

90 DEC 31 AM 11:36

December 27, 1990

Mr. Scott Seery
Alameda County
Health Care Services Agency
80 Swan Way, Room 200
Oakland, California 94621

Scott:

Please find the enclosed Quarterly Monitoring Reports for 3234 Castro Valley Boulevard, Castro Valley, California. You will note that all of the wells have tested clean, with the exception of MW-5, (the downgradient well) which showed a hydrocarbon peak, that has steadily diminished. The laboratory has noted that this peak is not indicative of gasoline, however.

Additionally, Scott, you will note that after September, MW-2 has not been tested. This well was damaged during construction activities at the site, and sampling will continue upon the repair of that well.

Please call with any questions.

Respectfully submitted,



K.M. Krause
Vice President
K.T.W. & Associates, Inc.

KK/emm

enclosures

cc: M. Stockel

MR. KEVIN KRAUSE
KTW & ASSOCIATES
43289 OSGOOD ROAD
FREMONT, CA 94539Workorder # : 9009036
Date Received : 09/06/90
Project ID : 1093
Purchase Order: A2063

The following samples were received at Anamatrix, Inc. for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9009036- 1	MW-2
9009036- 2	MW-1
9009036- 3	MW-5
9009036- 4	MW-4
9009036- 5	MW-3
9009036- 6	TRIP BLANK
9009036- 7	BB-1

This report is paginated for your convenience and ease of review. It contains 5 pages excluding the cover letter. The report is organized into sections. Each section contains all analytical results and quality assurance data related to a specific group or section within Anamatrix. The Report Summary that precedes each section will help you determine which group at Anamatrix generated the data. The Report Summary will contain the signatures of the department supervisor and a chemist, both of whom reviewed the analytical data. Please refer all questions to the department supervisor that signed the form.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anamatrix.

Burt Sutherland
Burt Sutherland
Laboratory Director

09-20-90
Date

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. KEVIN KRAUSE
KTW & ASSOCIATES
43289 OSGOOD ROAD
FREMONT, CA 94539

Workorder # : 9009036
Date Received : 09/06/90
Project ID : 1093
Purchase Order: A2063
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9009036- 1	MW-2	H2O	09/06/90	TPHg/BTEX
9009036- 2	MW-1	H2O	09/06/90	TPHg/BTEX
9009036- 3	MW-5	H2O	09/06/90	TPHg/BTEX
9009036- 4	MW-4	H2O	09/06/90	TPHg/BTEX
9009036- 5	MW-3	H2O	09/06/90	TPHg/BTEX
9009036- 6	TRIP BLANK	H2O	09/06/90	TPHg/BTEX
9009036- 7	BB-1	H2O	09/06/90	TPHg/BTEX

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. KEVIN KRAUSE
KRW & ASSOCIATES
43289 OSGOOD ROAD
FREMONT, CA 94539

Workorder # : 9009036
Date Received : 09/06/90
Project ID : 1093
Purchase Order: A2063
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- Sample MW-5 was diluted for the TPHg analysis due to the presence of a relatively large discrete hydrocarbon peak. The concentration reported as gasoline for MW-5 is mainly due to this peak. The TPHg was analyzed separately from BTEX at a 1:5 dilution on 09/14/90 with a surrogate recovery of 111%

Cheryl Balmer 9/20/90
Department Supervisor Date

C. Fern 9.20.90
Chemist Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9009036
Matrix : WATER
Date Sampled : 09/06/90

Project Number : 1093
Date Released : 09/19/90

Reporting Limit	Sample I.D.# MW-2	Sample I.D.# MW-1	Sample I.D.# MW-5	Sample I.D.# MW-4	Sample I.D.# MW-3
COMPOUNDS (ug/L)	-01	-02	-03	-04	-05
Benzene	0.5	ND	ND	ND	ND
Toluene	0.5	ND	ND	ND	ND
Ethylbenzene	0.5	ND	ND	ND	ND
Total Xylenes	0.5	ND	ND	ND	ND
TPH as Gasoline	50	ND	ND	330	ND
% Surrogate Recovery	112%	98%	105%	108%	116%
Instrument I.D.	HP12	HP12	HP12	HP12	HP12
Date Analyzed	09/13/90	09/13/90	09/13/90	09/13/90	09/13/90
RLMF	1	1	1	1	1

- ND - Not detected at or above the practical quantitation limit for the method.
 TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
 BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.
 RLMF - Reporting Limit Multiplication Factor.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

C. Fern 9.20.90
Analyst Date

Cheryl Balmer 9/20/90
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9009036
Matrix : WATER
Date Sampled : 09/06/90

