

美國和利食品公司 屋崙

Wo Lee Food Co.

208 JACKSON ST., OAKLAND, CA 94607  
TEL: (510) 444-7083 • (510) 834-5868 • FAX: (510) 444-4657

9-25-1996

ALAMEDA COUNTY ENVIRONMENTAL HEALTH DIV  
1311 HARBOR BAY PARKWAY, ROOM 250  
ALAMEDA, CA 94502-6577  
ATTN: JENNIFER EBERLE

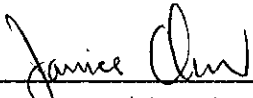
RE: QUARTERLY MONITORING AND SAMPLING REPORT  
208 JACKSON STREET, OAKLAND, CA.  
ACC PROJECT NO. 96-6238-1.2

Dear Sirs/Madam;

-----  
Enclosed please find one copy of the groundwater monitoring  
report prepared by ACC Environmental Consultants, Inc. (ACC).

This report was requested by you, in your letter dated 8-12-1996.

Sincerely,

  
\_\_\_\_\_  
(JANICE CHOW) (MS.)  
SECRETARY

ENVIRONMENTAL  
PROTECTION  
96 SEP 27 PM 2:48

**QUARTERLY GROUNDWATER MONITORING REPORT**

**Wo Lee Food  
208 Jackson Street  
Oakland, California**

*ACC Project No. 95-6238-1.2*

Prepared for:

Mr. Tzu Ming Chen  
c/o Ms. Janice Chow  
Wo Lee Foods Company  
208 Jackson Street  
Oakland, California

September 23, 1996

Prepared by:

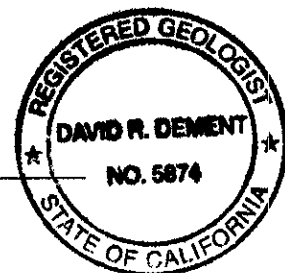


Misty C. Kaltreider  
Project Geologist

Reviewed by :



David R. DeMent, RG  
Senior Geologist



**TABLE OF CONTENTS**

	Page
<b>1.0 INTRODUCTION</b> .....	1
<b>2.0 BACKGROUND</b> .....	1
<b>3.0 GROUNDWATER MONITORING AND SAMPLING</b> .....	2
3.1 Groundwater Monitoring .....	2
3.2 Groundwater Gradient .....	3
3.3 Groundwater Sampling .....	3
<b>4.0 RESULTS OF GROUNDWATER SAMPLING</b> .....	4
<b>5.0 DISCUSSION</b> .....	5
<b>6.0 CONCLUSIONS</b> .....	5

**TABLES**

1 - Groundwater Depth Information .....	2
2 - Historical Gradient and Flow Direction.....	3
3 - Groundwater Sample Analytical Results .....	4

**FIGURES**

- 1 - Location Map
- 2 - Site Plan
- 3 - Groundwater Gradient Map

**APPENDICES**

- 1 - Well Monitoring Worksheet
- 2 - Analytical Results and Chain of Custody Record

## QUARTERLY GROUNDWATER MONITORING REPORT

Wo Lee Food  
208 Jackson Street  
Oakland, California

### 1.0 INTRODUCTION

On behalf of Wo Lee Food, ACC Environmental Consultants, Inc., (ACC) has prepared this report of quarterly groundwater monitoring performed at 208 Jackson Street, Oakland, California (Figure 1). The purpose of the work was to evaluate groundwater in the vicinity of the former gasoline underground storage tanks (USTs). The project objectives were to: 1) measure the groundwater levels in each well and calculate groundwater elevation, gradient, and flow direction; 2) obtain groundwater samples from the four existing monitoring wells and analyze the water samples for petroleum hydrocarbon constituents; and 3) report the findings.

### 2.0 BACKGROUND

Four USTs were removed from the site in March 1990 (Figure 2). Tanks #1 and #3 are reported to have contained diesel fuel and tanks #2 and #4 contained gasoline fuel. Analytical results indicated that concentrations of total petroleum hydrocarbons as diesel (TPHd) and benzene, toluene, ethylbenzene, and total xylenes (BTEX) were reported in the soil from the excavation of tank #1. Soils left in place in the other tank excavations contained relatively low concentrations of total petroleum hydrocarbons as gasoline (TPHg), TPHd, and BTEX. Overburden soils from the tank locations and a reported 125 cubic yards of soil were excavated and stockpiled on site.

Three exploratory soil borings were drilled at the site by Subsurface Consultants, Inc., (SCI) in May 1990 and converted into groundwater monitoring wells (Figure 2). SCI collected water samples from monitoring wells MW-2 and MW-3 and the tank #2 excavation in January 1994 and submitted the samples for analyses. Analytical results of groundwater samples from wells MW-2 and MW-3 did not indicate concentrations of TPHg, TPHd or BTEX, but excavation water from tank #2 indicated 3,700  $\mu\text{g/L}$ , equivalent to parts per billion (ppb) TPHd and 1.1 ppb xylenes.

SCI conducted further subsurface assessment in May 1994. Two additional groundwater monitoring wells (MW-4 and MW-5) were installed downgradient of the former USTs, adjacent to Second Street in the southern corner of the property. SCI sampled the onsite monitoring wells but was unable to locate well MW-1. Well MW-1 is believed to have been destroyed during previous site excavation of tanks #1 and #3. Analytical results of groundwater samples collected from wells MW-2, MW-4, and MW-5 indicated that groundwater has been impacted by petroleum hydrocarbons from the former underground storage of gasoline and diesel fuels. Petroleum hydrocarbons may have migrated off site, but this is considered minimal due to nondetectable analytical results in offsite borings.

