



March 13, 1985

*any soil analytical data from
SS collected from MWs?*

Mr. John Randall
Chevron U.S.A., Inc.
Two Annabel Lane
Suite 200
San Ramon, California 94583

Reference: Service Station #4463
1801 Park Street & Eagle
Alameda, California

Gentlemen:

Enclosed is a copy of the hydrogeological report from Emcon Associates for the referenced location.

If you should have any questions or comments, please do not hesitate to call.



Jeffrey M. Ryan

JMR/jh

Enclosure

1992 national avenue

• hayward, california 94545 •

783-7500

ENVIRONMENTAL
PROTECTION
95 DEC -5 PM 1:43



EMCON
 ASSOCIATES
 Consultants in Wastes
 Management and
 Environmental Control

RECEIVED MEMORANDUM

MAR 7 1985

Date March 5, 1985

Project 438-66.01

GETTLER-RYAN INC.
 GENERAL CONTRACTORS

To Jeffrey M. Ryan
Gettler-Ryan, Incorporated
1992 National Avenue
Hayward, California 94545

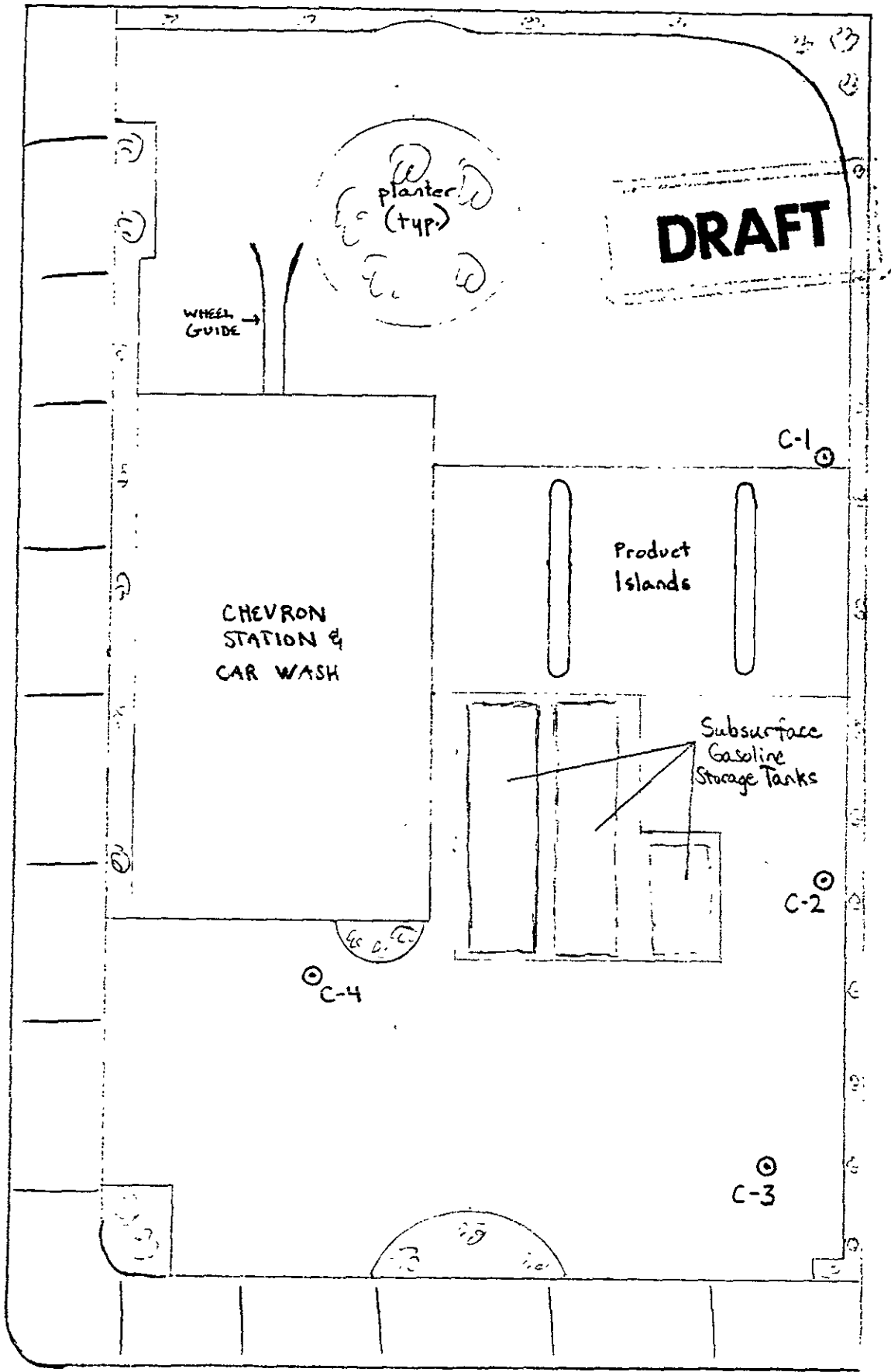
Re Chevron USA Station, Park and Eagle, Alameda

