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Environmental & Water Resources Engineering Groundwater Consultants

May 22, 2000

Larry Seto Alameda County Environmental Health Services 1131 Harbor Bay Parkway Alameda, CA 94502-6577

Well Installation and Quarterly Groundwater Monitoring Report Matheson Trucking 2500 Poplar Street, Oakland, California Fuel Leak Case No. 1306

Dear Mr. Seto:

The enclosed report documents the following activities at the subject property:

- Preparation and permitting for borings and wells,
- Collection and analysis of soil samples from two borings,
- Installation of monitoring wells MW-3 and MW-4,
- Search and repair of existing monitoring well MW-1, and
- Collection and analysis of groundwater samples from four monitoring wells.

If you have any questions, please call me at 510/620-0891.

Sincerely,

Hageman-Aguiar, Inc.

Kenneth B. Alexander, RG, CH

Principal Hydrogeologist

cc: Brett Davis/Matheson Trucking, Elk Grove, California



Environmental & Water Resources Engineering Groundwater Consultants

WELL INSTALLATION AND QUARTERLY GROUNDWATER MONITORING REPORT

(Sampled May 1, 2000)

MATHESON TRUCKING

2500 Poplar Street Oakland, California

May 22, 2000

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I. INTRODUCTION

The site location is the Matheson Trucking facility located at 2500 Poplar Street in Oakland, California (Figure 1). The site is situated on the southern side of 26th Street between Poplar and Union Streets in Oakland. The current layout of the property, along with the location of the previous tank excavations, is shown in Figure 2. The site has been historically operated as a truck maintenance, fueling, and dispatch facility.

This report describes monitoring well installation and groundwater monitoring activities completed in April and May 2000 at 2500 Poplar Street, Oakland, CA. The work was performed in accordance with our workplan, dated February 22, 2000. The Alameda County Environmental Health Services (ACEHS) approved the workplan in their letter of March 2, 2000 (Attachment A).

Background

On August 2, 1994, CNC Services of Antioch, California removed three underground storage tanks (USTs) in two excavations at the site. The tanks consisted of one 1,000-gallon single-wall steel tank (Union Street excavation) and two 4,000-gallon single-wall steel tanks (Poplar Street excavation) (Figure 2). According to information presented in the Underground Tank Closure Plan, filed with the Alameda County Division of Hazardous Materials in July 1994, none of the three USTs had ever been used by Matheson Trucking since they became occupants of the property in 1972. It is assumed that the tanks had contained either gasoline or diesel fuel. Gasoline and diesel were found to be present in the native soil beneath the 4,000-gallon tanks at concentrations of 1,360 mg/kg (ppm) and 44 mg/kg, respectively. Gasoline and diesel were found to be present in the native soil beneath the 1,000-gallon tank at concentrations of 550 mg/kg and 22 mg/kg, respectively.

On January 29, 1996, Hageman-Aguiar, Inc. installed two shallow groundwater-monitoring wells, MW-1 and MW-2, in the vicinity of the former tank excavations (Figure 2). Monitoring well construction details are summarized in Table 1. These monitoring wells were sampled on a quarterly basis from February 1996 to September 1997. Gasoline and diesel constituents were not detected during the last two sampling events.

On September 27, 1999, Eureka Builders of Carson City, Nevada City removed four USTs from a common excavation at the site (Figure 2). The tanks consisted of one 7,000-gallon diesel UST, one 4,000-gallon gasoline UST and one 550-gallon waste oil UST. The tank excavation was over-excavated to 17 feet below ground surface. Laboratory analysis of a groundwater sample collected from within the tank excavation revealed gasoline, benzene, diesel, and motor oil at concentrations of 890 µg/L (ppb), 2.2 µg/L, 3,900 µg/L and 1,600 µg/L, respectively.

Purpose and Scope

The purpose of this investigation was to evaluate the extent of residual groundwater contamination that may have emanated from the underground storage tanks removed in 1999. For this investigation, Hageman-Aguiar, Inc. drilled two borings, collected soil and groundwater samples, and installed two additional shallow groundwater monitoring wells at the site. In addition, we collected groundwater samples from the two existing monitoring wells.

Our scope of work included the following:

- We drilled two borings at 2500 Poplar Street. Soil samples were collected during drilling and analyzed for petroleum constituents.
- We completed the two borings as 2-inch SCH 40 PVC monitoring wells MW-3 and MW-4. We developed the new wells.
- We located monitoring well MW-1, which had been inadvertently buried during repaving at the site. We repaired the well and installed a new well vault.

- We measured water levels in the two new wells and two existing monitoring wells. We surveyed the measuring point elevations on the new wells.
- We collected groundwater samples from the two new wells and two existing monitoring wells. Groundwater samples were analyzed for petroleum constituents.
- We evaluated the hydrogeologic and analytical data.

II. FIELD WORK: INSTALLATION OF MONITORING WELLS

On April 18 2000, two borings (for installation of the wells) were drilled using 8-inch outside diameter hollow-stem augers to a depth of approximately 15 feet. Gregg Drilling & Sampling (Martinez, CA) provided drilling services. The borings were completed as monitoring wells MW-3 and MW-4.

Prior to initiating the field work, we performed the following activities:

- A workplan, dated February 22, 2000, was prepared describing the proposed field work. The ACEHS approved the workplan.
- Monitoring well construction permits were obtained from the Alameda County Public Works Agency (Attachment A).
- A private utility locator was retained to identify subsurface utilities at the proposed boring locations.
- Underground Service Alert (USA) was notified to check for buried utilities at the proposed boring locations.

Equipment Decontamination

Prior to drilling, all drilling equipment, including augers, drill stem, and split barrel samplers, were steam cleaned. All steam cleaning was conducted by Gregg Drilling at their steam-cleaning facility in Martinez, CA. All split-barrel samplers, brass tubes, and other sampling equipment were decontaminated by washing in a water and TSP solution followed by a double water rinse.

Soil Sampling and Analysis

During drilling, soil samples were collected on approximate 5-foot centers by driving a 2-inch split-spoon sampler fitted with three 2-inch by 6-inch long brass liners (California Modified

Sampler). Both ends of the liners selected for chemical analysis were sealed with Teflon film and plastic end caps. The end caps were sealed onto the brass liner with duct tape. All samples were immediately placed on crushed ice and transported under chain-of-custody to the laboratory upon completion of the field work.

Samples were classified in the field in accordance with ASTM D2488-93 (Standard Practice for Description and Identification of Soils, Visual-Manual Procedure). The soil was classified by Kenneth B. Alexander, California Certified Hydrogeologist #512. Soil was also examined for chemical odor and chemical staining. The samples were screened in the field with an organic vapor meter (Thermo Environmental Instruments, Model 580B, equipped with a 10.2 eV photoionization detector, and calibrated to 100-ppm v/v isobutylene). Boring logs are provided in Attachment B. Well locations are shown on Figure 2.

Subsurface Conditions

Subsurface conditions encountered in the borings typically consisted of:

- Lean Clay and Fat Clay, beginning at the ground surface and extending to a depth of approximately 13.5 to 14.5 feet.
- Silt or Sandy Silt, beginning at a depth of 13.5 to 14.5 feet and extending to at least 15 feet (the maximum depth explored).

Groundwater was observed at approximately 14.5 feet below ground level during drilling. After well installation, the depth to groundwater was measured at a depth of approximately 7 feet.

Well Installation and Development

The two borings were completed as monitoring wells to a depth of approximately 15 feet using 2-inch SCH 40 PVC. Each well was screened between depths of 5 to 15 feet (0.010" slots). The

annular space was packed with #2-/16 Monterey sand to about one foot above the top of the screened section. Approximately 1 foot of wetted bentonite pellets was placed upon the sand pack, followed by a neat cement grout seal to the ground surface. The top of the PVC casing was protected by a below-grade, traffic-rated well vault. Well completion data are summarized in Table 1. Copies of the Well Completion Reports (DWR-188) are included in Attachment B.

The wells were developed on April 21 and 24, 2000. During development of the wells, groundwater and silt were removed from each well casing using a PVC bailer. The well development logs are included in Attachment C.

Elevation Survey

On May 3, 2000, Hageman-Aguiar, Inc. surveyed the measuring point elevations of the two new monitoring wells (Attachment D). Elevations were surveyed relative to previously-surveyed elevations for the existing wells. The elevations are based on Mean Sea Level datum.

Waste Generation

During drilling, approximately 0.5 cubic yards of soil cuttings were generated and contained in two steel drums. Analytical results have been submitted to BFI. Upon final approval, the soil will be transported by North American Dirt Solutions (Campbell, CA).

All water removed from the wells during development was drummed and stored onsite. The wastewater is periodically picked up by a licensed waste hauler and transported under manifest to an appropriate recycling and disposal facility.

Monitoring Well MW-1 Search and Repair

During a site visit in September 1999, Hageman-Aguiar, Inc. observed that monitoring well MW-1 had been inadvertently buried during repaving at the site.

On April 24, 2000, Hageman-Aguiar, Inc. located well MW-1 using a backhoe to "pothole" the general location. We inspected the well and found it in good condition. We then extended the well casing to just below the new pavement surface. We installed a new traffic-rated well vault to protect the wellhead.

III. FIELD WORK: GROUNDWATER SAMPLING

Monitoring Well Sampling

On May 1, 2000, Hageman-Aguiar, Inc. sampled four onsite groundwater monitoring wells (MW-1, MW-2, MW-3, and MW-4). The locations of the wells are shown in Figure 2. Prior to sampling, several casing volumes of water were removed from each well. Field conductivity, temperature, and pH were monitored during purging. Purging continued until these parameters stabilized. Groundwater samples were subsequently collected using new, disposable sampling bailers. The water samples were placed inside appropriate 40-ml VOA vials free of any headspace. The samples were immediately placed on crushed ice, then transported under chain-of-custody to the laboratory at the end of the workday.

At the time each monitoring well was sampled, the following information was recorded in the field: (1) depth-to-water prior to purging, using an electrical well sounding tape, (2) observation of any floating product, sheen, or odor prior to purging, using a clear Teflon bailer, (3) pH, (4) temperature, and (5) specific conductance. Copies of the well sampling logs are included in Attachment C.

Wastewater Generation

All water and other liquid waste removed from the wells during purging was drummed and stored onsite. The water and liquid waste is periodically picked up by a licensed waste hauler and transported under manifest to an appropriate recycling and disposal facility.

IV. RESULTS OF WATER LEVEL MEASUREMENTS

Groundwater Flow Direction and Hydraulic Gradient

On May 1, 2000, Hageman-Aguiar, Inc. measured water level in the four monitoring wells (Table 2). Figures 3 presents a contour map for the groundwater beneath the site. As shown in Figure 3, the water level data indicate that groundwater flow in May 2000 was toward the north-northwest direction.

The calculated hydraulic gradient for May 2000 was approximately 0.007 feet/feet (about 37 feet per mile).

Floating Product

Measurements of floating product were performed prior to water level measurements on May 1, 2000. No floating product was observed.

V. ANALYTICAL RESULTS

Laboratory Analysis

All analyses were performed by Entech Analytical Labs, Inc., of Sunnyvale, California, a California State Department of Health Services-certified laboratory. All samples were analyzed in accordance with U.S. EPA recommended procedures.

All soil and groundwater samples were analyzed for:

- Total Petroleum Hydrocarbons as Gasoline (modified EPA Method 8015)
- Benzene, Toluene, Ethylbenzene, and Total Xylenes (EPA Method 8020)
- Methyl Tertiary Buytl Ether (MTBE) (EPA Method 8260)
- Total Petroleum Hydrocarbons as Diesel (modified EPA Method 8015)
- Total Petroleum Hydrocarbons as Motor Oil (modified EPA Method 8015)

In addition, the soil samples were also analyzed for:

- Volatile Organic Compounds (EPA Method 8240)
- Cadmium, Chromium, Lead, Nickel, and Zinc (EPA Method 6010B)

Analytical Results: Soil

Tables 3 and 4 present the analytical results for the soil samples collected on April 18, 2000. Copies of the laboratory reports and chain-of-custody records are provided in Attachment E.

In general, the soil analytical results are unremarkable. As shown in Table 3, petroleum constituents were not detected in either of the soil samples, except for motor oil (at a concentration of 220 mg/kg) in the sample from the boring for well MW-3.

Analytical Results: Groundwater

Table 5 presents the analytical results for the groundwater samples collected on May 1, 2000. Copies of the laboratory reports and chain-of-custody records are provided in Attachment F.

In general, the groundwater analytical results are unremarkable. As shown in Table 5, petroleum constituents were not detected in any of the groundwater samples, except for diesel (at a maximum concentration of 320 μ g/L) in the samples from wells MW-1 and MW-4.

VI. DATA ANALYSIS AND RECOMMENDATIONS

The results of the soil sampling revealed a relatively low concentration of motor oil in one of the soil samples. Diesel, gasoline, BTEX, and MTBE were not detected in either of the soil samples. The detection of motor oil in one of the soil samples is not indicative of a significant tank release, nor does the measured soil concentration represent a significant risk to human health or the environment.

The results of the groundwater sampling revealed relatively low concentrations of diesel in monitoring wells MW-1 and MW-4. Gasoline, BTEX, and MTBE were not detected in any of the groundwater samples. No petroleum constituents were detected in downgradient monitoring well MW-3. Groundwater analytical results are shown graphically on Figure 4.

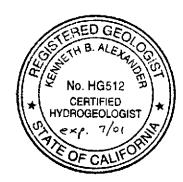
The detection of diesel in two of the groundwater samples is not indicative of a significant tank release, nor do the measured groundwater concentrations represent a significant risk to human health or the environment. We believe that contaminant migration is limited due to the very low permeability of the clay and silt encountered beneath the site. The detected motor oil and diesel will attenuate with time, primarily due to intrinsic biodegradation.

On the basis of the foregoing, we do not believe the detected petroleum hydrocarbons represent a significant risk to human health or the environment and we do not believe that further investigation or remediation is warranted. We recommend that groundwater monitoring be performed quarterly for one year. If, at that time, the analytical results do not show evidence of petroleum contamination, we will recommend the site for regulatory closure.

WELL INSTALLATION AND QUARTERLY GROUNDWATER MONITORING REPORT

Matheson Trucking
2500 Poplar Street, Oakland, California

May 22, 2000



K.B. Olef

Kenneth B. Alexander, RG, CH Principal Hydrogeologist Hageman-Aguiar, Inc. #HG 512

TABLE 1.

Monitoring Well Completion Data

Matheson Trucking, 2500 Poplar Street, Oakland, California

Well Number:	MW-1	MW-2	MW-3	MW-4
Date of Installation	January 29, 1996	January 29, 1996	April 18, 2000	April 18, 2000
Installed By	Hageman- Aguiar, Inc.	Hageman- Aguiar, Inc.	Hageman- Aguiar, Inc	Hageman- Aguiar, Inc.
Installation Method	HSA	HSA	HSA	HSA
Boring Diameter (inches)	8	8	8	8
Measuring Point Description	Top of PVC casing	Top of PVC casing	Top of PVC casing	Top of PVC casing
Measuring Point Elev. (feet)	9.19	8.03	8.82	8,80
Approximate Seal Depth (feet)	2.5	2.5	4	4
Total Depth (feet)	15	15	15	15
Casing Diameter (inches)	2	2	2	2
Screened Interval (ft) - depth	3 to 15	3 to 15	5 to 15	5 to 15
elevation	6.2 to -5.8	5.0 to -7.0	3.8 to -6.2	3.8 to -6.2
Sand Pack Interval (ft) – depth	2.5 to 15	2.5 to 15	4 to 15	4 to 15
elevation	6.7 to -5.8	5.5 to7.0	4.8 to -6.2	4.8 to -6.2
Screen Specifications	SCH 40 PVC, 0.010-in slots	SCH 40 PVC, 0.010-in slots	SCH 40 PVC, 0.010-in slots	SCH 40 PVC 0.010-in slots

- (a) Elevations referenced to Mean Sea Level.
- (b) Depths measured relative to ground surface.
- (c) HSA = Hollow-stem augers.