Due to the constituents in the groundwater detected on site, Alameda County Health Care Services Agency (ACHCSA) requested additional offsite and onsite subsurface investigation.

Previous groundwater monitoring included measuring depth to water, subjectively evaluating groundwater, and purging and sampling the wells for laboratory analysis. Groundwater beneath the site was encountered between a depth of 4.2 to 5.4 feet below ground surface (bgs).

In March 1995, ACC performed an additional subsurface investigation which included drilling five exploratory soil borings (B-1 through B-5) off site along Second and Madison Streets and 11 onsite borings (B-6 through B-16). The boring locations were anticipated to provide the most information on the lateral extent of the dissolved petroleum hydrocarbon plume.

In September through November 1995, ACC measured water levels in four groundwater monitoring wells and calculated groundwater flow direction and gradient. This work was performed in order to properly locate a proposed downgradient monitoring well.

In its letter dated August 12, 1996, ACHCSA requested that quarterly groundwater monitoring and sampling be reinstated immediately to evaluate groundwater conditions at the site. The letter requested that samples be analyzed for TPHg, TPHd, BTEX, and methyl tertiary butyl ether (MTBE).

### 3.0 GROUNDWATER MONITORING AND SAMPLING

ACC conducted quarterly groundwater monitoring on September 5, 1996. Work at the site included measuring depth to water, subjectively evaluating groundwater in the wells, and purging and sampling the wells for laboratory analysis.

#### 3.1 Groundwater Monitoring

Before groundwater sampling, the depth to the surface of the water table was measured from the top of the polyvinyl chloride well casing using a Solinst water level meter. The water level measurements were recorded to the nearest 0.01 foot with respect to mean sea level (MSL). Groundwater monitoring data recorded on the well monitoring worksheet is included as Appendix 1. Information regarding well elevations and groundwater levels are summarized in Table 1.

**TABLE 1 - GROUNDWATER DEPTH INFORMATION**

Well Number	Date Measured	Casing Elevation (MSL)	Groundwater Depth (feet)	Groundwater Elevation (MSL)
MW-2	09/26/95	6.64	5.20	1.44
	10/27/95		5.11	1.53
	11/30/95		5.19	1.45
	09/04/96		5.05	1.59

Well Number	Date Measured	Casing Elevation (MSL)	Groundwater Depth (feet)	Groundwater Elevation (MSL)
MW-3	09/26/95	7.71	5.71	2.00
	10/27/95		5.81	1.90
	11/30/95		5.90	1.81
	09/04/96		5.64	2.07
MW-4	09/26/95	6.74	5.39	1.35
	10/27/95		5.43	1.31
	11/30/95		5.51	1.23
	09/04/96		5.28	1.46 ↑
MW-5	09/26/95	6.73	5.14	1.59
	10/27/95		5.17	1.56
	11/30/95		5.26	1.47
	09/04/96		5.11	1.62

Notes: All measurements in feet relative to MSL

### 3.2 Groundwater Gradient

The groundwater flow direction as determined from monitoring well data obtained on September 4, 1996, is illustrated on Figure 3. Based on groundwater elevation measurements, groundwater flow is toward the south at an average gradient of 0.003 foot/foot. The groundwater flow direction is essentially the same as previous sampling events conducted in 1995. Table 2 summarizes previous gradients and approximate flow directions determined from water elevations.

**TABLE 2 - GROUNDWATER GRADIENT AND FLOW DIRECTION**

Date Monitored	Average Gradient (foot/foot)	Direction
September 9, 1995	0.004	south-southeast
October 27, 1995	0.003	south
November 30, 1995	0.003	south
September 4, 1996	0.003	south

### 3.3 Groundwater Sampling

Before groundwater sampling, each well was purged using a disposable polyethylene bailer. Groundwater samples were collected when temperature, pH, and conductivity of the water stabilized and a minimum of four well casing volumes of water had been removed. Following purging, each well was allowed to recharge before sampling. When recovery to 80 percent of the static water level

was observed, a sample was collected for analysis. Groundwater conditions were monitored during purging and sampling. A copy of the well monitoring worksheet is presented as Appendix 1.

Wells were sampled using disposable polyethylene bailers attached to new string. From each monitoring well, sample vials were filled to overflowing and sealed so that no air was trapped in the vial. Once filled, sample vials were inverted and tapped to test for air bubbles. Samples were collected in approved, laboratory-supplied vials. Sample containers were labeled with self-adhesive, preprinted tags. The samples were stored in a pre-chilled, insulated container pending delivery to a state-certified laboratory for analysis.

Water purged during the development and sampling of the monitoring wells was temporarily stored on site in Department of Transportation approved 55-gallon drums pending laboratory analysis and proper disposal.

#### 4.0 RESULTS OF GROUNDWATER SAMPLING

Groundwater samples collected from wells MW-2 through MW-5 were submitted to Chromalab, Inc., following chain of custody protocol. The samples were analyzed for TPHg, TPHd, BTEX, and MTBE by EPA Methods 8015M/8020. Table 3 summarizes groundwater sample analytical results. A copy of the analytical results and chain of custody record is included in Appendix 2.