Five exploratory borings (C-1 through C-5) were drilled at the
Chevron Station on Park and Eagle in Alameda on February 27, 1985
(see attached Figure 1). The depths of the borings ranged between
16½ and 19½ feet. They encountered interlayered sand and clay to
the total depth explored. Ground-water was encountered approximately
7 feet below the surface. All five borings were converted to
ground-water monitoring wells by the installation of 3-inch PVC
casing. Well construction details are noted on the attached
preliminary Exploratory Boring Logs.

Evidence of petroleum product was encountered only in soils from
the depth interval of 6 to 7 feet in Boring C-2. Results of this
investigation indicate that ground-water flow beneath the site is to
the east.

Enclosures

Erin Garner



DRAFT

planter
(typ.)

WHEEL
GUIDE →

CHEVRON
STATION &
CAR WASH

Product
Islands

Subsurface
Gasoline
Storage Tanks

C-1

C-2

C-3

C-4

C-5

EAGLE

PARK



Legend

⊙ - monitoring well

Approx. Scale: 1" = 20'

FIGURE
1
ect 438-66.1



LOG OF EXPLORATORY BORING

PROJECT No. F3866 DATE 2-27-85
 CLIENT GA Chevron
 LOCATION Parke & Eagle Alameda
 LOGGED BY BT DRILLER AAA

BORING No. C-1
 Sheet 1
 of 1

Field location of boring: KNOWN 450 wells Parke & Eagle
 upo = no product odor
 Ground Elev. 0 Datum 0

Drilling method 8" HS
 Hole dia. 8"
 Casing installation data BACKFILLED W/ BENTONITE TO 17'; 3" PVC SLOT 17-5' BLANK TO SURFACE. SAND TO 5, BENTONITE TO 4', CONCRETE TO SURFACE.

Pocket Torr vane TSF	Pocket Penetrometer TSF	Blows/ft. or Pressure PSI	Type of Sample	Sample Number	Depth	Sample	Soil Group Symbol (U.S.C.S.)
					2		SP
					4		
					6		
					8		SC
		9/15/21	STP		10		SP
			90%		12		
					14		SC
		4/5/7	STP		16		cy SC
			100%		18		
2.0		9/11/13	STP	100%	20		
					22		
					24		
					26		
					28		
					30		
					32		
					34		
					36		

Water level	Time	Date

DESCRIPTION

CONCRETE & 2' GRAVEL BASE

2' FINE SAND - Brown (7.54R 5/2) 0-50% clay, 50% silt, 90-95% fine sand, trace fine gravel - medium damp, upo