TABLE 2.

Groundwater Elevation Measurements – May 1, 2000 Matheson Trucking, 2500 Poplar Street, Oakland, California

Well Number	Measuring Point Elevation (feet)	Depth to Water (feet)	Product Thickness (feet)	Elevation Adjustment (feet)	Groundwater Elevation (feet, MSL)
MW-1	9.19	6.30	none	0.00	2.89
MW-2	8.03	5.09	none	0.00	2.94
MW-3	8.82	7.25	none	0.00	1.57
MW-4	8.80	7.02	none	0.00	1.78

- (a) Measuring point is top of PVC casing.
- (b) Elevations referenced to top of casing elevation of former Findley Adhesives well MW-2 at 2433 Poplar Street. MW-2 TOC elevation is 8.03 feet above Mean Sea Level.

TABLE 3.

Soil Analytical Results for April 18, 2000 – Organic Compounds
Matheson Trucking, 2500 Poplar Street, Oakland, California

Boring No.	Sample Depth (feet)	TPH as Diesel (mg/kg)	TPH as Motor Oil (mg/kg)	TPH as Gasoline (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl- benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE (mg/kg)	Volatile Organic Compounds (mg/kg)
MW-3	8 to 8.5	<10	220	<1	<0.005	<0.005	<0.005	<0.005	<0.005	<5 to <20
MW-4	8 to 8.5	<1	<13	<1	<0.005	<0.005	<0.005	<0.005	<0.005	-

EPA Method No.	Modified 8015	Modified 8015	Modified 8015	8020	8020	8020	8020	8260B	8240
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- (a) "<" = Parameter below laboratory method reporting limit. "-" = Not analyzed.
- (b) Depths measured relative to ground surface.

TABLE 4.

Soil Analytical Results for April 18, 2000 – Metals Matheson Trucking, 2500 Poplar Street, Oakland, California

Boring No.	Sample Depth (feet)	Total Cadmium (mg/kg)	Total Chromium (mg/kg)	Total Lead (mg/kg)	Total Nickel (mg/kg)	Total Zinc (mg/kg)
MW-3	8 to 8.5	<5	36	40	20	70
MW-4	8 to 8.5	=	-	<1	_	_

EPA Method No.	6010B	6010B	6010B	6010B	6010B
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- (a) "<" = Parameter below laboratory method reporting limit. "-" = Not analyzed.
- (b) Depths measured relative to ground surface.

TABLE 5.

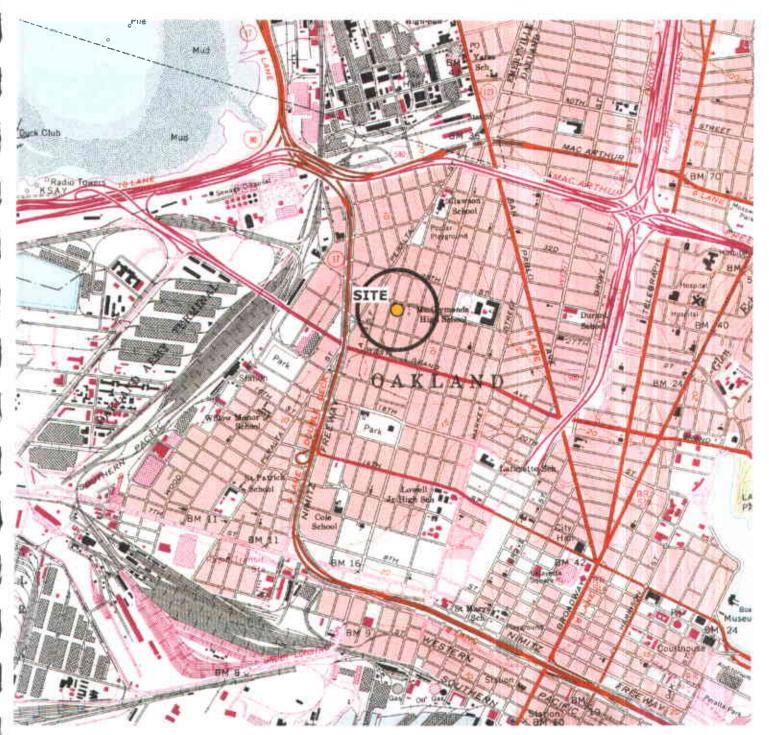
Groundwater Analytical Results – May 1, 2000

Matheson Trucking, 2500 Poplar Street, Oakland, California

Well Number	TPH as Diesel (μg/L)	TPH as Motor Oil (μg/L)	TPH as Gasoline (μg/L)	Benzene (μg/L)	Toluene (μg/L)	Ethyl- benzene (µg/L)	Total Xylenes (μg/L)	MTBE (μg/L)
MW-1	76	<250	<50	<0.5	<0.5	<0.5	<0.5	<5
MW-2	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<5
MW-3	<50	<250	<50	<0.5	<0.5	<0.5	<0.5	<5
MW-4	320	<250	<50	<0.5	<0.5	<0.5	<0.5	<5

Drinking Water	100	none	5	1	150	700	1,750	13
Criteria	(T&O)		(T&O)	(MCL)	(MCL)	(MCL)	(MCL)	(MCL)
EPA Method No.	Modified 8015	Modified 8015	Modified 8015	8020	8020	8020	8020	8260B

- (a) "<" = parameter below laboratory method reporting limit.
- (b) Drinking water criteria is for comparison purposes only. Source: Jon B. Marshack, A Compilation of Water Quality Goals, Central Valley Regional Water Quality Control Board, Sacramento, CA, March 1998. T&O = Taste and Odor threshold. MCL = California Primary Maximum Contaminant Level. Concentrations exceeding the drinking water criteria in bold.



Basemap: USGS 7.5-minute topographic quadrangle, Oakland West, Calif., Photorevised 1980.

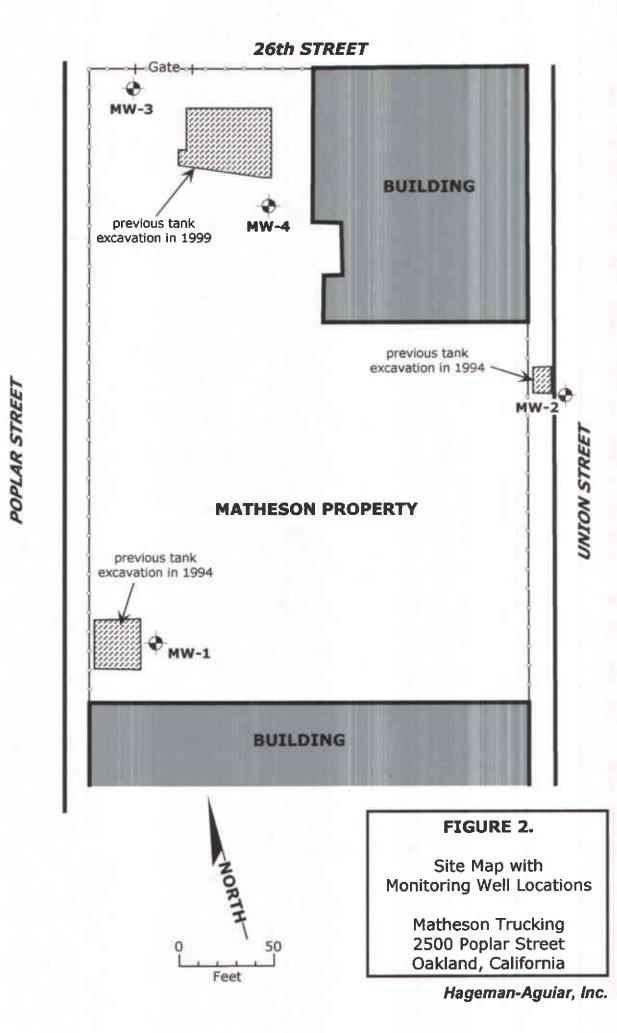


FIGURE 1.

Location Map

Matheson Trucking 2500 Poplar Street Oakland, California

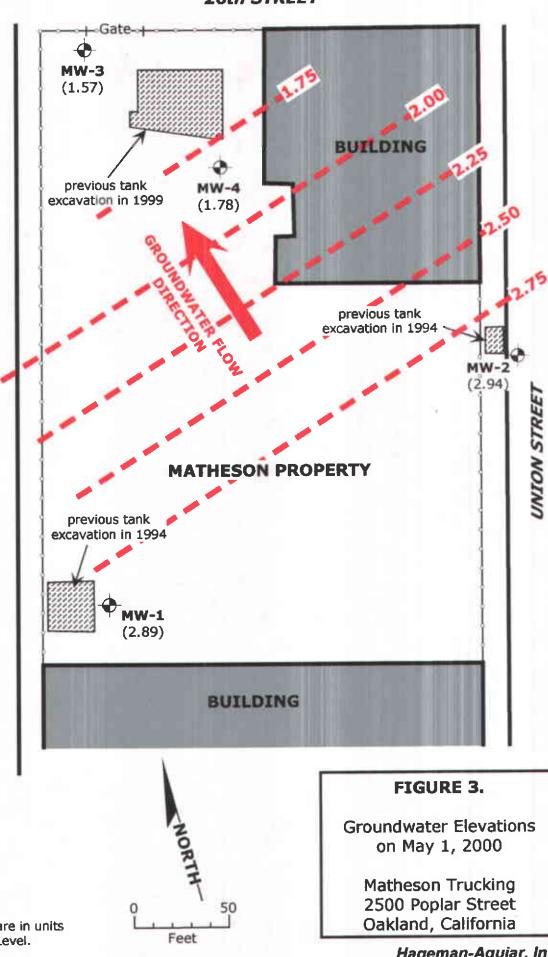
Hageman-Aguiar, Inc.



Former Findley MW-2

(abandoned)

FINDLEY ADHESIVES WAREHOUSE



Note: Groundwater elevations are in units of feet above Mean Sea Level.

POPLAR STREET

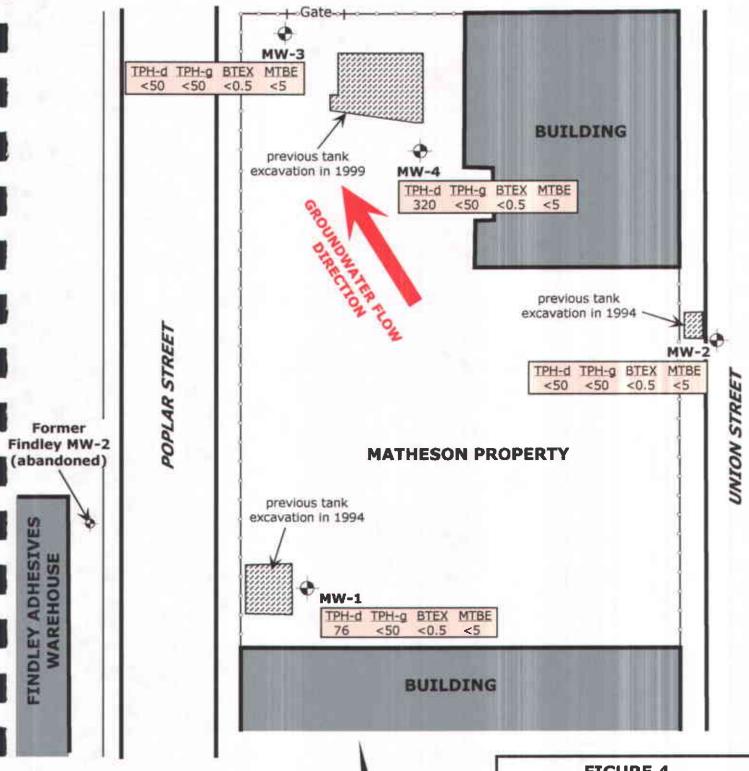
Former Findley MW-2

(abandoned)

FINDLEY ADHESIVES WAREHOUSE

Hageman-Aguiar, Inc.

26th STREET



Notes:

- (1) Units are ug/L (ppb)
- (2) TPH-d = Diesel
- (3) TPH-g = Gasoline
- (4) BTEX = Benzene, Toluene, Ethylbenzene, and Total Xylenes
- (5) MTBE = MTBE by EPA Method 8260

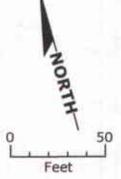
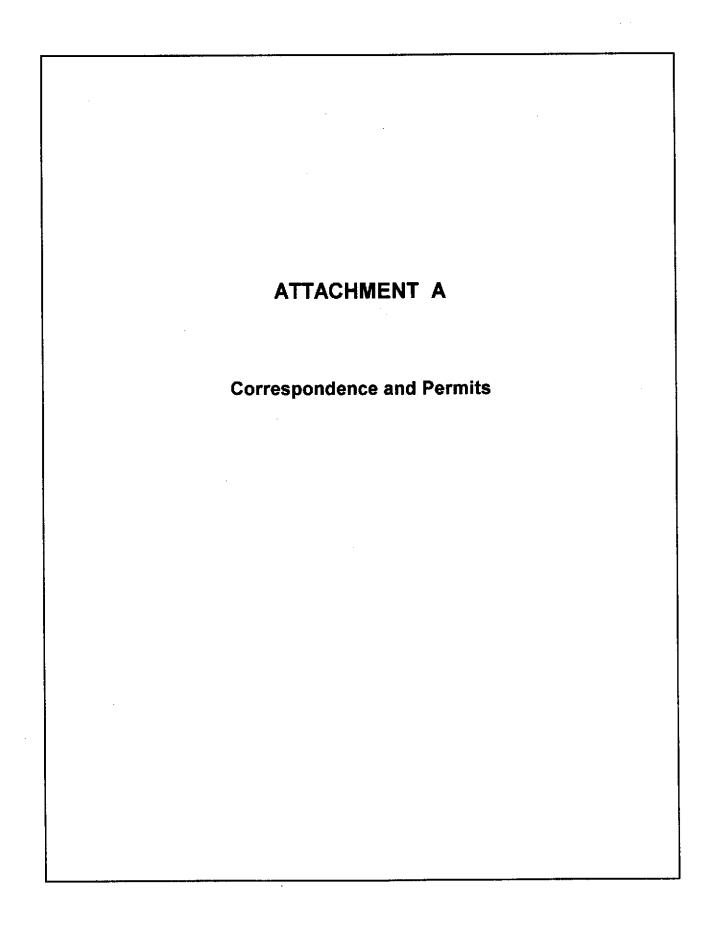


FIGURE 4.

Groundwater Analytical Results for May 1, 2000

Matheson Trucking 2500 Poplar Street Oakland, California

Hageman-Aguiar, Inc.