**TABLE 3 - GROUNDWATER SAMPLE ANALYTICAL RESULTS**

Well No.	Date Sampled	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	TPHd (µg/L)	MTBE (µg/L)
MW-1 (destroyed)	5/21/90	25,000	400	440	330	650	5,500	---
MW-2	5/21/90	<50	<1.0	<1.0	<1.0	<1.0	<50	---
	1/6/94	<50	<0.5	<0.5	<0.5	<0.5	<50	---
	9/4/96	<50	<0.5	<0.5	<0.5	<0.5	<50	<5.0
MW-3	5/21/90	<50	<1.0	<1.0	<1.0	<1.0	<50	---
	1/6/94	<50	<0.5	<0.5	<0.5	<0.5	<50	---
	6/3/94	<50	<0.5	<0.5	<0.5	<0.5	230*	---
	9/4/96	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
MW-4	6/3/94	210,000	7,600	28,000	3,700	24,000	9,800	---
	9/4/96	45,000	5,100	4,600	4,100	14,000	<50	<500
MW-5	6/3/94	7,800	3.8	6.2	10	16	4,600	---
	9/4/96	1,600	14	3.6	9.7	13	<50	<5.0

Notes: \*Reported to be an anomalous result from one chromatogram peak

## 5.0 DISCUSSION

Based on data collected during previous site investigation, ACC recommended that a downgradient monitoring well not be installed at this time due to the apparent lack of offsite migration. Flow direction and gradient, measured in the fall 1995, were consistently south and 0.003 foot/foot, respectively. These values were confirmed during the current groundwater monitoring and sampling event.

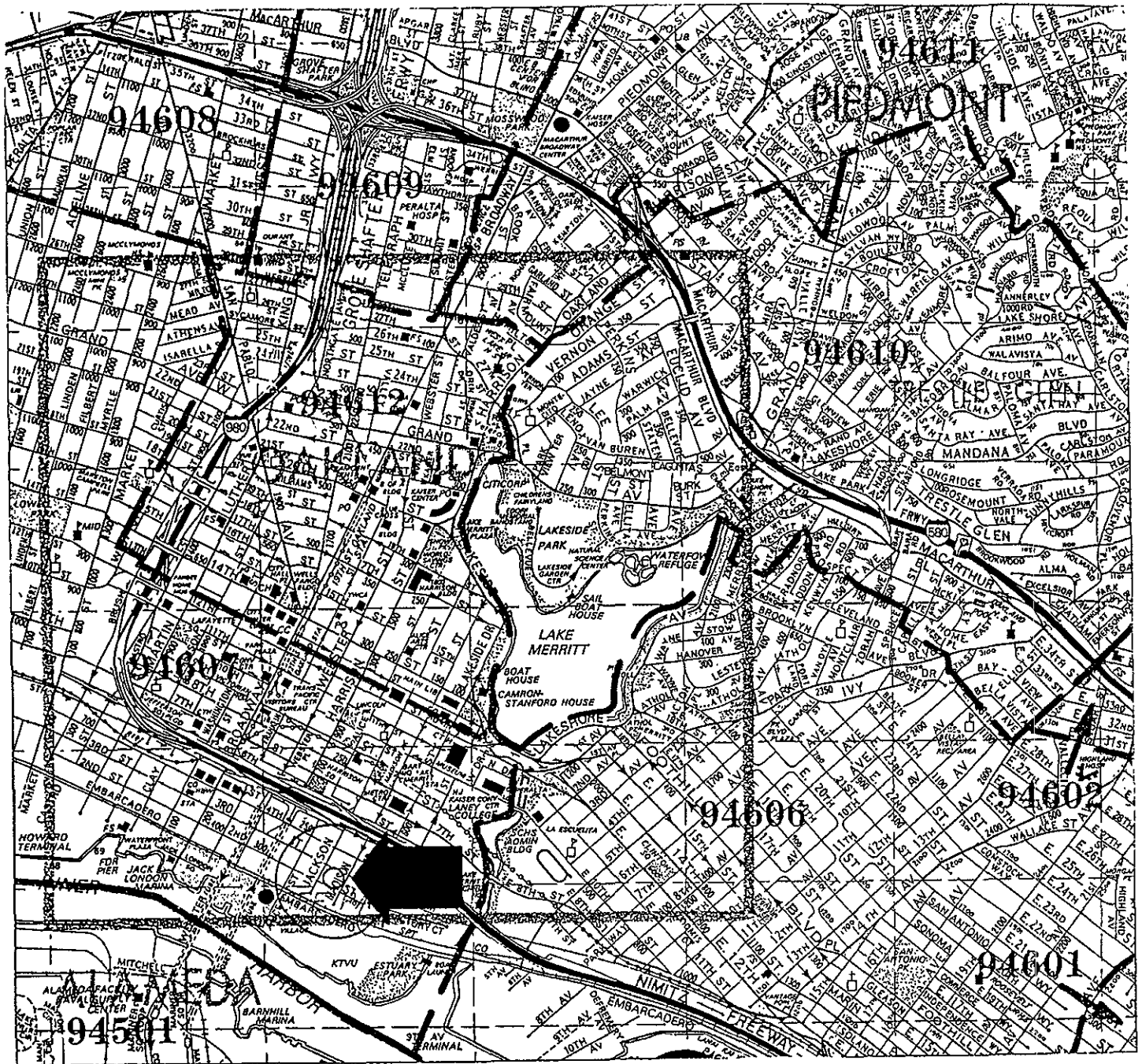
No concentrations were detected in wells MW-2 and MW-3. Concentrations of TPHg have decreased more than four-fold in wells MW-4 and MW-5 since June 1994. Concentrations of BTEX have also decreased. No concentrations of TPHd were detected in wells MW-4 or MW-5, which contained 9,800 µg/L and 4,600 TPHd, respectively, in June 1994. No MTBE was detected in any of the groundwater samples.

ACC attempted to measure dissolved oxygen (DO) levels in the wells using a Horiba U-10® with a continuous flow cell, but the meter malfunctioned and was later found to contain a bad DO sensor.

## 6.0 CONCLUSIONS

Pursuant to the Tri-Regional Water Quality Control Board guidelines, groundwater sampling and monitoring of the onsite wells should continue on a biannual basis to verify the trend of decreasing petroleum hydrocarbon concentrations. The next biannual groundwater sampling will be conducted in March 1996.





