

JCH

**JOHN C. HOM & ASSOCIATES, INC.**

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

October 25, 1990  
Job Number 650.1

Fred Divine  
704 Mission Avenue  
San Rafael, CA 94901

*Add TO  
552953  
Proj # 753A*

Dear Mr. Divine:

Supplemental Information  
19051 Lake Chabot Road  
Castro Valley, California

As requested, we are responding to the letter of October 12, 1990 from Scott Seary. We are responding to items 1, 3, 4, and 6.

Item 1: It should be noted that these were previously included on plates 11 and 12. We are enclosing additional copies. Please note that we have revised and corrected the elevations of the top of casing on the logs.

Item 3: The new and pre-existing wells were developed by bailing. Bailing continued until the well was clean and free of sand and silt.

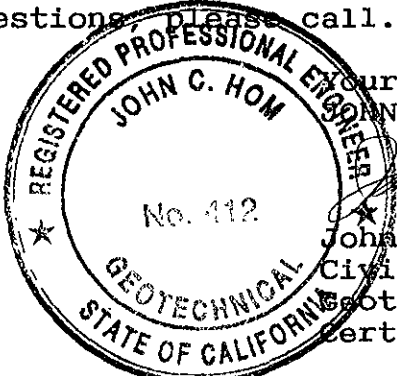
Item 4: We are enclosing gradient calculations and maps

Item 6: NET Pacific did include quality control testing. The revised testing is also attached.

We have scheduled NET pacific for further water sampling and chemical testing. We will forward the results when they become available.

We trust this provides the information you require at this time. If you have any questions, please call.

Yours very truly,  
JOHN C HOM & ASSOCIATES, INC



*John C. Hom*  
John C Hom  
Civil Engineer - 28877  
Geotechnical Engineer - 412  
Certificates Expire 3/31/91

JCH\sz  
3 copies submitted

Log of Boring 1

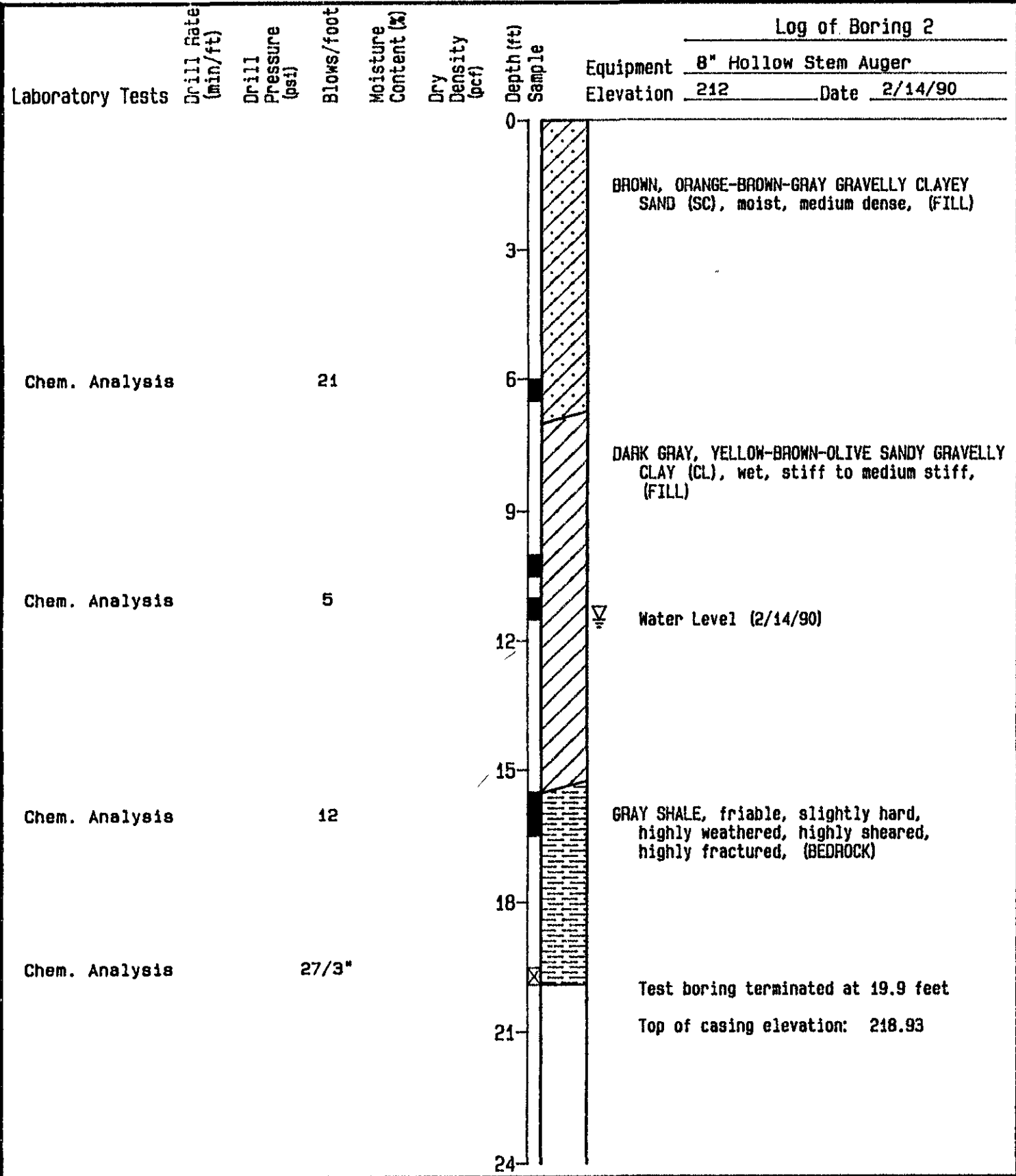
Laboratory Tests	Drill Rate (min/ft)	Drill Pressure (psi)	Blows/foot	Moisture Content (%)	Dry Density (pcf)	Depth (ft) Sample	Equipment
							6' Hollow Stem Auger
							Elevation **218 Date 2/14/90
			*			0	BLACK SANDY SILTY CLAY (CH), very stiff, wet, (ALLUVIUM)
						3	
Chem. Analysis			30			6	MOTTLED ORANGE-BROWN, GRAY SANDY CLAY (CL) moist, very stiff, (ALLUVIUM)
						9	MOTTLED OLIVE BROWN-GRAY SANDY CLAY (CL), wet, very stiff, (ALLUVIUM)
Chem. Analysis			19			12	Water Level (2/14/90)
						15	GRAY BROWN SANDY CLAY (CL), medium stiff, saturated, (ALLUVIUM)
Chem. Analysis			7			18	GRAY SHALE, moderately strong, friable, moderately weathered, highly fractured, highly sheared, (BEDROCK)
Chem. Analysis			27/5'			21	Test boring terminated at 19.3 feet.
						24	*Values converted to Standard Penetration Resistance. **Elevations referenced from Grading Plan by Raymond F. Greenwood, dated 6/28/88. Top of casing elevation: 211.11