ALAMEDA COUNTY

HEALTH CARE SERVICES





DAVID J. KEARS, Agency Director

March 2, 2000

ENVIRONMENTAL HEALTH SERVICES

7(3) Harbur Bay Parkway Builte 250 Atameda, 0 4 3 (4.02 6577 (510) 567-67(0 (510) 337-3335 (FAIK)

Ms. Laurie Johnson Matheson PO Box 970 Elk Grove, CA 95759 STID 1306

RE: Matheson Trucking, 2500 Poplar Street, Oakland, CA 94607

Dear Ms. Johnson:

I have reviewed the Proposed Workplan for Monitoring Well Installation dated February 22, 2000 that was prepared by Hageman-Aguiar, Inc. It is acceptable.

All soil cuttings, water and liquid waste generated during the implementation of this workplan should be disposed of within 30 day after the receipt of the laboratory analysis. This requirement is also for all excavated soil and groundwater generated during the underground tank removal in September 1999. Please send a copy of the disposal receipt or manifest to this office.

If you have any questions, please contact me at (510) 567-6774.

Sincerely,

Larry Seto

Sr. Hazardous Materials Specialist

Cc: Ken Alexander, Hageman-Aguiar, 11100 San Pablo Avenue, Suite 200-A, El Cerrito, CA 94530

File



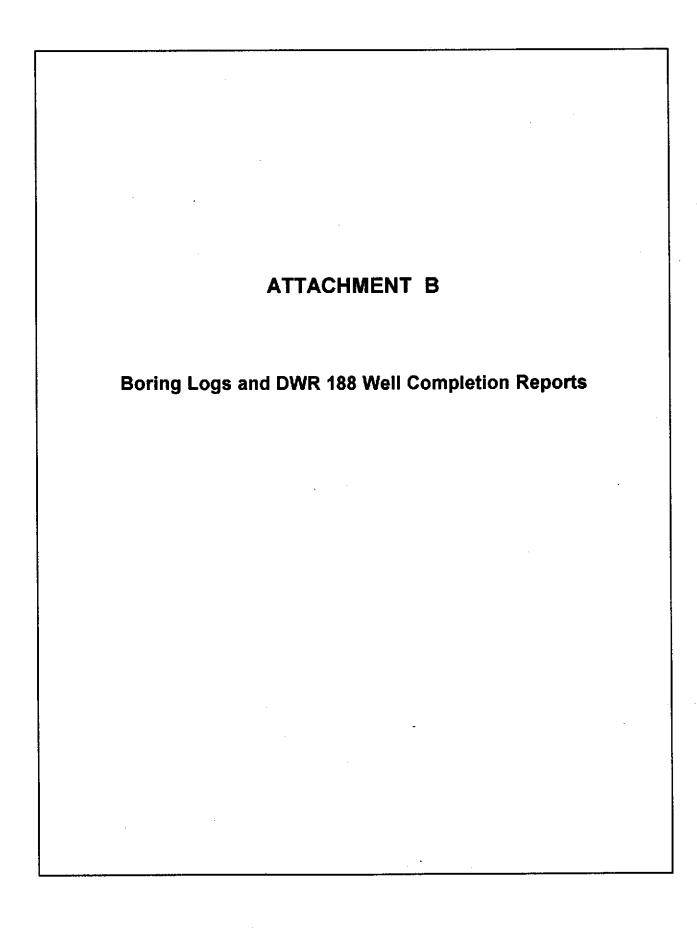
ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD, CA. 94544
PHONE (510) 670-5594

PAX (510) 782-1939

DRILLING PERMIT APPLICATION .

FOR APPLICANT TO COMPLETE	FOR OFFICE USE		
AFOR B-ules Street Askland CA	PERMIT NUMBER WOO - 155		
LOCATION OF PROJECT 2500 Poplar Street, Oakland, CA	PERMIT NUMBER WOLU SUMMER		
(see attached map)	APN		
California Coordinates Sourceft. Accuracy #ft.	PERMIT CONDITIONS		
CCN R. CCE A.			
APN 005-439-012-01	Circled Permit Requirements Apply		
CLIENT	(A) GENERAL		
Name Matheson Trucking	1) A permit application should be submitted so as to		
Address PO Box 970 Phone800/455-7678	arrive at the ACPWA office five days prior to		
City Elk Grove, CA Zip 95759	proposed starting date.		
	2 Submit to ACPWA within 60 days after completion of		
APPLICANT Name Kenneth B. Alexander, RG, CH	permitted work the original Department of Water		
Hageman-Agular, Inc. Fax 510/520-0894	Resources Well Completion Reports		
Address 11100 San Pablo Ave., #200A Phone 510/620-0691			
City El Cerrito, CA Zip 94530	Permit is vold if project not begun within 90 days of		
	approval date.		
TYPE OF PROJECT	B. WATER SUPPLY WELLS		
Well Construction Quotechnical Investigation	1. Minimum surface seal thickness is two inches of		
Cothodic Protection D General D	cement grout placed by tremis.		
Water Supply D Contamination D	2. Minimum seal depth is 50 feet for municipal and		
Monitoring M Well Destryction (1)	industrial walls or 20 feet for domestic and imigation		
PROPOSED WATER SUPPLY WELL USE	wells unless a lesser depth is specially approved. GROUNDWATER MONITORING WELLS		
New Domestic 3 Replacement Domestic D	INCLUDING PIEZOMETERS		
Municipal D Irrigation 3	Minimum surface seal thickness is two inches of		
Industrial G Other D	cement grout placed by tremie.		
	2. Minimum scal depth for monitoring wells is the		
drilling method:	maximum depth practicable or 20 feet.		
Mud Rotary 🗆 - Air Rotary 🗈 - Augèr - 頁	D GEOTECHNICAL		
Cable C Other 13	Backfill bare hale with compacted cuttings or heavy		
Service of the servic	benicalite and upper two feet with compacted material.		
DRILLER'S LICENSE NO. C57 #485165 (Gregg Drilling & Testing)	In areas of known or suspected contemination, tremied		
WELL PROJECTS	coment grows shall be used in place of compacted cultings. E. CATHODIC		
Drift Hole Diameter 8 in, Maximum	Fill hole above snode zone with concrete placed by tramis.		
Casing Diameter 2 in Depth 14.5 ft.	F. WELL DESTRUCTION		
Serface Sent Depth 3 ft. Number 2	See attached.		
GEOTECHNICAL PROJECTS	G. SPECIAL CONDITIONS		
Number of Borings Maximum			
Hole Diameter in Depth ft.	1 A -		
· ————————————————————————————————————	~ 1000		
ESTIMATED STARTING DATE April 17, 2000	Charles Se La Miller		
ESTIMATED COMPLETION DATE _April 18, 2000	APPROVED / WUYYY I DOOD DATE TU		
I hereby agree to comply with all requirements of this permit and			
Alameda County Ordinance No. 71-68.			
APPLICANT'S LB. Oly DATE March 30, 2000	•		
MIGNATURE A. D. Olley C. DATE March 30 2000			
UNI = Water 30, 2000			





HAGEMAN-AGUIAR, INC.

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

(510)620-0891 (510)620-0894 (fax)

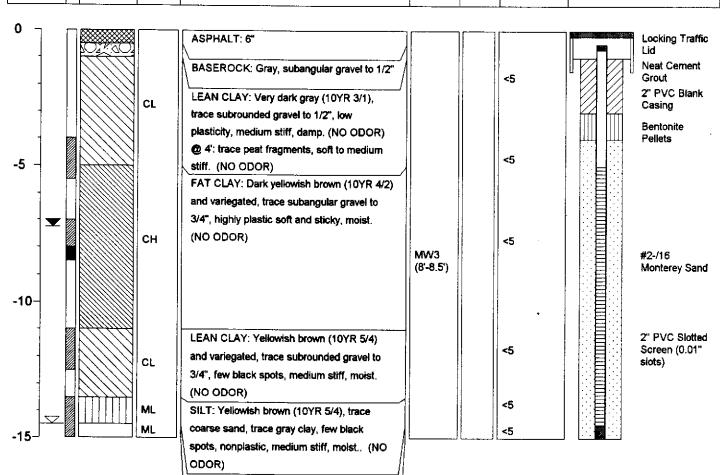
FIELD BOREHOLE LOG

BOREHOLE NO.: MW-3

TOTAL DEPTH:

15'

PROJEC	CT INFORMATION	DRILLING INFORMATION
PROJECT:	Matheson Trucking	DRILLING CO.: Gregg Drilling & Testing
JOB NO.: 0151 SITE LOCATION: 2500 Poplar Street		Martinez, CA
		RIG TYPE: Rhino
	Oakland, CA	METHOD OF DRILLING: 8" Hollow Stem Augers
LOGGED BY: Kenneth B. Alexander, RG, CH		SAMPLING METHODS: 2" split barrel sampler
DATE DRILLED:	4-18-00	HAMMER WT./DROP: none
NOTES: sunny, mild		 ✓ Water level during drilling ✓ Water level in completed well
DEPTH SOIL SYMBOLS	USCS SOIL DESCRIPTION	N SAMPLE Blows PID WELL NUMBER (per 6") (ppm) COMPLETION



SANDY SILT: Yellowish brown (10YR 5/4), fine sand, 15% subrounded gravel to 1/2", trace coarse sand, nonplastic, medium stiff,

moist to wet. (NO ODOR)



HAGEMAN-AGUIAR, INC.

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

(510)620-0891 (510)620-0894 (fax)

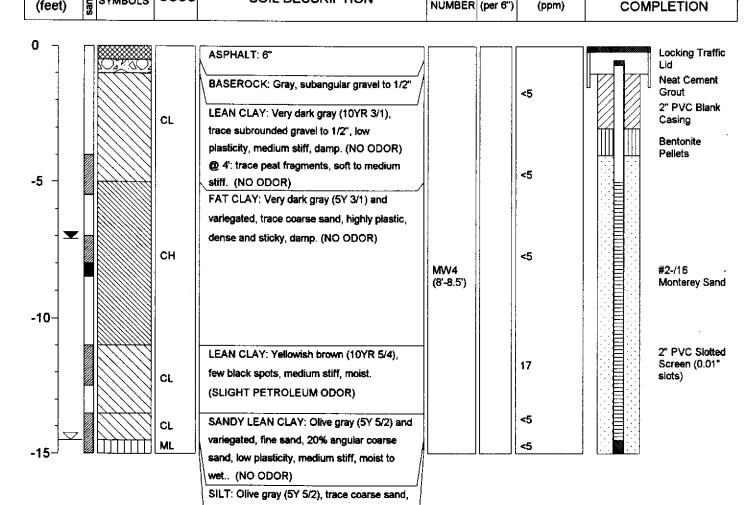
FIELD BOREHOLE LOG

BOREHOLE NO.: MW-4

TOTAL DEPTH:

15'

PROJE	CT INFORMATION	DRILLING INFORMATION
PROJECT:	Matheson Trucking	DRILLING CO.: Gregg Drilling & Testing
JOB NO.:	0151	Martinez, CA
SITE LOCATION:	2500 Poplar Street	RIG TYPE: Rhino
	Oakland, CA	METHOD OF DRILLING: 8" Hollow Stem Augers
LOGGED BY:	Kenneth B. Alexander, RG, CH	SAMPLING METHODS: 2" split barrel sampler
DATE DRILLED:	4-18-00	HAMMER WT./DROP: none
NOTES: sunny, mild		
DEPTH & SOIL	USCS SOIL DESCRIPTIO	N SAMPLE Blows PID WELL N NUMBER (per 6") (ppm) COARD ETION



10% subrounded gravel to 3/4", nonplastic, medium stiff, moist to wet. (NO ODOR)



Environmental & Water Resources Engineering Groundwater Consultants

May 17, 2000

Frank L. Codd Alameda County Public Works Agency 399 Elmhurst Street Hayward, CA 94544

> Submittal of DWR 188 Reports ACPWA Permit Number W00-155 Matheson Trucking 2500 Poplar Street, Oakland, California

Dear Mr. Codd:

Attached are the completed Water Well Driller Reports (DWR 188) for new monitoring wells MW-3 and MW-4 at the subject property.

I understand that the County will forward copies of the attached reports to the California Department of Water Resources in Sacramento, CA.

If you have any questions, please call me at 510/620-0891.

Sincerely,

Hageman-Aguiar, Inc.

X.B. Oly -

Kenneth B. Alexander, RG, CH

Principal Hydrogeologist

CONFIDENTIAL

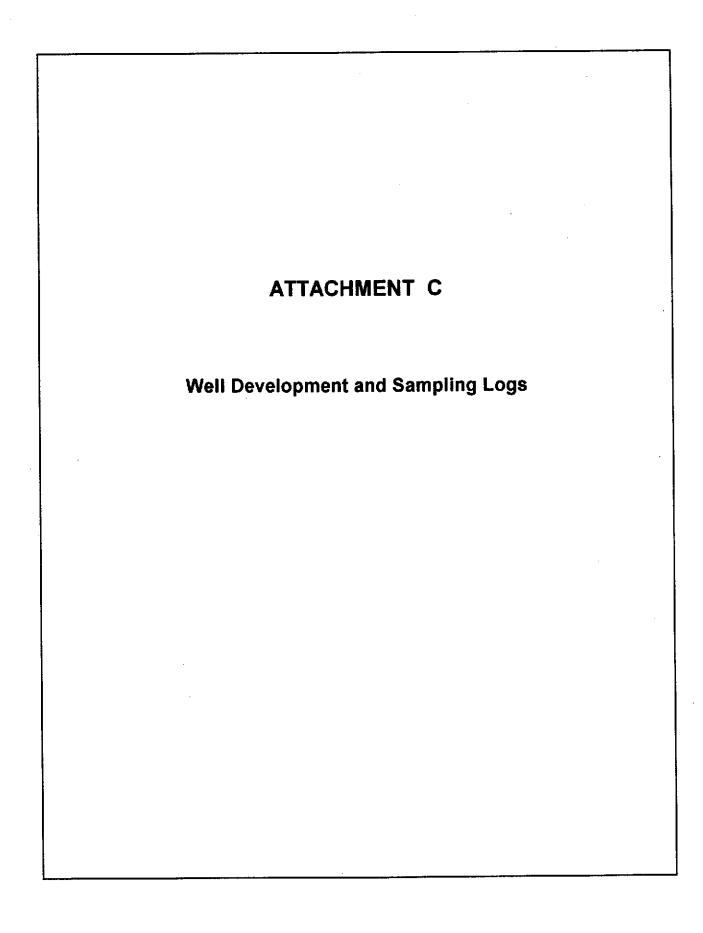
STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED



WELL DEVELOPMENT LOG

Projec	t/No.		•	Page of	4
Well No	ocation <u>Mathe</u> o. <u>MW-4</u> r <u>Sunny, 6</u>		Time	Date <u>04/2</u> e Began <u>14:35</u> npleted <u>15:46</u>	<u> </u>
		EVACUATION DA	ATA		
Description	of Measuring Point	(MP) T.O.C.			
	ed Depth of Well Be		Dia	meter Casing <u>2"</u>	
	= Water Column	in Well <u>6,64</u>			
Gallons in	Casing <u>1.12</u>	+ Annular Space (30% porosity		= Total Gallons_	
		C	allons Pumped Dur	ing Development	6
Evacuation	Method <u>PVC</u>	Bailer	· · ·		
	DEVELO Tan nce <u>5ilty u</u>		or <u>None</u>		
Time	Gallons	Temperature	Conductivity	 PH	Clarity / Silt Content
14:40	Surged !	5 minutes			
14:42		18.0	1268	6.98	Tan high
14:44	Surged ?	<u>minutes</u>			
14:46	4	17.9	1809	7.10	tan dewatered <u>very hig</u> h
14:56	Allowed +	o <u>recharge</u>	10 minute	s - insuf	ficient water
	surged :				
15:40	6	17.7	1914	7.14	Tan dewatere very high
Develo Field Pe	PMENT C	enfinishe	ed,		

WELL DEVELOPMENT LOG

Project/No.