Source: Thomas Brothers Guide

FIGURE 1: LOCATION MAP  
208 Jackson Street  
Oakland, California

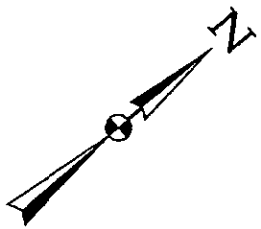
Project No. 6249-1.0

Scale: 1" = 40'

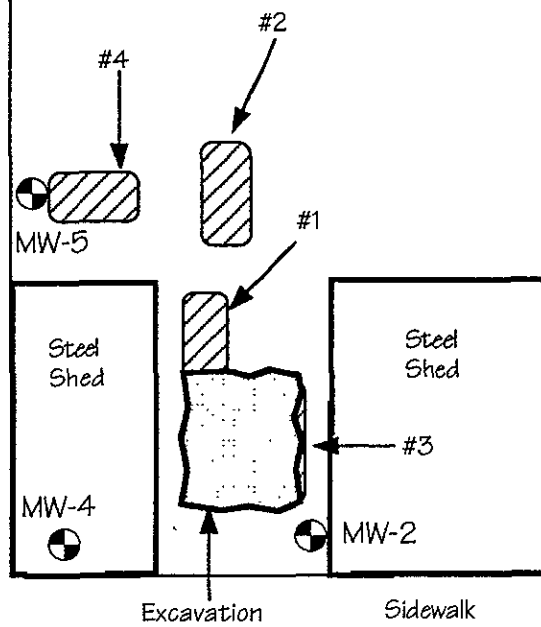
Drawn By: JVC

Date: 10/30/95

ACC Environmental Consultants  
7977 Capwell Drive, Suite 100  
Oakland, CA 94621  
(510)638-8400 Fax (510)638-8404



Second Street



Sidewalk

Madison Street

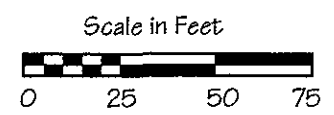
12-inch high pressure natural gas line

Sidewalk

Sidewalk

Legend

	Monitoring Well Location
	Open Excavation
	Former UST Location



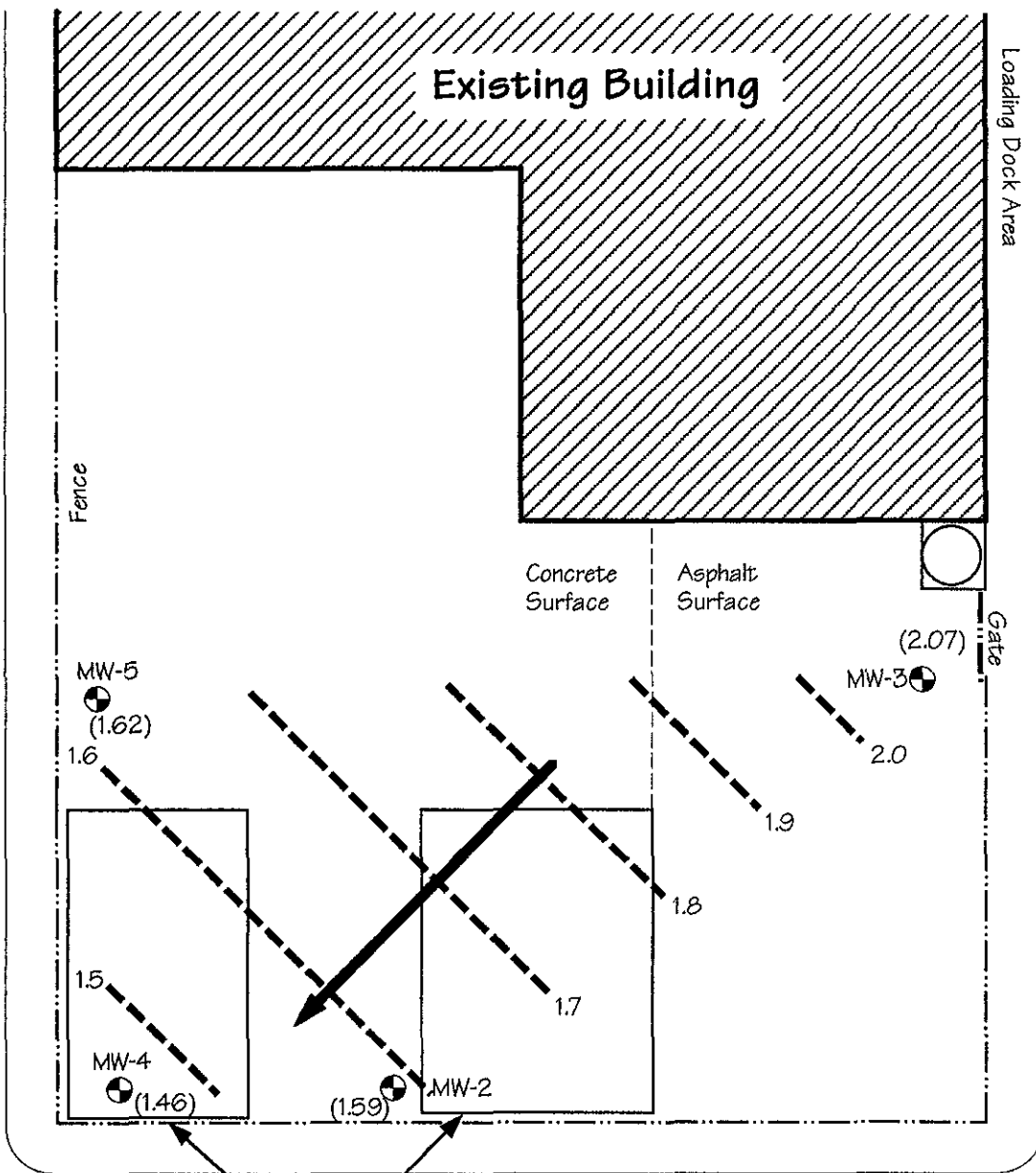
**Figure 2**  
**Site Plan**  
 208 Jackson Street  
 Oakland, California