Project Number : 1093
Date Released : 09/19/90

	Reporting Limit	Sample I.D.# TRIP BLANK	Sample I.D.# BB-1	Sample I.D.# 12B0913A	Sample I.D.# 12B0914A
COMPOUNDS	(ug/L)	-06	-07	BLANK	BLANK
Benzene	0.5	ND	ND	ND	ND
Toluene	0.5	ND	ND	ND	ND
Ethylbenzene	0.5	ND	ND	ND	ND
Total Xylenes	0.5	ND	ND	ND	ND
TPH as Gasoline	50	ND	ND	ND	ND
% Surrogate Recovery		119%	125%	93%	99%
Instrument I.D.		HP12	HP12	HP12	HP12
Date Analyzed		09/13/90	09/13/90	09/13/90	09/14/90
RLMF		1	1	1	1

- ND - Not detected at or above the practical quantitation limit for the method.
- TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
- BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.
- RLMF - Reporting Limit Multiplication Factor.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

C. Fan
Analyst

Date

Cheryl Balmer 9/20/90
Supervisor Date

TOTAL VOLATILE HYDROCARBON MATRIX SPIKE REPORT
 EPA METHOD 5030 WITH GC/FID
 ANAMETRIX, INC. (408) 432-8192

Sample I.D. : 1093 MW-4
 Matrix : SOIL
 Date sampled : 09/06/90
 Date analyzed : 09/13/90

Anamatrix I.D. : 9009036-04
 Analyst : CF
 Supervisor : CB
 Date Released : 09/19/90

COMPOUND	SPIKE AMT. (mg/Kg)	MS (mg/Kg)	%REC MS	MSD (mg/Kg)	%REC MSD	RPD	%REC LIMITS
Gasoline	1.0	0.82	82%	0.82	82%	0%	48-145

* Limits established by Anamatrix, Inc.

MS
1530

2

PROJECT NUMBER		PROJECT NAME				Number of Cntrs	Type of Containers	Type of Analysis										Condition of Samples	Initial
		3234 eastro valley Blvd.						9009036											
Send Report Attention of:			Report Due		Verbal Due	Number of Cntrs	Type of Containers	TPH	BTEX										
Kevin Krause			9/20/90		1/1														
Sample Number	Date	Time	Comp	Grab	Station Location														
① MW-2	9/6/90	1055		✓		3	40ml	X										OK	CN
② MW-1	"	1145		✓		3	"	X											CN
③ MW-5	"	1245		✓		3	"	X											CN
④ MW-4	"	1320		✓		3	"	X											CN
⑤ MW-3	"	1355		✓		3	"	X										ONE UOIA HAS BLENDE	CN
⑥ Trip Blank	"	1026		✓		3	"	X										OK	CN
⑦ BB-1	"	1020		✓		3	"	X										ONE UOIA HAS BLENDE	
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		Remarks:											
John Memarzu		9/6/90 15:20		Calvin Adine		15:20													
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		COMPANY: K.T.W. 42289 OS good Rd.											
Relinquished by: (Signature)		Date/Time		Received by: (Signature)		Date/Time		ADDRESS: PHONE: (415) 623-0480 FAX: 2066											

FIELD LOGBOOK ENTRY

DATE: 9/6/90

SITE : 3234 Castro Valley Blvd
 WELL I.D. : MW-2
 CODE NO. : _____
 EQUIPMENT NO. : R-2
 SAMPLER : Taghi

TOTAL DEPTH : 16.62'
 WATER DEPTH : 6.85' TIME: 9:55
 WELL DIAMETER : 2"
 PURGE VOLUME : (3 X) 6
 PUMPING RATE : _____
 PUMPING TIME : _____
 BAILER CAPACITY : 1 liter
 NO. OF BAILS : 6
 WELL YIELD : _____
 SAMPLE TIME : 10:55am

TIME	VOLUME	TURBIDITY	pH	E.C.	T°C
10:35	1	>200	8.0	764	21
10:43	2	>200	7.9	573	20
10:47	3	>200	7.9	573	20

PURGE PROCEDURE : _____ PUMP PLACEMENT: _____

SAMPLE PROCEDURE: _____

PARAMETER:	CONTAINER (TYPE/NUMBER):	PRESERVATIVE:
TPHq/BTEX	3 X 40ml	HCL

FIELD OBSERVATIONS: _____

RECOVERY RATE: _____ RECOVERY PERCENTAGE: _____ % AT _____ HRS

CLIMATIC CONDITIONS: _____

FIELD LOGBOOK ENTRY

DATE: 9/6/90

3234 Castro

SITE : Valley Blvd TOTAL DEPTH : 16.9'
 WELL I.D. : MW-1 WATER DEPTH : 7.5' TIME: 11:10
 CODE NO. : _____ WELL DIAMETER : 2"
 EQUIPMENT NO.: R-2 PURGE VOLUME : (3 X) 6
 SAMPLER : Taghi PUMPING RATE : _____
 PUMPING TIME : _____
 BAILER CAPACITY: 1 liter
 NO. OF BALLS : 6
 WELL YIELD : _____
 SAMPLE TIME : 11:45