Page <u>2</u> of <u>4</u>

Well No	Date <u>04/21/</u> 2 Time Began <u>15:13</u>	000
Weather Sunny, 60°-70°	Completed 15:46	
EVACUATION DATA		
Description of Measuring Point (MP) T.O.C.		
Total Sounded Depth of Well Below MP 14,76'+0,27'		
- Depth to Water Below MP <u>6.59'</u>	Diameter of Casing	
= Water Column in Well <u>8,44'</u>		
Gallons in Casing 1.43 + Annular Space(30% porosity)	= Total Gallons	
Gallons P	umped During Development 6	
Evacuation Method PVC Bailer		
DEVELOPMENT / FIELD PARAM	METERS	
Color Tan Odor Fa:	nt hydrocarbon	
Appearance <u>Silty Water - no Si</u>		
	heen	
Time Gallons Temperature Conduct	С	larity / lt Content
	Civity pH Si	
Time Gallons Temperature Conduct 15:18 Surged 5 Minutes	Civity pH Si	
Time Gallons Temperature Conduct 15:18 Surged 5 Minutes	C:ivity pH Si	lt Content
Time Gallons Temperature Conduct 15:18 Surged 5 Minutes 5:20 2 18.4 15 5:23 Surged 2 Minutes	Civity pH Si	lt Content
Time Gallons Temperature Conduct 5:18 Surged 5 Minutes 5:20 2 18.4 15 5:23 Surged 2 Minutes 5:25 4 17.8 18 5:46 Allowed to recharge 2	Civity pH Si	an med
Time Gallons Temperature Conduct 5:18 Surged 5 Minutes 5:20 2 18.4 15 5:23 Surged 2 Minutes 5:25 4 17.8 18 5:46 Allowed to recharge 2 5:48 Surged 2 Minutes	Civity pH Si 03 7.07 To 343 7.54 To 80 minutes	an med

. WELL DEVELOPMENT LOG

Project/No			Page <u>3</u> of <u>4</u>	<u></u>
Site Location <u>Mathe</u> Well No. <u>MW-3</u> Weather <u>Sunny</u> 6		Tii	Date <u>04/24</u> me Began <u>09:0</u> ompleted <u>09:3</u>	<u> </u>
	EVACUATION D	ATA		
Description of Measuring Poin	t (MP) <u>T.O.C</u>			
Total Sounded Depth of Well B	elow MP <u>14.76</u>			
- Depth to Water B	elow MP	· · · · · · · · · · · · · · · · · · ·	ameter Casing	
= Water Column	in Well <u>7.9:</u>	<u>5'</u>		
Gallons in Casing <u>1.34</u>	+ Annular Spa (30% porosis		= Total Gallons_	
		Galions Pumped Du	ring Development_	5.5
Evacuation Method PUC	Bailer			
DEVEL	OPMENT / FIFI	_D PARAMETERS		
	•			
color Tan				
Appearance <u>Silty u</u> Time Gallons	Temperature		рн	Clarity / Silt Content
09:06 Surged	5 minutes	·		Tun
09:08 2	18.0	893	6.94	very high
09:11 4	18.0	1148	7.31	Tan high
09:32 Allowed	to rechai	rge 20	m <u>inutes</u>	
09:34 Surged	2 minute			dewatered
09137 5.5	17.8	1117	7.43	Ten very high

Field Personnel

WELL DEVELOPMENT LOG

Proje	ect/No.		_	Page of	<u>4</u>
	Location <u>Meth</u>	eson - Oak	land	Date <u>04/2</u> 4	1/2000
Well I	No. <u>M W - 4</u>			10:0	<u>_</u>
Weath	er <u>Sunny, i</u>	65°-75°		Time Began <u>10:0</u> Completed <u>10:1</u>	
		EVACUATION [DATA		
Description	n of Measuring Poir	nt (MP) TiOiC	,		· · · · · · · · · · · · · · · · · · ·
Total Sour	ded Depth of Well E	Below MP <u>15.02</u>		Di	
,	- Depth to Water	Below MP <u>6.2</u>		of Casing	
	= Water Column	in Well	6'		
Gallons in	Casing	_ + Annular Spa (30% porosi		= Total Gallons_	
			Gallons Pumped	During Development	4
Evacuation	Method PUC	Builer			
					·
	DEVEL	OPMENT / FIE	LD PARAMETER	RS	
Color _	Tan	0	dor <u>None</u>		
Appeara	nce <u>5://y</u>	Water -	No shee	<u>n</u>	_
Time	Gallons	Temperature	Conductivity	рĦ	Clarity / Silt Content
10:11	surged	5 minut	<u>e 5</u>		
10:13		17.6	1734	7.06	very high Tan
10:16	4	17.8	1809	7.04	Tan dewatered very high
				_	

Field Personnel

Hageman-Aguiar, Inc.

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

Project: Matheson - Oakland

Date: 05/01/2000

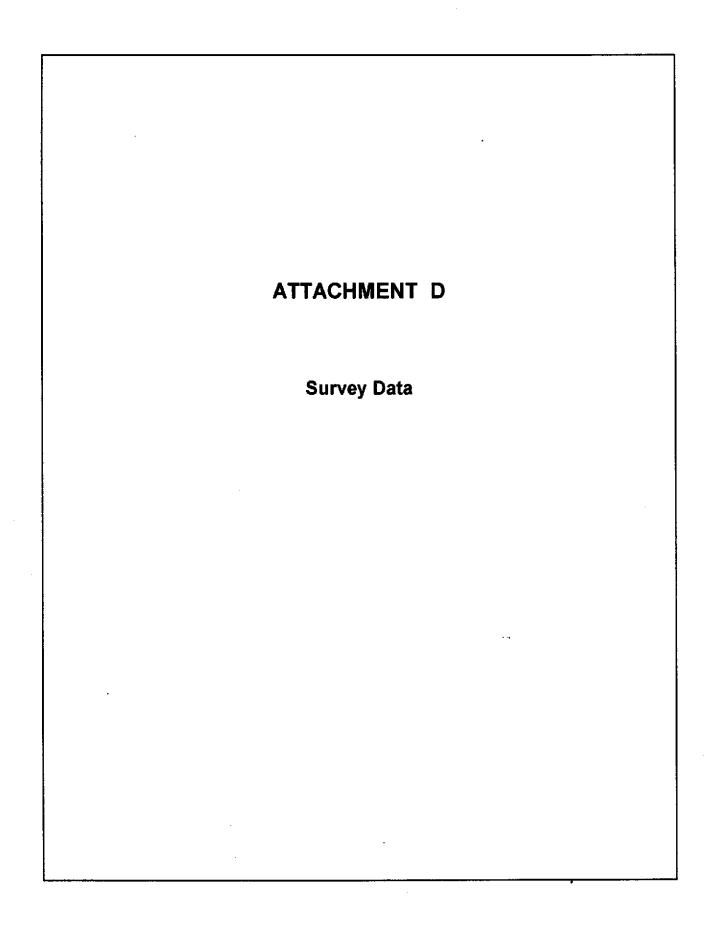
WELL#	DEPTH TO WATER	PRODUCT	WELL DEPTH	PRODUCT REMOVED	WATER REMOVED	COMMENTS
MW-1	6.30'	none	15.71'		7.5 9 91	
MW-2	5.09'	none	14.24'		6 gal	· !
MW-3	7,25	none	15.12'	<u> </u>	2,5 991	
Mw-4	7.02'	none	15,29'		2.5gal	
	1					
						
	<u> </u>					
	:					
	!	<u>. </u>				
	-					
	1					
	· · · · · · · · · · · · · · · · · · ·					
	:	······································		77.44		
	·					
	·					
	· ·					
	:					
	÷					

Site Locati	on Mathee	50n - Oaklan	<u>d</u>	Page	of <u>4</u>
Well Numb	ber <u>MW-1</u>			Date <u>05/0</u>	1/2000
Weather	High Cla	ruds, 60°- 7	000	Time Began	5:44
Sampling I		w:lson		Completed	5:56
		EVAC	UATION DATA	Α	
Description	n of Measuring Point	(MP): <u>T.O.C.</u>			
Total Sour of Well Be	nded Depth low MP	15.44'+0.27	•	Sample	Collected
- Depth to	o Water Below MP	6.30'	Vol	atile Organics (VOA's)	3
= Water	Column in Well	9.41'		ter Amber Glass	
x Casing	Diameter Multiplier	0.169	Z" Pol	yethylene (plastic)	
= Gallons	s in Casing	1.59	Oth	er _	
Gallons Pumped	Prior to Sampling	7,5	Sar	nples Filtered	no
Evacuation	n Method: PVC Bailer	X	Sampl	e Method: Evacuation Bailer	×
	Acrillyc Bailer			Disposable Bailer	
	Pump			Pump	
	Other			Direct	
		SAMPLING DAT	ΓA/FIELD PA	RAMETERS	
Inspection for Free F (thickness to 0.01 for		e, clear			
Time	15:47	15,49	15:51	15:54	15:56
Gals Removed	1.5	3	<u> 4,5</u>	6	7.5
Temperature	17.7	17.5	17.5	17.4	17.4_
Conductivity	1057	1230	1306	1372	
рН	6,69	6,72	6.75	6.81	6.83
Color / Odor	<u> Tan</u>	Tan	Tan	<u> </u>	Tan
Turbidity	med	<u>med</u>	<u>med</u>	<u>med</u>	med
Other		 			
Comments:		·			<u>-</u> ,,,,

Site Local	tion <u>Nathe</u>	50n - Oakla	end	Page	of <u>4</u>
Well Num	nber <u>MW-2</u>			Date <u>05/0</u>	1/2000
Weather	High Clo	uds, 600-70	20	Time Began <u>//</u>	6:24
Sampling	Personnel R	Wilson		Completed/&	6:33
		EVA	CUATION DAT	A	
Description	on of Measuring Point	(MP): <u>T.O.C.</u>	· · · · · · · · · · · · · · · · · · ·		
Total Sou of Well B	inded Depth elow MP	13,97'+0,2	7'	Sample	e Collected
- Depth	to Water Below MP	5,09'	, Vo	latile Organics (VOA's)	
= Water	Column in Well	9.15	1 L	iter Amber Glass	
x Casing	Diameter Multiplier	0,169	2" Po	lyethylene (plastic)	
= Galion	s in Casing	1,55	Oti	ner _	
Gallons Pumped	f Prior to Sampling	6	Sa	mples Filtered	no
Evacuatio	on Method: PVC Bailer	<u> </u>	Samp	le Method: Evacuation Bailer	X
	Acrillyc Bailer			Disposable Bailer	
	Pump .			Pump	
	Other			Direct	
		SAMPLING DA	TA/FIELD PA	RAMETERS	
Inspection for Free I (thickness to 0.01 for		e, clear	·	- 1	
`	16:26	16:28	16:31	16:33_	
Gais Removed	1,5	<u>3</u>	4,5	6	
Temperature	19.2	19.2	19.1		
Conductivity	1068	1056	1019	1018	
рН	7.00	6.94	6.94	6.95	
Color / Odor	Gray	Gray	Tan	Tan	
Turbidity	med	med	med	med	
Other	<u></u>				
Comments:					

Site Locati	ion <u>Mathes</u>	on - Oaklan	<u>d</u>	Page 3	of <u>4</u>
Well Numi	ber <u>MW-3</u>			Date <u>05/0</u>	1/2000
Weather	High Clo	uds, 60-70	0	Time Began	6:57
Sampling	Personnel	Wilson		Completed/	7:13
		EVAC	CUATION DAT	ГА	
Descriptio	n of Measuring Point	(MP): T.O.C.			
Total Sour of Well Be	nded Depth slow MP	14.85'+ 0.2	7'	Sample	e Collected
- Depth to	o Water Below MP	<u> 7,25′</u>	, V	olatile Organics (VOA's)	3
= Water	Column in Well	7.87'	1	Liter Amber Glass	
x Casing	Diameter Multiplier	0.169	≥" P	olyethylene (plastic)	
= Gallons	s in Casing	1,33	0	ther _	
Gallons Pumped	Prior to Sampling	2.5	s	amples Filtered	
Evacuation	n Method: PVC Bailer	×	Sam	ple Method: Evacuation Bailer	X
	Acrillyc Bailer			Disposable Bailer	
	Pump			Pump	
	Other			Direct	
Inspection for Free F	Product: Non	SAMPLING DA		ARAMETERS	
(thickness to 0.01 fo	•	17:01	17:03	sample 17:13	
Time	16:59				
Gals Removed			2,5	<u> 2.5</u>	
Temperature	18.1	18.1	18.0		
Conductivity	_1200	1256	1278		
pH	7.00	<u>7.08</u>	7.16	7,29	
Color / Odor	Tan	Tan	Tan	<u> </u>	
Turbidity	med	high_	high	high	
Other		· -	dewater	ed	
Comments:	·				

Site Loca	tion <u>Mathe</u>	<u>son - Oakla</u>	nd	Page	of <u>4</u>
Well Nun	nber <u>M <i>W</i>-4</u>			Date <u>05/01</u>	12000
Weather	High Clo	uds, 60°-7	00	Time Began:	
Sampling		Wilson		Completed	
		EVA	CUATION DATA	\	
- Description	on of Measuring Point	(MP): <u>T.O.C</u>	·		
Total Sou of Well B	inded Depth elow MP	15.02'+0,27	• '	Sample	Collected
- Depth	to Water Below MP	7.02'	Vola	tile Organics (VOA's)	3
= Water	Column in Well	8,27	1 Lit	er Amber Glass	
x Casing	g Diameter Multiplier	0.169	a" Poly	rethylene (plastic)	
= Gallon	ns in Casing	1,40	Othe	er	
Gallons Pumpeo	d Prior to Sampling	2,5	Sam	nples Filtered _	no
Evacuatio	on Method: PVC Bailer	X	Sample	e Method: Evacuation Bailer	×
	Acrillyc Bailer			Disposable Bailer	
	Pump			Pump	
	Other			Direct	
		SAMPLING DA	ATA / FIELD PAF	RAMETERS	
		OAM LING DA	(IA) I ILLD I I II	VIVIETERO	
Inspection for Free I (thickness to 0.01 fo	Product: <u>None</u> oot.ifany)	e, clear			
Time	17:37	17:39	17:41	5ample 17:51	
Gals Removed			2.5	2,5	
Temperature	17,9	17.9	17.8	17.8	
Conductivity	1737	1842	1897	1899	
рН	7,13	7.07	7.05	7.03	
Color / Odor	Tan	Tan	Tan	Tun	
Turbidity	high_	<u>high</u>	<u>high</u>	high	 -
Other		<u> </u>	dewarered		
Comments:					