4' Color changes to brownish yellow (104R 6/6) 50% clay, gravel diminished

6' moist to wet, upo

8' CLAYEY SAND - Brownish yellow (104R 6/6), 50% silt, 10-15% clay, 80-85% fine sand - medium dense moist to wet, upo

10' FINE SAND - Brownish yellow (104R 6/6) 50% clay, 50% silt, 90% fine sand, slightly Fe stained - medium dense, wet, no prod odor

12' CLAYEY SAND - Brownish yellow (104R 6/6), 50% silt, 15% clay, 80% fine sand - medium dense, wet, upo

14' SANDY CLAY TO CLAYEY SAND - Brownish yellow (104R 6/6) 50% clay, 50% fine sand, trace silt - soft, wet, no product odor

HTC STD

DRAFT



LOG of EXPLORATORY BORING

PROJECT No. 438-61 DATE 2-27-85
 CLIENT GR Cherson
 LOCATION Alameda
 LOGGED BY ED DRILLER ANN

BORING No. C-2
 Sheet _____ of _____

Field location of boring:

Craig Mayfield
443 9300 † C-2 tanks

Drilling method 8" HS
 Hole dia. 8"

Casing installation data Boring cased to 15', bentonite 15'-14', 3" PVC SLOT 14'-4', BLANK TO SURFACE SAND TO 4', BENTONITE TO 3', CONCRETE TO SURFACE. CONSTRUCTION PER CRAIG MAYFIELD (ACFD)

Ground Elev. _____ Datum (15.2)

Water level				
Time				
Date				

Pocket Torr vane TSF	Pocket Penetrometer TSF	Blows/ft. or Pressure PSI	Type of Sample	Sample Number	Depth	Sample	Soil Group Symbol (U.S.C.S.)
					2		SP
					4		
					6		
					8		Sc
		<u>13/14/23</u>	<u>SP</u>		10		
			<u>25%</u>		12		
					14		
<u>2.5</u>	<u>4/5/7</u>		<u>SP</u>		16		Sc
			<u>80%</u>		18		
					20		
					22		
					24		

DESCRIPTION

CONCRETE & 2" GRAVEL BASE

FINE SAND - Brown (7.54R 9/2) 0-5% clay, 5% silt, 90-95% fine sand, trace fine gravel - med dense, damp, no prod odor

4.5' color change to brownish yellow (104R 6/6) slight increase clay content to 5-10%, no gravel

CLAYEY SAND - Grayish brown (104R 5/2), 5% silt, 15-20% clay, 75-80% fine sand - med dense, moist to wet, slight product odor (6'-7') - trace medium sand

CLAYEY SAND TO SANDY CLAY - Grayish brown (104R 5/2) 0-5% silt ~ 50% clay, ~ 50% fine sand - soft, wet, no product odor

HT: 510

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LOG OF EXPLORATORY BORING

upo = no product rdg

PROJECT No. 438-66 DATE 2/27/85
CLIENT GR Chevron
LOCATION Alameda
LOGGED BY GG DRILLER AAA

BORING No. C-3
Sheet _____
of _____

Field location of boring: C-3

Drilling method 8" HS Hole dia. 8"

Casing installation date HOLE CAVED TO 12'. PUSHED 3" PVC SLOT 14'-4', BLANK TO SURF. SAID TO 4', BENTONITE TO 3', CONCRETE TO SURFACE.

Ground Elev. _____

Datum _____

Pocket Torr vane TSF	Pocket Penetrometer TSF	Blows/ft. or Pressure PSI	Type of Sample	Sample Number	Depth	Sample	Soil Group Symbol (U.S.C.S.)	Water level				DESCRIPTION
								Time	Date			
												CONCRETE & 2" BERT
					2		SP					FINE SAND - Brown (7.5YR5/2), 0-5% clay, 5% silt 90-95% fine sand - red dense, damp
					4		CL					SANDY CLAY - Brownish yellow (10YR6/6), 15% silt, 30% fine sand, 60% clay - firm, moist to wet, upo
					6		SC/CL					CLAYEY SAND TO SANDY CLAY - Brownish yellow (10YR6/6) 10% silt, 45% fine sand, ~45% clay - firm, wet, upo
		10/14/11			10							STP 90%
		8/9/11			16							STP 90%
					13'-16 1/2'							Gray (2.5YR4/2), trace plant fragments - firm, wet, upo
					18							HT: SIO
					20							
					22							
					24							