TIME	VOLUME	TURBIDITY	pH	E.C.	T°C
11:25	1	>200	7.9	764	18
11:30	2	>200	8.1	758	17
11:43	3	>200	8.1	758	17

PURGE PROCEDURE : _____ PUMP PLACEMENT: _____

SAMPLE PROCEDURE: _____

PARAMETER:	CONTAINER (TYPE/NUMBER):	PRESERVATIVE:
TPHg/BTEX	2 X 40ml	HCL

FIELD OBSERVATIONS: _____

RECOVERY RATE: _____ RECOVERY PERCENTAGE: _____ % AT _____ HRS

CLIMATIC CONDITIONS: _____

FIELD LOGBOOK ENTRY

DATE: 9/6/90

3234 Castro
 SITE : Valley Blvd.
 WELL I.D. : MW-3
 CODE NO. : _____
 EQUIPMENT NO. : R-5
 SAMPLER : Taghi

TOTAL DEPTH : 14.9'
 WATER DEPTH : 6.3' TIME: 13:30
 WELL DIAMETER : 2"
 PURGE VOLUME : (3 X) 6
 PUMPING RATE : _____
 PUMPING TIME : _____
 BAILER CAPACITY: 1 liter
 NO. OF BAILS : 6
 WELL YIELD : _____
 SAMPLE TIME : 13:55

TIME	VOLUME	TURBIDITY	pH	E.C.	T°C
13:38	1	>200	7.6	1028	21
13:45	2	>200	7.7	1049	20
13:50	3	>200	7.7	1049	20

PURGE PROCEDURE : _____ PUMP PLACEMENT: _____

SAMPLE PROCEDURE: _____

PARAMETER:	CONTAINER (TYPE/NUMBER):	PRESERVATIVE:
TPHg/BTEX	3 X 40ml	HCL

FIELD OBSERVATIONS: _____

RECOVERY RATE: _____ RECOVERY PERCENTAGE: _____ % AT _____ HRS

CLIMATIC CONDITIONS: _____

FIELD LOGBOOK ENTRY

DATE: 9/6/90

SITE : 3234 Castro Valley Blvd. TOTAL DEPTH : 19.7'
 WELL I.D. : MW-4 WATER DEPTH : 7.15' TIME: 12:50
 CODE NO. : _____ WELL DIAMETER : 2"
 EQUIPMENT NO.: R-4 PURGE VOLUME : (3 X) 8
 SAMPLER : Taghi PUMPING RATE : _____
 PUMPING TIME : _____
 BAILER CAPACITY: 1 liter
 NO. OF BAILS : 8
 WELL YIELD : _____
 SAMPLE TIME : 13:20

TIME	VOLUME	TURBIDITY	pH	E.C.	T°C
13:05	1	>200	8.0	1074	18
13:15	2	>200	7.9	1021	18

PURGE PROCEDURE : _____ PUMP PLACEMENT: _____

SAMPLE PROCEDURE: _____

PARAMETER:	CONTAINER (TYPE/NUMBER):	PRESERVATIVE:
TPHg/BTEX	3 X 40ml	HCL

FIELD OBSERVATIONS: This well went dry at second volume. Total no. of Bails is 13. Sample was taken right from 13th Bail, by 20 minutes. Water level was 14.7'.

RECOVERY RATE: _____ RECOVERY PERCENTAGE: _____ % AT _____ HRS

CLIMATIC CONDITIONS: _____

FIELD LOGBOOK ENTRY

DATE: 9/6/90

SITE : 3234 Castro Valley Blvd.
 WELL I.D. : MW-5
 CODE NO. : _____
 EQUIPMENT NO. : R-3
 SAMPLER : Taghi

TOTAL DEPTH : 19.1'
 WATER DEPTH : 6.5' TIME: 12:05
 WELL DIAMETER : 2"
 PURGE VOLUME : (3 X) 8
 PUMPING RATE : _____
 PUMPING TIME : _____
 BAILER CAPACITY: 1 liter
 NO. OF BAILS : 8
 WELL YIELD : _____
 SAMPLE TIME : 12:45