MAY 3, 2000 GARY AGUIAR RANDAL WILSON

SOKKIA C32 AUTO LEVEL TOPO ROD SUNNY, CLEAR, WARM

MATHESON TRUCKING 2500 POPLAR STREET OAKLAND, CA

MONITORING WELL ELEVATIONS

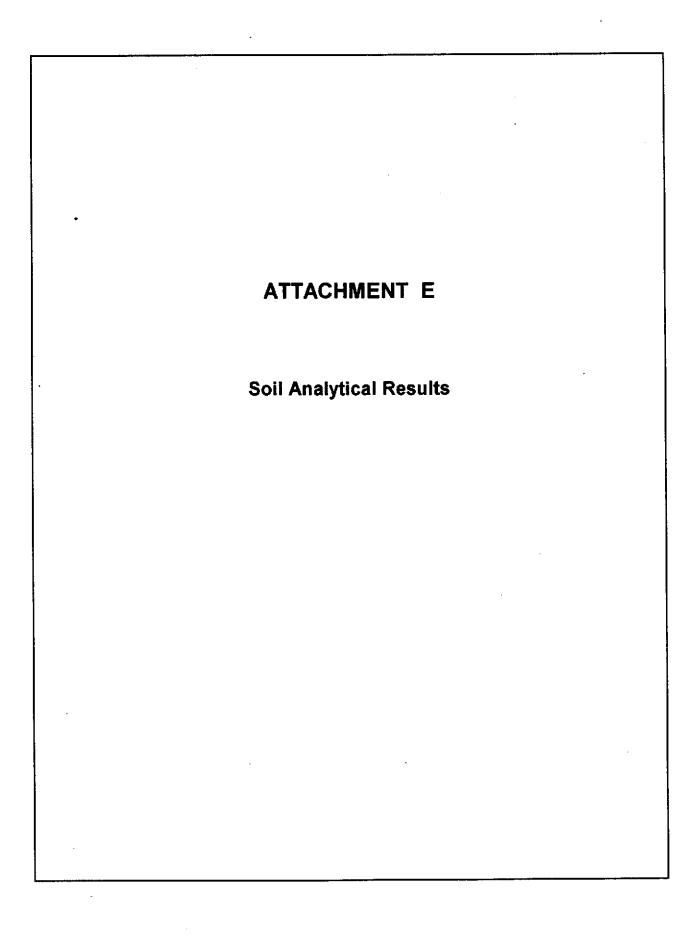
STN	BS	HI	FS	ELEV
MW-Z				8.03
	6.38	14.41		
TP-1		P:	4.77	9.64
	6.18	15.82		
MW-1			6.63	9.19
MW-4		25	7.02	8.80
MW-3			7.00	8,82
TP-Z			6.19	9.63
	4.81	14.44		D S
MW-Z			6.41	8.03

WELL MW-2.
TOP OF PLASTIC CASING, SET AT 8.03' MSL
FROM PREVIOUS SURVEY (2-2-95)

TOP OF PLASTIC CASING, WELL MW-1 TOP OF PLASTIC CASING, WELL MW-4 TOP OF PLASTIC CASING, WELL MW-3

BENCHMARK, WELL MW-Z

BASED ON TOC ELEVATION OF FORMER FINDLEY ADHESIVES WELL MW-Z AT 2433 POPLAR ST, SET AT 8.03' MSL BY ERM WEST, INC.



CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

April 26, 2000

Randal Wilson

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530

Order: 20097

Date Collected: 4/18/00

Project Name: Matheson Trucking

Date Received: 4/19/00

Project Number:

P.Q. Number:

Project Notes:

On April 19, 2000, samples were received under documentented chain of custody. Results for the following analyses are attached:

<u>Matrix</u> Solid

<u>Test</u>

BTEX

<u>Method</u> EPA 8020

Gas/BTEX/MTBE

EPA 8015 MOD. (Purgeable)

EPA 8020

TPH as Diesel TPH as Gasoline TPH as Motor Oil EPA 8015 MOD. (Extractable) EPA 8015 MOD. (Purgeable)

EPA 8015 MOD. (Extractable)

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,

Michelle L. Anderson

Lab Director

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530

Attn: Randal Wilson

Date: 4/26/00

Date Received: 4/19/00

Project Name: Matheson Trucking

Project Number: P.O. Number:

Sampled By: Kenneth B. Alexander

Certified Analytical Report

Order ID:	20097	Lab Sa	mple I	D: 2009	7-001		Client Sam	ple ID: MW	/3 (8'-8.5')	
Sample Time:	8:45 AM	Sam	ple Dat	te: 4/18	/00		ľ	Matrix: Soli	d	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Diesel	ND		10	1	10	mg/Kg	4/21/00	4/24/00	DS000414	EPA 8015 MOD. (Extractable)
					Surrog	ate	Surre	ogate Recovery	Cont	rol Limits (%)
					Hexacos	ane		137		65 - 135
Comment:	Surrogate recovery out	of control l	imits due	to sample o	lilution					
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Motor Oil	220		10	13	130	mg/Kg	4/21/00	4/24/00	DS000414	EPA 8015 MOD. (Extractable)
		Surroga				ate Surrogate Recovery			Control Limits (%)	
					Hexacos	ane		137		65 - 135
Comment:	Surrogate recovery out	of control 1	imits due	to sample o	dilution	·.		·		<u> </u>
Order ID:	20097	Lab Sa	mple I	D : 2009	7-002		Client Sam	ıple ID : MV	/4 (8'-8.5')	
Sample Time:	10:00 AM	Sam	ple Dat	te: 4/18	/ 0 0		1	Matrix: Soli	id	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Diesel	ND		1	1	1	mg/Kg	4/21/00	4/22/00	DS000414	EPA 8015 MOD (Extractable)
					Surrog	ate Surrogate Recovery			Control Limits (%)	
					Hexacos	sane		101		65 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Motor Oil	ND		1	13	13	mg/Kg	4/21/00	4/22/00	DS000414	EPA 8015 MOD. (Extractable)
					Surrog	ate	Surr	ogate Recovery	Con	trol Limits (%)

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L Anderson, Laboratory Director

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530 Attn: Randal Wilson Date: 4/26/00 Date Received: 4/19/00

Project Name: Matheson Trucking

Project Number: P.O. Number:

Sampled By: Kenneth B. Alexander

Certified Analytical Report

Order ID: 20097		Lab Sa	mple I	D : 2009	7-001		Client Sam	ple ID: MW	73 (8'-8.5')	
Sample Time: 8:45 AM		Sam	ple Dat	e: 4/18/	00		ľ	Matrix: Soli	d	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.005	0.005	mg/Kg		4/20/00	SGC4000420	EPA 8020
Toluene	ND		1	0.005	0.005	mg/Kg		4/20/00	SGC4000420	EPA 8020
Ethyl Benzene	ND		1	0.005	0.005	mg/Kg		4/20/00	SGC4000420	EPA 8020
Xylenes, Total	ND		1	0.005	0.005	mg/Kg		4/20/00	SGC4000420	EPA 8020
, 2,					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)
				aa	a-Trifluore	otoluene		117		65 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	1	1	mg/Kg		4/20/00	SGC4000420	EPA 8015 MOI (Purgeable)
					Surrog	ate	Surr	ogate Recovery	Cont	rol Limits (%)
				aa	a-Trifluor			123		65 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

POL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530 Attn: Randal Wilson Date: 4/26/00 Date Received: 4/19/00

Project Name: Matheson Trucking

Project Number: P.O. Number:

Sampled By: Kenneth B. Alexander

Certified Analytical Report

Order ID: 20	0097	Lab Sa	mple I	D: 2 009	7-002		Client Sam	ple ID: M	W4 (8'-8.5')		
Sample Time: 10	0:00 AM	Sam	ple Dat	e: 4/18/	00		·	Matrix: Sc	lid		
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
Benzene	ND		1	0.005	0.005	mg/Kg		4/19/00	SGC4000419A	EPA 8020	
Toluene	ND		1	0.005	0.005	mg/Kg		4/19/00	SGC4000419A	EPA 8020	
Ethyl Benzene	ND		1	0.005	0.005	mg/Kg		4/19/00	SGC4000419A	EPA 8020	
Nylenes, Total	ND		1	0.005	0.005	mg/Kg		4/19/00	SGC4000419A	EPA 8020	
					Surrog	ate	Surr	ogate Recover	y Contr	ol Limits (%)	
					aa	aaa-Trifluorotoluo		110			65 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method	
TPH as Gasoline	ND		1	1	1	mg/Kg		4/19/00	SGC4000419A	EPA 8015 MOD (Purgeable)	
					Surrog	ate	Surr	ogate Recove	ry Contr	ol Limits (%)	
				aa	a-Tritluore	otoluene		115		65 - 135	

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L Anderson, Laboratory Director

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

May 02, 2000

Randal Wilson

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530

Order: 20097

Project Name: Matheson Trucking

Project Number:

Project Notes:

Date Collected: 4/18/00

Date Received: 4/19/00

P.O. Number:

On April 19, 2000, samples were received under documentented chain of custody. Results for the following analyses are attached:

<u>Matrix</u> Solid

Test

MTBE by EPA 8260B

<u>Method</u>

EPA 8260B

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,

Michelle L. Anderson

Lab Director

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530 Attn: Randal Wilson Date: 5/2/00 Date Received: 4/19/00

Project Name: Matheson Trucking

Project Number: P.O. Number:

Sampled By: Kenneth B. Alexander

Certified Analytical Report

Order ID: 20097		Lab Sam	ple ID:	20097-0	01	Clie	Client Sample ID: MW3 (8'-8.5')					
Sample Time: 8:45 AM			_	4/18/00			Matrix:	Solid				
Parameter Methyl-t-butyl Ether	Result ND	Flag	DF 1	PQL 5	DLR 5	Units µg/Kg	Analysis Date 4/28/00	QC Batch ID SMS000427	Method EPA 8260B			
	Surrogate	•		Surrogat	e Recover	y	Control Limits ((%)				
	4-Bromofl	uorobenzene	:		84		65 - 135					
	Dibromofluoromethane				105		65 - 135					
	Toluene-di	8			99		65 - 135					

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Page 1 of 2

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530 Attn: Randal Wilson Date: 5/2/00 Date Received: 4/19/00

Project Name: Matheson Trucking

Project Number: P.O. Number:

Sampled By: Kenneth B. Alexander

Certified Analytical Report

Order ID:	Order ID: 20097			ple ID:	20097-0	02	Clie	nt Sample ID:	MW4 (8'-8.5')			
Sample Time:	10:00 AM		Sample	e Date:	4/18/00	_	Matrix: Solid					
Parameter Methyl-t-butyl Ether	Result N	sult ND	Flag	DF !	PQL 5	DLR 5	Units µg/Kg	Analysis Date 4/28/00	QC Batch ID SMS000427	Method EPA 8260B		
	Su	irrogate	;		Surrogat	e Recover	y	Control Limits ((%)			
	4-1	Bromofl	uorobenzene			90		65 - 135				
	Di	ibromofi	uoromethane	:	1	104		65 - 135				
	To	oluene-di	8			98		65 - 135				

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Page 2 of 2

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

May 05, 2000

Randal Wilson

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530

Order: 20097

Project Name: Matheson Trucking

Project Number:

Project Notes:

Date Collected: 4/18/00

Date Received: 4/19/00

P.O. Number:

On April 19, 2000, samples were received under documentented chain of custody. Results for the following analyses are attached:

Matrix

<u>Test</u>

Method

EPA 6010B

Solid Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,

Michelle L. Anderson

Lab Director

DF

1

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530

Attn: Randal Wilson

Date: 5/5/00

Date Received: 4/19/00

Project Name: Matheson Trucking

Project Number: P.O. Number:

Sampled By: Kenneth B. Alexander

Certified Analytical Report

DLR

1

Order ID: 20097

Lab Sample ID: 20097-002

Client Sample ID: MW4 (8'-8.5')

Matrix: Solid

Sample Time: 10:00 AM

Parameter

Lead

Result

ND

Sample Date: 4/18/00 PQL

1

Units

mg/Kg

PrepDate 5/4/00

Analysis Date 5/4/00

QC Batch ID SM000503

Method EPA 6010B

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Inderson, Laboratory Director

Page 1 of 1

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

May 16, 2000

Randal Wilson

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530

Order: 20097

Project Name: Matheson Trucking

Project Number:

Project Notes:

Date Collected: 4/18/00

Date Received: 4/19/00

P.O. Number:

On April 19, 2000, samples were received under documentented chain of custody. Results for the following analyses are attached:

Matrix Solid

EPA 8240 LUFT Metals <u>Method</u>

EPA 8240

EPA 6010B

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,

Michelle L. Anderson

Lab Director

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530

Attn: Randal Wilson

Date: 5/11/00

Date Received: 4/19/00

Project Name: Matheson Trucking

Project Number:

P.O. Number:

Sampled By: Kenneth B. Alexander

Certified Analytical Report

Order ID: 20097]	Lab Sam	ple ID:	20097-0	01	Clien	t Sample ID:	MW3 (8'-8.5')	
Sample Time: 8:45 AM	[Sampl	e Date:	4/18/00		<u>,</u>	Matrix:	Solid	
Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
1.1.1.2-Tetrachloroethane	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
1.1.1-Trichloroethane	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
1,1,2,2-Tetrachioroethane	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
1.1.2-Trichloroethane	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
1.1.Dichloroethane	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
1.1-Dichloroethene	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
1.2.3-Trichloropropane	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
1.2-Dibromo-3-Chloropropane	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
1,2-Dibromoethane (EDB)	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
1,2-Dichlorobenzene	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
1,2-Dichloroethane	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
.,	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
1.2-Dichloropropane 1.3-Dichlorobenzene	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
1,4-Dichlorobenzene	ND		1	20	20	μg/Kg	4/28/00	SMS000427	EPA 8240
2-Butanone (MEK)	ND ND		1	20	20	μg/Кg	4/28/00	SMS000427	EPA 8240
2-Hexanone	ND		1	20	20	μg/Kg	4/28/00	SMS000427	EPA 8240
4-Methyl-2-Pentanone(MIBK)	ND		1	20	20	μg/Kg	4/28/00	SMS000427	EPA 8240
Acetone	ND ND		1	20	20	μg/Kg	4/28/00	SMS000427	EPA 8240
Allyl Chloride –	ND ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
Benzene	ND		1	20	20	μg/Kg	4/28/00	SMS000427	EPA 8240
Benzyl Chloride			1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
Bromodichloromethane	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
Bromoform	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
Bromomethane	ND		_	5	5	μg/Kg μg/Kg	4/28/00	SMS000427	EPA 8240
Carbon Disulfide	ND		1	5	5	μg/Kg μg/Kg	4/28/00	SMS000427	EPA 8240
Carbon Tetrachloride	ND		1		5	μg/Kg μg/Kg	4/28/00	SMS000427	EPA 8240
Chlorobenzene	ND		1	5	5	μg/Kg μg/Kg	4/28/00	SMS000427	EPA 8240
Chloroethane	ND		1	5			4/28/00	SMS000427	EPA 8240
Chloroform	ND		1	5	5	μg/Kg ···- α/ -	4/28/00	SMS000427	EPA 8240
Chloromethane	ND		1	5	5	μg/Kg		SMS000427	EPA 8240
cis-1.2-Dichloroethene	ND		1	5	5	μg/Kg	4/28/00	SMS000427 SMS000427	EPA 8240
cis-1,3-Dichloropropene	ND		1	5	5	μg/Kg	4/28/00 4/28/00	SMS000427 SMS000427	EPA 8240
Dibromochloromethane	ND		1	5	5	μg/Kg		SMS000427 SMS000427	EPA 8240
Dichlorodifluoromethane	ND		ì	5	5	μg/Kg	4/28/00		EPA 824
Ethyl Benzene	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 824
Iodomethane	ND		1	5	5	μg/Kg	4/28/00	SMS000427	Er A 824

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CAELAP #2346)

Michelle L. Anderson, Laboratory Director

Page 1 of 2

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530 Attn: Randal Wilson Date: 5/11/00 Date Received: 4/19/00

Project Name: Matheson Trucking

Project Number: P.O. Number:

Sampled By: Kenneth B. Alexander

Certified Analytical Report

Order ID: 20097	I	Lab Sam	ple ID:	20097-0	01	Clien	nt Sample ID:	MW3 (8'-8.5')	
Sample Time: 8:45 AM	I	Sampl	e Date:	4/18/00			Matrix:	Solid	
Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Methylene Chloride	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
Styrene	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
Tetrachloroethene	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
Toluene	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
trans-1,2-Dichloroethene	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
trans-1.3-Dichloropropene	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
Trichloroethene	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
Trichlorofluoromethane	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
Vinyl Acetate	ND		1	10	10	μg/Kg	4/28/00	SMS000427	EPA 8240
Vinyl Chloride	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
Xylenes, Total	ND		1	5	5	μg/Kg	4/28/00	SMS000427	EPA 8240
	Surrogate			Surroga	te Recover	y	Control Limits	(%)	
	4-Bromoflu	orobenzene	;		84		65 - 135		
	Dibromoflu	oromethan	e		105		65 - 135		
	Toluene-d8				99		65 - 135		

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

 $Page\ 2\ of\ 2$

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530 Attn: Randal Wilson Date: 5/16/00 Date Received: 4/19/00

Project Name: Matheson Trucking

Project Number: P.O. Number:

Sampled By: Kenneth B. Alexander

Certified Analytical Report

Order ID:	20097	Lab Sa	mple ID:	20097-	001	Client	Sample ID: M	W3 (8'-8.5')	
Sample Time:	8:45 AM	Sam	ple Date:	4/18/00)				
Parameter	Result	DF	PQL	DLR	Units	PrepDate	Analysis Date	QC Batch ID	Method
Cadmium	ND	5	1	5	mg/Kg	5/16/00	5/16/00	SM000514	EPA 6010B
Chromium	36	5	1	5	mg/Kg	5/16/00	5/16/00	SM000514	EPA 6010B
Lead	40	5	1	5	mg/Kg	5/16/00	5/16/00	SM000514	EPA 6010B
Nickel	20	5	1	5	mg/Kg	5/16/00	5/16/00	SM000514	EPA 6010B
Zinc	70	5	1	5	mg/Kg	5/16/00	5/16/00	SM000514	EPA 6010B

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Page 1 of 1

525 Del Rey Avenue, Suite E Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

Volatile Organic Compounds Laboratory Control Sample

QC Batch #: SMS000427

Matrix: Solid

Date analyzed: 04/27/00 Spiked Sample: Blank Spike

Units: µg/kg

PARAMETER	Method #	SA µg/kg	SR µg/kg	SP μg/kg	SP %R	SPD μg/kg	SPD %R	RPD	RPD	OC LIMITS
1,1-Dichloroethene	8240/8260	25	ND	21.2	85	21.3	85	0.5	25	65-135
Benzene	8240/8260	25	ND	26.3	105	26.6	106	1.1	25	65-135
Trichloroethene	8240/8260	25	ND	25.6	102	25.9	103	1.0	25	65-135
Toluene	8240/8260	25	ND	26.5	106	27.0	108	1.9	25	65-135
Chlorobenzene	8240/8260	25	ND	25.7	103	26.4	106	2.7	25	65-135
Surrogates								i ; i i		65.105
Toluene -d8	8240/8260	<u> </u>	97%	100%		103%			Ì	65-135
Dibromofluoromethane	8240/8260	.	95%	100%		101%		! !		65-135
4-Bromofluorobenzene	8240/8260	İ	92%	97%		99%] !	<u>!</u>	65-135
1,2 - Dichloroethane-d4	8240/8260	İ	102%	107%		107%		ļ	l	65-135

Definition of Terms:

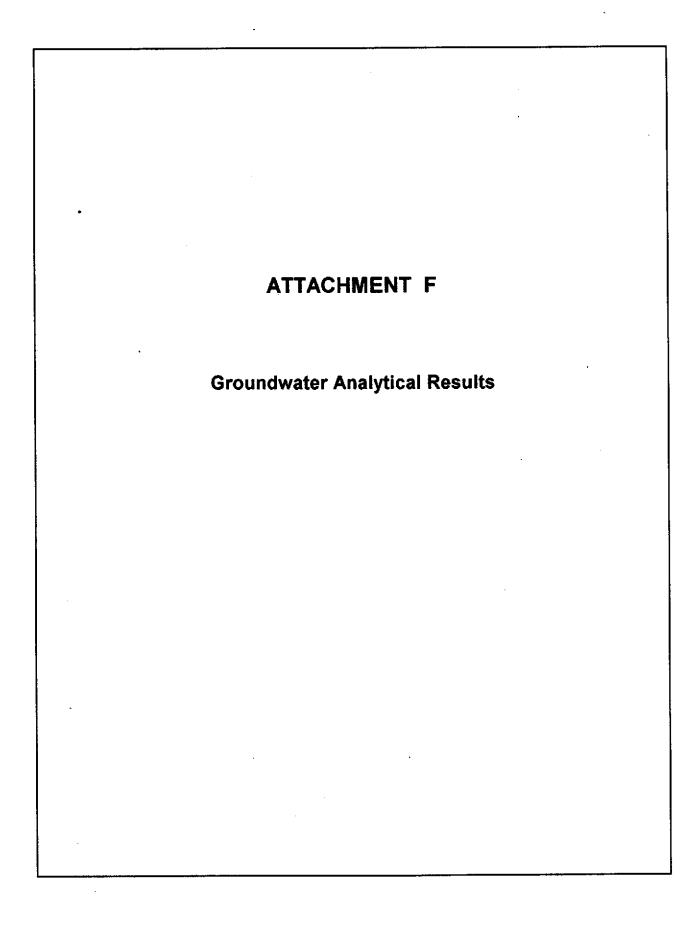
na: Not Analyzed in QC batch

SA: Spike Added SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result
SP (%R): Spike % Recovery
SPD: Spike Duplicate Result
SPD (%R): Spike Duplicate % Recovery

NC: Not Calculated



CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

May 09, 2000

Randal Wilson

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530

Order: 20276

Project Name: Matheson-Oakland

Date Collected: 5/1/00

Date Received: 5/2/00

Project Number:

P.O. Number:

Project Notes:

On May 02, 2000, samples were received under documentented chain of custody. Results for the following analyses are attached:

Matrix Liquid

Gas/BTEX/Diesel/Motor Oil

<u>Method</u>

EPA 8015 MOD. (Extractable)

EPA 8015 MOD. (Purgeable)

EPA 8020

MTBE by EPA 8260B

EPA 8260B

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,

Michelle L. Anderson

Lab Director

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530 Attn: Randal Wilson Date: 5/9/00 Date Received: 5/2/00

Project Name: Matheson-Oakland

Project Number: P.O. Number:

Sampled By: Randal Wilson

Certified Analytical Report

Order ID : 20276		Lab Sample ID: 20276-001					Client Sam	ple ID: MV	7-1				
Sample Time: 3:56 PM		Sam	ple Dat	e: 5/1/0	0	Matrix: Liquid							
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method			
Benzene	ND		1	0.5	0.5	μg/L		5/4/00	WGC2000503	EPA 8020			
Toluene	ND		1	0.5	0.5	μg/L		5/4/00	WGC2000503	EPA 8020			
Ethyl Benzene	ND		1	0.5	0.5	μg/L		5/4/00	WGC2000503	EPA 8020			
Nylenes, Total	ND		1	0.5	0.5	μg/L		5/4/00	WGC2000503	EPA 8020			
•					Surroga	ite	Surr	ogate Recovery	Contr	rol Limits (%)			
							aa.	a-Trifluoro	toluene		99		65 - 135
Parameter	Result	Flag	DF.	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method			
TPH as Gasoline	ND		1	50	50	μg/L		5/4/00	WGC2000503	EPA 8015 MOD (Purgeable)			
					Surroga	ite	Surr	ogate Recovery	Conti	rol Limits (%)			
				aa	a-Trifluoro	toluene		110		65 - 135			

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530 Attn: Randal Wilson Date: 5/16/00 Date Received: 4/19/00

Project Name: Matheson Trucking

Project Number: P.O. Number:

Sampled By: Kenneth B. Alexander

Certified Analytical Report

Order ID:	20097	Lab Sa	ımple ID:	20097-	001	Client	Sample ID: M	W3 (8'-8.5')					
Sample Time:	8:45 AM	Sam	ple Date:	4/18/00									
Parameter	Result	DF	PQL	DLR	Units	PrepDate	Analysis Date	QC Batch ID	Method				
Cadmium	ND	5	1	5	mg/Kg	5/16/00	5/16/00	SM000514	EPA 6010B				
	36	•	1	5	mg/Kg	5/16/00	5/16/00	SM000514	EPA 6010B				
Chromium		,	1	5	mg/Kg	5/16/00	5/16/00	SM000514	EPA 6010B				
Lead	40		1	,		5/16/00	5/16/00	SM000514	EPA 6010B				
Nickel	20	5	ı	3	mg/Kg			SM000514	EPA 6010B				
Zinc	70	5	1	5	mg/Kg	5/16/00	5/16/00	51/10/00314	ELY OULOR				

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Page I of I

QUALITY CONTROL RESULTS SUMMARY

Volatile Organic Compounds Laboratory Control Sample

QC Batch #: SMS000427

Matrix: Solid Units: μg/kg Date analyzed: 04/27/00 Spiked Sample: Blank Spike

PARAMETER	Method #	SA μg/kg	SR μg/kg	SP μg/kg	SP %R	SPD μg/kg	SPD %R	RPD	RPD (QC LIMITS
1,1-Dichloroethene	8240/8260	25	ND	21.2	85	21.3	85	0.5	25	65-135
Benzene	8240/8260	25	ND	26.3	105	26.6	106	1.1	25	65-135
Trichloroethene	8240/8260	25	ND	25.6	102	25.9	103	1.0	25	65-135
Toluene	8240/8260	25	ND	26.5	106	27.0	108	1.9	25	65-135
Chlorobenzene	8240/8260	25	ND	25.7	103	26.4	106	2.7	25	65-135
Surrogates			!					i ! !	<u> </u>	
Toluene -d8	8240/8260		97%	100%		103%		•		65-135
Dibromofluoromethane	8240/8260		95%	100%		101%		1	ļ	65-135
4-Bromofluorobenzene	8240/8260		92%	97%		99%		<u> </u>	-	65-135
1,2 - Dichloroethane-d4	8240/8260		102%	107%		107%		<u> </u>	! !	65-135

Definition of Terms:

na: Not Analyzed in QC batch

SA: Spike Added SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result
SP (%R): Spike % Recovery
SPD: Spike Duplicate Result
SPD (%R): Spike Duplicate % Recovery

NC: Not Calculated

525 Del Rey Avenue, Suite E Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

Laboratory Control Spikes METHOD: EPA 6010

QC Batch #: SM000503 Matrix: Solid Units: mg/kg Date Analyzed: 05/10/00 Date Digested: 05/04/00 Digestion Method: EPA 3050 Spiked Sample: Blank Spike

Omis.	mg/kg				tor and					od odinp.e.	
PARAMETER	Method #	MB mg/kg	SA mg/kg	SR mg/kg	SP mg/kg	SP %R	SPD mg/kg	SPD %R	RPD	RPD	QC LIMITS %R
Antimony	6010	<1.0	50.	0.0	47.	94	48.	96	2.1	25.0	75-125
Arsenic	6010	<1.0	50.	0.0	49.	98	50.	100	2.1	25.0	75-125
Barium	6010	<1.0	50.	0.0	49.	99	50.	100	1.4	25.0	7 5-125
Beryllium	6010	<1.0	50.	0.0	48.	95	49.	97	1.8	25.0	75-125
Cadmium	6010	<1.0	50.	0.0	47.	93	47.	94	1.0	25.0	75-125
Chromium	6010	<1.0	50.	0.0	18.	36	49.	97	91.5	25.0	75-125
Cobalt	6010	<1.0	50.	0.0	47.	95	48.	97	1.9	25.0	75-125
Copper	6010	<1.0	50.	0.0	47.	94	48.	97	3.1	25.0	75-125
Lead	6010	<1.0	50.	0.0	47.	94	48.	95	1.8	25.0	75-125
Molybdenum	6010	<1.0	50.	0.0	48.	96	48.	97	0.7	25.0	75-125
Nickel	6010	<1.0	50.	0.0	49.	98	49.	97	0.5	25.0	75-125
Selenium	6010	<1.0	50.	0.0	46.	92	47.	94	2.6	25.0	75-125
Silver	6010	<1.0	50.	0.0	44.	87	49.	97	10.9	25.0	75-125
Thallium	6010	<1.0	50.	0.0	46.	93	50.	100	7.9	25.0	75-125
Vanadium	6010	<1.0	50.	0.0	48.	96	50.	100	4.3	25.0	75-125
Zinc	6010	<1.0	50.	0.0	46.	92	48.	96	4.4	25.0	75-125
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Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank
SA: Spike Added
SR: Sample Result
SP: Spike Result
SP (%R): Spike % Recovery

SPD: Spike Duplicate Result
SPD (%R): Spike Duplicate % Recovery

QUALITY CONTROL RESULTS SUMMARY

Laboratory Control Spikes METHOD: EPA 6010

QC Batch #: SM000514 Matrix: Solid Date Analyzed: 05/16/00 Date Digested: 05/15/00 Digestion Method: EPA 3050 Spiked Sample: Blank Spike

Units	: mg/kg								Sp	iked Sample:	Blank Spike
PARAMETER	Method#	MB mg/kg	SA mg/kg	SR mg/kg	SP mg/kg	SP %R	SPD mg/kg	SPD %R	RPD	RPD	QC LIMITS %R
Antimony	6010	<1.0	50.	0.0	45.	89	47.	95	6.0	25.0	75-125
Arsenic	6010	<1.0	50.	0.0	42.	85	44.	88	4.0	25.0	75-125
Barium	6010	<1.0	50.	0.0	50.	100	51.	101	1.0	25.0	75-125
Beryllium	6010	<1.0	50.	0.0	47.	94	49.	98	3.9	25.0	75-125
Cadmium	6010	<1.0	50.	0.0	44.	88	46.	92	4.7	25.0	75-125
Chromium	6010	<1.0	50.	0.0	48.	96	49	98	2.5	25.0	75-125
Cobalt	6010	<1.0	50.	0.0	47.	94	49.	97	3.2	25.0	75-125
Copper	6010	<1.0	50.	0.0	47.	94	48.	97	2.5	25.0	75-125
Lead	6010	<1.0	50.	0,0	46.	92	49.	97	5.3	25.0	75-125
Molybdenum	6010	<1.0	50.	0.0	48.	97	50.	99	2.7	25.0	75-125
Nickel	6010	<1.0	50.	0.0	47.	95	49.	98	3.4	25.0	75-125
Selenium	6010	<1.0	50.	0.0	44.	88	46.	92	4.1	25.0	75-125
Silver	6010	<1.0	50.	0.0	39.	77	49.	99	24.4	25.0	75-125
Thallium	6010	<1.0	50.	0.0	47.	94	48.	95	1.7	25.0	75-125
Vanadium	6010	<1.0	50.	0.0	48.	96	49	98	1.8	25.0	75-125
Zinc	6010	<1.0	50.	0.0	45.	89	47.	94	4.9	25.0	75-125
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Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank SA: Spike Added SR: Sample Result SP: Spike Result

SP (%R): Spike % Recovery SPD: Spike Duplicate Result

SPD (%R): Spike Duplicate % Recovery

525 Del Rey Avenue, Suite E Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

Laboratory Control Spikes

QC Batch #: DS000414

Matrix: Solid

Date analyzed: 04/21/00 Date extracted: 04/21/00

Units: mg/Kg

Quality Control Sample: Blank Spike

PARAMETER	Method #	MB mg/Kg	SA mg/Kg	SR mg/Kg	SP mg/Kg	SP %R	SPD mg/Kg	SPD %R	RPD		QC LIMITS %R
Diesel	8015M	<1.0	25	ND	23	91	23	92	1.0	30	50-150

Hexocosane

94%

97%

94%

65-135

Calculated Recovery Outside of Control Limits:

Definition of Terms:

MB: Method Blank

na: Not Analyzed in QC batch

SA: Spike Added

SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result

SP (%R): Spike % Recovery

SPD: Spike Duplicate Result

SPD (%R): Spike Duplicate % Recovery

NC: Not Calculated

525 Del Rey Avenue, Suite E Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography Laboratory Control Sample

QC Batch #: SGC4000420

Matrix: Solid Units: µg/kg Date Analyzed: 04/20/00 Quality Control Sample: Blank Spike

PARAMETER	Method #	MB μg/kg	SA µg/kg	SR µg/kg	SP μg/kg	SP % R	SPD μg/kg	SPD %R	% RPD	QC RPD	CLIMITS %R
Benzene	8020	<5.0	4.7	ND :	4.8	101	5.2	109	7.6	25	80-120
Toluene	8020	<5.0	29	ND	29	100	29	100	0.0	25	80-120
Ethyl Benzene	8020	< 5.0	5.6	ND	5.4	97	5.6	101	3.7	25	80-120
Xylenes	8020	<5.0	32	ND	32	100	33	101	0.9	25	80-120
Gasoline	8015	<1000	469	ND	499	107	468	100	6.4	25	75-115
aaa-TFT(S.S.)-FID	8015		•	115%	109%		106%				65-135
aaa-TFT(S.S.)-PID	8020			110%	110%		103%				65-135

Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank SA: Spike Added SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result
SP (%R): Spike % Recovery
SPD: Spike Duplicate Result
SPD (%R): Spike % Recovery
NC: Not Calculated

525 Del Rey Avenue, Suite E Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography Laboratory Control Sample

QC Batch #: SGC4000419A

Matrix: Solid Units: µg/kg Date Analyzed: 04/19/00 Quality Control Sample: Blank Spike

	· P-0										
PARAMETER	Method #	MB μg/kg	SA μg/kg	SR μg/kg	SP µg/kg	SP % R	SPD µg/kg	SPD %R	% RPD	QC RPD	LIMITS %R
Benzene	8020	<5.0	4.3	ND	5.0	116	5.0	116	0.0	25	80-120
Toluene	8020	<5.0	31	ND	27	86	32	102	16.9	25	80-120
Ethyl Benzene	8020	<5.0	6.1	ND	5.0	82	6.0	98	18.2	25	80-120
Xylenes	8020	<5.0	35	ND	30	86	35	101	15.4	25	80-120
Gasoline	8015	<1000	500	ND	450	90	477	95	5.8	25	75-115
aaa-TFT(S.S.)-FID	8015		•	113%	104%	•	106%				65-135
aaa-TFT(S.S.)-PID	8020			104%	101%		106%				65-135

Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank SA: Spike Added SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result
SP (%R): Spike % Recovery
SPD: Spike Duplicate Result
SPD (%R): Spike % Recovery

NC: Not Calculated

CHAIN OF CUSTODY RECORD

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	MW3(8-8.5)	4/18/00	845	X		Boring for well	MW3 (dep	th; 8-8.5-)		\times	X	ᄉ		 200	97-001
i	MW3(8'- 8.5') MW4(8'-8.5')	14/18/00	10°3	X		Boring for well Boring for well	MW4 (Jept	L : 8-8.5)		X	×	$\stackrel{\times}{-}$		d	-002
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HAGEMAN AGUIAR INC Œ

Allan AR	ATTN:	Allan	Aks
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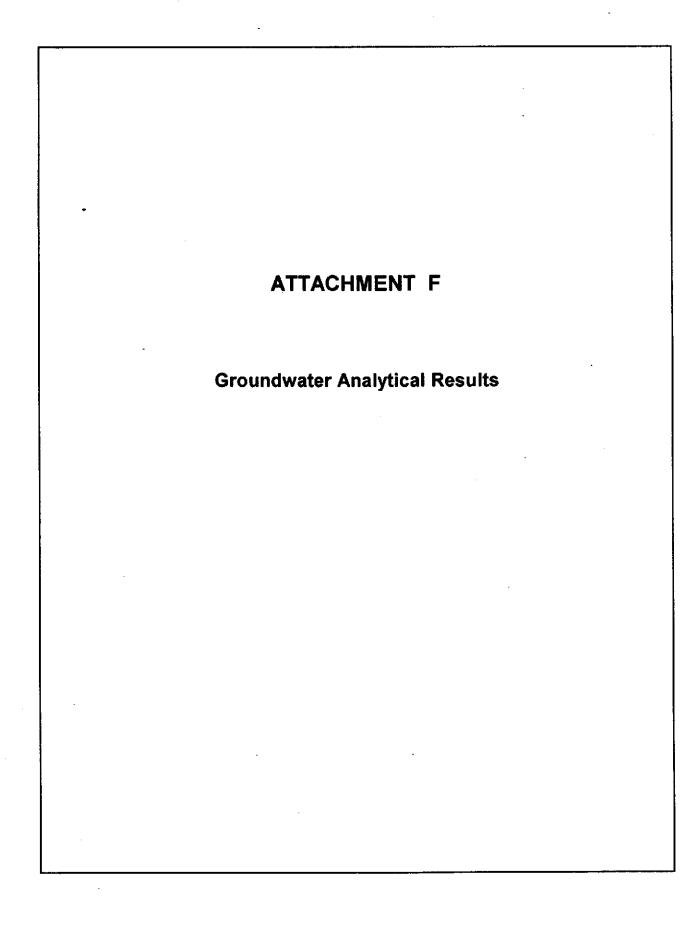
CHAIN OF CUSTODY RECORD

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MW3(8-85)	4/18/00	845	Χ	Ë	Boring for	well MWH (de	th: 8-65		X	X	X	X		X	2001	1 - 10
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CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

May 09, 2000

Randal Wilson

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530

Order: 20276

Project Name: Matheson-Oakland

Date Collected: 5/1/00

Date Received: 5/2/00

Project Number:

P.O. Number:

Project Notes:

On May 02, 2000, samples were received under documentented chain of custody. Results for the following analyses are attached:

Matrix

Liquid

Gas/BTEX/Diesel/Motor Oil

<u>Method</u>

EPA 8015 MOD. (Extractable)

EPA 8015 MOD. (Purgeable)

EPA 8020

MTBE by EPA 8260B

EPA 8260B

Chemical analysis of these samples has been completed. Summaries of the data are contained on the following pages. USEPA protocols for sample storage and preservation were followed.

Entech Analytical Labs, Inc. is certified by the State of California (#2346). If you have any questions regarding procedures or results, please call me at 408-735-1550.

Sincerely,

Michelle L. Anderson

Lab Director

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530 Attn: Randal Wilson Date: 5/9/00 Date Received: 5/2/00

Project Name: Matheson-Oakland

Project Number: P.O. Number:

Sampled By: Randal Wilson

Certified Analytical Report

Order ID: 20276		Lab Sa	mple II	D: 2027	6-001		Client Sam	ple ID: MV	V-1	
Sample Time: 3:56 PM		Sam	ple Dat	e: 5/1/0	0		I	Matrix: Liq	uid	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	μg/L		5/4/00	WGC2000503	EPA 8020
Toluene	ND		1	0.5	0.5	μg/L		5/4/00	WGC2000503	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	μg/L		5/4/00	WGC2000503	EPA 8020
Nylenes, Total	ND		1	0.5	0.5	μg/L		5/4/00	WGC2000503	EPA 8020
					Surroga	ite	Surr	ogate Recovery	Conti	rol Limits (%)
				aa	a-Trifluoro	toluene		99		65 - 135
Parameter	Result	Flag	DF.	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	μg/L		5/4/00	WGC2000503	EPA 8015 MOE (Purgeable)
					Surroga	ite	Surr	ogate Recovery	Cont	rol Limits (%)
				aa	a-Trifluore	toluene		110		65 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530 Attn: Randal Wilson Date: 5/9/00 Date Received: 5/2/00

Project Name: Matheson-Oakland

Project Number: P.O. Number:

Sampled By: Randal Wilson

Certified Analytical Report

Order ID: 20276		Lab Sa	mple II	D: 2027	6-002		Client Sam	ple ID: MW	7-2	
Sample Time: 4:33 PM		Sam	ple Dat	e: 5/1/0	0		ľ	Matrix: Liq	nid	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	μg/L		5/9/00	WGC2000509	EPA 8020
Toluene	ND		1	0.5	0.5	μg/L		5/9/00	WGC2000509	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	μg/L		5/9/00	WGC2000509	EPA 8020
Xylenes, Total	ND		1	0.5	0.5	μg/L		5/9/00	WGC2000509	EPA 8020
Aytenes, Total	2				Surroge		Surr	ogate Recovery	Contr	ol Limits (%)
				aa	a-Trifluoro	toluene		99		65 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	μg/L		5/9/00	WGC2000509	EPA 8015 MOI (Purgeable)
					Surroge	ate	Surr	ogate Recovery	Cont	rol Limits (%)
				aa	a-Trifluoro			109		65 - 135

DF - Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Inderson, Laboratory Director

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530 Attn: Randal Wilson Date: 5/9/00 Date Received: 5/2/00

Project Name: Matheson-Oakland

Project Number: P.O. Number:

Sampled By: Randal Wilson

Certified Analytical Report

Order ID: 2027 6		Lab Sa	ımple I	D: 2027	6-003		Client Sam	ple ID: MW	/ - 3	
Sample Time: 5:13 PM		Sam	ple Dat	e: 5/1/0	0			Matrix: Liq	uid	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	μg/L		5/4/00	WGC2000503	EPA 8020
Toluene	ND		1	0.5	0.5	μg/L		5/4/00	WGC2000503	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	μg/L		5/4/00	WGC2000503	EPA 8020
Nylenes, Total	ND		1	0.5	0.5	μg/L		5/4/00	WGC2000503	EPA 8020
•					Surroga	ite	Surr	ogate Recovery	Contr	rol Limits (%)
				23	a-Trifluoro	toluene		98		65 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	μg/L		5/4/00	WGC2000503	EPA 8015 MOD (Purgeable)
					Surroga	ate	Surr	ogate Recovery	Cont	rol Limits (%)
				aa	a-Trifluoro	toluene		110		65 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530 Attn: Randal Wilson Date: 5/9/00 Date Received: 5/2/00

Project Name: Matheson-Oakland

Project Number: P.O. Number:

Sampled By: Randal Wilson

Certified Analytical Report

Order ID: 20276		Lab Sa	mple II	D: 2027	6-004		Client Sam	ple ID: MV	7-4	
Sample Time: 5:51 PM		Sam	ple Dat	e: 5/1/0	0		I	Matrix: Liq	uiđ	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
Benzene	ND		1	0.5	0.5	μg/L		5/5/00	WGC4000504	EPA 8020
Toluene	ND		1	0.5	0.5	μg/L		5/5/00	WGC4000504	EPA 8020
Ethyl Benzene	ND		1	0.5	0.5	μg/L		5/5/00	WGC4000504	EPA 8020
Nylenes, Total	ND		1	0.5	0.5	μg/L		5/5/00	WGC4000504	EPA 8020
					Surroga	ite	Surr	ogate Recovery	Contr	rol Limits (%)
				aa	a-Trifluoro	toluene		100		65 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Gasoline	ND		1	50	50	μg/L		5/5/00	WGC4000504	EPA 8015 MOD (Purgeable)
					Surroga	ıte	Surr	ogate Recovery	Conti	rol Limits (%)
				aa	a-Trifluore	toluene		107		65 - 135

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

CA ELAP# 2346

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Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530 Attn: Randal Wilson Date: 5/9/00 Date Received: 5/2/00

Project Name: Matheson-Oakland

Project Number: P.O. Number:

Sampled By: Randal Wilson

Certified Analytical Report

Order ID: 20276		Lab Sam	ple ID:	20276-0	01	Clie	nt Sample ID:	MW-1	
Sample Time: 3:56 PM		Sampl	e Date:	5/1/00			Matrix:	Liquid	
Parameter Methyl-t-butyl Ether	Result ND	Flag	DF	PQL 5	DLR 5	Units µg/L	Analysis Date 5/5/00	QC Batch ID WMS000505	Method EPA 8260B
·	Surrogate	:		Surroga	te Recover	y	Control Limits ((%)	
	4-Bromofl	uorobenzene	;		109		65 - 135		
	Dibromofl	uoromethane	3		108		65 - 135		
	Toluene-d	8			78		65 - 135		

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

CA ELAP# 2346

525 Del Rey Avenue, Suite E • Sunnyvale, CA 94086 • (408) 735-1550 • Fax (408) 735-1554

Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530 Attn: Randal Wilson Date: 5/9/00 Date Received: 5/2/00

Project Name: Matheson-Oakland

Project Number: P.O. Number:

Sampled By: Randal Wilson

Certified Analytical Report

Order ID: 20276		Lab Sam	ple ID:	20276-0	02	Clie	nt Sample ID:	MW-2	
Sample Time: 4:33 PM		Sampl	e Date:	5/1/00			Matrix:	Liquid	
Parameter Methyl-t-butyl Ether	Result ND	Flag	DF	PQL 5	DLR 5	Units µg/L	Analysis Date 5/5/00	QC Batch ID WMS000505	Method EPA 8260B
	Surrogate	2		Surroga	te Recover	y	Control Limits	(%)	
	4-Bromofl	uorobenzene	:		91		65 - 135		
	Dibromofl	uoromethane	e		106		65 - 135		
	Toluene-d	8			91		65 - 135		

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Page 2 of 4

CA ELAP# 2346

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Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530 Attn: Randal Wilson Date: 5/9/00 Date Received: 5/2/00

Project Name: Matheson-Oakland

Project Number: P.O. Number:

Sampled By: Randal Wilson

Certified Analytical Report

Order ID: 20276		Lab Sam	ple ID:	20276-0	03	Clie	nt Sample ID:	MW-3	
Sample Time: 5:13 PM		Sampl	e Date:	5/1/00			Matrix:	Liquid	
Parameter	Result	Flag	DF	PQL	DLR	Units	Analysis Date	QC Batch ID	Method
Methyl-t-butyl Ether	ND		1	5	5	μg/L	5/5/00	WMS000505	EPA 8260B
	Surrogate	e		Surrogat	te Recover	y	Control Limits	(%)	
	4-Bromofl	uorobenzene	:		80		65 - 135		
	Dibromofl	uoromethano	•		123		65 - 135		
	Toluene-d	8			90		65 - 135		

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Page 3 of 4

CA ELAP# 2346

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Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530

Attn: Randal Wilson

Date: 5/9/00

Date Received: 5/2/00

Project Name: Matheson-Oakland

Project Number:

P.O. Number: Sampled By: Randal Wilson

Certified Analytical Report

Order ID: 20276		Lab Sam	ple ID:	20276-0	04	Clie	nt Sample ID:	MW-4	
Sample Time: 5:51 PM		Sampl	e Date:	5/1/00			Matrix:	Liquid	
Parameter Methyl-t-butyl Ether	Result ND	Flag	DF 1	PQL 5	DLR 5	Units µg/L	Analysis Date 5/5/00	QC Batch 1D WMS000505	Method EPA 8260B
	Surrogate			Surroga	te Recovery	,	Control Limits ((%)	
	4-Bromofl	uorobenzene			96		65 - 135		
	Dibromofl	uoromethane	:		108		65 - 135		
	Toluene-da	3			19		65 - 135		

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

Page 4 of 4

CA ELAP# 2346

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Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530 Attn: Randal Wilson Date: 5/9/00 Date Received: 5/2/00

Project Name: Matheson-Oakland

Project Number: P.O. Number:

Sampled By: Randal Wilson

Certified Analytical Report

Order ID: 20276		Lab Sa	mple II	D : 2027	6-001		Client Sam	ple ID: MW	7-3	
Sample Time: 3:56 PM		Sam	ple Dat	e: 5/1/0	0		1	Matrix: Liqu	uid	
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Diesel	76	x	1	50	50	μg/L	5/3/00	5/4/00	DW000501	EPA 8015 MOD (Extractable)
					Surroga	ıte	Surr	ogate Recovery	Cont	rol Limits (%)
					Hexacosa	ane		100		65 - 135
Parameter	Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Motor Oil	ND		1	250	250	μg/L	5/3/00	5/4/00	DW000501	EPA 8015 MOD (Extractable)
					Surroga	ite	Surr	ogate Recovery	Cont	rol Limits (%)
					Hexacos	ane		100		65 - 135
Order ID: 20276		Lab Sa	mple I	D: 2027	6-002	. <u>-</u>	Client Sam	ple ID: MV	V-2	
Sample Time: 4:33 PM		Sam	ple Dat	te: 5/1/0	00]	Matrix: Liq	uid	
Sample Time: 4:33 PM Parameter	Result	Sam Flag	ple Dat	te: 5/1/0	DLR	Units	Extraction Date	Matrix: Liq Analysis Date	uid QC Batch ID	Method
	Result ND					Units μg/L	Extraction	Analysis		Method EPA 8015 MOD (Extractable)
Parameter			DF	PQL	DLR	μ g /L	Extraction Date 5/3/00	Analysis Date	QC Batch ID DW000501	EPA 8015 MOD
Parameter			DF	PQL	DLR 50	μg/L ste	Extraction Date 5/3/00	Analysis Date 5/4/00	QC Batch ID DW000501	EPA 8015 MOD (Extractable)
Parameter			DF	PQL	DLR 50 Surrog	μg/L ste	Extraction Date 5/3/00	Analysis Date 5/4/00 ogate Recovery	QC Batch ID DW000501	EPA 8015 MOD (Extractable) rol Limits (%)
Parameter TPH as Diesel	ND	Flag	DF	PQL 50	DLR 50 Surrogi Hexacos	μg/L ste ane	Extraction Date 5/3/00 Surr	Analysis Date 5/4/00 ogate Recovery 107 Analysis	QC Batch ID DW000501 Cont	EPA 8015 MOD (Extractable) (Fol Limits (%) 65 - 135
Parameter TPH as Diesel Parameter	ND Result	Flag	DF	PQL 50	DLR 50 Surroge Hexacos	μg/L sate ane Units μg/L	Extraction Date 5/3/00 Surr Extraction Date 5/3/00	Analysis Date 5/4/00 ogate Recovery 107 Analysis Date	QC Batch ID DW000501 Cont QC Batch ID DW000501	EPA 8015 MOD (Extractable) (Fol Limits (%) 65 - 135 Method EPA 8015 MOD

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

Michelle L. Anderson, Laboratory Director

CA ELAP# 2346

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Hageman-Aguiar, Inc.

11100 San Pablo Avenue, Suite 200-A

El Cerrito, CA 94530 Attn: Randal Wilson Date: 5/9/00 Date Received: 5/2/00

Project Name: Matheson-Oakland

Project Number: P.O. Number:

Sampled By: Randal Wilson

Certified Analytical Report

Order ID:	20276		Lab Sa	mple II	D: 2027	6-003		Client Sam	ple ID: MW	7-3	
Sample Time:	5:13 PM		Sam	ple Dat	e: 5/1/0	0		Ţ	Matrix: Liqu	nid	
Parameter		Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Diesel		ND		1	50	50	μg/L	5/3/00	5/4/00	DW000501	EPA 8015 MOD (Extractable)
						Surroga	te	Surr	ogate Recovery	Cont	rol Limíts (%)
						Hexacosa	ine		119		65 - 135
Parameter		Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
TPH as Motor Oil		ND		1	250	250	μg/L	5/3/00	5/4/00	DW000501	EPA 8015 MOD (Extractable)
						Surroga	te	Surr	ogate Recovery	Cont	rol Limits (%)
						Hexacosa	ine		119		65 - 135
Order ID:	20276		Lab Sa	mple D	D ; 2027	6-004		Client Sam	ple ID : MW	/-4	
Sample Time:	5:51 PM		Sam	ple Dat	e: 5/1/0	10		ľ	Matrix: Liq	aid	
Parameter		Result	Flag	DF	PQL	DLR	Units	Extraction Date	Analysis Date	QC Batch ID	Method
								Date			
TPH as Diesel		320		1	50	50	μg/L	5/3/00	5/4/00	DW000501	EPA 8015 MOD (Extractable)
TPH as Diesel		320		1	50	50 Surroga		5/3/00	5/4/00 ogate Recovery		
TPH as Diesel		320		1	50		ite	5/3/00			(Extractable)
TPH as Diesel		320 Result	Flag	DF	50 PQL	Surroga	ite	5/3/00	ogate Recovery		(Extractable) rol Limits (%)
			Flag			Surroga Hexacosa	ite ane	5/3/00 Surr	ogate Recovery 114 Analysis	Cont	(Extractable) rol Limits (%) 65 - 135
Parameter		Result	Flag	DF	PQL	Surroga Hexacosa DLR	units μg/L	5/3/00 Surr Extraction Date 5/3/00	ogate Recovery 114 Analysis Date	Cont QC Batch ID DW000501	(Extractable) rol Limits (%) 65 - 135 Method EPA 8015 MOD

DF = Dilution Factor

ND = Not Detected

DLR = Detection Limit Reported

PQL = Practical Quantitation Limit

Analysis performed by Entech Analytical Labs, Inc. (CA ELAP #2346)

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STANDARD LAB QUALIFIERS (FLAGS)

All Entech lab reports now reference standard lab qualifiers. These qualifiers are noted in the adjacent column to the analytical result and are adapted from the U.S. EPA CLP program. The current qualifier list is as follows:

Qualifier	Description
(Flag)	
U	Compound was analyzed for but not detected
J	Estimated value for tentatively identified compounds or if result is below PQL but above MDL
N	Presumptive evidence of a compound (for Tentatively Identified Compounds)
· B	Analyte is found in the associated Method Blank
E	Compounds whose concentrations exceed the upper level of the calibration range
D	Multiple dilutions reported for analysis; discrepancies between analytes may be due to dilution
\mathbf{X}	Results within quantitation range; chromatographic pattern not typical of fuel

525 Del Rey Avenue, Suite E Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography Laboratory Control Sample

QC Batch #: WGBG2000503

Matrix: Water

Date Analyzed: 05/03/00 Quality Control Sample: Blank Spike

Units:	μg/Liter

PARAMETER	Method #	. MB	SA	SR	SP	SP	SPD	SPD	RPD		LIMITS
		μg/Liter	μg/Liter	μg/Liter	μg/Liter	% R	μg/Liter	%R		RPD	%R
Benzene	8020	< 0.50	4.3	ND	3.4	79	3.3	77	1.9	25	67-115
Toluene	8020	< 0.50	28.0	ND	28	101	27	96	5.0	25	82-122
Ethyl Benzene	8020	<0.50	5.6	ND	5.7	101	5.3	95	6.3	25	7 7-114
Xylenes	8020	< 0.50	31.3	ND	32	102	31	99	3.3	25	85-125
Gasoline	8015	<50.0	484	ND	484	100	441	91	9.4	25	74-122
aaa-TFT(S.S.)-PID	8020		T	112%	109%		104%				65-135
aaa-TFT(S.S.)-FID	8015			99%	99%		98%				65-135

Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank SA: Spike Added SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result
SP (%R): Spike % Recovery
SPD: Spike Duplicate Result
SPD (%R): Spike % Recovery
nc: Not Calculated

525 Del Rey Avenue, Suite E Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography Laboratory Control Sample

QC Batch #: WGBG2000509

Matrix: Water Units: μg/Liter Date Analyzed: 05/09/00 Quality Control Sample: Blank Spike

	ю. г-										
PARAMETER	Method #	MB μg/Liter	SA µg/Liter	SR µg/Liter	SP µg/Liter	SP % R	SPD μg/Liter	SPD %R	RPD	RPD	C LIMITS %R
Benzene	8020	<0.50	4.3	ND	3.4	78	3.4	80	1.9	25	67-115
Toluene	8020	< 0.50	28.0	ND	28	101	28	101	0.0	25	82-122
Ethyl Benzene	8020	<0.50	5.6	ND	5.6	100	5.6	100	0.4	25	77-114
Xylenes	8020	< 0.50	31.3	ND	32	101	32	101	0.2	25	85-125
Gasoline	8015	<50.0	484	ND	461	95	466	96	1.1	25	74-122
aaa-TFT(S.S.)-PID	8020		ī	99%	96%		101%			•	65-135
aaa-TFT(S.S.)-FID	8015		,	109%	104%		105%				65-135

Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank SA: Spike Added SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result
SP (%R): Spike % Recovery
SPD: Spike Duplicate Result
SPD (%R): Spike % Recovery
nc: Not Calculated

QUALITY CONTROL RESULTS SUMMARY

Volatile Organic Compounds Laboratory Control Sample

QC Batch #: WMS000505

Matrix: Liquid

Units: µg/L

Date analyzed: 05/05/00

Spiked Sample: Blank Spike

PARAMETER	Method #	SA μg/L	SR μg/L	SP μg/L	SP %R	SPD μg/L	SPD %R	RPD	RPD	QC LIMITS %R
1,1- Dichloroethene	8240/8260	40	ND	40.3	101	43.2	108	6.9	25	50-150
Methyl-tert-butyl ether	8240/8260	40	ND	38.4	96	39.4	99	2.6	25	50-150
Benzene	8240/8260	40	ND	39.0	98	42.5	106	8.6	25	50-150
Trichloroethene	8240/8260	40	ND	42.0	105	46.2	116	9.5	25	50-150
Toluene	8240/8260	40	ND	38.9	97	42.1	105	7.9	25	50-150
Chlorobenzene	8240/8260	40	ND	40.3	101	43.9	110	8.6	25	50-150
Surrogates									•	
Toluene -d8	8240/8260		96%	97%		98%				65-135
Dibromofluoromethane	8240/8260		105%	108%		107%			Ì	65-135
4-Bromofluorobenzene	8240/8260		91%	978%		100%			•	65-135
MTBE-d3	8240/8260		116%	111%		110%			i i i	65-135

Definition of Terms:

na: Not Analyzed in QC batch

SA: Spike Added SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result
SP (%R): Spike % Recovery
SPD: Spike Duplicate Result
SPD (%R): Spike Duplicate % Recovery

525 Del Rey Avenue, Suite E Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography Laboratory Control Sample

QC Batch #: WGC4000504

Matrix: Liquid Units: µg/Liter Date Analyzed: 05/04/00 Quality Control Sample: Blank Spike

PARAMETER	Method #	MB μg/Liter	SA μg/Liter	SR µg/Liter	SP μg/Liter	SP % R	SPD µg/Liter	SPD %R	% RPD	QC RPD	CLIMITS %R
Benzene	8020	< 0.50	4.7	ND	4.9	104	4.5	96	8.7	25	70-130
Toluene	8020	< 0.50	29	ND	27	94	29	99	5.2	25	70-130
Ethyl Benzene	8020	< 0.50	5.6	ND	5.2	93	5.5	98	4.6	25	70-130
Xylenes	8020	< 0.50	32	ND	31	96	32	100	4.0	25	70-130
Gasoline	8015	<50.0	469	ND	448	96	455	97	1.4	25	70-130
aaa-TFT(S.S.)-FID	8020		•	113%	103%	•	106%				65-135
aaa-TFT(S.S.)-PID	8015			106%	97%		102%				65-135

Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank SA: Spike Added SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result
SP (%R): Spike % Recovery
SPD: Spike Duplicate Result
SPD (%R): Spike % Recovery

nc: Not Calculated

525 Del Rey Avenue, Suite E Sunnyvale, CA 94086

QUALITY CONTROL RESULTS SUMMARY

METHOD: Gas Chromatography Laboratory Control Spikes

QC Batch #: DW000501

Date analyzed:

05/03/00

Matrix: Liquid Units: μg/L Date extracted:

05/03/00

Quality Control Sample:

Blank Spike

PARAMETER	Method #	MB μg/L	SA μg/L	SR μg/L	SP μg/L	SP %R	SPD µg/L	SPD %R	RPD	RPD	C LIMITS %R
Diesel	8015M	<50.0	1000	ND	985	99	929	93	6	25	60-121

Hexocosane(S.S.)

115% 112%

107%

65-135

Definition of Terms:

na: Not Analyzed in QC batch

MB: Method Blank

SA: Spike Added

SR: Sample Result

RPD(%): Duplicate Analysis - Relative Percent Difference

SP: Spike Result

SP (%R) Spike % Recovery

SPD: Spike Duplicate Result

SPD (%R) Spike Duplicate % Recovery

NC: Not Calculated

CHAIN OF CUSTODY RECORD

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CROSS REFERENCE NUMBER	DATE	TIME	\$ 0 L	W A T E	SAM	PLE LOCA	ATION	,	201/		\$7.04 \$7.04	//	//		REMARKS
MW-I	05/01/00	15:56		Χ	Monitor	Well	# MW-1	X	Х	<u>x</u>				20276	1-00/
	05/01/00	16:33		X	t _f	· '	# MW-2	X	X	X				1-1	-002
	05/01/00	17:13		X.	Ц	ą.	4 MW-3	X	X	X					-003
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