Chevron

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93 AUG -4 PM 12:57

July 30, 1993

Chevron U.S.A. Products Company
2410 Camino Ramon
San Ramon, CA 94583

Marketing Department
Phone 510 842 9500

Ms. Susan Hugo
Alameda County Health Care Services
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Re: Chevron Service Station #9-1583
5509 Martin Luther King Junior Way, Oakland, CA

Dear Ms. Hugo:

We have received your letter dated June 24, 1993, regarding conditional approval of the Groundwater Technology Inc. (GTI) work plan of June 7, 1993, for the above referenced site. Your letter also requests additional information regarding the environmental work which has occurred at this site. I would like to address your questions in the order presented in your letter.

1) Free product was removed from ground water monitor well MW-3 on a weekly basis from November 11, 1992 to January 5, 1993. Approximately 270 ml of separate-phase hydrocarbons was recovered during this time period. Weekly bailing activities were suspended when free product was no longer observed in this well. Bailing activities will begin again if free product is observed in this well at future sampling events. This information was previously communicated to your office in Chevron's cover letter dated April 9, 1993, to GTI's quarterly monitoring report of February 26, 1993.

2) During the replacement of product piping in December of 1989, six soil samples designated A-F were collected from beneath the piping. Only sample B, collected at three feet below grade, showed evidence of hydrocarbon impact. Limited overexcavation of approximately 25 cubic yards of hydrocarbon impacted soil was conducted in this area. It appears that another sample designated SS-1 was collected at the bottom of this excavation just above ground water. Laboratory analysis indicated that hydrocarbons had impacted the soils at this depth. This indicates that hydrocarbons most likely impacted ground water in this area. Please refer to the enclosed EA Engineering facsimile cover sheet dated December 18, 1989, and supporting analytical data for documentation of this information.

3) Monitor wells MW-1, MW-2, and MW-3 were installed in December of 1983. Installation of these wells is documented in the enclosed report prepared by Gettler-Ryan, Inc. dated January 5, 1993.

4) Your office has requested that soil borings and/or monitor wells be installed within 10 feet down-gradient of the fuel pump islands be included in the proposed site assessment work. Although the Tri-Regional Board Staff Recommendations for Preliminary Investigation and Evaluation of Underground Tank Sites recommends installing a monitor well within 10 feet of the suspected source area, we feel there is sufficient justification to take an alternate approach.

Installing permanent wells near the fuel pump islands would provide data which is

redundant to information gathered during the limited overexcavation work. Recall that the soil sample collected just above ground water contained hydrocarbons, indicating that the ground water had been impacted in this area. To further define impacts to ground water, the GTI work plan proposes installing two monitor wells along the property boundary in the presumed down gradient location of both former tank areas. The well locations as proposed will provide new information regarding the extent of hydrocarbon impact to ground water.

I would, however, propose that the northernmost well location be moved approximately 10 to 20 feet to the east along the property boundary. This will ensure that any hydrocarbons migrating in ground water from the pump island area are adequately assessed.

I believe that most of the conditions for approval of the GTI work plan outlined in your letter are either currently incorporated into GTI's Standard Operating Procedures (SOP's) or are being done on a regular basis. If your office has any specific requests you feel are not addressed in the work plan, please feel free to contact me regarding those concerns.

You have also asked for a time schedule for all phases of the investigation and remediation activities. It would be premature at this time to propose such a time schedule as the data collected on the site is limited. Once a full assessment of the site has been completed and hydrocarbon impacts have been adequately defined, it would then be feasible to generate a time schedule.

Chevron and GTI look forward to hearing from your office in the near future and are ready to move forward with the additional assessment work following your review and formal concurrence.

If you have any questions or comments, please do not hesitate to call me at (510) 842-8134.

Sincerely,
CHEVRON U.S.A. PRODUCTS COMPANY

Mark A. Miller
Site Assessment and Remediation Engineer

Enclosures

cc: Mr. Rich Hiett, RWQCB - Bay Area
Mr. M.R. Purcell
File (9-1583 LTR1)

10/18/89

FACSIMILE MESSAGE

EA Engineering, Science, and Technology, Inc.
Western Regional Operations
41 Lafayette Circle
Lafayette • California • 94549
(415) 283-7077 (tel)
(415) 283-3894 (fax)

PLEASE DELIVER TO:

Name: Cynthia Wong

Company: Chevron USA Inc.

Phone: (___) *Fax:* (415) 842-9591

Subject: Analytical results for Soil Sample collected at Chevron SS 9-1583

If you do not receive all pages clearly, call: TR Winsor

at: 283-7077 *as soon as possible.*

SENT BY:

Name: Terry R. Winsor

Number of Pages Including Transmittal Sheet: 4

Date: 18 Dec 1989 *Time:* _____ *Project Code:* _____

Brief Message:

Cynthia,

Attached is a copy of the faxed results that I just now received.

