

JCH

JOHN C. HOM & ASSOCIATES, INC.

1618 Second Street
San Rafael, CA 94901-2707
(415) 258-9027

ALCOAT
HIAZMAY
PM 3:54
AUG 26 1994

REPORT
ENVIRONMENTAL SERVICES
19051 LAKE CHABOT ROAD
CASTRO VALLEY, CALIFORNIA

08/24/94

JCH&A Job Number 650.1

Job Prepared for

Henry Hertlein
P. O. Box 824
West Point, California 95255

by



John C. Hom

John C Hom
Civil Engineer - 28877
Geotechnical Engineer - 412
Certificates Expire 3/31/95

John C Hom & Associates, Inc
1618 Second Street
San Rafael, California 94901
415/258-9027

August 24, 1994

INTRODUCTION

This report presents the results of the engineering services we performed for the property at 19051 Lake Chabot Road in Castro Valley, California. The scope of our services was to present the historical sampling and testing of monitoring wells. We previously presented a report dated September 19, 1990. That report summarizes our investigation, site history, and initial testing.

SAMPLING AND TESTING

Since the September 19, 1990 report, the monitoring wells were sampled and tested seven times to determine their levels of benzene, ethylbenzene, toluene, xylene, and gasoline. Six of the samplings and testings were conducted by National Environmental Testing, Inc., (NET), with the latest by PACE Laboratory.

The well numbering system was different from the test boring numbers, and they are correlated as follows:

MW-1 (Monitoring Well)		JCH&A-B-2 (Test Boring)		
MW-2	"	"	JCH&A-B-1	" "
MW-3	"	"	JCH&A-B-3	" "
MW-4	"	"	JCH&A-B-4	" "

A summary of the testing is shown on Plate 1. The groundwater and groundwater calculations, and copies of the work by NET and PACE are attached in the appendix.

CONCLUSIONS

Based upon the results of our work, the chemical testing indicates that groundwater chemicals at the former tank site (MW-2, MW-3, and MW-4) and downstream are below acceptable levels and guidelines set forth by the Regional Water Quality Control Board. The levels have, generally, been non-detectable for over three years. The benzene levels are above the action level, whereas the other levels are less than the action level. It is our opinion that detectable levels are limited to MW-1, nearest the tank site. The down gradient wells, MW-2, MW-3, and MW-4, have not shown any significant detectable levels. Therefore, the cleanup work has been successful, and no additional work is warranted.

APPENDIX

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APPENDIX A

NET Pacific Log No. 4623

7 Pages



NATIONAL ENVIRONMENTAL TESTING, INC.

NET Pacific, Inc. 435 Tesconi Circle Santa Rosa, CA 95401 Tel: (707) 526-7200 Fax: (707) 526-9623

John Hom John C. Hom & Assoc., Inc. 1618 Second St San Rafael, CA 94901

Date: 11-13-90 NET Client Acct No: 589 NET Pacific Log No: 4623 Received: 10-26-90 1610

Client Reference Information

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

Jules Skambrack Laboratory Manager

Enclosure(s)



Client Acct: 589
 Client Name: John C. Hom & Assoc., Inc.
 NET Log No: 4623

Date: 11-13-90
 Page: 2

NET Pacific, Inc.

Ref:

Descriptor, Lab No. and Results

Parameter	Reporting Limit	MW-1	MW-2	MW-3	Units
		10-26-90 1155	10-26-90 1235	10-26-90 1315	
		66546	66547	66548	
PETROLEUM HYDROCARBONS		--	--	--	
VOLATILE (WATER)		--	--	--	
DILUTION FACTOR *		1	1	1	
DATE ANALYZED		11-08-90	11-08-90	11-08-90	
METHOD GC FID/5030		--	--	--	
as Gasoline	0.05	ND	ND	ND	mg/L
METHOD 602		--	--	--	
DILUTION FACTOR *		1	1	1	
DATE ANALYZED		11-08-90	11-08-90	11-08-90	
Benzene	0.5	ND	0.8	0.7	ug/L
Ethylbenzene	0.5	ND	ND	ND	ug/L
Toluene	0.5	ND	1.1	0.8	ug/L
Xylenes, total	0.5	ND	2.1	2.2	ug/L



NET Pacific, Inc.

KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- * : Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
- ICVS : Initial Calibration Verification Standard (External Standard).
- mean : Average; sum of measurements divided by number of measurements.
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- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
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- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference, $100 \text{ [Value 1 - Value 2] / mean value}$.
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

Method References

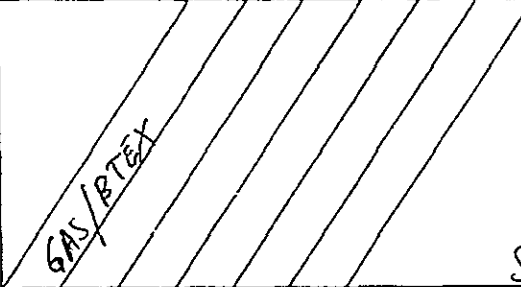
Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 16th Edition, APHA, 1985.

CHAIN OF CUSTODY RECORD

PROJ NO.		PROJECT NAME				NO. OF CONTAINERS	<div style="text-align: center;">  </div>						REMARKS	
		JOHN C. HOM & ASSOCIATES (415) 258-9027 1618 2nd St SAN RAFAEL, CA.												STAT
SAMPLERS - IS 2001 (10/1)		Eric J. Kueper												
STA NO	DATE	TIME	COMP	GRAB	STATION LOCATION									
MW 1	10/26/90	11:55	X	X	19051 19010 LAKE CHARLOT RD CASTRO VALLEY (See map)	3	X							
MW 2	10/26/90	12:35	X	X		3	X							
MW 3	10/26/90	13:15	X	X		3	X							
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)				
Eric J. Kueper		10/26/90 16:10												
Relinquished by: (Signature)		Date / Time		Received by: (Signature)		Relinquished by: (Signature)		Date / Time		Received by: (Signature)				
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)		Date / Time		Remarks						
				Schwartz		10/26/90 1610								

4623

GAS/BTEX

STAT

ERIK
 JOHN C. HOM & ASSOCIATES
 1618 2ND ST.
 SAN RAFAEL, CA.
 19010 LAKE CHABOT RD, CASTRO VALLEY
 19051

10/26/90
 8:00-10:45 LOCATE WELLS (two covered with dirt & map is inaccurate)
 10:45-13:30 SAMPLE
 3 VOAS EACH WELL
 GAS/BTEX

MW1: WELL DEPTH: 19.08' # 2" casing .1632
 DEPTH TO WATER: 14.45' collection date & time: 10/26/90 11:55
 WATER COLUMN: 4.63' purge equipment: bailer
 ONE VOLUME: .76 gal sample equipment: bailer
 TOTAL PURGE: 3.04

	PURGE 1	PURGE 2	PURGE 3	PURGE 4
TEMP °C:	18.9	18.7	18.6	18.6
pH:	7.5	6.7	6.8	6.8
µmhos:	1529	1530	1518	1470

MW2: WELL DEPTH: 17.50' 2" casing
 DEPTH TO WATER: 7.96' collection date & time: 10/26/90 12:35
 WATER COLUMN: 9.54' purge equip: bailer
 ONE VOLUME: 1.56 sample equip: bailer
 TOTAL PURGE: 6.24

	PURGE 1	PURGE 2	PURGE 3	PURGE 4
TEMP °C:	19.1	18.8	18.7	18.6
pH:	7.1	7.1	7.1	7.1
µmhos:	1544	1541	1539	1520

MW3: WELL DEPTH: 19.25' 2" casing
 DEPTH TO WATER: 8.74' collection date & time: 10/26/90 13:15
 WATER COLUMN: 10.51' purge equip: bailer
 ONE VOLUME: 1.72 sample equip: bailer
 TOTAL PURGE: 6.88

	PURGE 1	PURGE 2	PURGE 3	PURGE 4
TEMP °C:	19.3	18.8	18.8	18.7
pH:	7.3	7.3	7.3	7.3
µmhos:	1349	1349	1352	1352

10/26/90

MW 1 & MW 3 were buried under dirt
and the map was inaccurate. I called John Home.
and he said he would pay for a shovel and to
try and locate and to rent a metal detector. I didn't
have to rent a metal detector, but I did get a shovel
and finally uncovered the lost wells.

Erik J. Kuehner

3624958

PayLess
DRUG STORES

PAYLESS DRUGS
4225 15 1200034
102690 09:26

4019012118676093
EXP. DT-01.91
CREDIT CARD 5.57

PAYLESS DRUGS
3848 CASTRO VLY
CASTRO VALLEY CA

*SHOVEL 5.19
TAX 1 .38
AMT DUE 5.57
CHRG CRD 5.57
CHANGE .00

10/26/90 09:26
120034 15 THANKS

X *Erik J. Kuehner*
Customer Signature

The issuer of the card identified on this item is authorized to pay the amount shown as TOTAL upon proper presentation. I promise to pay such TOTAL (together with any other charges due thereon) subject to and in accordance with the Agreement governing the use of such card.