TIME	VOLUME	TURBIDITY	pH	E.C.	T°C
12:15	1	>200	7.9	988	18
12:21	2	>200	7.8	1017	17
12:28	3	>200	7.8	1017	17

PURGE PROCEDURE : _____ PUMP PLACEMENT: _____

SAMPLE PROCEDURE: _____

PARAMETER:	CONTAINER (TYPE/NUMBER):	PRESERVATIVE:
TPHd	3 X 40ml	HCL

FIELD OBSERVATIONS: _____

RECOVERY RATE: _____ RECOVERY PERCENTAGE: _____ % AT _____ HRS

CLIMATIC CONDITIONS: _____

ANAMETRIX INC

Environmental & Analytical Chemistry
1961 Concourse Drive, Suite E, San Jose, CA 95131
(408) 432-8192 • Fax (408) 432-8198

**REPORT**

MR. KEVIN KRAUSE
KRW & ASSOCIATES
43289 OSGOOD ROAD
FREMONT, CA 94539

Workorder # : 9010292
Date Received : 10/24/90
Project ID : 901024
Purchase Order: A2145

The following samples were received at Anamatrix, Inc. for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9010292- 1	MW-1
9010292- 2	MW-3
9010292- 3	MW-4
9010292- 4	MW-5
9010292- 5	TRIP BLANK
9010292- 6	BB

This report is paginated for your convenience and ease of review. It contains 4 pages excluding the cover letter. The report is organized into sections. Each section contains all analytical results and quality assurance data related to a specific group or section within Anamatrix. The Report Summary that precedes each section will help you determine which group at Anamatrix generated the data. The Report Summary will contain the signatures of the department supervisor and a chemist, both of whom reviewed the analytical data. Please refer all questions to the department supervisor that signed the form.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anamatrix.

Burt Sutherland
Laboratory Director

11-05-90
Date

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. KEVIN KRAUSE
KTW & ASSOCIATES
43289 OSGOOD ROAD
FREMONT, CA 94539

Workorder # : 9010292
Date Received : 10/24/90
Project ID : 901024
Purchase Order: A2145
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9010292- 1	MW-1	H2O	10/24/90	TPHG/BTEX
9010292- 2	MW-3	H2O	10/24/90	TPHG/BTEX
9010292- 3	MW-4	H2O	10/24/90	TPHG/BTEX
9010292- 4	MW-5	H2O	10/24/90	TPHG/BTEX
9010292- 5	TRIP BLANK	H2O	10/24/90	TPHG/BTEX
9010292- 6	BB	H2O	10/24/90	TPHG/BTEX

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. KEVIN KRAUSE
KTW & ASSOCIATES
43289 OSGOOD ROAD
FREMONT, CA 94539

Workorder # : 9010292
Date Received : 10/24/90
Project ID : 901024
Purchase Order: A2145
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

-The concentration reported as gasoline for sample MW-5 is due to the presence of a discrete hydrocarbon peak not indicative of gasoline.

Cheryl Baermer 11/5/90
Department Supervisor Date

Laszlo Vojta 11/5/90
Chemist Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9010292
Matrix : WATER
Date Sampled : 10/24/90

Project Number : 901024
Date Released : 11/05/90

COMPOUNDS	Reporting Limit (ug/L)	Sample	Sample	Sample	Sample	Sample
		I.D.# MW-1	I.D.# MW-3	I.D.# MW-4	I.D.# MW-5	I.D.# TRIP BLANK
Benzene	0.5	ND	ND	ND	ND	ND
Toluene	0.5	ND	ND	ND	ND	ND
Ethylbenzene	0.5	ND	ND	ND	ND	ND
Total Xylenes	0.5	ND	ND	ND	ND	ND
TPH as Gasoline	50	ND	ND	ND	50	ND
% Surrogate Recovery		99%	129%	93%	120%	131%
Instrument I.D.		HP4	HP4	HP4	HP4	HP4
Date Analyzed		11/02/90	11/02/90	11/02/90	11/02/90	11/02/90
RLMF		1	1	1	1	1

- ND - Not detected at or above the practical quantitation limit for the method.
- TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
- BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.
- RLMF - Reporting Limit Multiplication Factor.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Gareth Vogt 11/2/90
Analyst Date

Cheyl Balmer 11/5/90
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9010292
Matrix : WATER
Date Sampled : 10/24/90

Project Number : 901024
Date Released : 11/05/90

COMPOUNDS	Reporting Limit (ug/L)	Sample I.D.# BB	Sample I.D.# 04B1101A
Benzene	0.5	ND	ND
Toluene	0.5	ND	ND
Ethylbenzene	0.5	ND	ND
Total Xylenes	0.5	ND	ND
TPH as Gasoline	50	ND	ND
% Surrogate Recovery		122%	93%
Instrument I.D.		HP4	HP4
Date Analyzed		11/02/90	11/01/90
RLMF		1	1