**JCH**  
**JOHN C. HOM**  
 & ASSOCIATES, INC.  
 Geotechnical Consultants

Job No:  
650.1  
 Appr:  
*JCH*  
 Date:  
9/90

LOG OF BORING 1 MW2 (?)  
 19051 Lake Chabot Road  
 Castro Valley, California

PLATE  
**11**



**JCH**  
**JOHN C. HOM**  
 & ASSOCIATES, INC.  
 Geotechnical Consultants

Job No:  
650.1

Appr:  
*JCH*

Date:  
9/90

LOG OF BORING 2 *MW-1(?)*

19051 Lake Chabot Road  
 Castro Valley, California

PLATE  
**12**

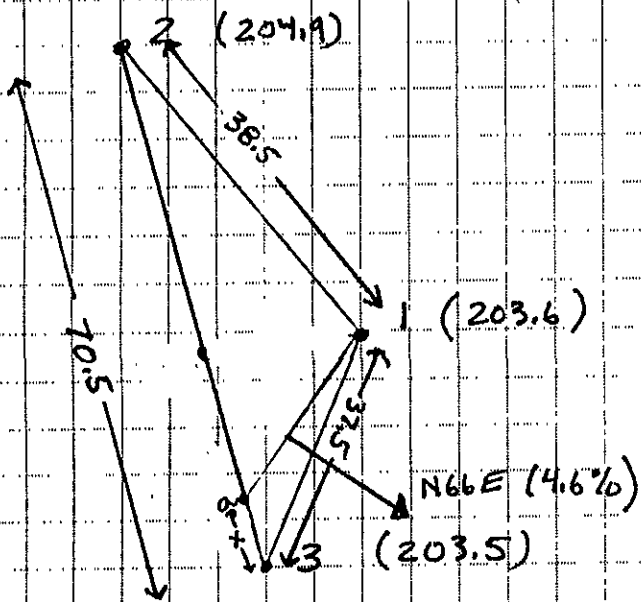
**JCH**  
**JOHN C. HOM & ASSOCIATES**

Geotechnical Consultants  
 1618 Second Street  
 San Rafael, CA 94901

JOB 19051 Lake Chabot Rd (650.1)  
 SHEET NO. 1 OF 3  
 CALCULATED BY RMF DATE 10/24/90  
 CHECKED BY \_\_\_\_\_ DATE \_\_\_\_\_  
 SCALE \_\_\_\_\_