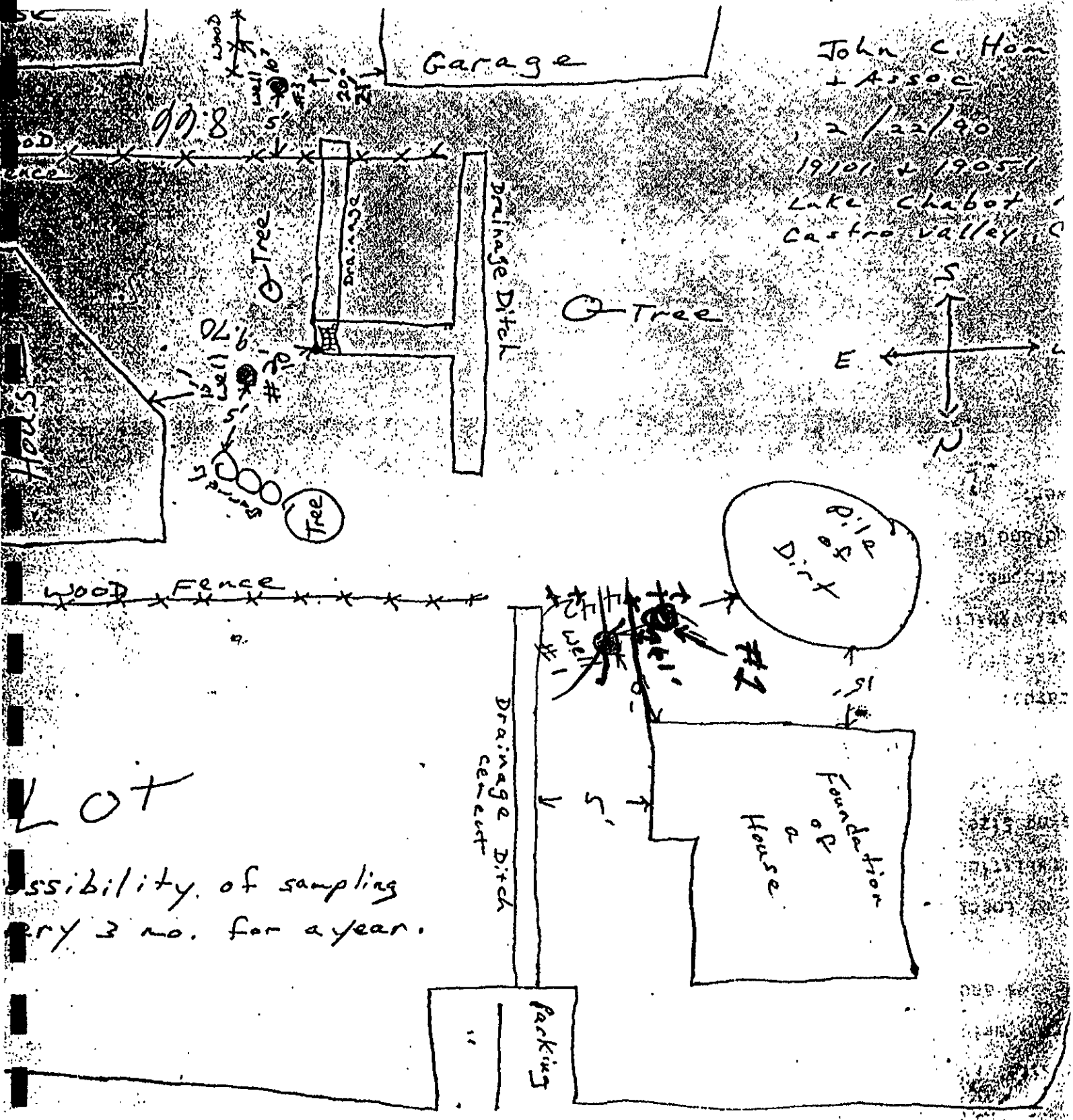
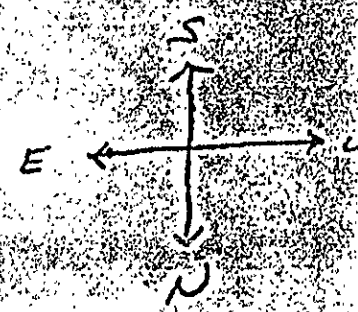
Thank You for shopping

PayLess

OUR NAME IS THE PROMISE OF VALUE
BUT WE KNOW PEOPLE MAKE THE DIFFERENCE
CUSTOMER COPY

John C. Hom
+ Assoc

2/22/90
19101 + 19051
Lake Chabot
Castro Valley, CA



LOT

possibility of sampling
every 3 mo. for a year.

HERTLEIN PL.

APPENDIX B

NET Pacific Log No. 5914

8 Pages



NATIONAL
ENVIRONMENTAL
TESTING, INC.

NET Pacific, Inc.
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623

Patrick J. Conway
John C. Hom & Assoc., Inc.
1618 Second St
San Rafael, CA 94901

Date: 02-15-91
NET Client Acct No: 589
NET Pacific Log No: 5914
Received: 02-01-91 1615

Client Reference Information

19101 & 19051 Lake Chabot Road, Castro Valley

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

A handwritten signature in black ink that reads "GAL/K". The signature is written over a horizontal line.

Jules Skamarack
Laboratory Manager

JS:rct
Enclosure(s)



NET Pacific, Inc.

Client No: 589
Client Name: John C. Hom & Assoc., Inc.
NET Log No: 5914

Date: 02-15-91

Page: 2

Ref: 19101 & 19051 Lake Chabot Road, Castro Valley

Descriptor, Lab No. and Results

Parameter	Method	Reporting Limit	MW-1	MW-2	Units
			02-01-91 1100	02-01-91 1315	
			73939	73940	
PETROLEUM HYDROCARBONS			--	--	
VOLATILE (WATER)			--	--	
DILUTION FACTOR *			1	1	
DATE ANALYZED			02-11-91	02-11-91	
METHOD GC FID/5030			--	--	
as Gasoline		0.05	0.46	ND	mg/L
METHOD 602			--	--	
DILUTION FACTOR *			1	1	
DATE ANALYZED			02-11-91	02-11-91	
Benzene		0.5	12	ND	ug/L
Ethylbenzene		0.5	7.9	ND	ug/L
Toluene		0.5	ND	ND	ug/L
Xylenes, total		0.5	20	ND	ug/L

NET

NET Pacific, Inc.

Client No: 589
 Client Name: John C. Hom & Assoc., Inc.
 NET Log No: 5914

Date: 02-15-91

Page: 3

Ref: 19101 & 19051 Lake Chabot Road, Castro Valley

Descriptor, Lab No. and Results

Parameter	Method	Reporting Limit	MW-3	MW-4	Units
			02-01-91 1400	02-01-91 1215	
			73941	73942	
PETROLEUM HYDROCARBONS			---	---	
VOLATILE (WATER)			---	---	
DILUTION FACTOR *			1	1	
DATE ANALYZED			02-11-91	02-12-91	
METHOD GC FID/5030			---	---	
as Gasoline		0.05	ND	ND	mg/L
METHOD 602			---	---	
DILUTION FACTOR *			1	1	
DATE ANALYZED			02-11-91	02-12-91	
Benzene		0.5	ND	ND	ug/L
Ethylbenzene		0.5	ND	ND	ug/L
Toluene		0.5	ND	ND	ug/L
Xylenes, total		0.5	ND	ND	ug/L



NET Pacific, Inc.

KEY TO ABBREVIATIONS and METHOD REFERENCES

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- NTU : Nephelometric turbidity units.
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- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 16th Edition, APHA, 1985.

2/1/91

ERIK
JOHN C. HOM & ASSOCIATES
1678 2nd St.

nw keys @

SAN RAFAEL, CA.
Site 19010 LAKE CABOT RD., CASTRO VALLEY
19051

3 VOAS each well x 4 = ¹² VOAS TOTAL
GAS/BTEX
PURGE WATER PUT IN DRUM ON SITE

MW1 2" casing : .1632 gal/ft

TD: 19.08' well depth IV: .74 gal PE: bailer

WD: 14.53' depth to water PV: 2.96 gal SE: bailer

WC: 4.55' water column collection date & time: 2/1/91 11:00

	P1	P2	P3	P4
TEMP °C	16.9	17.2	17.3	17.4
CONDUCT Mhos	1569	1595	1593	1575
pH	6.7	6.8	6.8	6.8

MW2 2" casing

TD: 17.50' IV: 1.57 gal PE: ~~peristaltic~~ bailer

WD: 7.85' PV: 6.28 gal SE: bailer

WC: 9.65' collection date & time: 2/1/91 13:15

	P1	P2	P3	P4
TEMP °C	17.2	17.0	17.0	17.0
CONDUCT Mhos	1642	1628	1628	1626
pH	7.1	7.1	7.2	7.2

MW3 2" casing

TD: 19.25' IV: 1.74 gal PE: bailer

WD: 8.61' PV: 6.96 gal SE: bailer

WC: 10.64' collection date & time: 2/1/91 14:00

	P1	P2	P3	P4
TEMP °C	16.5	16.6	16.6	16.6
CONDUCT Mhos	1458	1461	1460	1461
pH	7.3	7.3	7.4	7.4

MW4 2" casing

TD: 20.10'

ND: 11.38'

WC: 8.72'