September 19, 1996

Drawn by: DRD

Project No.: 96-6238-1.2

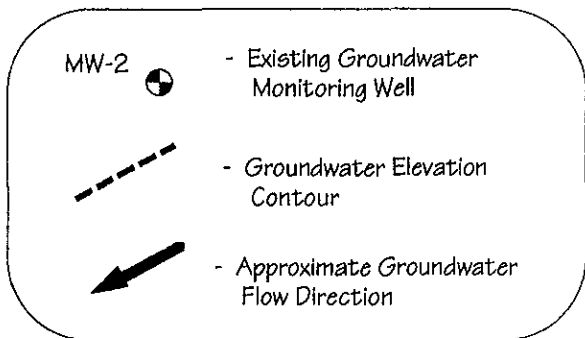
Second Street



Jackson Street

Madison Street

### Legend



Groundwater levels measured on September 4, 1996

Title: Gradient Map  
 Wo Lee Food  
 208 Jackson Street  
 Oakland, California

Figure No: 3

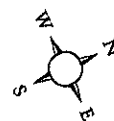
Scale: 1" = 40'

Drawn By: JVC/DRD

Date: 9/18/96

Project No: 6238-1.2

ACC Environmental Consultants, Inc.  
 7977 Capwell Drive, Suite 100  
 Oakland, CA 94621  
 (510)638-8400 Fax (510)638-8404



WELL MONITORING WORKSHEET

---

JOB NAME: <i>Wo Lee Foods</i>	PURGE METHOD: <i>Manual Bailing</i>
SITE ADDRESS: <i>208 Jackson Street</i>	SAMPLED BY: <i>E. Cisneros/D. Dement</i>
JOB #: <i>6249-1.0</i>	LABORATORY: <i>Chromalab</i>
DATE: <i>9/4/96</i>	ANALYSIS: <i>TPHg, BTEX, MTBE, DIESEL</i>
Onsite Drum Inventory SOIL: <i>2 ≈ 50% full</i>	MONITORING <input checked="" type="checkbox"/> DEVELOPING <input type="checkbox"/>
EMPTY: WATER: <i>2 ≈ 25% full</i>	SAMPLING <input checked="" type="checkbox"/>

	PURGE		HYDAC READINGS				OBSERVATIONS
	VOLUME						
<b>WELL: MW-2</b>	(Gal)	pH	Temp. (F)	Cond. un/cm	<input type="checkbox"/>	Froth	
DEPTH OF BORING: <i>9.20'</i>	<i>0.7</i>	<i>7.32</i>	<i>20.8</i>	<i>.682</i>	<input type="checkbox"/>	Sheen	
DEPTH TO WATER: <i>5.05'</i>	<i>1.4</i>	<i>7.37</i>	<i>20.4</i>	<i>.618</i>	<input type="checkbox"/>	Odor Type _____	
WATER COLUMN: <i>4.15'</i>	<i>2.1</i>	<i>7.28</i>	<i>20.1</i>	<i>.624</i>	<input type="checkbox"/>	Free Product	
WELL DIAMETER: <i>2"</i>	<i>2.8</i>	<i>7.24</i>	<i>20.2</i>	<i>.597</i>	<input type="checkbox"/>	Amount _____ Type _____	
WELL VOLUME: <i>≈ 0.7 gal</i>	<i>3.5</i>	<i>7.26</i>	<i>20.0</i>	<i>.598</i>	<input type="checkbox"/>	Other	
COMMENTS:	<i>4.2</i>	<i>7.21</i>	<i>20.1</i>	<i>.596</i>	<i>D.O.: .52 Sal: 0.02 Turb: 13</i>		
	<i>4.9</i>	<i>7.20</i>	<i>20.0</i>	<i>.597</i>			
	<i>5.6</i>	<i>7.20</i>	<i>20.0</i>	<i>.596</i>			
<b>WELL: MW-3</b>	(Gal)	pH	Temp. (F)	Cond. un/cm	<input type="checkbox"/>	Froth	
DEPTH OF BORING: <i>9.24'</i>	<i>0.6</i>	<i>6.73</i>	<i>25.2</i>	<i>7.85</i>	<input type="checkbox"/>	Sheen	
DEPTH TO WATER: <i>5.64'</i>	<i>1.2</i>	<i>6.63</i>	<i>25.0</i>	<i>8.66</i>	<input type="checkbox"/>	Odor Type _____	
WATER COLUMN: <i>3.60'</i>	<i>1.8</i>	<i>6.21</i>	<i>24.2</i>	<i>8.99</i>	<input type="checkbox"/>	Free Product	
WELL DIAMETER: <i>2"</i>	<i>2.4</i>	<i>6.18</i>	<i>23.8</i>	<i>9.08</i>	<input type="checkbox"/>	Amount _____ Type _____	
WELL VOLUME: <i>≈ 0.6 gal</i>	<i>3.0</i>	<i>6.16</i>	<i>23.4</i>	<i>9.06</i>	<input type="checkbox"/>	Other	
COMMENTS:	<i>3.6</i>	<i>6.12</i>	<i>23.5</i>	<i>9.18</i>	<i>D.O.: 1.7 - 2.0 Sal: 0.43 p.50; 0.49</i>		
	<i>4.2</i>	<i>6.19</i>	<i>23.2</i>	<i>9.08</i>			
	<i>4.8</i>	<i>6.17</i>	<i>23.3</i>	<i>9.12</i>			
<b>WELL: MW-4</b>	(Gal)	pH	Temp. (F)	Cond. un/cm	<input type="checkbox"/>	Froth	
DEPTH OF BORING: <i>9.20'</i>	<i>0.7</i>	<i>6.80</i>	<i>21.0</i>	<i>2.25</i>	<input checked="" type="checkbox"/>	Sheen	
DEPTH TO WATER: <i>5.05' 5.28</i>	<i>1.4</i>	<i>6.79</i>	<i>20.7</i>	<i>2.27</i>	<input checked="" type="checkbox"/>	Odor Type <i>gas</i>	
WATER COLUMN: <i>4.15'</i>	<i>2.1</i>	<i>6.81</i>	<i>20.5</i>	<i>2.26</i>	<input type="checkbox"/>	Free Product	
WELL DIAMETER: <i>2"</i>	<i>2.8</i>	<i>6.85</i>	<i>20.4</i>	<i>2.21</i>	<input type="checkbox"/>	Amount _____ Type _____	
WELL VOLUME: <i>≈ 0.7 gal</i>	<i>3.5</i>	<i>6.78</i>	<i>20.5</i>	<i>2.18</i>	<input type="checkbox"/>	Other	
COMMENTS:	<i>4.2</i>	<i>6.72</i>	<i>20.3</i>	<i>2.19</i>	<i>Dark grey purge water</i>		
	<i>4.9</i>	<i>6.76</i>	<i>20.4</i>	<i>2.20</i>			
	<i>5.6</i>	<i>6.77</i>	<i>20.4</i>	<i>2.18</i>			