- ND - Not detected at or above the practical quantitation limit for the method.
- TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
- BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.
- RLMF - Reporting Limit Multiplication Factor.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Gary Voigt 11/5/90
Analyst Date

Cheryl Balmer 11/5/90
Supervisor Date

FIELD LOGBOOK ENTRY

DATE: 10/24/90

SITE : 3234 Castro Valley Road
 WELL I.D. : MW-3
 CODE NO. : _____
 EQUIPMENT NO. : B-3
 SAMPLER : Taghi

TOTAL DEPTH : 14.9'
 WATER DEPTH : 6.33' TIME: 11:45
 WELL DIAMETER : 2"
 PURGE VOLUME : (3 X) = 18 liters
 PUMPING RATE : _____
 PUMPING TIME : _____
 BAILER CAPACITY: 1 liter
 NO. OF BAILS : 3 X 6 = 18
 WELL YIELD : Low
 SAMPLE TIME : _____

TIME	VOLUME	TURBIDITY	pH	E.C.	T°C
11:55	1	>200	7.5	1060	22
12:05	2	>200	7.6	1080	21
12:15	3	>200	7.6	1080	21

PURGE PROCEDURE : _____ PUMP PLACEMENT: _____

SAMPLE PROCEDURE: _____

PARAMETER:	CONTAINER (TYPE/NUMBER):	PRESERVATIVE:
TPHg/BTEX	3 X 40ml	HCL

FIELD OBSERVATIONS: _____

RECOVERY RATE: _____ RECOVERY PERCENTAGE: _____ % AT _____ HRS

CLIMATIC CONDITIONS: _____

FIELD LOGBOOK ENTRY

DATE 10/24/90

SITE : 3234 Castro Valley Road TOTAL DEPTH : 19.7'
 WELL I.D. : MW-1 WATER DEPTH : 7.35' TIME: 12:55
 CODE NO. : _____ WELL DIAMETER : 2"
 EQUIPMENT NO.: B-4 PURGE VOLUME : (3 X) = 24 liters
 SAMPLER : Taghi PUMPING RATE : _____
 PUMPING TIME : _____
 BAILER CAPACITY: 1 liter
 NO. OF BAILS : 3 X 8 = 24 liters
 WELL YIELD : Low
 SAMPLE TIME : 13:30

TIME	VOLUME	TURBIDITY	pH	E.C.	T°C
13:05	1	>200	7.5	1150	21
13:15	2	>200	7.6	1080	20

PURGE PROCEDURE : _____ PUMP PLACEMENT: _____

SAMPLE PROCEDURE: _____

PARAMETER:	CONTAINER (TYPE/NUMBER):	PRESERVATIVE:
TPHg/TBEX	3 X 40ml	HCL

FIELD OBSERVATIONS: Well approached dryness at end of first volume and it went dry at second volume. Sample was taken from 12th Bailer, 30 minutes after water.

RECOVERY RATE: _____ RECOVERY PERCENTAGE: _____ % AT _____ HRS

CLIMATIC CONDITIONS: _____

Level was 15.1'.

FIELD LOGBOOK ENTRY

DATE: 10/24/90

SITE : 3234 Castro Valley
 : Road
 WELL I.D. : MW-5
 CODE NO. : _____
 EQUIPMENT NO. : B-5
 SAMPLER : Taghi

TOTAL DEPTH : 19.1'
 WATER DEPTH : 7.25' TIME: 13:45
 WELL DIAMETER : 2"
 PURGE VOLUME : (3 X) = 2 liters
 PUMPING RATE : _____
 PUMPING TIME : _____
 BAILER CAPACITY: 1 liter
 NO. OF BAILS : 3 X 7 = 21 liters
 WELL YIELD : Low
 SAMPLE TIME : 14:20

TIME	VOLUME	TURBIDITY	pH	E.C.	T°C
13:55	1	>200	7.6	1150	21
14:05	2	>200	7.7	1170	19
14:15	3	>200	7.7	1170	19

PURGE PROCEDURE : _____ PUMP PLACEMENT: _____

SAMPLE PROCEDURE: _____

PARAMETER:	CONTAINER (TYPE/NUMBER):	PRESERVATIVE:
TPH _g /BTEX	3 X 40ml	HCL

FIELD OBSERVATIONS: _____

RECOVERY RATE: _____ RECOVERY PERCENTAGE: _____ % AT _____ HRS

CLIMATIC CONDITIONS: _____

FIELD LOGBOOK ENTRY

DATE: 10/24/90

SITE : 3234 Castro Valley
 : Road
 WELL I.D. : MW-1
 CODE NO. : _____
 EQUIPMENT NO.: B-1
 SAMPLER : Taghi