IV: 1.42 gal

PE: Peristaltic *

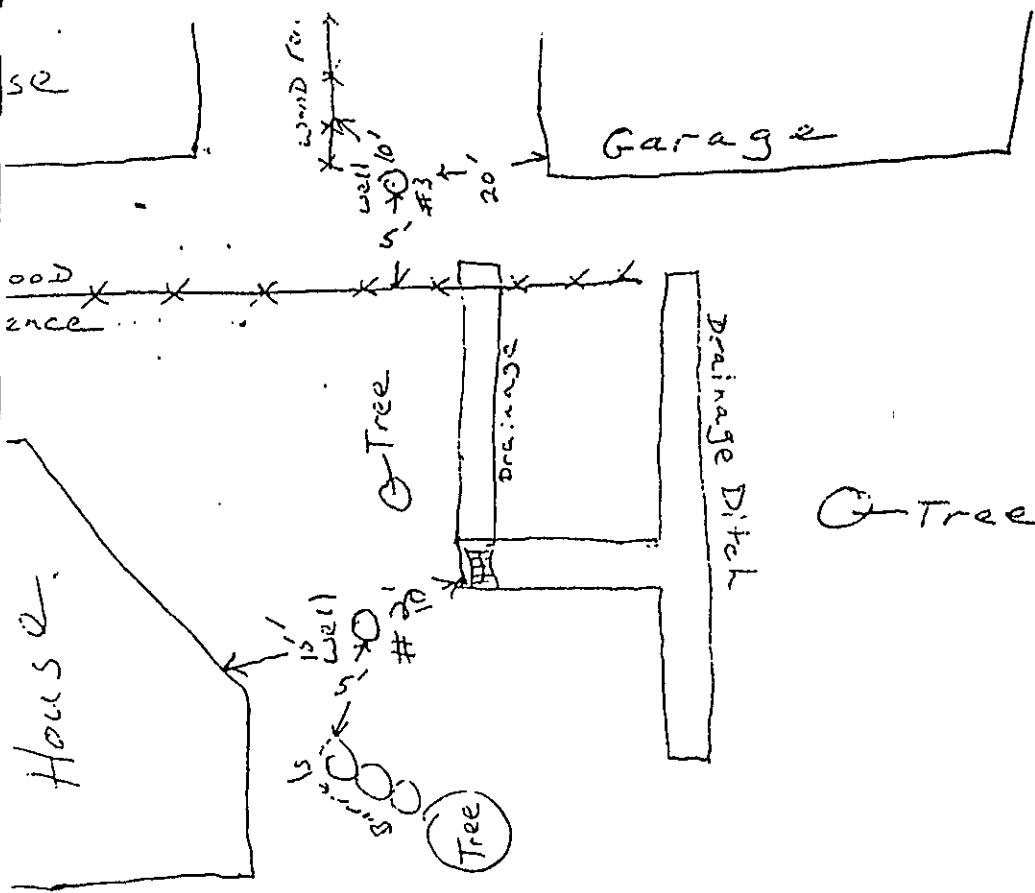
PV: 5.68 gal

SE: bailer

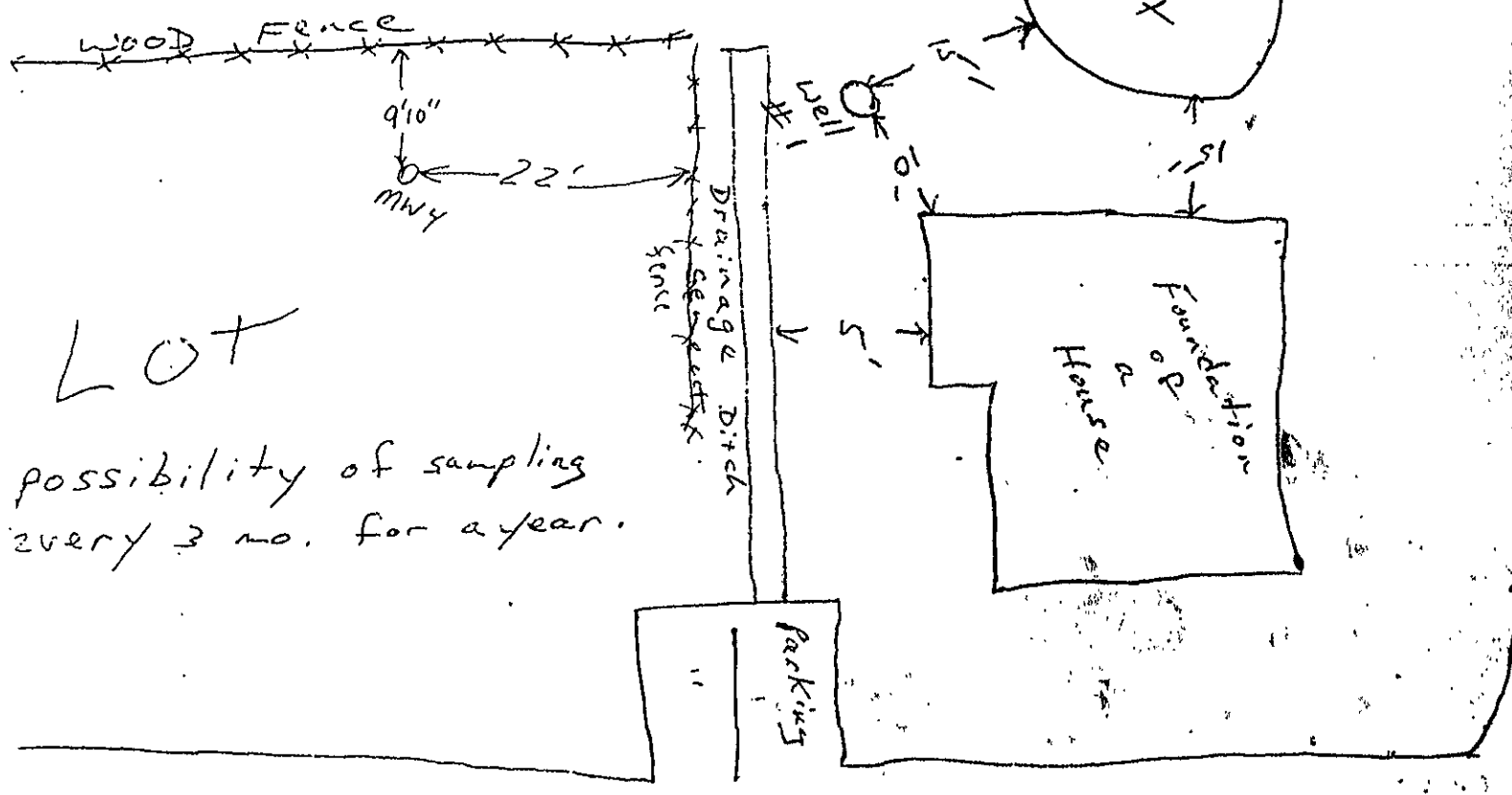
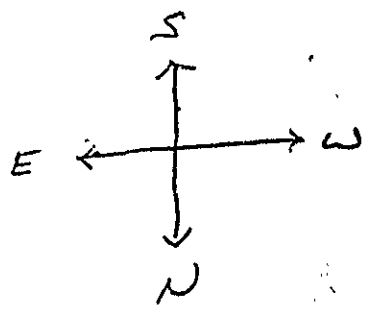
collection date & time: 2/1/91 12:15

	P1	P2	P3	P4
Temp °C:	17.0	17.3	17.4	17.7
sumhos:	1682	1707	1722	1803
pH:	7.0	7.0	7.0	7.1

* note: MW-4 is curved and Teflon bailer would not slide down so peristaltic was needed for bailing.



John C. Horn
 + Assoc
 2/22/90
 19101 + 19051
 Lake Chabot Rd.
 Castro Valley, CA.



LOT
 possibility of sampling
 every 3 mo. for a year.

HERTLEIN PL.

APPENDIX C

NET Pacific Log No. 7706

4 Pages



NATIONAL ENVIRONMENTAL TESTING, INC.

NET Pacific, Inc. 435 Tesconi Circle Santa Rosa, CA 95401 Tel: (707) 526-7200 Fax: (707) 526-9623

Patrick J. Conway John C. Hom & Assoc., Inc. 1618 Second St San Rafael, CA 94901

Date: 06-10-91 NET Client Acct No: 589 NET Pacific Log No: 7706 Received: 05-24-91 1719

Client Reference Information

19010 & 19051 Lake Chabot Rd. Castre Valley

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

Jules Skamarack Laboratory Manager

JS:rcr Enclosure(s)



NET Pacific, Inc.

Client No: 589
Client Name: John C. Hom & Assoc., Inc.
NET Log No: 7706

Date: 06-10-91
Page: 2

Ref: 19010 & 19051 Lake Chabot Rd. Castre Valley

Descriptor, Lab No. and Results

Parameter	Method	Reporting Limit	MW-1	MW-2	Units
			05-24-91 1240	05-24-91 1350	
			86160	86161	
PETROLEUM HYDROCARBONS			--	--	
VOLATILE (WATER)			--	--	
DILUTION FACTOR *			1	1	
DATE ANALYZED			06-06-91	06-06-91	
METHOD GC FID/5030			--	--	
as Gasoline		0.05	0.52	0.05	mg/L
METHOD 602			--	--	
DILUTION FACTOR *			1	1	
DATE ANALYZED			06-06-91	06-06-91	
Benzene		0.5	23	ND	ug/L
Ethylbenzene		0.5	ND	ND	ug/L
Toluene		0.5	ND	ND	ug/L
Xylenes, total		0.5	19	ND	ug/L



NET Pacific, Inc.

Client No: 589
Client Name: John C. Hom & Assoc., Inc.
NET Log No: 7706

Date: 06-10-91

Page: 3

Ref: 19010 & 19051 Lake Chabot Rd. Castre Valley

Descriptor, Lab No. and Results

Parameter	Method	Reporting Limit	MW-3	MW-4	Units
			05-24-91 1440	05-24-91 1205	
			86162	86163	
PETROLEUM HYDROCARBONS			--	--	
VOLATILE (WATER)			--	--	
DILUTION FACTOR *			1	1	
DATE ANALYZED			06-06-91	06-06-91	
METHOD GC FID/5030			--	--	
as Gasoline		0.05	ND	ND	mg/L
METHOD 602			--	--	
DILUTION FACTOR *			1	1	
DATE ANALYZED			06-06-91	06-06-91	
Benzene		0.5	ND	ND	ug/L
Ethylbenzene		0.5	ND	ND	ug/L
Toluene		0.5	ND	ND	ug/L
Xylenes, total		0.5	ND	ND	ug/L



KEY TO ABBREVIATIONS and METHOD REFERENCES

NET Pacific, Inc.

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SM: see "Standard Methods for the Examination of Water & Wastewater, 16th Edition, APHA, 1985.

APPENDIX D

NET Pacific Log No. 9451

8 Pages



®

NATIONAL
ENVIRONMENTAL
TESTING, INC.