JOB NAME: <u>Wo Lee Foods</u>	PURGE METHOD: <u>Manual Bailing</u>
SITE ADDRESS: <u>208 Jackson St.</u>	SAMPLED BY: <u>E. Cisneros / D. DeWent</u>
JOB #: <u>6249-1.0</u>	LABORATORY: <u>Chromalab</u>
DATE: <u>9/4/96</u>	ANALYSIS: <u>TPHg, BTEX, MTBE, DIESEL</u>
Onsite Drum Inventory SOIL: <u>2 ~ 50% full</u>	MONITORING <input checked="" type="checkbox"/> DEVELOPING <input type="checkbox"/>
EMPTY: WATER: <u>2 ~ 25% full</u>	SAMPLING <input checked="" type="checkbox"/>

	HYDAC READINGS				OBSERVATIONS
	PURGE VOLUME	pH	Temp. (F)	Cond. un/cm	
WELL: <u>MW-5</u>	(Gal)	pH	Temp. (F)	Cond. un/cm	<input type="checkbox"/> Froth
DEPTH OF BORING: <u>8.65'</u>	<u>0.6</u>	<u>6.83</u>	<u>22.2</u>	<u>.820</u>	<input checked="" type="checkbox"/> Sheen
DEPTH TO WATER: <u>5.11'</u>	<u>1.2</u>	<u>6.78</u>	<u>21.4</u>	<u>.831</u>	<input checked="" type="checkbox"/> Odor Type <u>gas</u>
WATER COLUMN: <u>3.54'</u>	<u>1.8</u>	<u>6.81</u>	<u>20.9</u>	<u>.794</u>	<input type="checkbox"/> Free Product
WELL DIAMETER: <u>2"</u>	<u>2.4</u>	<u>6.67</u>	<u>20.6</u>	<u>.778</u>	Amount _____ Type _____
WELL VOLUME: <u>~ 0.6 gal</u>	<u>3.0</u>	<u>6.63</u>	<u>20.4</u>	<u>.769</u>	<input type="checkbox"/> Other
COMMENTS: <u>Dark grey purge water.</u>	<u>3.6</u>	<u>6.61</u>	<u>20.5</u>	<u>.768</u>	
	<u>4.2</u>	<u>6.62</u>	<u>20.3</u>	<u>.769</u>	
	<u>4.8</u>	<u>6.61</u>	<u>20.4</u>	<u>.767</u>	
WELL:	(Gal)	pH	Temp. (F)	Cond. un/cm	<input type="checkbox"/> Froth
DEPTH OF BORING:					<input type="checkbox"/> Sheen
DEPTH TO WATER:					<input type="checkbox"/> Odor Type _____
WATER COLUMN:					<input type="checkbox"/> Free Product
WELL DIAMETER:					Amount _____ Type _____
WELL VOLUME:					<input type="checkbox"/> Other
COMMENTS:					
WELL:	(Gal)	pH	Temp. (F)	Cond. un/cm	<input type="checkbox"/> Froth
DEPTH OF BORING:					<input type="checkbox"/> Sheen
DEPTH TO WATER:					<input type="checkbox"/> Odor Type _____
WATER COLUMN:					<input type="checkbox"/> Free Product
WELL DIAMETER:					Amount _____ Type _____
WELL VOLUME:					<input type="checkbox"/> Other
COMMENTS:					

ANALYTICAL RESULTS AND CHAIN OF CUSTODY RECORD

# CHROMALAB, INC.

Environmental Services (SDB)

