time

RELINQUISHED BY: (Signature) Randal Wiley	DATE 9/03/99 TIME 12:50	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED BY: (Signature)	DATE TIME
RELINQUISHED BY: (Signature)	DATE TIME	RECEIVED FOR LABORATORY BY: (Signature) Jacqueline Cisneros	DATE 9/03/99 TIME 12:50