NET Pacific, Inc.
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623

John C. Hom
John C. Hom & Assoc., Inc.
1618 Second St
San Rafael, CA 94901

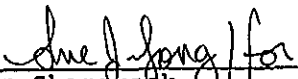
Date: 09-06-91
NET Client Acct No: 589
NET Pacific Log No: 9451
Received: 08-23-91 1950

Client Reference Information

Lake Chabot Road

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:



Jules Skamarack
Laboratory Manager

JS:rct
Enclosure(s)



NET Pacific, Inc

Client No: 589
Client Name: John C. Hom & Assoc., Inc.
NET Log No: 9451

Date: 09-06-91

Page: 2

Ref: Lake Chabot Road

Descriptor, Lab No. and Results

Parameter	Method	Reporting Limit	MW-1	MW-2	Units
			08-23-91 1430	08-23-91 1630	
			95525	95526	
PETROLEUM HYDROCARBONS			--	--	
VOLATILE (WATER)			--	--	
DILUTION FACTOR *			1	1	
DATE ANALYZED			08-28-91	08-28-91	
METHOD GC FID/5030			--	--	
as Gasoline		0.05	0.42	ND	mg/L
METHOD 602			--	--	
DILUTION FACTOR *			1	1	
DATE ANALYZED			08-28-91	08-28-91	
Benzene		0.5	32	ND	ug/L
Ethylbenzene		0.5	14	ND	ug/L
Toluene		0.5	3.6	ND	ug/L
Xylenes, total		0.5	29	ND	ug/L



NET Pacific, Inc

Client No: 589
@Client Name: John C. Hom & Assoc., Inc.
NET Log No: 9451

Date: 09-06-91

Page: 3

Ref: Lake Chabot Road

Descriptor, Lab No. and Results

Parameter	Method	Reporting Limit	MW-3	MW-4	Units
			08-23-91 1715	08-23-91 1530	
			95527	95528	
PETROLEUM HYDROCARBONS			--	--	
VOLATILE (WATER)			--	--	
DILUTION FACTOR *			1	1	
DATE ANALYZED			08-28-91	08-29-91	
METHOD GC FID/5030			--	--	
as Gasoline		0.05	ND	ND	mg/L
METHOD 602			--	--	
DILUTION FACTOR *			1	1	
DATE ANALYZED			08-28-91	08-29-91	
Benzene		0.5	ND	ND	ug/L
Ethylbenzene		0.5	ND	ND	ug/L
Toluene		0.5	ND	ND	ug/L
Xylenes, total		0.5	ND	ND	ug/L



Client Acct: 589
 Client Name: John C. Hom & Assoc., Inc.
 NET Log No: 9451

Date: 09-06-91
 Page: 4

NET Pacific, Inc

Ref: Lake Chabot Road

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verif Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Gasoline	0.05	mg/L	88	ND	93	85	9.0
Benzene	0.5	ug/L	97	ND	93	84	10
Toluene	0.5	ug/L	102	ND	95	91	4.3
Gasoline	0.05	mg/L	87	ND	79	80	1.3
Benzene	0.5	ug/L	94	ND	89	90	1.1
Toluene	0.5	ug/L	95	ND	89	85	4.6

COMMENT: Blank Results were ND on other analytes tested.



NET Pacific, Inc

KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- * : Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
- ICVS : Initial Calibration Verification Standard (External Standard).
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference, $100 \text{ [Value 1 - Value 2]}/\text{mean value}$.
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1983.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

-M.A.

8-23-91

Client: - Johnston
 1618 2nd St
 San Rafael, CA
 (415) 258-9027

Job Site: 19000 - 19051 Lake Chabot Rd.
 Castro Valley, CA

Analytes: AAS-BTXR

MW-1 2" casing - 0.1632 gal/ft
 TD: 19.08' IV: 0.82 gal
 WD: 14.03'
 WC: 5.05'

	P1	P2	P3	P4
OC	18.5	18.4	18.8	18.9
MS	1303	1331	1343	1343
pH	6.5	6.5	6.5	6.5

Sample collection: 8-23-91 1430

MW-2 2" casing
 TD: 17.50' IV: 1.57 gal
 WD: 7.86'
 WC: 9.64'

	P1	P2	P3	P4
OC	20.5	20.5	20.4	20.0
MS	1642	1610	1608	1595
pH	7.2	7.2	7.1	7.2

Sample collection: 8-23-91 1630

John Han cont.

8-23-91

MW-3

TD 19.25' IV: 1.74 gal

WD 8.60'

WC 10.65'

	P1	P2	P3	P4
OC	20.3	20.1	19.4	20.1
MS	1387	1364	1355	1359
PH	7.4	7.3	7.3	7.2

Sample collection: 8-23-91 1715

MW-4 2" casing

TD 20.10' IV: 7.46 gal

WD 11.18'

WC 8.92'

	P1	P2	P3	P4
OC	20.6	20.0	19.1	19.9
MS	1560	1545	1549	1547
PH	7.2	7.1	7.2	7.2

Sample collection: 8-23-91 1530

	P1	P2	P3	P4
OC	20.5	20.5	20.5	20.5
MS	1571	1571	1571	1571
PH	7.2	7.2	7.2	7.2

APPENDIX E

NET Pacific Log No. 91.0823 9 Pages



NATIONAL ENVIRONMENTAL TESTING, INC.

NET Pacific, Inc. 435 Tesconi Circle Santa Rosa, CA 95401 Tel: (707) 526-7200 Fax: (707) 526-9623

John C. Hom John C. Hom & Assoc., Inc. 1618 Second St San Rafael, CA 94901

Date: 12/16/1991 NET Client Acct No: 58900 NET Pacific Log No: 91.0823 Received: 11/21/1991

Client Reference Information

John Hom-Lake Chabot Rd.

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

[Signature] Jules Skamarack Laboratory Manager

JS:rct Enclosure(s)



NET Pacific, Inc

Client No: 58900
Client Name: John C. Hom & Assoc., Inc.
NET Log No: 91.0823

Date: 12/16/1991

Page: 2

Ref: John Hom-Lake Chabot Rd.

Descriptor, Lab No. and Results

Parameter	Method	Reporting Limit	Descriptor, Lab No. and Results		Units
			MW-1 105896	MW-4 105897	
TPH (Gas/BTXE,Liquid)					
METHOD 5030 (GC,FID)			--	--	
DATE ANALYZED			12-03-91	12-03-91	
DILUTION FACTOR*			1	1	
as Gasoline		0.05	0.29	ND	mg/L
METHOD 8020 (GC,Liquid)			--	--	
DATE ANALYZED			12-03-91	12-03-91	
DILUTION FACTOR*			1	1	
Benzene		0.5	16	ND	ug/L
Ethylbenzene		0.5	ND	ND	ug/L
Toluene		0.5	1.6	ND	ug/L
Xylenes (Total)		0.5	15	ND	ug/L



NET Pacific, Inc

Client No: 58900
Client Name: John C. Hom & Assoc., Inc.
NET Log No: 91.0823

Date: 12/16/1991

Page: 3

Ref: John Hom-Lake Chabot Rd.

Descriptor, Lab No. and Results

Parameter	Method	Reporting Limit	Descriptor, Lab No. and Results		Units
			MW-2 105898	MW-3 105899	
TPH (Gas/BTXE, Liquid)					
METHOD 5030 (GC, FID)			--	--	
DATE ANALYZED			12-03-91	12-03-91	
DILUTION FACTOR*			1	1	
as Gasoline		0.05	ND	ND	mg/L
METHOD 8020 (GC, Liquid)			--	--	
DATE ANALYZED			12-03-91	12-03-91	
DILUTION FACTOR*			1	1	
Benzene		0.5	ND	ND	ug/L
Ethylbenzene		0.5	ND	ND	ug/L
Toluene		0.5	ND	ND	ug/L
Xylenes (Total)		0.5	ND	ND	ug/L



NET Pacific, Inc

Client No: 58900
Client Name: John C. Hom & Assoc., Inc.
NET Log No: 91.0823

Date: 12/16/1991

Page: 4

Ref: John Hom-Lake Chabot Rd.

QUALITY CONTROL DATA

<u>Parameter</u>	<u>Reporting Limits</u>	<u>Units</u>	<u>Cal Verf Stand % Recovery</u>	<u>Blank Data</u>	<u>Spike % Recovery</u>	<u>Duplicate Spike % Recovery</u>	<u>RPD</u>
Gasoline	0.05	mg/L	95	ND	93	93	<1
Benzene	0.5	ug/L	99	ND	96	101	5.3
Toluene	0.5	ug/L	109	ND	102	109	6.2

COMMENT: Blank Results were ND on other analytes tested.



NET Pacific, Inc

KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- * : Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
- ICVS : Initial Calibration Verification Standard (External Standard).
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference, $100 \text{ [Value 1 - Value 2] / mean value}$.
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

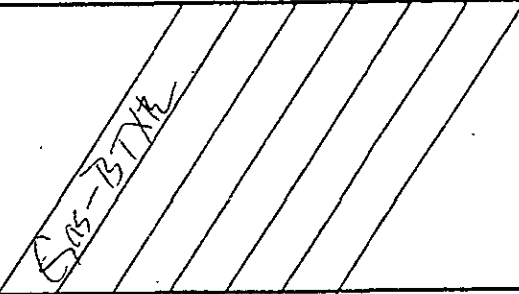
Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 16th Edition, APHA, 1985.