September 11, 1996

Submission #: 9609071

ACC ENVIRONMENTAL CONSULTANTS

Atten: David DeMent

Project: 208 JACKSON  
Received: September 5, 1996


Project#: 6249-1.0

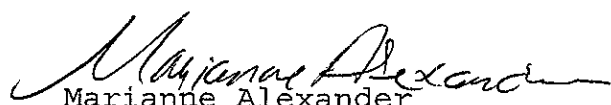
re: One sample for Gasoline, BTEX & MTBE analysis.  
Method: EPA 5030/8015M/8020

Client Sample ID: MW-2

Spl#: 98963 Matrix: WATER  
Sampled: September 4, 1996 Run#: 3003 Analyzed: September 6, 1996

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	50	N.D.	91.2	1
BENZENE	N.D.	0.50	N.D.	93.4	1
TOLUENE	N.D.	0.50	N.D.	90.7	1
ETHYL BENZENE	N.D.	0.50	N.D.	88.6	1
XYLENES	N.D.	0.50	N.D.	89.3	1
MTBE	N.D.	5.0	N.D.	112	1

  
June Zhao  
Chemist

  
Marianne Alexander  
Gas/BTEX Supervisor



# CHROMALAB, INC.

Environmental Services (SDB)

September 11, 1996

Submission #: 9609071

ACC ENVIRONMENTAL CONSULTANTS

Atten: David DeMent

Project: 208 JACKSON  
Received: September 5, 1996

Project#: 6249-1.0

re: One sample for Gasoline, BTEX & MTBE analysis.  
Method: EPA 5030/8015M/8020

Client Sample ID: MW-3

Spl#: 98964


Matrix: WATER


Sampled: September 4, 1996

Run#: 3003

Analyzed: September 6, 1996

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	N.D.	50	N.D.	91.2	1
BENZENE	N.D.	0.50	N.D.	93.4	1
TOLUENE	N.D.	0.50	N.D.	90.7	1
ETHYL BENZENE	N.D.	0.50	N.D.	88.6	1
XYLENES	N.D.	0.50	N.D.	89.3	1
MTBE	N.D.	5.0	N.D.	112	1

  
June Zhao  
Chemist

  
Marianne Alexander  
Gas/BTEX Supervisor

# CHROMALAB, INC.

Environmental Services (SDB)

September 11, 1996

Submission #: 9609071

ACC ENVIRONMENTAL CONSULTANTS

Atten: David DeMent

Project: 208 JACKSON  
Received: September 5, 1996

Project#: 6249-1.0

re: One sample for Gasoline, BTEX & MTBE analysis.  
Method: EPA 5030/8015M/8020

Client Sample ID: MW-4

Spl#: 98965


Matrix: WATER

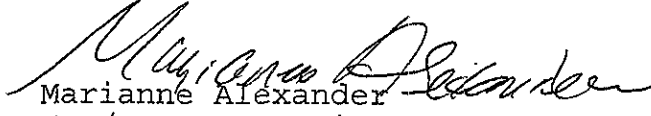
Sampled: September 4, 1996

Run#: 3003

Analyzed: September 6, 1996

<u>ANALYTE</u>	<u>RESULT</u> <u>(ug/L)</u>	<u>REPORTING</u> <u>LIMIT</u> <u>(ug/L)</u>	<u>BLANK</u> <u>RESULT</u> <u>(ug/L)</u>	<u>BLANK</u> <u>SPIKE</u> <u>(%)</u>	<u>DILUTION</u> <u>FACTOR</u>
GASOLINE	45000	5000	N.D.	91.2	100
BENZENE	5100	50	N.D.	93.4	100
TOLUENE	4600	50	N.D.	90.7	100
ETHYL BENZENE	4100	50	N.D.	88.6	100
XYLENES	14000	50	N.D.	89.3	100
MTBE	N.D.	500	N.D.	112	100

  
June Zhao  
Chemist

  
Marianne Alexander  
Gas/BTEX Supervisor

# CHROMALAB, INC.

Environmental Services (SDB)

September 12, 1996

Submission #: 9609071

ACC ENVIRONMENTAL CONSULTANTS

Atten: David DeMent

Project: 208 JACKSON  
Received: September 5, 1996

Project#: 6249-1.0

re: One sample for Gasoline, BTEX & MTBE analysis.  
Method: EPA 5030/8015M/8020

Client Sample ID: MW-5

Spl#: 98966


Matrix: WATER

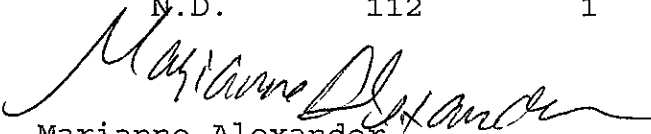
Sampled: September 4, 1996

Run#: 3003

Analyzed: September 7, 1996

ANALYTE	RESULT (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
GASOLINE	1600	50	N.D.	91.2	1
BENZENE	14	0.50	N.D.	93.4	1
TOLUENE	3.6	0.50	N.D.	90.7	1
ETHYL BENZENE	9.7	0.50	N.D.	88.6	1
XYLENES	13	0.50	N.D.	89.3	1
MTBE	N.D.	5.0	N.D.	112	1

  
June Zhao  
Chemist

  
Marianne Alexander  
Gas/BTEX Supervisor

# CHROMALAB, INC.

Environmental Services (SDB)

September 12, 1996

Submission #: 9609071

ACC ENVIRONMENTAL CONSULTANTS

Atten: David DeMent


Project: 208 JACKSON  
Received: September 5, 1996

Project#: 6249-1.0


re: 4 samples for TPH - Diesel analysis.  
Method: EPA 3510/8015M

Matrix: WATER  
Sampled: September 4, 1996 Run#: 3053  
Extracted: September 10, 1996  
Analyzed: September 10, 1996