Do you have a release # that I can track this thru with — one for EA + one for Supervisor?

Has this been referred to your environmental group yet? EA will be of any further assistance if so desired. Let me know.

SUPERIOR ANALYTICAL LABORATORY, INC.
1385 FAIRFAX ST., STE. D. • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS
Diesel by Modified EPA SW-846 Method 8015
Gasoline by Purge and Trap: EPA MEthod 8015/5030
ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES
by EPA SW-846 Methods 5030 and 8020

QA/QC INFORMATION
SET: 80360

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT

ug/L = part per billion (ppb)

OIL AND GREASE ANALYSIS By Standard Methods Method 503E:
Duplicate RPD NA
Minimum Detection Limit in Soil: 20mg/kg

Modified EPA Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Soil: 10mg/kg
Daily Standard run at 200mg/L; RPD Diesel = NA
MS/MSD Average Recovery = NA: Duplicate RPD = NA

8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg
Daily Standard run at 2mg/L; RPD Gasoline = 10%
MS/MSD Average Recovery = 95%: Duplicate RPD = 3%

8020/BTXE
Minimum Quantitation Limit in Soil: 0.05mg/kg
Daily Standard run at 20ug/L; RPD = <15%
MS/MSD Average Recovery = 94%: Duplicate RPD = <13%

Richard Srna, Ph.D.
Laboratory Manager

SUPERIOR ANALYTICAL LABORATORY, INC.
1385 FAIRFAX ST., STE. D. • SAN FRANCISCO, CA 94124 • PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80360
CLIENT: EA Engineering Science Technol
CLIENT JOB NO.: NO NAME

DATE RECEIVED: 12/15/89
DATE REPORTED: 12/18/89

Lab Number	Customer Sample Identification	Date Sampled	Date Analyzed
80360- 1	SS-1	12/15/89	12/18/89
80360- 2	GW-1	12/15/89	NA

Laboratory Number:	80360 1	80360 2
ANALYTE LIST	Amounts/Quantitation Limits (mg/kg)	
OIL AND GREASE:	NA	NA
TPH/GASOLINE RANGE:	670	NA
TPH/DIESEL RANGE:	NA	NA
BENZENE:	0.70	NA
TOLUENE:	1.2	NA
ETHYL BENZENE:	0.96	NA
XYLENES:	1.5	NA

gettler — ryan inc.
general contractors

January 5, 1984

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

Reference: Service Station 1583
5509 Grove Street & 55th
Oakland, California

Gentlemen:

Enclosed are our reports covering installation of observation wells for the referenced location. Five wells were drilled using a Failing 6" continous flight auger to the depth indicated on the boring logs. All wells were installed per your "Typical Well Profile" dated February 1, 1983.