PROJ. NO.		PROJECT NAME					NO. OF CON- TAINERS	REMARKS				
SAMPLERS: (Signature)												
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION							
	Johnston-Lake Chabot Rd.						505-BTX 					
	11-21-91	1115		-	MW-1	3						X
		1320		-	MW-4	3						X
		1400		-	MW-2	3						X
		1440		-	MW-3	3	X					
Relinquished by: (Signature)		Date / Time		Received by: (Signature)			Relinquished by: (Signature)		Date / Time		Received by: (Signature)	
Michael Gonting		11-21-91 1652										
Relinquished by: (Signature)		Date / Time		Received by: (Signature)			Relinquished by: (Signature)		Date / Time		Received by: (Signature)	
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)			Date / Time		Remarks			
				K. Sample			11/21/91 1652					

NCA

11-21-91

Client: John Horn
 1618 2nd St
 San Rafael CA 94901

Contact: Same as above

Phone: 415/258-9027

Site: 19010-19051 Lake Chabot Rd.
 Castro Valley, CA
 (Map on file)

Analytes: Gas - BTXB

Well Measurements:

Well #	TD	DTW	WC	CS	PV
MW-1	19.55'	14.29'	5.26'	2"	0.86 gal
MW-2	16.35'	7.85'	8.50'	2"	1.39 gal
MW-3	19.15'	8.57'	10.58'	2"	1.73 gal
MW-4	20.70'	11.29'	9.41'	2"	1.54 gal

Purge Data:

MW-1 Purge Vol.: 0.86 gal ~~80%~~ Recharge @ 15.34'

	P1	P2	P3	P4
OC	17.2	17.7	17.5	17.6
MS	16.77	16.18	16.15	16.22
pH	7.0	7.0	7.0	7.0

Sample collected: 11-21-91 1115

Johnston cont.

MW-4 P.V. 1.54 gal 50% recharge @ 13.17'

	<u>P1</u>	<u>P2</u>	<u>P3</u>	<u>P4</u>
OC	18.0	18.3	18.0	18.1
US	1610	1623	1621	1622
pH	7.0	7.0	7.0	7.0

Sample collected: 11-21-91 1320

MW-2 P.V. 1.39 gal 50% recharge @ 9.55'

	<u>P1</u>	<u>P2</u>	<u>P3</u>	<u>P4</u>
OC	18.2	17.9	17.9	17.9
US	1848	1843	1829	1813
pH	7.0	7.0	7.0	7.0

Sample collected: 11-21-91 1400

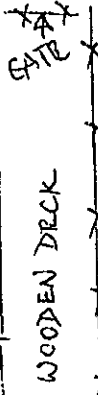
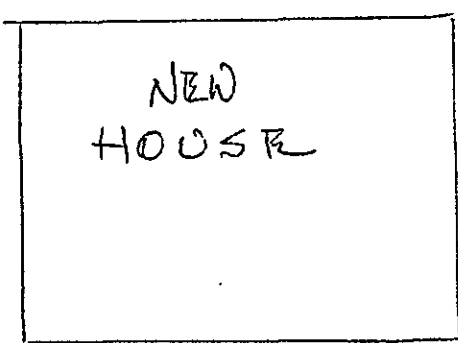
MW-3 P.V. 1.73 gal 50% recharge @ 10.69'

	<u>P1</u>	<u>P2</u>	<u>P3</u>	<u>P4</u>
OC	17.1	17.2	17.2	17.1
US	1433	1432	1427	1429
pH	7.0	7.0	7.0	7.0

Sample collected 11-21-91 1440

John Hom Properties
19101 - 19051 Lake Chabot Rd
Castro Valley, CA

ROADWAY



EMPTY LOT

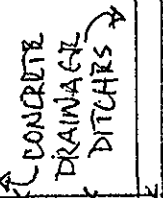
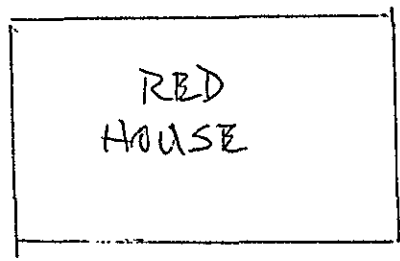
MW-4

PURGE WATER DRUMS

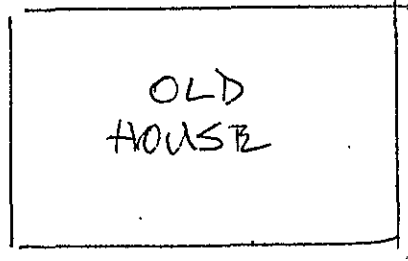
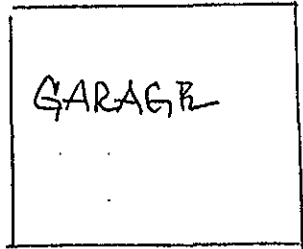
CONCRETE

MW-1

MW-2



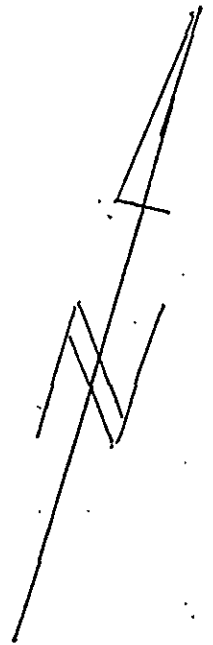
MW-3



GATE

ROADWAY

LAKE CHABOT RD



APPENDIX F

NET Pacific Log No. 92.1263 6 Pages



®

NATIONAL ENVIRONMENTAL TESTING, INC.

NET Pacific, Inc. 435 Tesconi Circle Santa Rosa, CA 95401 Tel: (707) 526-7200 Fax: (707) 526-9623

John C. Hom John C. Hom & Assoc., Inc. 1618 Second St San Rafael, CA 94901

Date: 03/26/1992 NET Client Acct No: 58900 NET Pacific Log No: 92.1263 Received: 03/11/1992

Client Reference Information

Lake Chabot

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

[Signature] Jules Skamarack Laboratory Manager

JS:rcr Enclosure(s)



NET Pacific, Inc

Client No: 58900
Client Name: John C. Hom & Assoc., Inc.
NET Log No: 92.1263

Date: 03/26/1992
Page: 2

Ref: Lake Chabot

Parameter	Method	Descriptor, Lab No. and Results			Units
		Reporting Limit	MW-3 03/11/1992 13:30 115995	MW-2 03/11/1992 14:30 115996	
TPH (Gas/BTXE,Liquid)			--	--	
METHOD 5030 (GC,FID)					
DATE ANALYZED			03-14-92	03-14-92	
DILUTION FACTOR*			1	1	
as Gasoline		0.05	ND	ND	mg/L
METHOD 8020 (GC,Liquid)			--	--	
DATE ANALYZED			03-14-92	03-14-92	
DILUTION FACTOR*			1	1	
Benzene		0.5	ND	ND	ug/L
Ethylbenzene		0.5	ND	ND	ug/L
Toluene		0.5	ND	ND	ug/L
Xylenes (Total)		0.5	ND	ND	ug/L
SURROGATE RESULTS			--	--	
Bromofluorobenzene			107	93	% Rec.



NET Pacific, Inc

Client No: 58900
Client Name: John C. Hom & Assoc., Inc.
NET Log No: 92.1263

Date: 03/26/1992

Page: 3

Ref: Lake Chabot

Descriptor, Lab No. and Results

Parameter	Method	Reporting Limit	MW-1	MW-4	Units
			03/11/1992 15:45 115997	03/11/1992 17:50 115998	
TPH (Gas/BTXE,Liquid)			--	--	
METHOD 5030 (GC,FID)					
DATE ANALYZED			03-14-92	03-14-92	
DILUTION FACTOR*			1	1	
as Gasoline		0.05	0.30	ND	mg/L
METHOD 8020 (GC,Liquid)			--	--	
DATE ANALYZED			03-14-92	03-14-92	
DILUTION FACTOR*			1	1	
Benzene		0.5	43	ND	ug/L
Ethylbenzene		0.5	9.2	ND	ug/L
Toluene		0.5	11	ND	ug/L
Xylenes (Total)		0.5	34	ND	ug/L
SURROGATE RESULTS			--	--	
Bromofluorobenzene			123	104	% Rec.



NET Pacific, Inc

Client No: 58900
Client Name: John C. Hom & Assoc., Inc.
NET Log No: 92.1263

Date: 03/26/1992
Page: 4

Ref: Lake Chabot

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Gasoline	0.05	mg/L	99	ND	100	93	7.0
Benzene	0.5	ug/L	105	ND	99	90	9.0
Toluene	0.5	ug/L	100	ND	100	95	6.0

COMMENT: Blank Results were ND on other analytes tested.



NET Pacific, Inc

KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
- * : Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
- ICVS : Initial Calibration Verification Standard (External Standard).
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference, $100 \text{ [Value 1 - Value 2] / mean value}$.
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- umhos/cm : Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

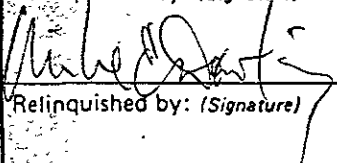
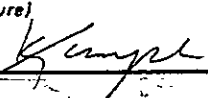
Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

CHAIN OF CUSTODY RECORD

4421

PROJ. NO.		PROJECT NAME					NO. OF CONTAINERS	REMARKS									
SAMPLERS (Signature)																	
STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION												
	3-11-92	1330		-	MW-3	3	X	<div style="border: 1px solid black; padding: 5px; display: inline-block; transform: rotate(-45deg);"> GAS-BTNB </div>									
		1430		-	MW-2	3	X										
		1545		-	MW-1	3	X										
		1750		-	MW-4	3	X										
Relinquished by: (Signature)		Date / Time		Received by: (Signature)			Relinquished by: (Signature)		Date / Time		Received by: (Signature)						
		3-11-92 1950															
Relinquished by: (Signature)		Date / Time		Received by: (Signature)			Relinquished by: (Signature)		Date / Time		Received by: (Signature)						
Relinquished by: (Signature)		Date / Time		Received for Laboratory by: (Signature)			Date / Time		Remarks								
							3/11/92 1950										

APPENDIX G

PACE Project No. 440719.600 8 Pages

July 25, 1994

Mr. John Hobb
John C. Hom and Associates
1618 Second Street
San Rafael, CA 94901

RE: PACE Project No. 440719.600
Client Reference: Castro Valley

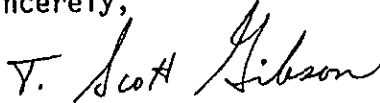
Dear Mr. Hobb:

Enclosed is the report of laboratory analyses for samples received July 19, 1994.

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,



T. Scott Gibson
Project Manager

Enclosures

REPORT OF LABORATORY ANALYSIS

Mr. John Hobb
 Page 2

July 25, 1994
 PACE Project Number: 440719600

Client Reference: Castro Valley

PACE Sample Number:
 Date Collected:
 Date Received:
 Client Sample ID:
 Parameter

70 0357454
 07/19/94
 07/19/94
 MW-2

Units MDL DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS					
TOTAL FUEL HYDROCARBONS, (LIGHT):					
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND		07/20/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):					
Benzene	ug/L	0.5	ND		07/20/94
Toluene	ug/L	0.5	ND		07/20/94
Ethylbenzene	ug/L	0.5	ND		07/20/94
Xylenes, Total	ug/L	0.5	ND		07/20/94

REPORT OF LABORATORY ANALYSIS

Mr. John Hobb
 Page 3

July 25, 1994
 PACE Project Number: 440719600

Client Reference: Castro Valley

PACE Sample Number:
 Date Collected:
 Date Received:
 Client Sample ID:
 Parameter

70 0357462
 07/19/94
 07/19/94
 MW-3

Units MDL DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):			-	07/20/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND	07/20/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):			-	07/20/94
Benzene	ug/L	0.5	ND	07/20/94
Toluene	ug/L	0.5	ND	07/20/94
Ethylbenzene	ug/L	0.5	ND	07/20/94
Xylenes, Total	ug/L	0.5	ND	07/20/94

These data have been reviewed and are approved for release.



for Darrell C. Cain
 Regional Director

Mr. John Hobb
Page 4

FOOTNOTES
for pages 1 through 3

July 25, 1994
PACE Project Number: 440719600

Client Reference: Castro Valley

MDL Method Detection Limit
ND Not detected at or above the MDL.

REPORT OF LABORATORY ANALYSIS

Mr. John Hobb
 Page 5

QUALITY CONTROL DATA

July 25, 1994
 PACE Project Number: 440719600

Client Reference: Castro Valley

PURGEABLE FUELS AND AROMATICS

Batch: 70 32177
 Samples: 70 0357446, 70 0357454, 70 0357462

METHOD BLANK:

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			-
Benzene	ug/L	0.5	ND
Toluene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	700357403	Spike	Spike Recv	Spike Dupl Recv	RPD
Benzene	ug/L	0.5	ND	100	93%	104%	11%
Toluene	ug/L	0.5	ND	100	93%	100%	7%
Ethylbenzene	ug/L	0.5	ND	100	92%	96%	4%
Xylenes, Total	ug/L	0.5	ND	300	93%	96%	3%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Benzene	ug/L	0.5	100	96%	99%	3%
Toluene	ug/L	0.5	100	95%	98%	3%
Ethylbenzene	ug/L	0.5	100	95%	96%	1%
Xylenes, Total	ug/L	0.5	300	96%	96%	0%

Mr. John Hobb
Page 6

FOOTNOTES
for page 5

July 25, 1994
PACE Project Number: 440719600

Client Reference: Castro Valley

MDL Method Detection Limit
ND Not detected at or above the MDL.
RPD Relative Percent Difference



REPORT OF LABORATORY ANALYSIS

John C. Hom and Associates
1618 Second Street
San Rafael, CA 94901

July 25, 1994
PACE Project Number: 440719600

Attn: Mr. John Hobb

Client Reference: Castro Valley

PACE Sample Number:
Date Collected:
Date Received:
Client Sample ID:
Parameter

70 0357446
07/19/94
07/19/94
MW-1

Units MDL DATE ANALYZED

ORGANIC ANALYSIS

PURGEABLE FUELS AND AROMATICS				
TOTAL FUEL HYDROCARBONS, (LIGHT):				07/19/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	300	07/19/94
PURGEABLE AROMATICS (BTXE BY EPA 8020M):				07/19/94
Benzene	ug/L	0.5	24	07/19/94
Toluene	ug/L	0.5	3.0	07/19/94
Ethylbenzene	ug/L	0.5	9.1	07/19/94
Xylenes, Total	ug/L	0.5	34	07/19/94

440719.600

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client John Hum + Associates

Report To: John Hubbs

Pace Client No. _____

Address _____

Bill To: _____

Pace Project Manager TSG

P.O. # / Billing Reference _____

Pace Project No. _____

Phone _____

Project Name / No. Castro Valley

*Requested Due Date: Std.

Sampled By (PRINT): T. Scott Gibson

Sampler Signature T. Scott Gibson Date Sampled 7-19-94

NO. OF CONTAINERS	PRESERVATIVES					ANALYSES REQUEST
	UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA	HCL	
						TPH-GAS BTEX

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA	HCL	ANALYSES REQUEST	REMARKS
1	MW-1		H ₂ O	35744.6	1							
2	MW-2			35745.4	3							
3	MW-3			35746.2	3							
4												
5												
6												
7												
8												

COOLER NOS.	BAILERS	SHIPMENT METHOD		ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
OUT / DATE	RETURNED / DATE							
				1-	T. Scott Gibson - PACE	PACE	7/19/94	1500

Additional Comments

15/1

APPENDIX H

PACE Project No. 440718.502 7 Pages

July 21, 1994

Mr. John Hobb
John C. Hom and Associates
1618 Second Street
San Rafael, CA 94901

RE: PACE Project No. 440718.502
Client Reference: Castro Valley

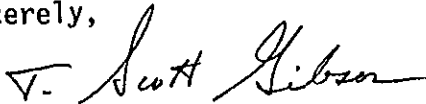
Dear Mr. Hobb:

Enclosed is the report of laboratory analyses for samples received July 18, 1994.

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,



T. Scott Gibson
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

John C. Hom and Associates
1618 Second Street
San Rafael, CA 94901

July 21, 1994
PACE Project Number: 440718502

Attn: Mr. John Hobb

Client Reference: Castro Valley

PACE Sample Number: 70 0357136
Date Collected: 07/18/94
Date Received: 07/18/94
Client Sample ID: MW-4

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	----------------------

ORGANIC ANALYSIS

<u>PURGEABLE FUELS AND AROMATICS</u>			
TOTAL FUEL HYDROCARBONS, (LIGHT):			07/19/94
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND 07/19/94
<u>PURGEABLE AROMATICS (BTXE BY EPA 8020M):</u>			
Benzene	ug/L	0.5	ND 07/19/94
Toluene	ug/L	0.5	ND 07/19/94
Ethylbenzene	ug/L	0.5	ND 07/19/94
Xylenes, Total	ug/L	0.5	ND 07/19/94

These data have been reviewed and are approved for release.

Darrell C. Cain
Regional Director

Mr. John Hobb
Page 2

FOOTNOTES
for page 1

July 21, 1994
PACE Project Number: 440718502

Client Reference: Castro Valley

MDL Method Detection Limit
ND Not detected at or above the MDL.



REPORT OF LABORATORY ANALYSIS

Mr. John Hobb
Page 3

QUALITY CONTROL DATA

July 21, 1994
PACE Project Number: 440718502

Client Reference: Castro Valley

PURGEABLE FUELS AND AROMATICS
Batch: 70 32153
Samples: 70 0357136

METHOD BLANK:

Parameter	Units	MDL	Method Blank
TOTAL FUEL HYDROCARBONS, (LIGHT):			-
Purgeable Fuels, as Gasoline (EPA 8015M)	ug/L	50	ND
PURGEABLE AROMATICS (BTXE BY EPA 8020M)			-
Benzene	ug/L	0.5	ND
Toluene	ug/L	0.5	ND
Ethylbenzene	ug/L	0.5	ND
Xylenes, Total	ug/L	0.5	ND

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	700356067	Spike	Spike Recv	Spike Dupl Recv	RPD
Benzene	ug/L	0.5	ND	100	90%	89%	1%
Toluene	ug/L	0.5	ND	100	94%	93%	1%
Ethylbenzene	ug/L	0.5	ND	100	95%	93%	2%
Xylenes, Total	ug/L	0.5	ND	300	96%	96%	0%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Benzene	ug/L	0.5	100	101%	98%	3%
Toluene	ug/L	0.5	100	105%	103%	2%
Ethylbenzene	ug/L	0.5	100	108%	106%	2%
Xylenes, Total	ug/L	0.5	300	110%	108%	2%



REPORT OF LABORATORY ANALYSIS

Mr. John Hobb
Page 4

FOOTNOTES
for page 3

July 21, 1994
PACE Project Number: 440718502

Client Reference: Castro Valley

MDL Method Detection Limit
ND Not detected at or above the MDL.
RPD Relative Percent Difference

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client John C. Horn & Associates
Address 1618 Second St
San Rafael CA 94901
Phone 415 258 9027

Report To: John Hobb
Bill To: - Same -
P.O. # / Billing Reference _____
Project Name / No. Castro Valley

Pace Client No. _____
Pace Project Manager TSB
Pace Project No. _____
*Requested Due Date: Std.

Sampled By (PRINT): T. Scott Gibson
Sampler Signature T. Scott Gibson Date Sampled 7-18-94

NO. OF CONTAINERS	PRESERVATIVES					ANALYSES REQUEST
	UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA	HCL	
						TPH-300 PTEX

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	PRESERVATIVES	ANALYSES REQUEST	REMARKS
1	MW-4		H ₂ O	5713.6	3		XX	
2								
3								
4								
5								
6								
7								
8								

COOLER NOS.	BAILERS	SHIPMENT METHOD		ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
OUT / DATE	RETURNED / DATE							
				1	T. Scott Gibson PACE	John C. Horn PACE	7/18/94	12:00

Additional Comments

1014

FIGURE II
 FIELD LOG DATA SHEET
 PACE Laboratories, Inc.
 WELL SAMPLING

COPY

Client: John C. Horn & Assoc. Project: Castro Valley Project #: _____
 Sample Site: Lake Chabot Rd MW-4

Well Identification and Description: (Locked _____ Not Locked) Key#: _____
 ID Inches _____ PVC: 2" Steel: _____ Stainless Steel: _____ Other: _____ Labeled:

Total Well Depth (from top of casing) _____ meters 20.19 feet Elevation: _____ feet

Static Water Level (from top of casing) Before Prepumping: _____ meters 11.19 feet

Static Water Level (from top of casing) At Time of Sampling: _____ meters _____ feet

Static Water Elevation: _____ feet Water Column: 9.0 feet One Casing Volume 1.5 gal
3X = 5g

Date Prepumped: 7-18-94 Time Prepumped: 10:55 - 11:16 AM Volume Prepumped: _____ gal

Prepumping Method Used: HAND BAIL Pump Rate: _____ gpm

Date Sampled: 7-18-94 Time Sampled: 11:26 am Sampling Equipment Used: 55 BAIL

Sample Temperature: _____ °C Sample pH: _____ Sample Specific Conductance: _____ umho/cm2

Field Measurements Temperature Corrected: Yes _____ No _____ Metals Filtered in Field: Yes _____ No _____

Weather Conditions: clear warm

Observations: mod recharge; mod turbid (brn.); No odors

Sample Description: SL turbid

Name and Affiliation of Sampler(s): VJA - PACE

Name and Affiliation of Inspector(s) Present: N/A

STABILIZATION TEST

Time	pH	Specific Conductance (umhos/cm2)	Temp. (°C)	Cumulative Volume Removed (gallons)
	7°	1650	17.5	2
	7°	1650	17.5	3 1/2
	7°	1650	17.5	5

APPENDIX I

JCH&A, INC. Measurements 7 Pages

JCH
JOHN C. HOM & ASSOCIATES

Geotechnical Consultants
 1618 Second Street
 San Rafael, CA 94901

JOB 19051 Lake Chabot Road (650.1)

SHEET NO. 1 OF 4

CALCULATED BY DHR DATE 8/22/94

CHECKED BY _____ DATE _____

SCALE _____

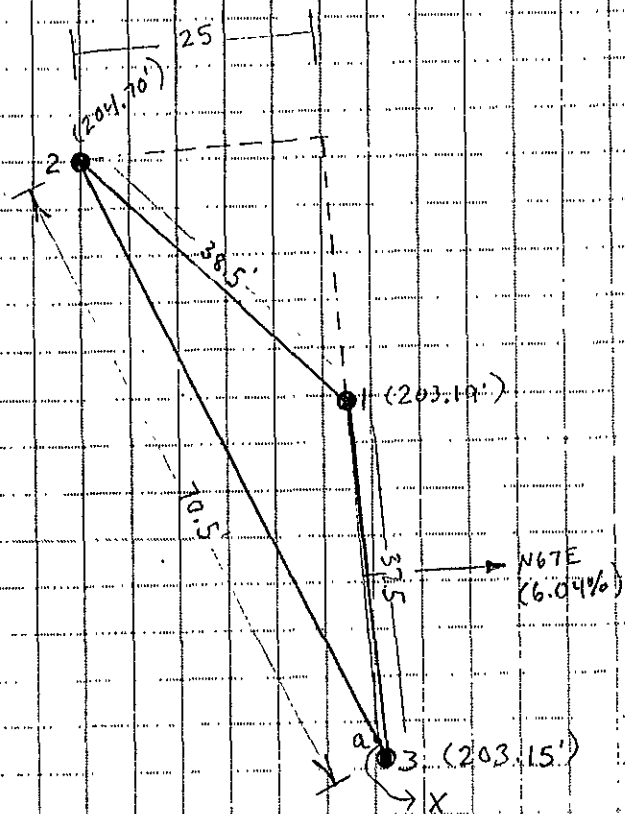
Monitoring well # (NET) As labeled by JCH & Assoc.	Tap of Casing Elevation	Depth to Water	Elevation of the Top of Water Column
MW-1 (NET) # 2 (JCH)	218.93'	14.23'	204.70'
MW-2 (NET) # 1 (JCH)	211.11'	7.92'	203.19'
MW-3 (NET) # 3 (JCH)	211.77'	8.62'	203.15'
MW-4 (NET) # 4 (JCH)	219.49'	11.19'	208.30'

Measurements recorded 7/18-19/94

JCH
JOHN C. HOM & ASSOCIATES

Geotechnical Consultants
 1618 Second Street
 San Rafael, CA 94901

JOB 19051 Lake Chabot Road (650.1)
 SHEET NO. 2 OF 4
 CALCULATED BY DHR DATE 8/22/94
 CHECKED BY _____ DATE _____
 SCALE 1" = 20'



line from well #1 to point a is the line of strike of the planar surface of the water table.

distance x = distance from well #3 to point a.

point a is at the same elevation as well #1, but lies along the line from well #2 to well #3.

Wells # 1, #2, #3

finding point a:

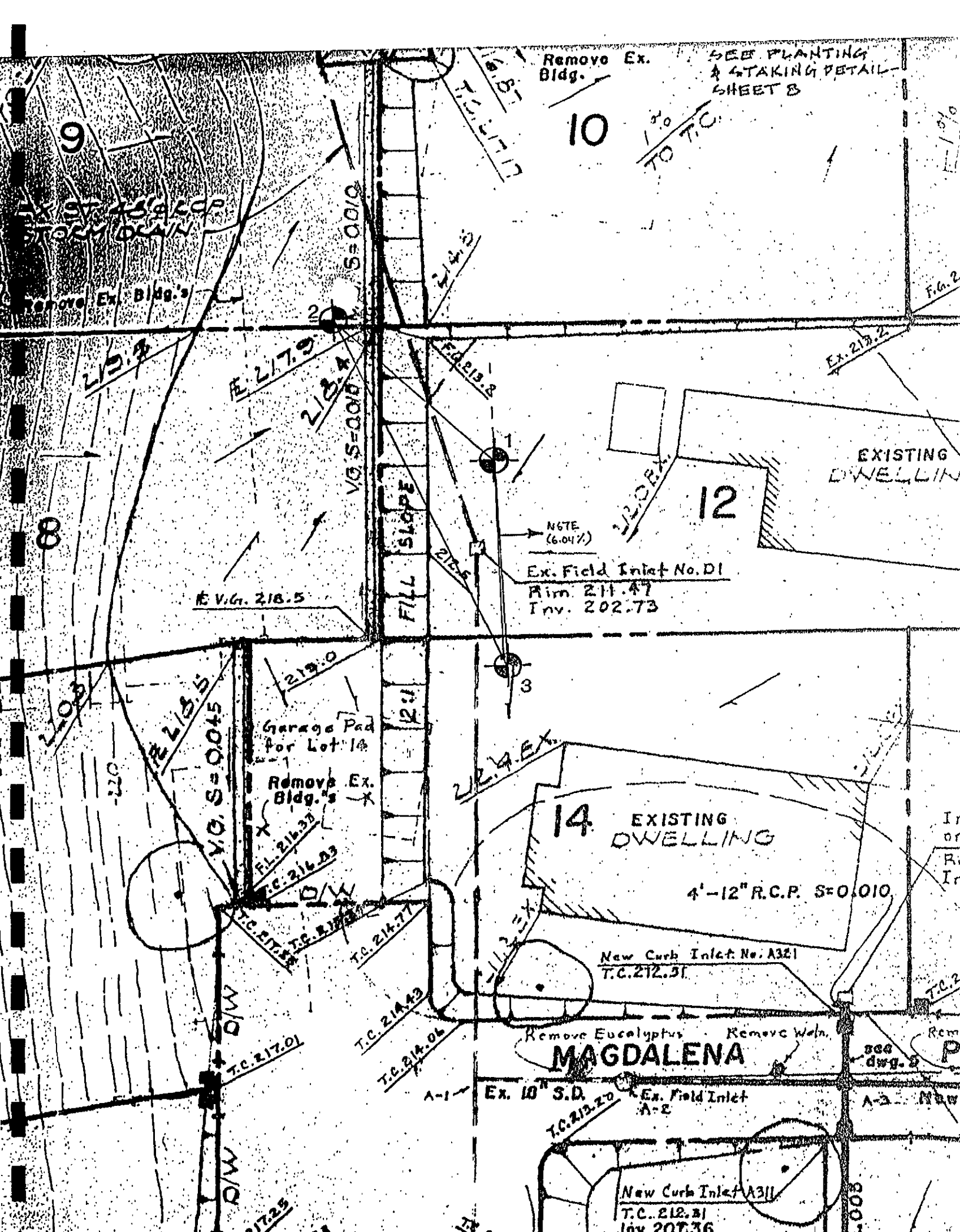
$$\frac{203.19 - 203.15}{204.70 - 203.15} = \frac{x}{70.5'} \quad x = 1.82'$$

Gradient Calculation:

$$\frac{204.70 - 203.19}{25.0'} = \frac{1.51}{25.0} = 6.04\%$$

N 67° E = direction of gradient.

Measurements taken 7/19/94



Remove Ex. Bldg.

SEE PLANTING & STAKING DETAIL SHEET B

10

1/2" TO T.C.

9

EX. ST. 43" R.C.P. STORM DRAIN

Remove Ex. Bldg.'s

Ex. 218.2

Ex. 218.2

EXISTING DWELLING

12

NOTE (6.04%)

Ex. Field Inlet No. D1
Rim. 211.47
Inv. 202.73

E. V.G. 218.5

FILL SLOPE

V.G. S=0.010

E. 217.9
218.4

E. 213.8

8

Garage Pad for Lot 14

Remove Ex. Bldg.'s

E.L. 216.31

T.C. 216.03

EXISTING DWELLING

4'-12" R.C.P. S=0.010

New Curb Inlet No. A321
T.C. 212.51

MAGDALENA

Remove Eucalyptus

Remove Well

Ex. 10" S.D.

Ex. Field Inlet A-2

see dwg. 2

T.C. 217.01

T.C. 214.49
T.C. 214.04

T.C. 212.20

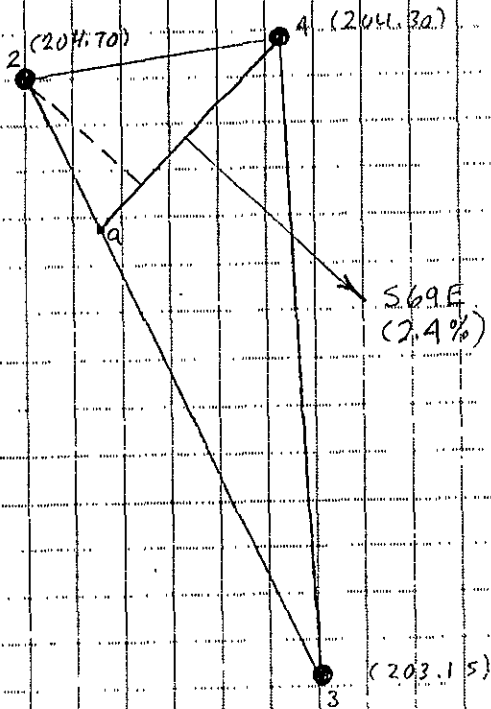
New Curb Inlet A311
T.C. 212.31
Inv. 207.36

000

JCH
JOHN C. HOM & ASSOCIATES

Geotechnical Consultants
 1618 Second Street
 San Rafael, CA 94901

JOB: 19051 Lake Chabot Road (650.1)
 SHEET NO. 3 OF 9
 CALCULATED BY: DHR DATE: 8/22/94
 CHECKED BY: _____ DATE: _____
 SCALE: 1" = 20'



Line from well # 4 to a
 is the line of strike of
 the planar surface of the
 water table.

distance x = distance from
 well # 3 to point a.

point a is at the same
 elevation as well # 4,
 but along the line from
 well # 2 to well # 3.

Wells # 2, # 3, # 4

Finding point a:
$$\frac{204.30 - 203.15}{204.70 - 203.15} = \frac{1.15}{1.55} = \frac{x}{70.5} \quad x = 52.31'$$

Gradient Calculation:
$$\frac{204.70 - 204.30}{17.0'} = 2.4\%$$

S69E = direction of gradient

Measurements taken 7/18-19/94

EXIST. 48" R.C.P. STORM DRAIN

Remove Ex. Bldg.'s

8

V.G. S=0.010

FILL SLOPE

E.V.G. 216.5

Ex. Field Inlet No. D1
Rim 211.47
Inv. 202.73

12

EXIST. I.W.E.L.

Garage Pad for Lot 14

Remove Ex. Bldg.'s

V.G. S=0.045

12:1

14

EXISTING DWELLING

4'-12" R.C.P. S=0.010

New Curb Inlet No. A3E1
T.C. 212.31

Remove Eucalyptus Remove Wehr
MAGDALENA

Ex. 18" S.D.

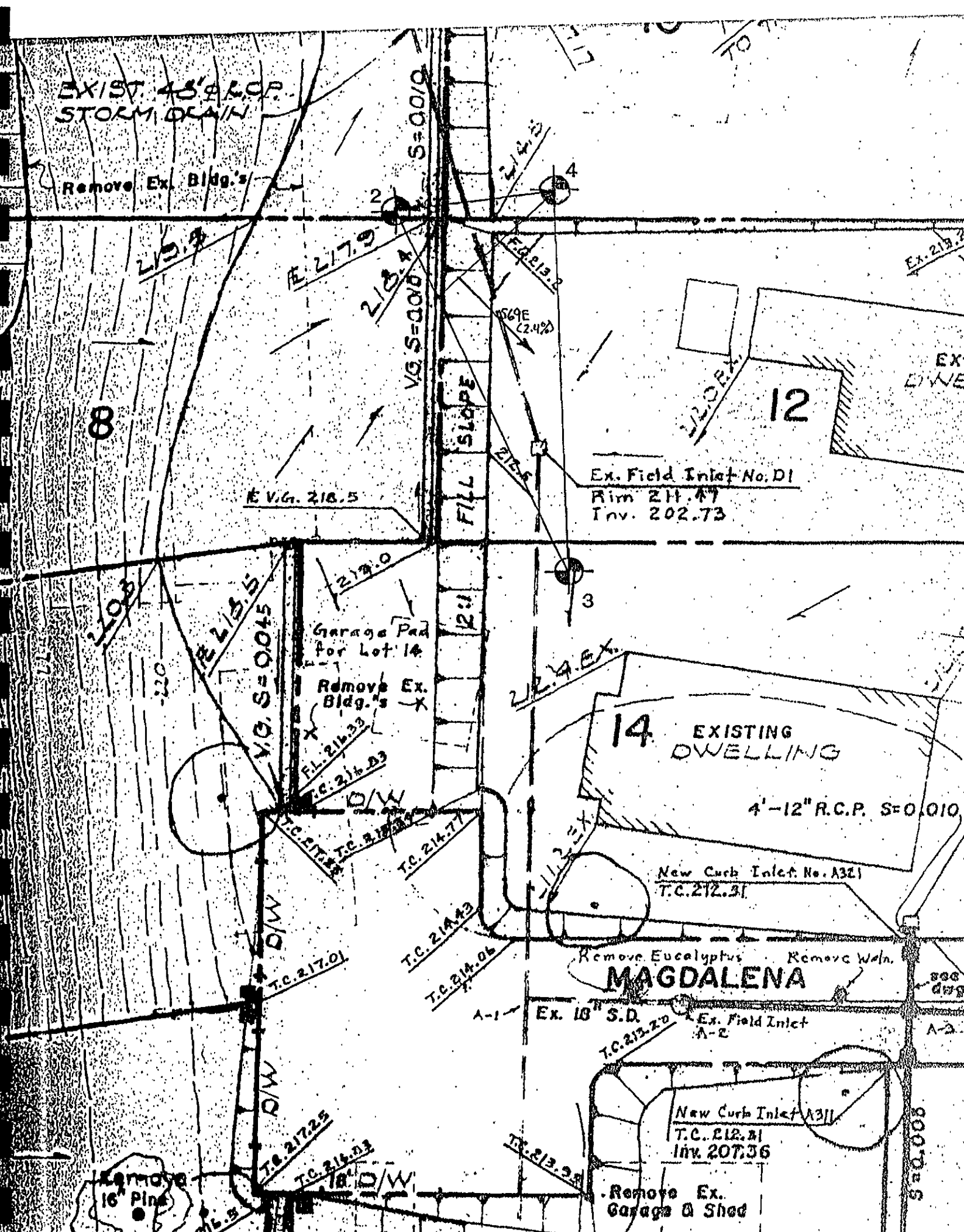
Ex. Field Inlet A-2

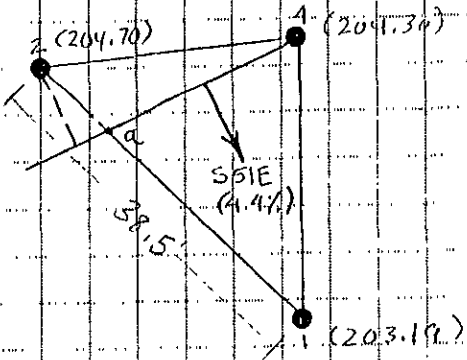
New Curb Inlet A3J1
T.C. 212.31
Inv. 207.36

Remove Ex. Garage & Shed

Remove 16" Pine

S=0.008





line from well #4 to point a is the strike of the planar surface of the water table.

distance x = the distance from well #1 to point a.

Point a is the same elevation as well #4 but along the line from well #1 to well #2.

Wells #1, #2, #4

Finding point a:
$$\frac{204.30 - 203.19}{204.70 - 203.19} = \frac{1.11}{1.51} = \frac{x}{38.5} \quad x = 28.30$$

Calculation of gradient:
$$\frac{204.70 - 204.30}{9.0} = 4.4\%$$

SSE = direction of gradient

Measurements taken 7/18-19/94

EXIST. 48" R.C.P.
STORM DRAIN

Remove Ex. Bldg.'s

8

S=0.010

E. 217.9

218.4

V.G. S=0.000

551E (4.4%)

E.V.G. 218.5

FILL SLOPE

Ex. Field Inlet No. D1
Rim 211.47
Inv. 202.73

EXIST DWELL

12

Garage Pad
for Lot 14

Remove Ex.
Bldg.'s

FL. 216.93

T.C. 216.93

V.G. S=0.045

E. 218.5

219.0

12:1

14. EXISTING
DWELLING

4'-12" R.C.P. S=0.010

New Curb Inlet No. A321
T.C. 212.31

Remove Eucalyptus Remove Water

MAGDALENA

Ex. 18" S.D.

Ex. Field Inlet
A-2

T.C. 213.20

New Curb Inlet A311
T.C. 212.31
Inv. 207.36

Remove Ex.
Garage & Shed

S=0.000

Remove
16" Pine

FL. 216.5

T.C. 216.83

T.C. 217.25

T.C. 217.01

T.C. 214.43

T.C. 214.06

T.C. 214.77

T.C. 217.25

T.C. 217.25

D/W

D/W

D/W

-220

210.3

213.8

212.4 EX.

211.2 EX.

T.C. 213.23

Ex. 219.2

214.3

212.5

4

1

see
dwg. 8

A-2

A-3

PLATES

Plate 1 Location Plan
 Test Boring and Monitoring Well

DISTRIBUTION

Three Copies Submitted

copy: Alameda County Environmental Health Dept
Division of Hazardous Material
Attention: Scott Seery
80 Swan Way, Room 200
Oakland, California 94621