TOTAL DEPTH : 16.9'
 WATER DEPTH : 7.45' TIME: 10:10
 WELL DIAMETER : 2"
 PURGE VOLUME : (3 X) = 18
 PUMPING RATE : _____
 PUMPING TIME : _____
 BAILER CAPACITY: 1 liter
 NO. OF BAILS : 3 X 6 = 18
 WELL YIELD : Low
 SAMPLE TIME : 10:45

TIME	VOLUME	TURBIDITY	pH	E.C.	T°C
10:30	1	>200	7.5	840	19
10:35	2	>200	7.6	835	18
10:40	3	>200	7.6	835	18

PURGE PROCEDURE : Bailer PUMP PLACEMENT: _____

SAMPLE PROCEDURE: _____

PARAMETER:	CONTAINER (TYPE/NUMBER):	PRESERVATIVE:
TPHg/BTEX	3 X 40ml	HCL

FIELD OBSERVATIONS: Because of construction, the Metal Lid of the well is gone and teh orange 2" Lid with Lock was there, but the Lock clasp was broken.

RECOVERY RATE: _____ RECOVERY PERCENTAGE: _____ % AT _____ HRS

CLIMATIC CONDITIONS: _____

FIELD LOGBOOK ENTRY

DATE: 10/24/90

3234 Castro Valley

SITE : Road
 WELL I.D. : MW-2
 CODE NO. : _____
 EQUIPMENT NO. : B-2
 SAMPLER : Taghi

TOTAL DEPTH : _____
 WATER DEPTH : _____ TIME: _____
 WELL DIAMETER : _____
 PURGE VOLUME : (X) _____
 PUMPING RATE : _____
 PUMPING TIME : _____
 BAILER CAPACITY: _____
 NO. OF BAILS : _____
 WELL YIELD : _____
 SAMPLE TIME : _____

TIME	VOLUME	TURBIDITY	pH	E.C.	T°C

PURGE PROCEDURE : _____ PUMP PLACEMENT: _____

SAMPLE PROCEDURE: _____

PARAMETER:	CONTAINER (TYPE/NUMBER):	PRESERVATIVE:

FIELD OBSERVATIONS: Construction people buried this well after taking the soil away. The top part of the well was gone and a 2" pipe was covered by a black plastic cap and I took the cap off, but the well is full of soil

RECOVERY RATE: _____ RECOVERY PERCENTAGE: _____ % AT _____ HRS

CLIMATIC CONDITIONS: _____

and is 3 feet deep, and is not usable anymore.

ANAMETRIX INC

Environmental & Analytical Chemistry
1961 Concourse Drive, Suite E, San Jose, CA 95131
(408) 432-8192 • Fax (408) 432-8198

**REPORT**

MR. KEVIN KRAUSE
KTW & ASSOCIATES
43289 OSGOOD ROAD
FREMONT, CA 94539


Workorder # : 9011225
Date Received : 11/27/90
Project ID : 901127-1
Purchase Order: A2221SM

The following samples were received at Anamatrix, Inc. for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9011225- 1	MW-1
9011225- 2	MW-3
9011225- 3	MW-4
9011225- 4	MW-5
9011225- 5	TRIP BLANK

This report is paginated for your convenience and ease of review. It contains 4 pages excluding the cover letter. The report is organized into sections. Each section contains all analytical results and quality assurance data related to a specific group or section within Anamatrix. The Report Summary that precedes each section will help you determine which group at Anamatrix generated the data. The Report Summary will contain the signatures of the department supervisor and a chemist, both of whom reviewed the analytical data. Please refer all questions to the department supervisor that signed the form.

If you have any further questions or comments on this report, please give us a call as soon as possible. Thank you for using Anamatrix.



Burt Sutherland
Laboratory Director

12-11-90

Date

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. KEVIN KRAUSE
KTW & ASSOCIATES
43289 OSGOOD ROAD
FREMONT, CA 94539

Workorder # : 9011225
Date Received : 11/27/90
Project ID : 901127-1
Purchase Order: A2221SM
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9011225- 1	MW-1	H2O	11/27/90	TPHG/BTEX
9011225- 2	MW-3	H2O	11/27/90	TPHG/BTEX
9011225- 3	MW-4	H2O	11/27/90	TPHG/BTEX
9011225- 4	MW-5	H2O	11/27/90	TPHG/BTEX
9011225- 5	TRIP BLANK	H2O	11/27/90	TPHG/BTEX

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. KEVIN KRAUSE
KTW & ASSOCIATES
43289 OSGOOD ROAD
FREMONT, CA 94539

Workorder # : 9011225
Date Received : 11/27/90
Project ID : 901127-1
Purchase Order: A2221SM
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- No QA/QC problems encountered for these samples.

Cheryl Baerman 12/11/90
Department Supervisor Date

Garth Vogt 12/11/90
Chemist Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9011225
Matrix : WATER
Date Sampled : 11/27/90

Project Number : 901127-1
Date Released : 12/11/90

Reporting Limit	Sample I.D.#	Sample I.D.#	Sample I.D.#	Sample I.D.#	Sample I.D.#
	MW-1	MW-3	MW-4	MW-5	TRIP BLANK
COMPOUNDS (ug/L)	-01	-02	-03	-04	BLANK
Benzene	0.5	ND	ND	ND	ND
Toluene	0.5	ND	ND	ND	ND
Ethylbenzene	0.5	ND	ND	ND	ND
Total Xylenes	0.5	ND	ND	ND	ND
TPH as Gasoline	50	ND	ND	ND	ND
% Surrogate Recovery	100%	107%	70%	108%	87%
Instrument I.D.	HP4	HP4	HP4	HP4	HP4
Date Analyzed	11/29/90	11/29/90	11/29/90	11/30/90	11/30/90
RLMF	1	1	1	1	1

- ND - Not detected at or above the practical quantitation limit for the method.
 TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
 BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.
 RLMF - Reporting Limit Multiplication Factor.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Garth Vogt 12/11/90
Analyst Date

Cheryl Palmer 12/11/90
Supervisor Date

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS
(GASOLINE WITH BTEX)
ANAMETRIX, INC. - (408) 432-8192

Anamatrix W.O.: 9011225
Matrix : WATER
Date Sampled : 11/27/90

Project Number : 901127-1
Date Released : 12/11/90

COMPOUNDS	Reporting Limit (ug/L)	Sample I.D.# 04B1129D BLANK	Sample I.D.# 04B1130D BLANK
Benzene	0.5	ND	ND
Toluene	0.5	ND	ND
Ethylbenzene	0.5	ND	ND
Total Xylenes	0.5	ND	ND
TPH as Gasoline	50	ND	ND
% Surrogate Recovery		110%	79%
Instrument I.D.		HP4	HP4
Date Analyzed		11/29/90	11/30/90
RLMF		1	1

- ND - Not detected at or above the practical quantitation limit for the method.
- TPHg - Total Petroleum Hydrocarbons as gasoline is determined by GCFID using EPA Method 5030.
- BTEX - Benzene, Toluene, Ethylbenzene, and Total Xylenes are determined by modified EPA 8020.
- RLMF - Reporting Limit Multiplication Factor.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Scott Voigt 12/11/90
Analyst Date

Cheryl Balmer 12/11/90
Supervisor Date

CLIENT CHAIN - OF - CUSTODY RECORD

PROJECT NUMBER 901127-1		PROJECT NAME 3234 Castro Valley Blvd.				Number of Cntnrs	Type of Containers	Type of Analysis										Condition of Samples	Initial
Send Report Attention of: Kevin Krause		Report Due 12/14/90		Verbal Due 1/1				TPH, Pb, BTEX											
Sample Number	Date	Time	Comp	Grab	Station Location														
MW-1	11/27/90	1300		✓		3	40mL	✓											
MW-3		1357		✓				✓											
MW-4		14:40		✓				✓											
MW-5		15:30		✓				✓											
Trip Blank								✓											
Relinquished by: (Signature) <i>Justin M...</i>	Date/Time 11/27/90 16:30	Received by: (Signature) <i>[Signature]</i>	Date/Time 11/27/90 16:30	Remarks: all samples rec'd cold, etc, pres. w/ HCL <i>Dr 2</i>															
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	COMPANY: KTW & Associates.															
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	ADDRESS:															
				PHONE :															
				FAX :															

FIELD LOGBOOK ENTRY

DATE: 11/27/90

SITE : 3234 Castro Valley TOTAL DEPTH : 19.10'
 WELL I.D. : MW-5 WATER DEPTH : 7.15' TIME: 15:00
 CODE NO. : _____ WELL DIAMETER : 2"
 EQUIPMENT NO.: R-4 PURGE VOLUME : (3 X) = 21 Liter
 SAMPLER : Taghi PUMPING RATE : _____
 PUMPING TIME : _____
 BAILER CAPACITY: 1 Liter
 NO. OF BAILS : 21
 WELL YIELD : Low
 SAMPLE TIME : 15:30

TIME	VOLUME	TURBIDITY	pH	E.C.	T°C
15:10	1	>200	6.9	1163	17
15:17	2	>200	6.8	1070	17
15:25	3	>200	6.8	1070	17

PURGE PROCEDURE : _____ PUMP PLACEMENT: _____

SAMPLE PROCEDURE: _____

PARAMETER:	CONTAINER (TYPE/NUMBER):	PRESERVATIVE:
TPH _g /BTEX	3 X 40ml	HCL

FIELD OBSERVATIONS: _____

RECOVERY RATE: _____ RECOVERY PERCENTAGE: _____ % AT _____ HRS

CLIMATIC CONDITIONS: _____

FIELD LOGBOOK ENTRY

DATE: 11/27/90

SITE : 3234 Castro Valley TOTAL DEPTH : 19.70'
 WELL I.D. : MW-4 WATER DEPTH : 6.95' TIME: 14:15
 CODE NO. : _____ WELL DIAMETER : 2"
 EQUIPMENT NO.: R-3 PURGE VOLUME : (2 X) = 12
 SAMPLER : Tachi PUMPING RATE : _____
 PUMPING TIME : _____
 BAILER CAPACITY: 1 Liter
 NO. OF BAILS : 12
 WELL YIELD : Low
 SAMPLE TIME : 14:40

TIME	VOLUME	TURBIDITY	pH	E.C.	T°C
14:30	1	>200	6.9	1162	18
14:37	2	>200	7.1	1082	18

PURGE PROCEDURE : Bailer PUMP PLACEMENT: _____
 SAMPLE PROCEDURE: Bailer

PARAMETER:	CONTAINER (TYPE/NUMBER):	PRESERVATIVE:
TPHg/BTEX	3 X 40ml	HCL

FIELD OBSERVATIONS: Well went dry at second volume. Sample was taken from 12th Bailer, after 30 minutes water.

RECOVERY RATE: _____ RECOVERY PERCENTAGE: _____ % AT _____ HRS

CLIMATIC CONDITIONS: _____

Level was 15.15'. Well does not have the metal lid.

FIELD LOGBOOK ENTRY

DATE: 11/27/90

SITE : 3234 Castro Valley TOTAL DEPTH : 14.90'
 WELL I.D. : MW-3 WATER DEPTH : 6.53' TIME: 13:20
 CODE NO. : _____ WELL DIAMETER : 2"
 EQUIPMENT NO.: R-2 PURGE VOLUME : (3 X) = 18
 SAMPLER : Taghi PUMPING RATE : _____
 PUMPING TIME : _____
 BAILER CAPACITY: 1 Liter
 NO. OF BAILS : 18
 WELL YIELD : Low
 SAMPLE TIME : 13:57

TIME	VOLUME	TURBIDITY	pH	E.C.	T°C
13:30	1	>200	6.9	1046	18
13:40	2	>200	7.0	1023	19
13:47	3	>200	7.1	1023	19

PURGE PROCEDURE : _____ PUMP PLACEMENT: _____

SAMPLE PROCEDURE: _____

PARAMETER:	CONTAINER (TYPE/NUMBER):	PRESERVATIVE:
TPHg/BTEX	3 X 40mL	HCL

FIELD OBSERVATIONS: _____

RECOVERY RATE: _____ RECOVERY PERCENTAGE: _____ % AT _____ HRS

CLIMATIC CONDITIONS: _____

FIELD LOGBOOK ENTRY

DATE: 11/27/90

SITE : 3234 Castro Valley TOTAL DEPTH : 16.90'
 WELL I.D. : MW-1 WATER DEPTH : 7.25' TIME: 12:30
 CODE NO. : _____ WELL DIAMETER : 2"
 EQUIPMENT NO.: R-1 PURGE VOLUME : (3 X) = 18
 SAMPLER : Tachi PUMPING RATE : _____
 PUMPING TIME : _____
 BAILER CAPACITY: 1 Liter
 NO. OF BAILS : 18
 WELL YIELD : Low
 SAMPLE TIME : 13:00

TIME	VOLUME	TURBIDITY	pH	E.C.	T°C
12:45	1	>200	6.7	883	18
12:50	2	>200	6.8	883	18
12:55	3	>200	6.8	880	17

PURGE PROCEDURE : Bailer PUMP PLACEMENT: _____

SAMPLE PROCEDURE: Bailer

PARAMETER:	CONTAINER (TYPE/NUMBER):	PRESERVATIVE:
TPHg/BTEX	3 X 40ml	HCL

FIELD OBSERVATIONS: Metal lid of the well is gone.

RECOVERY RATE: _____ RECOVERY PERCENTAGE: _____ % AT _____ HRS

CLIMATIC CONDITIONS: _____