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LOG OF EXPLORATORY BORING

WPA: no prod clear

PROJECT No. 438-64 DATE 2-27-85

CLIENT GR Chevron

LOCATION Alameda

LOGGED BY SQL DRILLER AAA

BORING No.

C-4

Sheet

of

Field location of boring:

tank

PARK

Drilling method 8" HD

Hole dia. 8"

Ground Elev.

STATION Datum

+C-4

Casing installation data HOLE CAVED TO 12'; PUSHED 3" SLOT 14'-4', BLANK TO SURFACE, SAND TO 4', BENTONITE TO 3', CONCRETE TO SURFACE.

Pocket Torvane TSF	Pocket Penetrometer TSF	Blows/ft. or Pressure PSI	Type of Sample	Sample Number	Depth	Sample	Soil Group Symbol (U.S.C.S.)	DESCRIPTION
					1		SP	CONCRETE 2" 45KX
					2		SP	FINE SAND - Brown (7.54R5/2) 0-5% clay, 5% silt, 90-95% fine sand - medium dense, damp, n.p.
					4		SM	SILTY SAND - Gray (2.54R4/0) 5% clay, 10% silt, 85% fine sand - medium dense, moist to wet, no product clear
					6			
					8			
					10		SP	FINE SAND - Yellowish Brown (104R5/4) 0-3% clay, 5% silt, 92-95% fine sand - loose, wet, n.p.
		10/13/16	STA	80%	12		SM	SILTY SAND - Gray (2.54R4/0) 5% clay, 15% silt, 80% fine sand - loose, wet, n.p.
					14			
					16			
		4/5/7	STA	96%	18			
					20			
								HT: SIO

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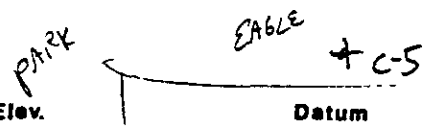
LOG OF EXPLORATORY BORING

u_{po} = no product oil or

PROJECT No. 438-66 DATE 2-27-85
 CLIENT GR Chevron
 LOCATION Alameda
 LOGGED BY RC1 DRILLER AAA

BORING No. C-5
 Sheet
 of

Field location of boring:



Ground Elev. Datum

Drilling method 8" HS
 Hole dia. 8"

Casing installation data HOLE CAVED TO 14'
3" PVC SLOT 14'-4', BLANK TO SURF, SAW
TO 4', BENTONITE TO 3', CONCRETE TO SURFACE

Pocket Torr Vane TSF	Pocket Penetrometer TSF	Blows/ft. or Pressure PSI	Type of Sample	Sample Number	Depth	Sample	Soil Group Symbol (U.S.C.S.)
					2		
					4		
					6		
					8		
		10/15/23	SP 80%		10		
					12		
					14		
		7/7/9	SP 90%		16		
					18		
					20		

Water level	Time	Date

DESCRIPTION

Asphalt

FINE SAND - Brown (7.54R5/2), 0-5% clay, 5% silt, 90-95% fine sand - loose, damp, u_{po}

3.5' : Color change to yellowish brown (10UR 5/4) 5% clay binder, 5% silt - moist to wet @ ~ 6 1/2'

8' : Drilling becomes slightly slower - sand becomes med dense to dense - u_{po}

CLAY SAND - Gray (2.54R4/0), 10% silt, 30-35% clay, 55-60% fine sand w/ rentholes & Fe oxide nodules - dense, moist, u_{po}

HT: SP0

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