Well # (by JCH & A)	Top of casing elevation	Depth to water (2/20/90)	Elevation of water (2/20/90)	Depth to water (7/27/90)	Elevation of water (7/27/90)
1	211.11	7.5	203.6	9.70	201.41
2	218.93	14.0	204.9	14.42	204.51
3	211.77	8.3	203.5	8.66	203.11

Calculation of gradient of groundwater table (2/20/90)



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

distance x is the distance from well #3 to point a.

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

Finding Point a:

$$\frac{203.6 - 203.5}{204.9 - 203.5} = \frac{0.1}{1.4} = \frac{x}{70.5} \quad \begin{matrix} 7.05 = 1.4x \\ x = 5.0' \end{matrix}$$

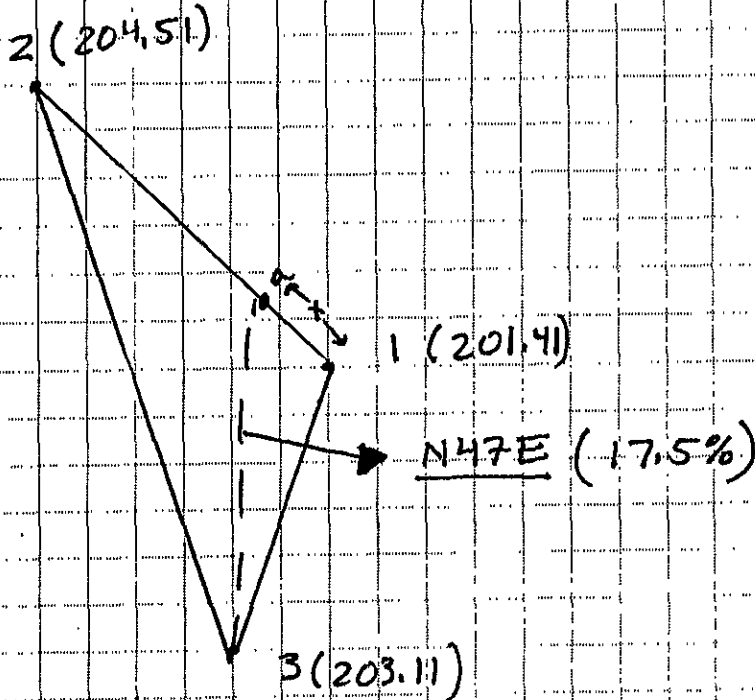
Gradient

~~0.1~~ ~~33~~ ~~3%~~ gradient

$\frac{204.9 - 203.6}{28} = \frac{1.3}{28}$   
 gradient = 4.6%

N66E  
~~direction~~ = direction of max gradient

Calculation of gradient of groundwater table (7/27/90)



find point a:

$$\frac{203.11 - 201.41}{204.51 - 201.41} = \frac{1.70}{3.10} = \frac{x}{38.5}$$

$$3.10x = 65.45$$

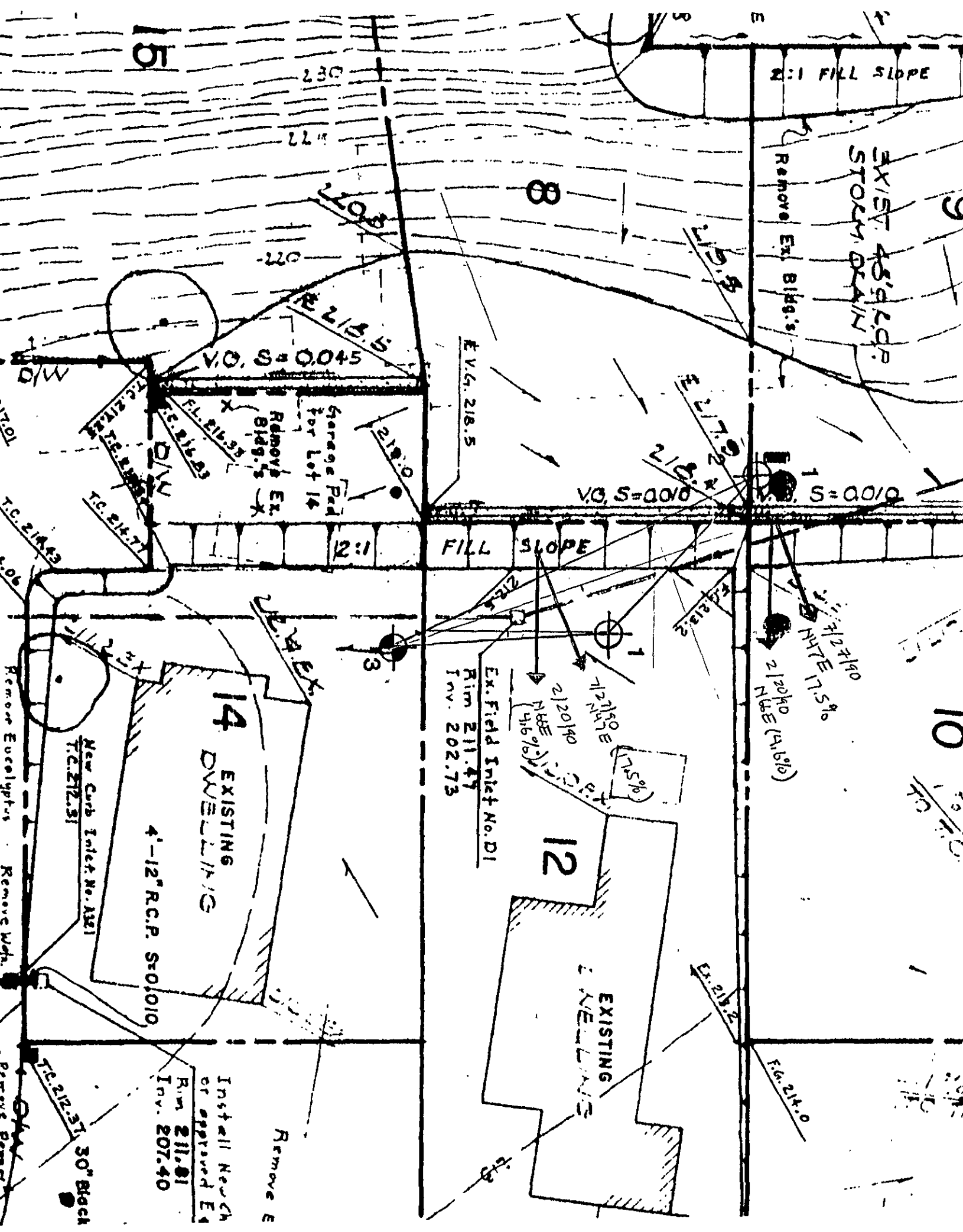
$$x = 21.1'$$

gradient

$$\frac{204.51 - 203.11}{8.2} = \frac{1.4}{8.0} = 17.5\%$$

direction of max gradient

N47°E



15

8

9

10

2:1 FILL SLOPE

EXIST. 40'x100'  
STOCK YARD

Remove Ex. Bldg's

VG, S=0.045

E VG. 218.5

VG, S=0.000

VG, S=0.010

Storage Pad  
for Lot 14

Remove Ex.  
Bldg's

2:1 FILL SLOPE

2/20HD  
N&E (1.5%)

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

14 EXISTING  
DWELLING

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

New Curb Inlet No. A321  
T.C. 212.51

12

EXISTING  
DWELLING

Install New Ch  
or approved E  
Rim 211.81  
Inv. 207.40

Remove E

30" Black

Remove Eucalyptus

Remove Wds.

Remove Board



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: 03-12-90  
NET Client Acct No: 589  
NET Pacific Log No: 9845  
Received: 02-23-90 0800

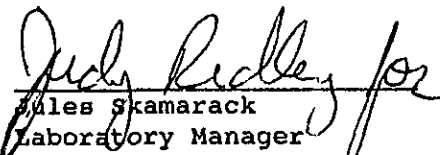
REVISED 10-18-90

Client Reference Information

19010 & 19051 Lake Chabot Rd, 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:

  
Jules Skamarack  
Laboratory Manager

Enclosure(s)





Client Acct: 589  
Client Name: John C. Hom & Assoc., Inc.  
NET Log No: 9845

Date: 03-12-90  
Page: 2

NET Pacific, Inc.

Ref: 19010 & 19051 Lake Chabot Rd, Castro Valley

Parameter	Reporting Limit	Descriptor, Lab No. and Result		Unit
		Well #1 02-22-90 1255 47026	Well #2 02-22-90 1300 47027	
PETROLEUM HYDROCARBONS		--	--	
VOLATILE (WATER)		--	--	
DILUTION FACTOR *		1	1	
DATE ANALYZED		03-06-90	03-06-90	
METHOD GC FID/5030		--	--	
as Gasoline	0.05	ND	ND	mg/L
METHOD 602		--	--	
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: 9845

Date: 03-12-90  
Page: 3

NET Pacific, Inc.

Descriptor, Lab No.  
and Results

Parameter	Reporting Limit	Well #3 02-22-90 1325 47028	Units
PETROLEUM HYDROCARBONS		--	
VOLATILE (WATER)		--	
DILUTION FACTOR *		1	
DATE ANALYZED		03-06-90	
METHOD GC FID/5030		--	
as Gasoline	0.05	ND	mg/L
METHOD 602		--	
Benzene	0.5	ND	ug/L
Ethylbenzene	0.5	ND	ug/L
Toluene	0.5	ND	ug/L
Xylenes, total	0.5	ND	ug/L



Client Acct: 589

Date: 03-12-90

Client Name: John C. Hom & Assoc., Inc.

NET Log No: 9845

Page: 4

NET Pacific, Inc.

QUALITY CONTROL RESULTS - TOTAL PETROLEUM HYDROCARBONS (water)

Parameter	Reporting Limits	Units	Blank Results	Lab No. Spike and Spike Replicate Results (% Recovery)	
				(-46864S)	(-46864SR)
as Gasoline	0.05	mg/L	ND	96	99
Benzene	0.5	ug/L	ND	100	96
Toluene	0.5	ug/L	ND	96	93



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435 Tesconi Circle  
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Tel: (707) 526-7200  
Fax: (707) 526-9623

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

Date: 08-13-90  
NET Client Acct No: 589  
NET Pacific Log No: 3073  
Received: 07-27-90 1430

REVISED 10-18-90

Client Reference Information

19101 & 19051 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)



Client No: 589  
 Client Name: John C. Hom & Assoc., Inc.  
 NET Log No: 3073

Date: 08-13-90

Page: 2

NET Pacific, Inc.

Ref: 19101 & 19051 Lake Chabot Road

Descriptor, Lab No. and Results

Parameter	Method	Reporting Limit	MW-1	MW-2	Units
			07-27-90 1155	07-27-90 1115	
			58667	58668	
PETROLEUM HYDROCARBONS			--	--	
VOLATILE (WATER)			--	--	
DILUTION FACTOR *			1	1	
DATE ANALYZED			08-02-90	08-01-90	
METHOD GC FID/5030			--	--	
as Gasoline		0.05	0.46	0.10	mg/L
METHOD 602			--	--	
DILUTION FACTOR *			1	1	
DATE ANALYZED			08-02-90	08-01-90	
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	3.1	ND	ug/L



Client No: 589  
Client Name: John C. Hom & Assoc., Inc.  
NET Log No: 3073

Date: 08-13-90

Page: 3

NET Pacific, Inc.

Ref: 19101 & 19051 Lake Chabot Road

Descriptor, Lab No. and Results

Parameter	Method	Reporting Limit	MW-3 07-27-90 1040 58669	Units
PETROLEUM HYDROCARBONS			--	
VOLATILE (WATER)			--	
DILUTION FACTOR *			1	
DATE ANALYZED			08-01-90	
METHOD GC FID/5030			--	
as Gasoline		0.05	0.10	mg/L
METHOD 602			--	
DILUTION FACTOR *			1	
DATE ANALYZED			08-01-90	
Benzene		0.5	ND	ug/L
Ethylbenzene		0.5	ND	ug/L
Toluene		0.5	ND	ug/L
Xylenes, total		0.5	ND	ug/L



Client No: 589  
Client Name: John C. Hom & Assoc., Inc.  
NET Log No: 3073

Date: 08-13-90

Page: 4

NET Pacific, Inc.

Ref: 19101 & 19051 Lake Chabot Road

QUALITY CONTROL RESULTS - TOTAL PETROLEUM HYDROCARBONS (water)

Parameter	Reporting Limits	Units	Blank Results	Lab No. Spike and Spike Replicate Results (% Recovery)		RPD
				(-Spike )	(-SpikeR)	
as Gasoline	0.05	mg/L	ND	94	103	8.9
Benzene	0.5	ug/L	ND	97	100	3.4
Toluene	0.5	ug/L	ND	96	97	1.4

QUALITY CONTROL RESULTS - TOTAL PETROLEUM HYDROCARBONS (water)

Parameter	Reporting Limits	Units	Blank Results	Lab No. Spike and Spike Replicate Results (% Recovery)		RPD
				(-Spike )	(-SpikeR)	
as Gasoline	0.05	mg/L	ND	87	106	19
Benzene	0.5	ug/L	ND	86	94	11
Toluene	0.5	ug/L	ND	88	95	8.2