Spl#	CLIENT SPL ID	DIESEL (ug/L)	REPORTING LIMIT (ug/L)	BLANK RESULT (ug/L)	BLANK SPIKE (%)	DILUTION FACTOR
98963	MW-2	N.D.	50	N.D.	68.0	1
98964	MW-3	N.D.	50	N.D.	68.0	1
98965	MW-4	N.D.	50	N.D.	68.0	1
98966	MW-5	N.D.	50	N.D.	68.0	1



Bruce Havlik  
Chemist



Alex Tam  
Semivolatiles Supervisor

CHROMALAB, INC.  
SAMPLE RECEIPT CHECKLIST

Client Name ACC Date/Time Received 9/5/96 1320  
Project 208 JACKSON Received by B Monon Date / Time  
Reference/Subm # 29586/9609071 Carrier name \_\_\_\_\_  
Checklist completed by: CR 9/6/96 Logged in by CR 9/6/96  
Signature Date Initials / Date  
Matrix H2O

Shipping container in good condition? NA \_\_\_ Yes \_\_\_ No \_\_\_  
Custody seals present on shipping container? Intact \_\_\_ Broken \_\_\_ Yes \_\_\_ No \_\_\_  
Custody seals on sample bottles? Intact \_\_\_ Broken \_\_\_ Yes \_\_\_ No \_\_\_  
Chain of custody present? Yes  No \_\_\_  
Chain of custody signed when relinquished and received? Yes  No \_\_\_  
Chain of custody agrees with sample labels? Yes  No \_\_\_  
Samples in proper container/bottle? Yes  No \_\_\_  
Samples intact? Yes  No \_\_\_  
Sufficient sample volume for indicated test? Yes  No \_\_\_  
VOA vials have zero headspace? NA \_\_\_ Yes  No \_\_\_  
Trip Blank received? NA \_\_\_ Yes \_\_\_ No   
All samples received within holding time? Yes  No \_\_\_  
Container temperature? 5.2°C  
pH upon receipt 4.2 pH adjusted \_\_\_\_\_ Check performed by: CR NA \_\_\_

Any NO response must be detailed in the comments section below. If items are not applicable, they should be marked NA.

Client contacted? \_\_\_\_\_ Date contacted? \_\_\_\_\_

Person contacted? \_\_\_\_\_ Contacted by? \_\_\_\_\_

Regarding? \_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Corrective Action: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

# CHROMALAB, INC.


Environmental Services (SDB) (DOHS 1094)

SUBM #: 9609071 REP: PM  
 CLIENT: ACC  
 DUE: 09/12/96  
 REF #: 29586

29586

## Chain of Custody

DATE 9/4/96 PAGE 1 OF 1

PROJ. MGR Dave DeMent  
 COMPANY ACC Environmental Consultants  
 ADDRESS 7977 Capwell Drive, Suite 100  
Oakland, California 94621  
 (PHONE NO.) (510) 638-8400  
 (FAX NO.) (510) 638-8404  
 SAMPLERS SIGNATURE 

### ANALYSIS REPORT

SAMPLE ID.	DATE	TIME	MATRIX	PRESERV.	TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524.2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, B+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)	MTBE	LUFF METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)	TOTAL LEAD	EXTRACTION (TCLP, STLC)	NUMBER OF CONTAINERS	
MW-2	9/4/96	3:15	H <sub>2</sub> O	HCL	X	X	X	X	X	X	X	X	X	X	X	X	X						
MW-3	9/4/96	3:00	H <sub>2</sub> O		X	X	X	X	X	X	X	X	X	X	X	X	X						
MW-4	9/4/96	3:30	H <sub>2</sub> O		X	X	X	X	X	X	X	X	X	X	X	X	X						
MW-5	9/4/96	3:45	H <sub>2</sub> O	↓	X	X	X	X	X	X	X	X	X	X	X	X	X						

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJECT NAME <u>208 Jackson</u>	TOTAL NO. OF CONTAINERS <u>12</u>	HEAD SPACE	
PROJECT NUMBER <u>6249-1.0</u>	REC'D GOOD CONDITION/COLD	CONFORMS TO RECORD	
P.O.# <u>6249-1.0</u>	TAT <input checked="" type="checkbox"/> STANDARD 5-DAY <input type="checkbox"/> 24 <input type="checkbox"/> 48 <input type="checkbox"/> 72 <input type="checkbox"/> OTHER		

RELINQUISHED BY Eloy Cisneros <sup>13:29</sup> 9/30  
 (SIGNATURE) (TIME)  
Eloy Cisneros 9/4/96  
 (PRINTED NAME) (DATE)  
ACC Environmental  
 (COMPANY)

RECEIVED BY Mimie Pak 12:00  
 (SIGNATURE) (TIME)  
Mimie Pak 9-5-96  
 (PRINTED NAME) (DATE)  
Chromalab  
 (COMPANY)

RELINQUISHED BY \_\_\_\_\_ 2. \_\_\_\_\_  
 (SIGNATURE) (TIME)  
 (PRINTED NAME) (DATE)  
 (COMPANY)

RECEIVED BY \_\_\_\_\_ 2. \_\_\_\_\_  
 (SIGNATURE) (TIME)  
 (PRINTED NAME) (DATE)  
 (COMPANY)

RELINQUISHED BY E. Morrow 9-5-96  
 (SIGNATURE) (TIME)  
E. Morrow 9-5-96  
 (PRINTED NAME) (DATE)  
Chromalab  
 (COMPANY)

RECEIVED BY (LABORATORY) Mimie Pak 1810  
 (SIGNATURE) (TIME)  
Mimie Pak 9/5/96  
 (PRINTED NAME) (DATE)  
Chromalab  
 (LAB)

SPECIAL INSTRUCTIONS/COMMENTS: