STATE OF CALIFORNIA—BUSINESS, TRANSPORTATION AND HOUSING AGENCY GRAY DAVIS, Governor

DEPARTMENT OF TRANSPORTATION
BOX 23660
OAKLAND, CA 94623-0660
(510) 286-4444
TDD (510) 286-4454

August 2, 2001

AUG 07 2001

Mr. Barney Chan
Alameda County Department of Health Services
1131 Harborway Parkway
Alameda, California 94502

#2189

Subject: Semi-Annual Groundwater Monitoring Report for the California Department of Transportation's former Hegenberger Maintenance Station, in Oakland, California

555 Hegenberger Rd

Dear Mr. Chan:

Attached is a copy of Geocon Environmental Consultant's, Inc. "*Semi-Annual Ground Water Monitoring Report, First Quarter, 2001, Former Hegenberger Maintenance Station, 555 Hegenberger Road, Oakland, California*" dated June 2001 for work performed at the above-referenced site. The results of the sampling and analysis indicate that Total Petroleum Hydrocarbons as gasoline (TPHg) and diesel (TPHd) remain relatively stabile in all five monitoring wells as are Benzene, Toluene, Ethylbenzene and Toluene (BTEX) concentrations. Methyl-tertiary Butyl Ether (MtBE) was not detected in any of the groundwater samples collected from the monitoring wells.

We will continue to perform semi-annual monitoring on the wells, unless we are directed to do differently by you.

If you have any questions or require additional information, please contact me at (510) 286-5668 or Ms. Frances Maroni of my staff at (510) 286-5657.

Sincerely,

HARRY Y. YAHATA
District Director

By: Ray Boyer

RAY BOYER
District Branch Chief
Office of Environmental Engineering

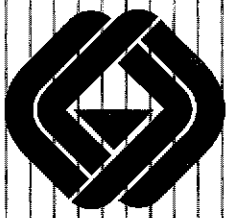
Attachment

cc: Regional Water Quality Control Board, RBoyer, File

SEMI-ANNUAL GROUNDWATER MONITORING REPORT

FIRST QUARTER 2001

FORMER HEGENBERGER MAINTENANCE STATION 555 HEGENBERGER ROAD OAKLAND, CALIFORNIA



GEOCON

GEOTECHNICAL
&
ENVIRONMENTAL
CONSULTANTS

PREPARED FOR

CALIFORNIA DEPARTMENT OF TRANSPORTATION
DISTRICT 4

OAKLAND, CALIFORNIA

TASK ORDER NO. 04-987901-9A

GEOCON PROJECT NO. E8000-06-63

JUNE 2001

GEOCON
CONSULTANTS, INC.
ENVIRONMENTAL ■ GEOTECHNICAL ■ MATERIALS

Project No. E8000-06-63
June 29, 2001

Ms. Frances Maroni
California Department of Transportation
District 4
111 Grand Avenue, 14th Floor
Post Office Box 23660
Oakland, California 94623-0660

Subject: SEMI-ANNUAL GROUNDWATER MONITORING REPORT
FIRST QUARTER 2001
FORMER HEGENBERGER MAINTENANCE STATION
555 HEGENBERGER ROAD
OAKLAND, CALIFORNIA
CONTRACT NO. 43A0012
TASK ORDER NO. 04-987901-9A

Dear Ms. Maroni:

In accordance with California Department of Transportation (Caltrans) Contract No. 43A0012 and Task Order No. 04-987901-9A, Geocon Consultants, Inc. has performed environmental engineering services at the project site. The project site consists of the Former Hegenberger Maintenance Station located at 555 Hegenberger Road in Oakland, California.

The accompanying report summarizes the services performed consisting of the collection of groundwater samples and laboratory analyses.

The contents of this report reflect the views of Geocon Consultants, Inc., who is responsible for the facts and accuracy of the data presented herein. The contents do not necessarily reflect the official views or policies of the State of California or the Federal Highway Administration. This report does not constitute a standard, specification, or regulation.

If there are any questions concerning the contents of this report, or if Geocon may be of further service, please contact the undersigned at your convenience.

Sincerely,

GEOCON CONSULTANTS, INC.

for: Ross J. White
Sr. Staff Geologist

Richard Day, CEG, CHG
Regional Manager

STATE OF CALIFORNIA
CERTIFIED ENGINEERING GEOLOGIST
1849
RICHARD DAY
REGISTERED GEOLOGIST

RJW:RWD:rjw

(4) Addressee

TABLE OF CONTENTS

SITE INVESTIGATION REPORT

1.0 INTRODUCTION

This Groundwater Monitoring Report for the former Hegenberger California Department of Transportation (Caltrans) Maintenance Station was prepared under Caltrans Contract No. 43A0012 and Task Order (TO) No. 04-987901-9A.

1.1 Site Description

The subject site is located at 555 Hegenberger Road in Oakland, California. The site is used by Caltrans to store and service maintenance vehicles and equipment. The approximate location of the site is depicted on the attached Vicinity Map presented as Figure 1. The approximate site boundaries and existing structures are depicted on the Site Plan presented as Figure 2.

1.2 Background

This section presents a summary of the project background information based on the background section of the subject TO.

In September 1994, four underground storage tanks (USTs) and the associated product piping and pump island were removed. The USTs consisted of two 2,000-gallon diesel and two 6,500-gallon gasoline tanks. During the UST removal, the UST areas were over excavated and the soil was disposed of. Soil samples collected from the tank excavation exhibited concentrations of total petroleum hydrocarbons as gasoline (TPHg), diesel (TPHd), and oil and grease (TPHo&g), and benzene, toluene, ethylbenzene, and xylenes (BTEX).

To evaluate the potential impacts to groundwater and soil beneath the site, a soil and groundwater investigation was conducted by Geocon in September and October 1995. The investigation included the installation of five monitoring wells (MW1 through MW5). The investigation indicated that groundwater and soil beneath the site was impacted by petroleum hydrocarbons.

Based on the findings of the investigation, the Alameda County Department of Environmental Health Services (ACDEHS) requested quarterly groundwater monitoring. The five monitoring wells were monitored quarterly from October 1995 through November 1996 and again in February 1998.

Total Petroleum Hydrocarbons as motor oil (TPHmo) and TPHo&g were not detected in groundwater samples. Consequently, analyses of these compounds were discontinued. TPHg, TPHd, and BTEX have historically been detected in groundwater. Since these constituents have not

attenuated over time, the ACDEHS has requested semi-annual monitoring of groundwater beneath the site.

1.3 Purpose

The purpose of the scope of work performed by Geocon is to continue to monitor groundwater for the contaminants of concern.

2.0 SCOPE OF SERVICES

The following scope of services was performed as requested by Caltrans in TO No. 04-987901-9A.

2.1 Pre-Field Activities

- Prepared a *Health and Safety Plan* for the proposed field activities. The health and safety plan provided guidelines on the use of personal protective equipment and the health and safety procedures to be implemented during the proposed field activities.

- Retained the services of: Advanced Technology Laboratories (ATL), a California-certified hazardous materials testing laboratory (ELAP No. 1838), to perform laboratory analyses.

2.2 Field Activities

[redacted] On March 30, 2001, the monitoring wells were purged and subsequently sampled. The groundwater samples were analyzed for the presence of TPHg, TPHd, BTEX, Fuel Oxygenate Compounds (FOCs), and Volatile Organic Compounds (VOCs).

3.0 INVESTIGATIVE METHODS

3.1 Groundwater Sampling

At the time of groundwater sampling, groundwater was measured at depths ranging from 1.51 to 2.02 meters (4.95 to 6.64 feet) below the top of the well casings. Prior to sampling the wells, approximately three casing volumes of groundwater were purged from each well. The purging was accomplished utilizing a battery-operated submersible pump. The pump was cleansed prior to use by washing the pump with an Alconox solution followed by two rinses with distilled water. During the well purging, groundwater temperature, pH, and conductivity, were periodically recorded.

After purging the monitoring wells, groundwater samples were collected utilizing disposable polyethylene bailers. The groundwater samples were transferred to laboratory-provided containers, labeled, and placed in a cooler with ice and transported to ATL using chain-of-custody documentation. The purged groundwater generated during development and sampling was containerized in 55-gallon drums and stored on-site pending disposal.

3.2 Laboratory Analyses

As required by the subject TO, Geocon instructed the analytical laboratory to perform the following laboratory analyses under a standard turn-around-time:

- TPHg following EPA Test Method 8015;
- BTEX following EPA Test Method 8020; and
- FOCs and VOCs following EPA Test Method 8260B.

TPHd ?

Reproductions of the laboratory reports and chain of custody documentation are presented as Appendix A. The laboratory QA/QC procedures included the following:

- One method blank for every ten samples, batch of samples or type of matrix, whichever was more frequent.
- One sample analyzed in duplicate for every ten samples, batch of samples or type of matrix, whichever was more frequent.
- One spiked sample for every ten samples, batch of samples or type of matrix, whichever was more frequent, with spike made at ten times the detection limit or at the analyte level.

Prior to submitting the soil samples to the laboratory, the chain-of-custody documentation was reviewed for accuracy and completeness.

4.0 FIELD OBSERVATIONS AND INVESTIGATIVE RESULTS

4.1 Site Hydrogeology

During the sampling activities, groundwater beneath the site ranged in elevation from approximately 93.04 to 94.78 feet above an arbitrary datum. Historical groundwater level measurements are presented as Table 1. Based on the depth to groundwater from the most recent sampling event, a predominant hydraulic gradient is not apparent at the site. [redacted] It is likely that observed water levels are influenced by tidal variations in nearby San Leandro Bay. Due to the site proximity to San Leandro Bay, the assumed predominant gradient is to the northwest.

not likely

4.2 Analytical Results

A summary of the most recent analytical laboratory results is presented as a portion of Table 2. The results are discussed below:

- Concentrations of [redacted] limit of 0.20 milligrams per liter [redacted]
- Diesel-range hydrocarbons were detected at concentrations ranging from 0.35 to 0.49 mg/l. The laboratory report indicated that the hydrocarbons did not match the diesel pattern and that quantitation was based on the diesel standard.
- Benzene was detected at concentrations ranging from 2.7 micrograms per liter (ug/l) in MW2 to 2,800 ug/l in MW3.
- Toluene was detected at concentrations ranging from 0.82 ug/l in MW2 to 73 ug/l in MW3.
- Concentrations of ethylbenzene ranged from less than the laboratory reporting limit of 0.50 ug/l in MW2 and MW5 to 52 ug/l in MW3.
- Xylenes were detected at concentrations ranging from 0.84 to 49 ug/l in MW3.
- FOCs including methyl tertiary butyl-ether (MTBE) were not detected at concentrations greater than respective laboratory reporting limits.
- Other various VOCs were detected in groundwater samples collected from monitoring wells MW3 through MW5 as shown in Table 2.

5.0 CONCLUSIONS AND RECOMMENDATIONS

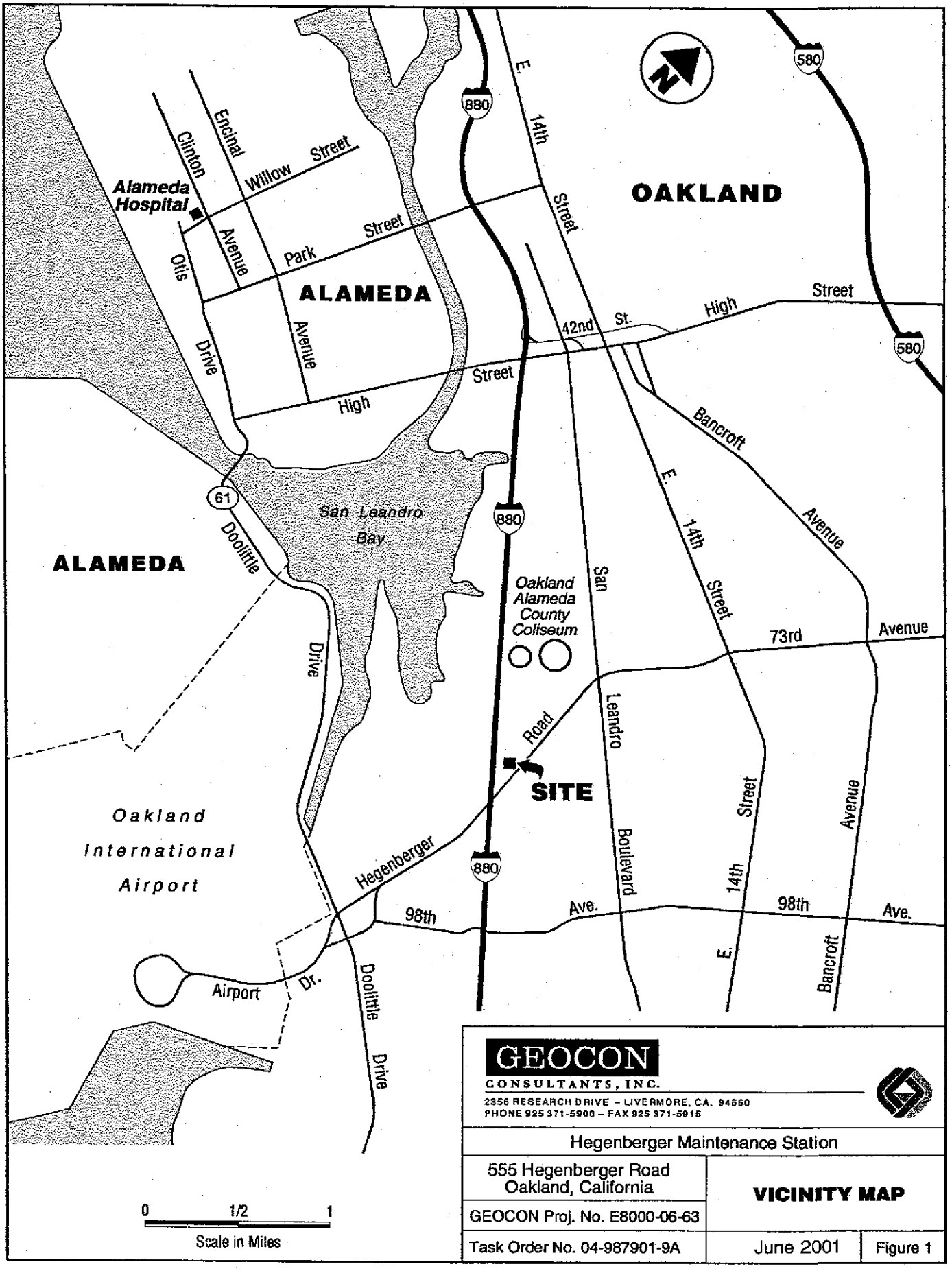
Analytical laboratory data indicates that TPHg TPHd, and BTEX impacts are present at the highest concentrations in monitoring well MW3. However, the majority of these compounds were detected in all monitoring wells and concentrations have not changed significantly since the last monitoring event in February 1998.

Based on the laboratory data, the extents of the impacts have not been established and additional monitoring wells may need to be installed. At this time, Geocon recommends that the on-site monitoring wells continue to be monitored semi-annually for TPHg, TPHd, BTEX, and FOCs.

6.0 REPORT LIMITATIONS

This report has been prepared exclusively for Caltrans. The information contained herein is only valid as of the date of the report, and will require an update to reflect additional information obtained.

This report is not a comprehensive site characterization and should not be construed as such. The findings as presented in this report are predicated on the results of the limited sampling and laboratory testing performed. In addition, the information obtained is not intended to address potential impacts related to sources other than those specified herein. Therefore, the report should be deemed conclusive with respect to only the information obtained. We make no warranty, express or implied, with respect to the content of this report or any subsequent reports, correspondence or consultation. Geocon strived to perform the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.



GEOCON
CONSULTANTS, INC.
2356 RESEARCH DRIVE – LIVERMORE, CA. 94550
PHONE 925 371-5900 – FAX 925 371-5915

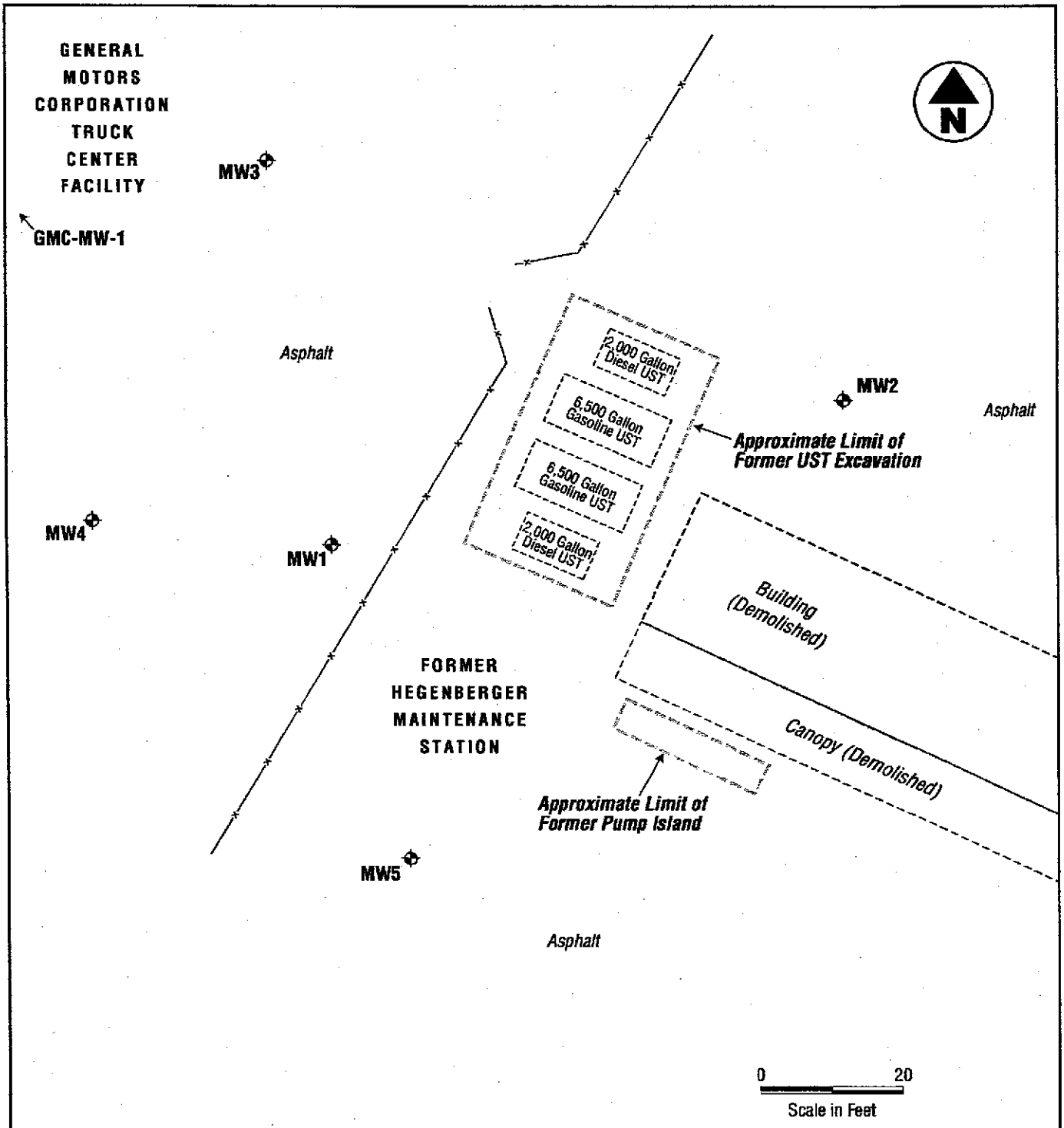
Hegenberger Maintenance Station

555 Hegenberger Road
Oakland, California

VICINITY MAP

GEOCON Proj. No. E8000-06-63

Task Order No. 04-987901-9A | June 2001 | Figure 1



LEGEND:

Location of Former UST

MW1 Location of Groundwater Monitoring Well, GEOCON, Sept. 95

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Hegenberger Maintenance Station

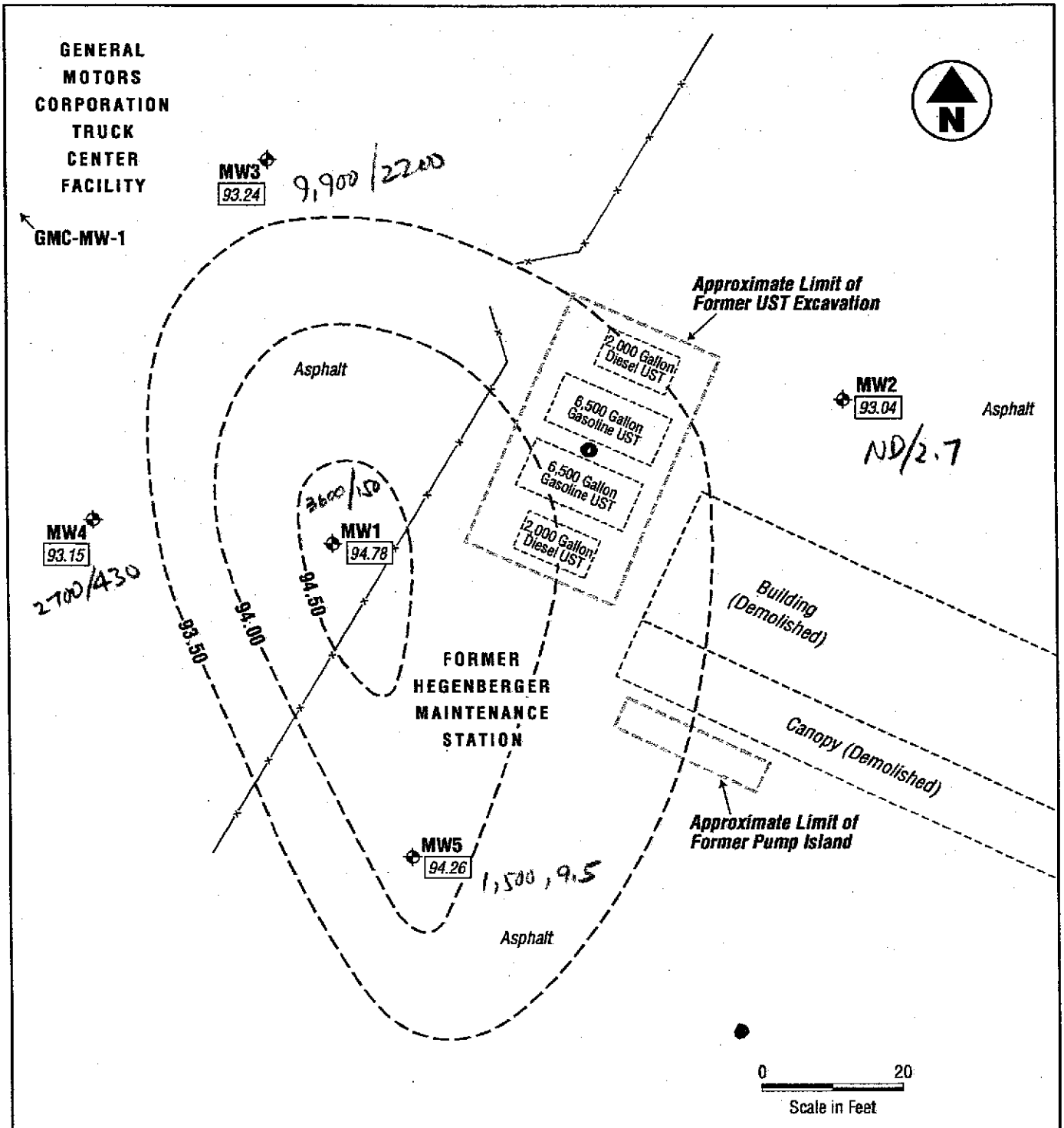
555 Hegenberger Road
Oakland, California

SITE PLAN

GEOCON Proj. No. E8000-06-63

Task Order No. 04-987901-9A | June 2001 | Figure 2

Recommend backfill tank pit
② further dg



g/benzene ppb

LEGEND:

- Location of Former UST
- MW1 — Location of Groundwater Monitoring Well, GEOCON, Sept. 95
- Groundwater Elevation Contour (Interval = 0.50 Ft.)
- 93.15 — Relative Elevation of Groundwater Measured 3/30/01

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Hegenberger Maintenance Station

555 Hegenberger Road
Oakland, California

GROUNDWATER ELEVATION MAP – MARCH 2001

GEOCON Proj. No. E8000-06-63

Task Order No. 04-987901-9A

June 2001

Figure 3

TABLE 1
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER HEGENBERGER MAINTENANCE STATION

Well	Date	TOC Elevation (Feet, REF)	Depth to Water (Feet, BTOC)	Water Elevation (Feet, REF)
MW1	10/11/1995	99.73	6.55	93.18
	1/17/1996	99.73	5.64	94.09
	4/16/1996	99.73	5.46	94.27
	8/26/1996	99.73	5.91	93.82
	11/14/1996	99.73	6.16	93.57
	2/18/1998	99.73	3.82	95.91
	3/30/2001	99.73	4.95	94.78
MW2	10/11/1995	99.68	6.88	92.80
	1/17/1996	99.68	5.32	94.36
	4/16/1996	99.68	5.81	93.87
	8/26/1996	99.68	5.98	93.70
	11/14/1996	99.68	6.72	92.96
	2/18/1998	99.68	5.01	94.67
	3/30/2001	99.68	6.64	93.04
MW3	10/11/1995	98.92	6.42	92.50
	1/17/1996	98.92	5.82	93.10
	4/16/1996	98.92	5.85	93.07
	8/26/1996	98.92	5.72	93.20
	11/14/1996	98.92	6.28	92.64
	2/18/1998	98.92	4.65	94.27
	3/30/2001	98.92	5.68	93.24
MW4	10/11/1995	99.46	6.63	92.83
	1/17/1996	99.46	5.77	93.69
	4/16/1996	99.46	5.89	93.57
	8/26/1996	99.46	6.14	93.32
	11/14/1996	99.46	6.72	92.74
	2/18/1998	99.46	5.02	94.44
	3/30/2001	99.46	6.31	93.15

TABLE 1
SUMMARY OF GROUNDWATER LEVEL MEASUREMENTS
FORMER HEGENBERGER MAINTENANCE STATION

Well	Date	TOC Elevation (Feet, REF)	Depth to Water (Feet, BTOC)	Water Elevation (Feet, REF)
MW5	10/11/1995	99.91	6.68	93.23
	1/17/1996	99.91	5.74	94.17
	4/16/1996	99.91	5.85	94.06
	8/26/1996	99.91	5.99	93.92
	11/14/1996	99.91	6.70	93.21
	11/14/1996	99.91	6.70	93.21
	2/18/1998	99.91	5.74	94.17
	3/30/2001	99.91	5.65	94.26

Notes:

Feet, BTOC = Feet below top of well casing

TOC = Top of well casing

Feet, REF = Feet, with respect to an arbitrary datum reference

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER HEGENBERGER MAINTENANCE STATION

Well	Date	TPHg (mg/l)	TPHd (mg/l)	TPHmo (mg/l)	Oil & Grease (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	FOCs (ug/l)	Other VOCs (ug/l)
MW1	10/11/1995	0.720	< 0.050	< 0.050	< 5	660	13	4.7	2.8	---	---
	1/17/1996	4.40	< 0.050	< 0.050	---	1,000	30	21	17	---	---
	4/16/1996	6.05	7.45	---	---	914	34.7	34.4	15.8	---	---
	8/26/1996	3.8	0.430	---	---	780	23	21	20	---	---
	11/14/1996	2.6	0.270	---	---	500	18	14	8.9	---	---
	2/18/1998	3.1	0.900	---	---	240	18	7.8	11	MTBE = 20	---
	3/30/2001	3.6	0.48*	---	---	150	13	0.69	10.8	ND	< 5.0
MW2	10/11/1995	< 0.050	< 0.050	< 0.050	< 5	<0.3	<0.3	<0.3	<0.5	---	---
	1/17/1996	4.90	< 0.050	< 0.050	---	2,100	<15	<15	<15	---	---
	4/16/1996	< 0.050	< 0.050	---	---	1.02	<0.5	<0.5	<0.5	---	---
	8/26/1996	< 0.050	< 0.050	---	---	<0.5	<0.5	<0.5	<0.5	---	---
	11/14/1996	< 0.050	0.056	---	---	<0.5	<0.5	<0.5	<0.5	---	---
	2/18/1998	< 0.050	0.260	---	---	<0.5	<0.5	<0.5	<0.5	MTBE = <0.5	---
	3/30/2001	< 0.20	0.37*	---	---	2.7	0.82	< 0.50	0.84	ND	< 5.0

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER HEGENBERGER MAINTENANCE STATION

Well	Date	TPHg (mg/l)	TPHd (mg/l)	TPHmo (mg/l)	Oil & Grease (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	FOCs (ug/l)	Other VOCs (ug/l)
MW3	10/11/1995	1.30	< 0.050	< 0.050	< 5	1.0	<0.3	<0.3	<0.3	---	---
	1/17/1996	0.171	< 0.050	< 0.050	---	64	<0.3	1.0	<0.3	---	---
	4/16/1996	6.74	0.565	---	---	2,770	31	13.9	21.9	---	---
	8/26/1996	0.700	0.700	---	---	180	4.2	1.0	4.6	---	---
	11/14/1996	0.300	0.120	---	---	6.2	1.2	0.7	1.4	---	---
	2/18/1998	11.0	2.50	---	---	3,070	50	54	19	MTBE = 25	---
	3/30/2001	9.9	0.49*	---	---	2000 (2,800)	48 (71)	39 (52)	39 (49)	ND	Isopropylbenzene = 92 n-Butylbenzene = 36 n-Propylbenzene = 280 sec-Butylbenzene = 13
MW4	10/11/1995	0.500	< 0.050	< 0.050	< 5	17	1.1	<0.3	0.48	---	---
	1/17/1996	0.459	< 0.050	< 0.050	---	72	4.1	<0.3	1.7	---	---
	4/16/1996	2.20	< 0.050	---	---	851	7.67	1.41	5.72	---	---
	8/26/1996	0.300	0.110	---	---	55	4.9	1.2	<0.5	---	---
	11/14/1996	0.200	0.200	---	---	3.4	<0.5	<0.5	<0.5	---	---
	2/18/1998	1.60	0.280	---	---	320	9.1	1.0	0.59	MTBE = 1.7	---
	3/30/2001	2.7	0.35*	---	---	320 (430)	16 (22)	5.3	13.6 (13)	ND	Isopropylbenzene = 6.4

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
FORMER HEGENBERGER MAINTENANCE STATION

Well	Date	TPHg (mg/l)	TPHd (mg/l)	TPHmo (mg/l)	Oil & Grease (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	FOCs (ug/l)	Other VOCs (ug/l)
MW5	10/11/1995	1.00	< 0.050	< 0.050	< 5	45	15	1.9	6.1	---	---
	1/17/1996	< 0.050	< 0.050	< 0.050	---	2	<0.3	<0.3	<0.3	---	---
	4/16/1996	1.74	0.855	---	---	157	20.1	3.92	22.4	---	---
	8/26/1996	0.900	0.270	---	---	55	6.4	0.9	3.7	---	---
	11/14/1996	0.700	0.320	---	---	31	5.7	0.7	3.6	---	---
	2/18/1998	1.20	0.580	---	---	14	5.2	0.76	5.5	MTBE = 9.5	---
	3/30/2001	1.5	0.48*	---	---	7.2 (9.5)	6.5 (9.6)	< 0.50	10.7 (11)	ND	n-Propylbenzene = 5.1

Notes:

TPHg = Total Petroleum Hydrocarbons as gasoline following EPA Test Method 8015B
TPHd = Total Petroleum Hydrocarbons as diesel following EPA Test Method 8015B
TPHmo = Total Petrolcum Hydrocarbons as motor oil following EPA Test Method 8015B
BTEX = benzene, toluene, ethylbenzene, and total xylenes following EPA Test Method 8020 (8260)
FOCs = Fuel Oxygenate Compounds (tert-butanol, methyl tertiary butylether [MTBE], di-isopropyl ether, ethyl tertiary butylether [ETBE], and tertiary amyl methylether[TAME]) following EPA Test Method 8020/8260B
mg/l = milligrams per liter
ug/l = micrograms per liter
--- = Analysis not performed
(xxx) = BTEX result by EPA Test Method 8260B
ND = Not detected at a concentration greater than the laboratory reporting limit.
< = less than indicated reporting limit
* = The sample contains hydrocarbons that fall within the diesel range but do not match the diesel pattern. Quantitation is based on the diesel standard.

Hegen Q1, 2001

April 09, 2001

Ross White
Geocon Environmental
5673 W. Las Positas Blvd., Ste 205
Pleasanton, CA 94588
TEL: (925) 469-9750
FAX (925) 469-9749

ELAP No: 1838

RE: Hegenberger M.S. - E8000-06-63

Work Order No.: 050402

Attention: Ross White

Enclosed are the results for sample(s) received on April 02, 2001 by Advanced Technology Laboratories and tested for the parameters indicated in the enclosed chain of custody.

Thank you for the opportunity to service the needs of your company.

Please feel free to call me at (562)989-4045 if I can be of further assistance to your company.

Sincerely,

Edgar Caballero
Laboratory Director

This cover letter and a case narrative are an integral part of this analytical report.

CHAIN OF CUSTODY RECORD

Advanced Technology Laboratories
1510 E. 33rd Street
Signal Hill, CA 90807
(562) 989-4045 • FAX (562) 989-4040

FOR LABORATORY USE ONLY:

P.O.#: _____

Logged By: _____ Date: _____ Time: _____

Method of Transport: Walk-in ☐ Courier ☐ UPS ☐ FED. EXP. ☐ ATL ☐

Sample Condition Upon Receipt: 1. CHILLED Y☐ N☐ 4. SEALED Y☐ N☐ 2. HEADSPACE (VOA) Y☐ N☐ 5. # OF SPLS MATCH COC Y☐ N☐ 3. CONTAINER INTACT Y☐ N☐ 6. PRESERVED Y☐ N☐

Client: Geocon (Pleasanton) Address: Pleasanton TEL: (925) 469-9758
Attn: Ross White City State Zip Code FAX: ( ) 469-9749

Project Name: Hegenberger M.S. Project #: 8000-06-63 Sampler: (Printed Name) Travis Wells (Signature)

Relinquished by: (Signature and Printed Name)	Date: 3/30	Time: 1700	Received by: (Signature and Printed Name) Fed-Ex	Date: 3/30	Time: 1700
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date: 4-2-01	Time:
Relinquished by: (Signature and Printed Name)	Date:	Time:	Received by: (Signature and Printed Name)	Date:	Time:

I hereby authorize ATL to perform the work indicated below:
Project Mgr /Submitter: Travis Wells 3/30/01 (Print Name / Date) _____ (Signature)

Send Report To: Attn: _____ Co: _____ Address _____ City _____ State____ Zip____

Bill To: Attn: _____ Co: _____ Address _____ City _____ State____ Zip____

Special Instructions/Comments: TPHd Detect limit must not be greater than 0.05 mg/L 3630 L

Unless otherwise requested, all samples will be disposed 45 days after receipt.

Sample Archive/Disposal:
☐ Laboratory Standard
☐ Other_____
☐ Return To: _____
* $10.00 FEE PER HAZARDOUS SAMPLE DISPOSAL.

Circle or Add Analysis(es) Requested: 8081 / 8082 (Pesticides/PCB-GC) | 8260 (Volatiles-GC/MS) | 625 / 8270 (BNA-GC/MS) | Metals-Total (CAC-6010 / 7000) | 8015M TPHG/BTEX COMBINATION | 8015M TPHD (Diesel-GC) | VOCs / SVOCs 8260 Silica Gel Cleanup

CIRCLE APPROPRIATE MATRIX: SOLID • SOIL • SLUDGE | OIL • SOLVENT • LIQUID | WATER • WASTEWATER | DRINKING WATER | AIR | WIPE • FILTER | OTHER

PRESERVATION | QA/QC: RTNE ☐ RWQCB ☐ WIP ☐ NAVY ☐ CT ☒ OTHER ☐

ITEM	LAB USE ONLY: Batch #: / Lab No.	Sample Description: Sample I.D.	Date	Time	TAT	Container(s): #	Type	PRESERVATION	REMARKS
	50402-001A	MW-5	3/30	PM	E	3	VG	H	
	1B	MW-5				1	LG	C	
	2A	MW-2							
	2B	MW-2							
	3A	MW-1							
	3B	MW-1							
	4A	MW-4							
	4B	MW-4							
	5A	MW-3							
	5B	MW-3							

• TAT starts 8 a.m. following day if samples received after 5 p.m.

TAT: A= Overnight ≤ 24 hr B= Emergency Next workday C= Critical 2 Workdays D= Urgent 3 Workdays E= Routine 7 Workdays

Container Types: T=Tube V=VOA L=Liter P=Pint J=Jar B=Tedlar G=Glass P=Plastic M=Metal

Preservatives: H=HCl N=HNO_3 S=H_2SO_4 C=4°C Z=Zn(AC)$_2$ O=NaOH T=$Na_2S_2O_3$

DISTRIBUTION: White with report Yellow to folder, Pink to submitter.

CLIENT: Geocon Environmental
Project: Hegenberger M.S. - E8000-06-63
Lab Order: 050402

CASE NARRATIVE

Samples 050402-001B, 050402-002B, 050402-003B, 050402-004B and 050402-005B contain hydrocarbons that fall within the Diesel range, but does not match the Diesel pattern. Quantitation is based on the Diesel standard.

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *4/9/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-5
Lab Order:	050402		
Project:	Hegenberger M.S. - E8000-06-63	**Collection Date:**	3/30/01
Lab ID:	050402-001A	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID		**EPA 8015B(M)**				Analyst: **JPC**
RunID: **GC6_010404A** BatchID: **I018G20W055**						PrepDate:
GRO	1.5	0.20		mg/L	1	4/4/01
VOLATILE ORGANIC COMPOUNDS BY GC/PID		**EPA 8020A**				Analyst: **JPC**
RunID: **GC6_010404A** BatchID: **I018G20W055**						PrepDate:
Benzene	7.2	0.50		µg/L	1	4/4/01
Ethylbenzene	ND	0.50		µg/L	1	4/4/01
m,p-Xylene	8.4	0.50		µg/L	1	4/4/01
o-Xylene	2.3	0.50		µg/L	1	4/4/01
Toluene	6.5	0.50		µg/L	1	4/4/01
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404B** BatchID: **Q01VOCW075**						PrepDate:
Di-isopropyl ether	ND	5.0		µg/L	1	4/5/01
Ethyl tert-butyl ether	ND	5.0		µg/L	1	4/5/01
MTBE	ND	5.0		µg/L	1	4/5/01
Tert-amyl methyl ether	ND	5.0		µg/L	1	4/5/01
Tert-Butanol	ND	200		µg/L	1	4/5/01

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- DO - Surrogate Diluted Out
- S - Spike/Surrogate outside of limits due to matrix interference.
- H - Samples exceeding analytical holding time
- E - Value above quantitation range
- M - Not Monitored. Highly Reactive

Initials: _____

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *4/9/01*

CLIENT: Geocon Environmental
Client Sample ID: MW-5
Lab Order: 050402
Project: Hegenberger M.S. - E8000-06-63
Collection Date: 3/30/01
Lab ID: 050402-001A
Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404B** BatchID: **Q01VOCW075**						PrepDate:
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	1	4/5/01
1,1,1-Trichloroethane	ND	5.0		µg/L	1	4/5/01
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	4/5/01
1,1,2-Trichloroethane	ND	5.0		µg/L	1	4/5/01
1,1-Dichloroethane	ND	5.0		µg/L	1	4/5/01
1,1-Dichloroethene	ND	5.0		µg/L	1	4/5/01
1,1-Dichloropropene	ND	5.0		µg/L	1	4/5/01
1,2,3-Trichlorobenzene	ND	5.0		µg/L	1	4/5/01
1,2,3-Trichloropropane	ND	5.0		µg/L	1	4/5/01
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	4/5/01
1,2,4-Trimethylbenzene	ND	5.0		µg/L	1	4/5/01
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	4/5/01
1,2-Dibromoethane	ND	5.0		µg/L	1	4/5/01
1,2-Dichlorobenzene	ND	5.0		µg/L	1	4/5/01
1,2-Dichloroethane	ND	5.0		µg/L	1	4/5/01
1,2-Dichloropropane	ND	5.0		µg/L	1	4/5/01
1,3,5-Trimethylbenzene	ND	5.0		µg/L	1	4/5/01
1,3-Dichlorobenzene	ND	5.0		µg/L	1	4/5/01
1,3-Dichloropropane	ND	5.0		µg/L	1	4/5/01
1,4-Dichlorobenzene	ND	5.0		µg/L	1	4/5/01
2,2-Dichloropropane	ND	5.0		µg/L	1	4/5/01
2-Chlorotoluene	ND	5.0		µg/L	1	4/5/01
4-Chlorotoluene	ND	5.0		µg/L	1	4/5/01
4-Isopropyltoluene	ND	5.0		µg/L	1	4/5/01
Benzene	9.5	5.0		µg/L	1	4/5/01
Bromobenzene	ND	5.0		µg/L	1	4/5/01
Bromodichloromethane	ND	5.0		µg/L	1	4/5/01
Bromoform	ND	5.0		µg/L	1	4/5/01
Bromomethane	ND	5.0		µg/L	1	4/5/01
Carbon tetrachloride	ND	5.0		µg/L	1	4/5/01
Chlorobenzene	ND	5.0		µg/L	1	4/5/01
Chloroethane	ND	5.0		µg/L	1	4/5/01
Chloroform	ND	5.0		µg/L	1	4/5/01
Chloromethane	ND	5.0		µg/L	1	4/5/01
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	4/5/01
Dibromochloromethane	ND	5.0		µg/L	1	4/5/01
Dibromomethane	ND	5.0		µg/L	1	4/5/01
Dichlorodifluoromethane	ND	5.0		µg/L	1	4/5/01

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: _____

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *4/9/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-5
Lab Order:	050402		
Project:	Hegenberger M.S. - E8000-06-63	**Collection Date:**	3/30/01
Lab ID:	050402-001A	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404B** BatchID: **Q01VOCW075**						PrepDate:
Ethylbenzene	ND	5.0		µg/L	1	4/5/01
Hexachlorobutadiene	ND	5.0		µg/L	1	4/5/01
Isopropylbenzene	ND	5.0		µg/L	1	4/5/01
m,p-Xylene	11	5.0		µg/L	1	4/5/01
Methylene chloride	ND	5.0		µg/L	1	4/5/01
n-Butylbenzene	ND	5.0		µg/L	1	4/5/01
n-Propylbenzene	5.1	5.0		µg/L	1	4/5/01
Naphthalene	ND	5.0		µg/L	1	4/5/01
o-Xylene	ND	5.0		µg/L	1	4/5/01
sec-Butylbenzene	ND	5.0		µg/L	1	4/5/01
Styrene	ND	5.0		µg/L	1	4/5/01
tert-Butylbenzene	ND	5.0		µg/L	1	4/5/01
Tetrachloroethene	ND	5.0		µg/L	1	4/5/01
Toluene	9.6	5.0		µg/L	1	4/5/01
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	4/5/01
Trichloroethene	ND	5.0		µg/L	1	4/5/01
Trichlorofluoromethane	ND	5.0		µg/L	1	4/5/01
Vinyl chloride	ND	5.0		µg/L	1	4/5/01

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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Initials: _____

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *4/9/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-5
Lab Order:	050402		
Project:	Hegenberger M.S. - E8000-06-63	**Collection Date:**	3/30/01
Lab ID:	050402-001B	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS BY GC/FID		**EPA 8015B(M)**				Analyst: **AP**
RunID: **GC7_010404C** BatchID: **3623**						PrepDate: **4/3/01**
Diesel	0.48	0.050		mg/L	1	4/4/01

Qualifiers:

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- S - Spike/Surrogate outside of limits due to matrix interference.
- H - Samples exceeding analytical holding time
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Initials: _____

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *4/9/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-2
Lab Order:	050402		
Project:	Hegenberger M.S. - E8000-06-63	**Collection Date:**	3/30/01
Lab ID:	050402-002A	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID		**EPA 8015B(M)**				Analyst: **JPC**
RunID: **GC6_010404A** BatchID: **I018G20W055**						PrepDate:
GRO	ND	0.20		mg/L	1	4/4/01
VOLATILE ORGANIC COMPOUNDS BY GC/PID		**EPA 8020A**				Analyst: **JPC**
RunID: **GC6_010404A** BatchID: **I018G20W055**						PrepDate:
Benzene	2.7	0.50		µg/L	1	4/4/01
Ethylbenzene	ND	0.50		µg/L	1	4/4/01
m,p-Xylene	0.84	0.50		µg/L	1	4/4/01
o-Xylene	ND	0.50		µg/L	1	4/4/01
Toluene	0.82	0.50		µg/L	1	4/4/01
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404B** BatchID: **Q01VOCW075**						PrepDate:
Di-isopropyl ether	ND	5.0		µg/L	1	4/5/01
Ethyl tert-butyl ether	ND	5.0		µg/L	1	4/5/01
MTBE	ND	5.0		µg/L	1	4/5/01
Tert-amyl methyl ether	ND	5.0		µg/L	1	4/5/01
Tert-Butanol	ND	200		µg/L	1	4/5/01

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
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Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *4/9/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-2
Lab Order:	050402		
Project:	Hegenberger M.S. - E8000-06-63	**Collection Date:**	3/30/01
Lab ID:	050402-002A	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404B** BatchID: **Q01VOCW075**						PrepDate:
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	1	4/5/01
1,1,1-Trichloroethane	ND	5.0		µg/L	1	4/5/01
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	4/5/01
1,1,2-Trichloroethane	ND	5.0		µg/L	1	4/5/01
1,1-Dichloroethane	ND	5.0		µg/L	1	4/5/01
1,1-Dichloroethene	ND	5.0		µg/L	1	4/5/01
1,1-Dichloropropene	ND	5.0		µg/L	1	4/5/01
1,2,3-Trichlorobenzene	ND	5.0		µg/L	1	4/5/01
1,2,3-Trichloropropane	ND	5.0		µg/L	1	4/5/01
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	4/5/01
1,2,4-Trimethylbenzene	ND	5.0		µg/L	1	4/5/01
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	4/5/01
1,2-Dibromoethane	ND	5.0		µg/L	1	4/5/01
1,2-Dichlorobenzene	ND	5.0		µg/L	1	4/5/01
1,2-Dichloroethane	ND	5.0		µg/L	1	4/5/01
1,2-Dichloropropane	ND	5.0		µg/L	1	4/5/01
1,3,5-Trimethylbenzene	ND	5.0		µg/L	1	4/5/01
1,3-Dichlorobenzene	ND	5.0		µg/L	1	4/5/01
1,3-Dichloropropane	ND	5.0		µg/L	1	4/5/01
1,4-Dichlorobenzene	ND	5.0		µg/L	1	4/5/01
2,2-Dichloropropane	ND	5.0		µg/L	1	4/5/01
2-Chlorotoluene	ND	5.0		µg/L	1	4/5/01
4-Chlorotoluene	ND	5.0		µg/L	1	4/5/01
4-Isopropyltoluene	ND	5.0		µg/L	1	4/5/01
Benzene	ND	5.0		µg/L	1	4/5/01
Bromobenzene	ND	5.0		µg/L	1	4/5/01
Bromodichloromethane	ND	5.0		µg/L	1	4/5/01
Bromoform	ND	5.0		µg/L	1	4/5/01
Bromomethane	ND	5.0		µg/L	1	4/5/01
Carbon tetrachloride	ND	5.0		µg/L	1	4/5/01
Chlorobenzene	ND	5.0		µg/L	1	4/5/01
Chloroethane	ND	5.0		µg/L	1	4/5/01
Chloroform	ND	5.0		µg/L	1	4/5/01
Chloromethane	ND	5.0		µg/L	1	4/5/01
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	4/5/01
Dibromochloromethane	ND	5.0		µg/L	1	4/5/01
Dibromomethane	ND	5.0		µg/L	1	4/5/01
Dichlorodifluoromethane	ND	5.0		µg/L	1	4/5/01

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: _____

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *4/9/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-2
Lab Order:	050402		
Project:	Hegenberger M.S. - E8000-06-63	**Collection Date:**	3/30/01
Lab ID:	050402-002A	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404B** BatchID: **Q01VOCW075**						PrepDate:
Ethylbenzene	ND	5.0		µg/L	1	4/5/01
Hexachlorobutadiene	ND	5.0		µg/L	1	4/5/01
Isopropylbenzene	ND	5.0		µg/L	1	4/5/01
m,p-Xylene	ND	5.0		µg/L	1	4/5/01
Methylene chloride	ND	5.0		µg/L	1	4/5/01
n-Butylbenzene	ND	5.0		µg/L	1	4/5/01
n-Propylbenzene	ND	5.0		µg/L	1	4/5/01
Naphthalene	ND	5.0		µg/L	1	4/5/01
o-Xylene	ND	5.0		µg/L	1	4/5/01
sec-Butylbenzene	ND	5.0		µg/L	1	4/5/01
Styrene	ND	5.0		µg/L	1	4/5/01
tert-Butylbenzene	ND	5.0		µg/L	1	4/5/01
Tetrachloroethene	ND	5.0		µg/L	1	4/5/01
Toluene	ND	5.0		µg/L	1	4/5/01
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	4/5/01
Trichloroethene	ND	5.0		µg/L	1	4/5/01
Trichlorofluoromethane	ND	5.0		µg/L	1	4/5/01
Vinyl chloride	ND	5.0		µg/L	1	4/5/01

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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DO - Surrogate Diluted Out
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Initials: _____

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *4/9/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-2
Lab Order:	050402		
Project:	Hegenberger M.S. - E8000-06-63	**Collection Date:**	3/30/01
Lab ID:	050402-002B	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS BY GC/FID		**EPA 8015B(M)**				Analyst: **AP**
RunID: **GC7_010404C** BatchID: **3623**						PrepDate: **4/3/01**
Diesel	0.37	0.050		mg/L	1	4/4/01

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.

H - Samples exceeding analytical holding time

E - Value above quantitation range

M - Not Monitored. Highly Reactive

Initials: ____

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *4/9/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-1
Lab Order:	050402		
Project:	Hegenberger M.S. - E8000-06-63	**Collection Date:**	3/30/01
Lab ID:	050402-003A	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID		**EPA 8015B(M)**				Analyst: **JPC**
RunID: **GC6_010404A** BatchID: **I018G20W055**						PrepDate:
GRO	3.6	0.20		mg/L	1	4/4/01
VOLATILE ORGANIC COMPOUNDS BY GC/PID		**EPA 8020A**				Analyst: **JPC**
RunID: **GC6_010404A** BatchID: **I018G20W055**						PrepDate:
Benzene	150	0.50		µg/L	1	4/4/01
Ethylbenzene	0.69	0.50		µg/L	1	4/4/01
m,p-Xylene	7.7	0.50		µg/L	1	4/4/01
o-Xylene	3.1	0.50		µg/L	1	4/4/01
Toluene	13	0.50		µg/L	1	4/4/01
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404B** BatchID: **Q01VOCW075**						PrepDate:
Di-isopropyl ether	ND	5.0		µg/L	1	4/5/01
Ethyl tert-butyl ether	ND	5.0		µg/L	1	4/5/01
MTBE	ND	5.0		µg/L	1	4/5/01
Tert-amyl methyl ether	ND	5.0		µg/L	1	4/5/01
Tert-Butanol	ND	200		µg/L	1	4/5/01

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
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Initials: _____

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *4/9/01*

CLIENT: Geocon Environmental
Client Sample ID: MW-1
Lab Order: 050402
Project: Hegenberger M.S. - E8000-06-63
Collection Date: 3/30/01
Lab ID: 050402-003A
Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404B** BatchID: **Q01VOCW075**						PrepDate:
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	1	4/5/01
1,1,1-Trichloroethane	ND	5.0		µg/L	1	4/5/01
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	4/5/01
1,1,2-Trichloroethane	ND	5.0		µg/L	1	4/5/01
1,1-Dichloroethane	ND	5.0		µg/L	1	4/5/01
1,1-Dichloroethene	ND	5.0		µg/L	1	4/5/01
1,1-Dichloropropene	ND	5.0		µg/L	1	4/5/01
1,2,3-Trichlorobenzene	ND	5.0		µg/L	1	4/5/01
1,2,3-Trichloropropane	ND	5.0		µg/L	1	4/5/01
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	4/5/01
1,2,4-Trimethylbenzene	ND	5.0		µg/L	1	4/5/01
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	4/5/01
1,2-Dibromoethane	ND	5.0		µg/L	1	4/5/01
1,2-Dichlorobenzene	ND	5.0		µg/L	1	4/5/01
1,2-Dichloroethane	ND	5.0		µg/L	1	4/5/01
1,2-Dichloropropane	ND	5.0		µg/L	1	4/5/01
1,3,5-Trimethylbenzene	ND	5.0		µg/L	1	4/5/01
1,3-Dichlorobenzene	ND	5.0		µg/L	1	4/5/01
1,3-Dichloropropane	ND	5.0		µg/L	1	4/5/01
1,4-Dichlorobenzene	ND	5.0		µg/L	1	4/5/01
2,2-Dichloropropane	ND	5.0		µg/L	1	4/5/01
2-Chlorotoluene	ND	5.0		µg/L	1	4/5/01
4-Chlorotoluene	ND	5.0		µg/L	1	4/5/01
4-Isopropyltoluene	ND	5.0		µg/L	1	4/5/01
Benzene	ND	5.0		µg/L	1	4/5/01
Bromobenzene	ND	5.0		µg/L	1	4/5/01
Bromodichloromethane	ND	5.0		µg/L	1	4/5/01
Bromoform	ND	5.0		µg/L	1	4/5/01
Bromomethane	ND	5.0		µg/L	1	4/5/01
Carbon tetrachloride	ND	5.0		µg/L	1	4/5/01
Chlorobenzene	ND	5.0		µg/L	1	4/5/01
Chloroethane	ND	5.0		µg/L	1	4/5/01
Chloroform	ND	5.0		µg/L	1	4/5/01
Chloromethane	ND	5.0		µg/L	1	4/5/01
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	4/5/01
Dibromochloromethane	ND	5.0		µg/L	1	4/5/01
Dibromomethane	ND	5.0		µg/L	1	4/5/01
Dichlorodifluoromethane	ND	5.0		µg/L	1	4/5/01

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials:

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *4/9/01*

CLIENT: Geocon Environmental
Client Sample ID: MW-1
Lab Order: 050402
Project: Hegenberger M.S. - E8000-06-63
Collection Date: 3/30/01
Lab ID: 050402-003A
Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404B** BatchID: **Q01VOCW075**						PrepDate:
Ethylbenzene	ND	5.0		µg/L	1	4/5/01
Hexachlorobutadiene	ND	5.0		µg/L	1	4/5/01
Isopropylbenzene	ND	5.0		µg/L	1	4/5/01
m,p-Xylene	ND	5.0		µg/L	1	4/5/01
Methylene chloride	ND	5.0		µg/L	1	4/5/01
n-Butylbenzene	ND	5.0		µg/L	1	4/5/01
n-Propylbenzene	ND	5.0		µg/L	1	4/5/01
Naphthalene	ND	5.0		µg/L	1	4/5/01
o-Xylene	ND	5.0		µg/L	1	4/5/01
sec-Butylbenzene	ND	5.0		µg/L	1	4/5/01
Styrene	ND	5.0		µg/L	1	4/5/01
tert-Butylbenzene	ND	5.0		µg/L	1	4/5/01
Tetrachloroethene	ND	5.0		µg/L	1	4/5/01
Toluene	ND	5.0		µg/L	1	4/5/01
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	4/5/01
Trichloroethene	ND	5.0		µg/L	1	4/5/01
Trichlorofluoromethane	ND	5.0		µg/L	1	4/5/01
Vinyl chloride	ND	5.0		µg/L	1	4/5/01

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: _____

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *4/9/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-1
Lab Order:	050402		
Project:	Hegenberger M.S. - E8000-06-63	**Collection Date:**	3/30/01
Lab ID:	050402-003B	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS BY GC/FID		**EPA 8015B(M)**				Analyst: **AP**
RunID: **GC7_010404C** BatchID: **3623**						PrepDate: **4/3/01**
Diesel	0.48	0.050		mg/L	1	4/5/01

Qualifiers:

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- B - Analyte detected in the associated Method Blank
- DO - Surrogate Diluted Out
- S - Spike/Surrogate outside of limits due to matrix interference.
- H - Samples exceeding analytical holding time
- E - Value above quantitation range
- M - Not Monitored. Highly Reactive

Initials: _____

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *4/9/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-4
Lab Order:	050402		
Project:	Hegenberger M.S. - E8000-06-63	**Collection Date:**	3/30/01
Lab ID:	050402-004A	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID		**EPA 8015B(M)**				Analyst: **JPC**
RunID: **GC6_010404A** BatchID: **I018G20W055**						PrepDate:
GRO	2.7	0.20		mg/L	1	4/4/01
VOLATILE ORGANIC COMPOUNDS BY GC/PID		**EPA 8020A**				Analyst: **JPC**
RunID: **GC6_010404A** BatchID: **I018G20W055**						PrepDate:
Benzene	320	0.50		µg/L	1	4/4/01
Ethylbenzene	5.3	0.50		µg/L	1	4/4/01
m,p-Xylene	10	0.50		µg/L	1	4/4/01
o-Xylene	3.6	0.50		µg/L	1	4/4/01
Toluene	16	0.50		µg/L	1	4/4/01
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404B** BatchID: **Q01VOCW075**						PrepDate:
Di-isopropyl ether	ND	5.0		µg/L	1	4/5/01
Ethyl tert-butyl ether	ND	5.0		µg/L	1	4/5/01
MTBE	ND	5.0		µg/L	1	4/5/01
Tert-amyl methyl ether	ND	5.0		µg/L	1	4/5/01
Tert-Butanol	ND	200		µg/L	1	4/5/01

Qualifiers:

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J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
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Initials: _____

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *4/9/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-4
Lab Order:	050402		
Project:	Hegenberger M.S. - E8000-06-63	**Collection Date:**	3/30/01
Lab ID:	050402-004A	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404B** BatchID: **Q01VOCW075**						PrepDate:
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	1	4/5/01
1,1,1-Trichloroethane	ND	5.0		µg/L	1	4/5/01
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	4/5/01
1,1,2-Trichloroethane	ND	5.0		µg/L	1	4/5/01
1,1-Dichloroethane	ND	5.0		µg/L	1	4/5/01
1,1-Dichloroethene	ND	5.0		µg/L	1	4/5/01
1,1-Dichloropropene	ND	5.0		µg/L	1	4/5/01
1,2,3-Trichlorobenzene	ND	5.0		µg/L	1	4/5/01
1,2,3-Trichloropropane	ND	5.0		µg/L	1	4/5/01
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	4/5/01
1,2,4-Trimethylbenzene	ND	5.0		µg/L	1	4/5/01
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	4/5/01
1,2-Dibromoethane	ND	5.0		µg/L	1	4/5/01
1,2-Dichlorobenzene	ND	5.0		µg/L	1	4/5/01
1,2-Dichloroethane	ND	5.0		µg/L	1	4/5/01
1,2-Dichloropropane	ND	5.0		µg/L	1	4/5/01
1,3,5-Trimethylbenzene	ND	5.0		µg/L	1	4/5/01
1,3-Dichlorobenzene	ND	5.0		µg/L	1	4/5/01
1,3-Dichloropropane	ND	5.0		µg/L	1	4/5/01
1,4-Dichlorobenzene	ND	5.0		µg/L	1	4/5/01
2,2-Dichloropropane	ND	5.0		µg/L	1	4/5/01
2-Chlorotoluene	ND	5.0		µg/L	1	4/5/01
4-Chlorotoluene	ND	5.0		µg/L	1	4/5/01
4-Isopropyltoluene	ND	5.0		µg/L	1	4/5/01
Benzene	430	5.0		µg/L	1	4/5/01
Bromobenzene	ND	5.0		µg/L	1	4/5/01
Bromodichloromethane	ND	5.0		µg/L	1	4/5/01
Bromoform	ND	5.0		µg/L	1	4/5/01
Bromomethane	ND	5.0		µg/L	1	4/5/01
Carbon tetrachloride	ND	5.0		µg/L	1	4/5/01
Chlorobenzene	ND	5.0		µg/L	1	4/5/01
Chloroethane	ND	5.0		µg/L	1	4/5/01
Chloroform	ND	5.0		µg/L	1	4/5/01
Chloromethane	ND	5.0		µg/L	1	4/5/01
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	4/5/01
Dibromochloromethane	ND	5.0		µg/L	1	4/5/01
Dibromomethane	ND	5.0		µg/L	1	4/5/01
Dichlorodifluoromethane	ND	5.0		µg/L	1	4/5/01

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials:

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *4/9/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-4
Lab Order:	050402		
Project:	Hegenberger M.S. - E8000-06-63	**Collection Date:**	3/30/01
Lab ID:	050402-004A	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404B** BatchID: **Q01VOCW075**						PrepDate:
Ethylbenzene	ND	5.0		µg/L	1	4/5/01
Hexachlorobutadiene	ND	5.0		µg/L	1	4/5/01
Isopropylbenzene	6.4	5.0		µg/L	1	4/5/01
m,p-Xylene	13	5.0		µg/L	1	4/5/01
Methylene chloride	ND	5.0		µg/L	1	4/5/01
n-Butylbenzene	ND	5.0		µg/L	1	4/5/01
n-Propylbenzene	ND	5.0		µg/L	1	4/5/01
Naphthalene	ND	5.0		µg/L	1	4/5/01
o-Xylene	ND	5.0		µg/L	1	4/5/01
sec-Butylbenzene	ND	5.0		µg/L	1	4/5/01
Styrene	ND	5.0		µg/L	1	4/5/01
tert-Butylbenzene	ND	5.0		µg/L	1	4/5/01
Tetrachloroethene	ND	5.0		µg/L	1	4/5/01
Toluene	22	5.0		µg/L	1	4/5/01
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	4/5/01
Trichloroethene	ND	5.0		µg/L	1	4/5/01
Trichlorofluoromethane	ND	5.0		µg/L	1	4/5/01
Vinyl chloride	ND	5.0		µg/L	1	4/5/01

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: _____

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *4/9/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-4
Lab Order:	050402		
Project:	Hegenberger M.S. - E8000-06-63	**Collection Date:**	3/30/01
Lab ID:	050402-004B	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS BY GC/FID		**EPA 8015B(M)**				Analyst: **AP**
RunID: **GC7_010404C** BatchID: **3623**						PrepDate: **4/3/01**
Diesel	0.35	0.050		mg/L	1	4/5/01

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.

H - Samples exceeding analytical holding time

E - Value above quantitation range

M - Not Monitored. Highly Reactive

Initials: _____

Advanced Technology Laboratories

3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

Advanced Technology Laboratories

Print Date: *4/9/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-3
Lab Order:	050402		
Project:	Hegenberger M.S. - E8000-06-63	**Collection Date:**	3/30/01
Lab ID:	050402-005A	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
GASOLINE RANGE ORGANICS BY GC/FID		**EPA 8015B(M)**				Analyst: **JPC**
RunID: **GC6_010404A** BatchID: **I018G20W055**						PrepDate:
GRO	9.9	0.20		mg/L	1	4/4/01
VOLATILE ORGANIC COMPOUNDS BY GC/PID		**EPA 8020A**				Analyst: **JPC**
RunID: **GC6_010404A** BatchID: **I018G20W055**						PrepDate:
Benzene	2000	0.50		µg/L	1	4/4/01
Ethylbenzene	39	0.50		µg/L	1	4/4/01
m,p-Xylene	28	0.50		µg/L	1	4/4/01
o-Xylene	11	0.50		µg/L	1	4/4/01
Toluene	48	0.50		µg/L	1	4/4/01
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404B** BatchID: **Q01VOCW075**						PrepDate:
Di-isopropyl ether	ND	5.0		µg/L	1	4/5/01
Ethyl tert-butyl ether	ND	5.0		µg/L	1	4/5/01
MTBE	ND	5.0		µg/L	1	4/5/01
Tert-amyl methyl ether	ND	5.0		µg/L	1	4/5/01
Tert-Butanol	ND	200		µg/L	1	4/5/01

Qualifiers:

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DO - Surrogate Diluted Out
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Initials: _____

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *4/9/01*

CLIENT: Geocon Environmental
Client Sample ID: MW-3
Lab Order: 050402
Project: Hegenberger M.S. - E8000-06-63
Collection Date: 3/30/01
Lab ID: 050402-005A
Matrix: Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404B** BatchID: **Q01VOCW075**						PrepDate:
1,1,1,2-Tetrachloroethane	ND	5.0		µg/L	1	4/5/01
1,1,1-Trichloroethane	ND	5.0		µg/L	1	4/5/01
1,1,2,2-Tetrachloroethane	ND	5.0		µg/L	1	4/5/01
1,1,2-Trichloroethane	ND	5.0		µg/L	1	4/5/01
1,1-Dichloroethane	ND	5.0		µg/L	1	4/5/01
1,1-Dichloroethene	ND	5.0		µg/L	1	4/5/01
1,1-Dichloropropene	ND	5.0		µg/L	1	4/5/01
1,2,3-Trichlorobenzene	ND	5.0		µg/L	1	4/5/01
1,2,3-Trichloropropane	ND	5.0		µg/L	1	4/5/01
1,2,4-Trichlorobenzene	ND	5.0		µg/L	1	4/5/01
1,2,4-Trimethylbenzene	ND	5.0		µg/L	1	4/5/01
1,2-Dibromo-3-chloropropane	ND	5.0		µg/L	1	4/5/01
1,2-Dibromoethane	ND	5.0		µg/L	1	4/5/01
1,2-Dichlorobenzene	ND	5.0		µg/L	1	4/5/01
1,2-Dichloroethane	ND	5.0		µg/L	1	4/5/01
1,2-Dichloropropane	ND	5.0		µg/L	1	4/5/01
1,3,5-Trimethylbenzene	ND	5.0		µg/L	1	4/5/01
1,3-Dichlorobenzene	ND	5.0		µg/L	1	4/5/01
1,3-Dichloropropane	ND	5.0		µg/L	1	4/5/01
1,4-Dichlorobenzene	ND	5.0		µg/L	1	4/5/01
2,2-Dichloropropane	ND	5.0		µg/L	1	4/5/01
2-Chlorotoluene	ND	5.0		µg/L	1	4/5/01
4-Chlorotoluene	ND	5.0		µg/L	1	4/5/01
4-Isopropyltoluene	ND	5.0		µg/L	1	4/5/01
Benzene	2800	250		µg/L	50	4/5/01
Bromobenzene	ND	5.0		µg/L	1	4/5/01
Bromodichloromethane	ND	5.0		µg/L	1	4/5/01
Bromoform	ND	5.0		µg/L	1	4/5/01
Bromomethane	ND	5.0		µg/L	1	4/5/01
Carbon tetrachloride	ND	5.0		µg/L	1	4/5/01
Chlorobenzene	ND	5.0		µg/L	1	4/5/01
Chloroethane	ND	5.0		µg/L	1	4/5/01
Chloroform	ND	5.0		µg/L	1	4/5/01
Chloromethane	ND	5.0		µg/L	1	4/5/01
cis-1,2-Dichloroethene	ND	5.0		µg/L	1	4/5/01
Dibromochloromethane	ND	5.0		µg/L	1	4/5/01
Dibromomethane	ND	5.0		µg/L	1	4/5/01
Dichlorodifluoromethane	ND	5.0		µg/L	1	4/5/01

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored, Highly Reactive

Initials:

Advanced Technology Laboratories *3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040*

Advanced Technology Laboratories

Print Date: *4/9/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-3
Lab Order:	050402		
Project:	Hegenberger M.S. - E8000-06-63	**Collection Date:**	3/30/01
Lab ID:	050402-005A	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS		**EPA 8260B**				Analyst: **DJK**
RunID: **MS2_010404B** BatchID: **Q01VOCW075**						PrepDate:
Ethylbenzene	52	5.0		µg/L	1	4/5/01
Hexachlorobutadiene	ND	5.0		µg/L	1	4/5/01
Isopropylbenzene	92	5.0		µg/L	1	4/5/01
m,p-Xylene	35	5.0		µg/L	1	4/5/01
Methylene chloride	ND	5.0		µg/L	1	4/5/01
n-Butylbenzene	36	5.0		µg/L	1	4/5/01
n-Propylbenzene	280	5.0		µg/L	1	4/5/01
Naphthalene	ND	5.0		µg/L	1	4/5/01
o-Xylene	14	5.0		µg/L	1	4/5/01
sec-Butylbenzene	13	5.0		µg/L	1	4/5/01
Styrene	ND	5.0		µg/L	1	4/5/01
tert-Butylbenzene	ND	5.0		µg/L	1	4/5/01
Tetrachloroethene	ND	5.0		µg/L	1	4/5/01
Toluene	71	5.0		µg/L	1	4/5/01
trans-1,2-Dichloroethene	ND	5.0		µg/L	1	4/5/01
Trichloroethene	ND	5.0		µg/L	1	4/5/01
Trichlorofluoromethane	ND	5.0		µg/L	1	4/5/01
Vinyl chloride	ND	5.0		µg/L	1	4/5/01

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
DO - Surrogate Diluted Out
S - Spike/Surrogate outside of limits due to matrix interference.
H - Samples exceeding analytical holding time
E - Value above quantitation range
M - Not Monitored. Highly Reactive

Initials: _____

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Advanced Technology Laboratories

Print Date: *4/9/01*

CLIENT:	Geocon Environmental	**Client Sample ID:**	MW-3
Lab Order:	050402		
Project:	Hegenberger M.S. - E8000-06-63	**Collection Date:**	3/30/01
Lab ID:	050402-005B	**Matrix:**	Water

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS BY GC/FID		**EPA 8015B(M)**				Analyst: **AP**
RunID: **GC7_010404C** BatchID: **3623**						PrepDate: **4/3/01**
Diesel	0.49	0.050		mg/L	1	4/5/01

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

DO - Surrogate Diluted Out

S - Spike/Surrogate outside of limits due to matrix interference.

H - Samples exceeding analytical holding time

E - Value above quantitation range

M - Not Monitored. Highly Reactive

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Advanced Technology Laboratories

Date: *09-Apr-01*

CLIENT: Geocon Environmental
Work Order: 050402
Project: Hegenberger M.S. - E8000-06-63

QC SUMMARY REPORT
Method Blank

Sample ID **MB-3623** Batch ID: **3623** Test Name **DIESEL RANGE ORGANICS BY GC/FID** Units **mg/L** Analysis Date: **4/4/01** Prep Date: **4/3/01**
MBLK SeqNo: **116357**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	ND	0.050									

Sample ID **010404BLKW2** Batch ID: **I018G20W055** Test Name **GASOLINE RANGE ORGANICS BY GC/FID** Units **mg/L** Analysis Date: **4/4/01** Prep Date:
MBLK SeqNo: **115676**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	ND	0.20									J

Sample ID **010404BLKW2** Batch ID: **I018G20W055** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/PID** Units **µg/L** Analysis Date: **4/4/01** Prep Date:
MBLK SeqNo: **115662**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.50									
Ethylbenzene	ND	0.50									
m,p-Xylene	ND	0.50									
o-Xylene	ND	0.50									
Toluene	ND	0.50									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: _____

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CLIENT: Geocon Environmental
Work Order: 050402
Project: Hegenberger M.S. - E8000-06-63

QC SUMMARY REPORT
Method Blank

Sample ID **010404BLKW3** Batch ID: **Q01VOCW075** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/MS** Units **µg/L** Analysis Date: **4/5/01** Prep Date:
MBLK SeqNo: **115752**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2-Chloroethyl vinyl ether	ND	5.0									
Benzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									
Bromomethane	ND	5.0									
Carbon tetrachloride	ND	5.0									
Chlorobenzene	ND	5.0									
Chloroethane	ND	5.0									
Chloroform	ND	5.0									
Chloromethane	ND	5.0									
cis-1,3-Dichloropropene	ND	5.0									
Di-isopropyl ether	ND	5.0									
Ethyl tert-butyl ether	ND	5.0									
Ethylbenzene	ND	5.0									
m,p-Xylene	ND	5.0									
Methylene chloride	ND	5.0									
MTBE	ND	5.0									

Qualifiers:
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R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: ____

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CLIENT: Geocon Environmental
Work Order: 050402
Project: Hegenberger M.S. - E8000-06-63

QC SUMMARY REPORT
Method Blank

o-Xylene	ND	5.0
Tert-amyl methyl ether	ND	5.0
Tert-Butanol	ND	200
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
Trichloroethene	ND	5.0
Trichlorofluoromethane	ND	5.0
Vinyl chloride	ND	5.0

Qualifiers:
ND - Not Detected at the Reporting Limit
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R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
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S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: ____

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CLIENT: Geocon Environmental
Work Order: 050402
Project: Hegenberger M.S. - E8000-06-63

QC SUMMARY REPORT
Method Blank

Sample ID **010404BLKW3** Batch ID: **Q01VOCW075** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/MS** Units **µg/L** Analysis Date: **4/5/01** Prep Date:

MBLK SeqNo: **115742**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5.0									
1,1,1-Trichloroethane	ND	5.0									
1,1,2,2-Tetrachloroethane	ND	5.0									
1,1,2-Trichloroethane	ND	5.0									
1,1-Dichloroethane	ND	5.0									
1,1-Dichloroethene	ND	5.0									
1,1-Dichloropropene	ND	5.0									
1,2,3-Trichlorobenzene	ND	5.0									
1,2,3-Trichloropropane	ND	5.0									
1,2,4-Trichlorobenzene	ND	5.0									
1,2,4-Trimethylbenzene	ND	5.0									
1,2-Dibromo-3-chloropropane	ND	5.0									
1,2-Dibromoethane	ND	5.0									
1,2-Dichlorobenzene	ND	5.0									
1,2-Dichloroethane	ND	5.0									
1,2-Dichloropropane	ND	5.0									
1,3,5-Trimethylbenzene	ND	5.0									
1,3-Dichlorobenzene	ND	5.0									
1,3-Dichloropropane	ND	5.0									
1,4-Dichlorobenzene	ND	5.0									
2,2-Dichloropropane	ND	5.0									
2-Chlorotoluene	ND	5.0									
4-Chlorotoluene	ND	5.0									
4-Isopropyltoluene	ND	5.0									
Benzene	ND	5.0									
Bromobenzene	ND	5.0									
Bromodichloromethane	ND	5.0									
Bromoform	ND	5.0									

Qualifiers:
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J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials:

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CLIENT: Geocon Environmental
Work Order: 050402
Project: Hegenberger M.S. - E8000-06-63

QC SUMMARY REPORT
Method Blank

Bromomethane	ND	5.0
Carbon tetrachloride	ND	5.0
Chlorobenzene	ND	5.0
Chloroethane	ND	5.0
Chloroform	ND	5.0
Chloromethane	ND	5.0
cis-1,2-Dichloroethene	ND	5.0
Dibromochloromethane	ND	5.0
Dibromomethane	ND	5.0
Dichlorodifluoromethane	ND	5.0
Ethylbenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Isopropylbenzene	ND	5.0
m,p-Xylene	ND	5.0
Methylene chloride	ND	5.0
n-Butylbenzene	ND	5.0
n-Propylbenzene	ND	5.0
Naphthalene	ND	5.0
o-Xylene	ND	5.0
sec-Butylbenzene	ND	5.0
Styrene	ND	5.0
tert-Butylbenzene	ND	5.0
Tetrachloroethene	ND	5.0
Toluene	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Trichloroethene	ND	5.0
Trichlorofluoromethane	ND	5.0
Vinyl chloride	ND	5.0

Qualifiers:
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Initials: [illegible]

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Date: *09-Apr-01*

CLIENT: Geocon Environmental
Work Order: 050402
Project: Hegenberger M.S. - E8000-06-63

QC SUMMARY REPORT
Sample Duplicate

Sample ID **050402-002A** Batch ID: **I018G20W055** Test Name **GASOLINE RANGE ORGANICS BY GC/FID** Units **mg/L** Analysis Date: **4/4/01** Prep Date:
DUP SeqNo: **115682**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.163	0.20	0	0	0	0	0	0.198	19	30	J

Sample ID **050402-002A** Batch ID: **I018G20W055** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/PID** Units **µg/L** Analysis Date: **4/4/01** Prep Date:
DUP SeqNo: **115668**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2.66	0.50	0	0	0	0	0	2.732	3	30	
Ethylbenzene	ND	0.50	0	0	0	0	0	0	0	30	
m,p-Xylene	0.841	0.50	0	0	0	0	0	0.84	0	30	
o-Xylene	ND	0.50	0	0	0	0	0	0	0	30	
Toluene	0.785	0.50	0	0	0	0	0	0.817	4	30	

Sample ID **050404-002A** Batch ID: **Q01VOCW075** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/MS** Units **µg/L** Analysis Date: **4/5/01** Prep Date:
DUP SeqNo: **115760**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Di-isopropyl ether	9.65	5.0	0	0	0	0	0	10.87	12	30	
Ethyl tert-butyl ether	ND	5.0	0	0	0	0	0	0	0	30	
MTBE	ND	5.0	0	0	0	0	0	0	0	30	
Tert-amyl methyl ether	ND	5.0	0	0	0	0	0	0	0	30	
Tert-Butanol	ND	200	0	0	0	0	0	0	0	30	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: ____

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Date: *09-Apr-01*

CLIENT: Geocon Environmental
Work Order: 050402
Project: Hegenberger M.S. - E8000-06-63

QC SUMMARY REPORT
Sample Matrix Spike

Sample ID **MB-3623** Batch ID: **3623** Test Name **DIESEL RANGE ORGANICS BY GC/FID** Units **mg/L** Analysis Date: **4/4/01** Prep Date: **4/3/01**
MS SeqNo: **116359**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	0.8909	0.050	1	0	89	50	150	0			

Sample ID **MB-3623** Batch ID: **3623** Test Name **DIESEL RANGE ORGANICS BY GC/FID** Units **mg/L** Analysis Date: **4/4/01** Prep Date: **4/3/01**
MSD SeqNo: **116360**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	0.8239	0.050	1	0	82	50	150	0.8909	8	40	

Sample ID **010404BLKW1** Batch ID: **I018G20W055** Test Name **GASOLINE RANGE ORGANICS BY GC/FID** Units **mg/L** Analysis Date: **4/4/01** Prep Date:
MS SeqNo: **115673**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.919	0.20	1	0.056	86	50	119	0			

Sample ID **010404BLKW1** Batch ID: **I018G20W055** Test Name **GASOLINE RANGE ORGANICS BY GC/FID** Units **mg/L** Analysis Date: **4/4/01** Prep Date:
MSD SeqNo: **115674**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.934	0.20	1	0.056	88	50	119	0.919	2	20	

Sample ID **010404BLKW1** Batch ID: **I018G20W055** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/PID** Units **µg/L** Analysis Date: **4/4/01** Prep Date:
MS SeqNo: **115659**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	4.843	0.50	5.5	0	88	60	136	0			
Toluene	25.96	0.50	30	0	87	61	128	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: (JL)

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CLIENT: Geocon Environmental
Work Order: 050402
Project: Hegenberger M.S. - E8000-06-63

QC SUMMARY REPORT
Sample Matrix Spike Duplicate

Sample ID **010404BLKW1** Batch ID: **I018G20W055** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/PID** Units **µg/L** Analysis Date: **4/4/01** Prep Date:
MSD SeqNo: **115660**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	4.872	0.50	5.5	0	89	60	136	4.843	1	18	
Toluene	25.82	0.50	30	0	86	61	128	25.96	1	22	

Sample ID **010404BLKW3** Batch ID: **Q01VOCW075** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/MS** Units **µg/L** Analysis Date: **4/5/01** Prep Date:
MS SeqNo: **115740**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	117.6	5.0	100	0	118	71	120	0			
Benzene	121.1	5.0	100	0	121	82	122	0			
Chlorobenzene	113.9	5.0	100	0	114	81	121	0			
Toluene	119.7	5.0	100	0	120	81	125	0			
Trichloroethene	107.7	5.0	100	0	108	80	123	0			

Sample ID **010404BLKW3** Batch ID: **Q01VOCW075** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/MS** Units **µg/L** Analysis Date: **4/5/01** Prep Date:
MSD SeqNo: **115741**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1-Dichloroethene	114	5.0	100	0	114	71	120	117.6	3	21	
Benzene	121.2	5.0	100	0	121	82	122	121.1	0	19	
Chlorobenzene	112.3	5.0	100	0	112	81	121	113.9	1	18	
Toluene	117.7	5.0	100	0	118	81	125	119.7	2	20	
Trichloroethene	111.7	5.0	100	0	112	80	123	107.7	4	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

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Date: *09-Apr-01*

CLIENT: Geocon Environmental
Work Order: 050402
Project: Hegenberger M.S. - E8000-06-63

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID **LCS-3623** Batch ID: **3623** Test Name **DIESEL RANGE ORGANICS BY GC/FID** Units **mg/L** Analysis Date: **4/4/01** Prep Date: **4/3/01**
LCS SeqNo: **116358**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel	0.8825	0.050	1	0	88	60	140	0			

Sample ID **010404LCSW1** Batch ID: **I018G20W055** Test Name **GASOLINE RANGE ORGANICS BY GC/FID** Units **mg/L** Analysis Date: **4/4/01** Prep Date:
LCS SeqNo: **115686**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
GRO	0.869	0.20	1	0.056	81	64	107	0			

Sample ID **010404LCSW1** Batch ID: **I018G20W055** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/PID** Units **µg/L** Analysis Date: **4/4/01** Prep Date:
LCS SeqNo: **115672**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	5.676	0.50	5.5	0	103	58	131	0			
Ethylbenzene	7.399	0.50	8.6	0	86	58	131	0			
m,p-Xylene	30.83	0.50	35	0	88	58	131	0			
o-Xylene	11.12	0.50	12	0	93	58	131	0			
Toluene	24.45	0.50	30	0	81	58	131	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

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CLIENT: Geocon Environmental
Work Order: 050402
Project: Hegenberger M.S. - E8000-06-63

QC SUMMARY REPORT
Laboratory Control Spike - generic

Sample ID **010404LCSW2** Batch ID: **Q01VOCW075** Test Name **VOLATILE ORGANIC COMPOUNDS BY GC/MS** Units **µg/L** Analysis Date: **4/5/01** Prep Date:

LCS SeqNo: **115739**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	115.4	5.0	100	0	115	30	150	0			
1,1,2,2-Tetrachloroethane	88.22	5.0	100	0	88	30	150	0			
1,1,2-Trichloroethane	124.5	5.0	100	0	124	30	150	0			
1,1-Dichloroethane	113.5	5.0	100	0	113	30	150	0			
1,1-Dichloroethene	117.8	5.0	100	0	118	30	150	0			
1,2-Dichlorobenzene	91.49	5.0	100	0	91	30	150	0			
1,2-Dichloroethane	127.1	5.0	100	0	127	30	150	0			
1,2-Dichloropropane	120.8	5.0	100	0	121	30	150	0			
1,3-Dichlorobenzene	93.26	5.0	100	0	93	30	150	0			
1,3-Dichloropropane	109.4	5.0	100	0	109	30	150	0			
1,4-Dichlorobenzene	94.92	5.0	100	0	95	30	150	0			
2-Chlorotoluene	93.54	5.0	100	0	94	30	150	0			
Benzene	123.9	5.0	100	0	124	30	150	0			
Bromodichloromethane	118.7	5.0	100	0	119	30	150	0			
Bromoform	117	5.0	100	0	117	30	150	0			
Bromomethane	104.3	5.0	100	0	104	30	150	0			
Carbon tetrachloride	114.7	5.0	100	0	115	30	150	0			
Chlorobenzene	111.3	5.0	100	0	111	30	150	0			
Chloroethane	122.1	5.0	100	0	122	30	150	0			
Chloroform	117	5.0	100	0	117	30	150	0			
Chloromethane	136.2	5.0	100	0	136	30	150	0			
Dibromomethane	127.3	5.0	100	0	127	30	150	0			
Dichlorodifluoromethane	131.4	5.0	100	0	131	30	150	0			
Ethylbenzene	110.5	5.0	100	0	111	30	150	0			
m,p-Xylene	222.5	5.0	200	0	111	30	150	0			
Methylene chloride	117.4	5.0	100	0	117	30	150	0			
o-Xylene	111	5.0	100	0	111	30	150	0			
Tetrachloroethene	112.4	5.0	100	0	112	30	150	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank
M - Not Monitored. Highly Reactive
S - Spike/Surrogate outside of limits due to matrix interference
DO - Surrogate Diluted Out

Initials: _____

Advanced Technology Laboratories
3275 Walnut Avenue Signal Hill, CA 90807 Tel: 562 989-4045 Fax: 562 989-4040

CLIENT: Geocon Environmental
Work Order: 050402
Project: Hegenberger M.S. - E8000-06-63

QC SUMMARY REPORT

Laboratory Control Spike - generic

Toluene	120.1	5.0	100	0	120	30	150	0
trans-1,2-Dichloroethene	112.3	5.0	100	0	112	30	150	0
Trichloroethene	131	5.0	100	0	131	30	150	0
Trichlorofluoromethane	122.2	5.0	100	0	122	30	150	0
Vinyl chloride	118	5.0	100	0	118	30	150	0

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
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Initials: ____

FAX

Date 4/4/01

Number of pages including cover sheet

TO: DIANE/ADRIAN

Phone
Fax Phone

FROM: Ross J. White
Geocon Consultants, Inc.
5673 W. Las Positas Blvd., Suite 205
Pleasanton, CA 94588

Phone 925.469.9750
Fax 925.469.9749

CC:

REMARKS: ☑ Urgent ☐ For your review ☐ Reply ASAP ☐ Please Comment

The water samples you received for [redacted] Geocon's projects:

- South Oakland MS (E8000-06-62), and
- Hegenberger MS (E8000-06-63)

Should also be analyzed for FOCs (8260). The COC indicated VOCs/SVOCs (8260).

↑ This should have been FOCs.

If the samples have been analyzed for VOCs w/out FOCs, please re-analyze via 8260 and include FOCs.

Thanks
– Ross