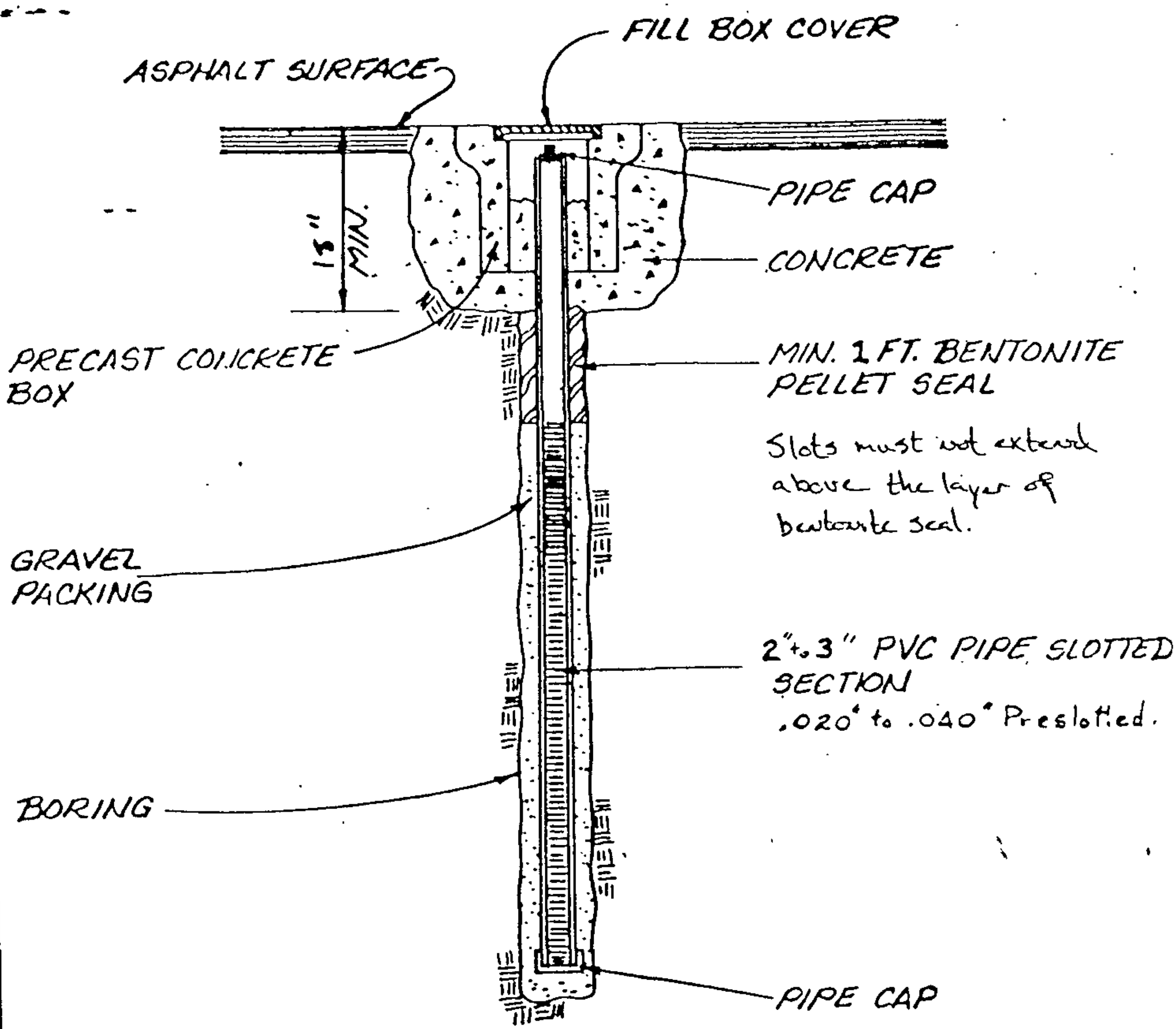
Please contact us if any further information is required.

Very truly yours,

Jeffrey M. Ryan

jmr/ml

Attachments: Plot Plan
Well Section
Soil Boring Logs
Observation Well Daily Reports
Well Elevation Survey



DEPTH OF HOLE: 20'

TOTAL NUMBER OF HOLES REQUIRED: 3

REV

PLANS & SPECIFICATIONS TYPICAL WELL PROFILE

2/1/83

DR RB CH.
DR APP.
ENGR.
OPR'G. DEPT. APPROV
ENG'R. DEPT.

SCALE NONE DATE

W.O.
S.O.

Gettler - Ryan Inc. GENERAL CONTRACTORS

WELL BORING LOG

COMPANY: CHEVRON U.S.A. #1583 JOB NO: OR-5111

LOCATION: 5509 GROVE St. DATE: 12-22-83

CITY: OAKLAND WELL #: 1

DEPTH	SAMPLE NO.	SOIL DESCRIPTION
0 ft.		
3"		A.C. PAVING
8"		BASEROCK
2'		DARK BROWN CLAY & FILLS
8'		BROWN CLAY - DAMP
9'		DARK BROWN CLAY - DAMP
12'		OLIVE GREEN SILTY CLAY - MOIST
17'		BROWN SILTY CLAY - WET
21'		DARK GRAY CLAY - BAY MUD - WET

FOREMAN: DAVID BURDN SHEET: 1 OF 1

Gettler - Ryan Inc. GENERAL CONTRACTORS

WELL BORING LOG

COMPANY: CHEVRON U.S.A. #1583 JOB NO: OR - 5111

LOCATION: 5509 GROVE ST. DATE: 12·22·83

CITY: OAKLAND WELL #: 2

DEPTH	SAMPLE NO.	SOIL DESCRIPTION
0 ft.		
3"		A.C. PAVING
1'		BASEROCK
2½'		DARK BROWN CLAY & FILLS
7'		BROWN CLAY - DAMP
8'		DARK BROWN CLAY - DAMP
13'		OLIVE GREEN SILTY CLAY - MOIST
16'		BROWN SILTY CLAY - WET
21'		DARK GRAY CLAY - BAY MUD - WET

FOREMAN: DAVID RIGGS SHEET 1 OF 1

Gettler - Ryan Inc. GENERAL CONTRACTORS

WELL BORING LOG

COMPANY: CHEVRON U.S.A. #1583 JOB NO: OR - 5111

LOCATION: 5509 GROVE ST. DATE: 12-22-83

CITY: OAKLAND WELL #: 3

DEPTH	SAMPLE NO.	SOIL DESCRIPTION
0 ft.		
3"		A.C. PAVING
8"		BASEROCK
2'		DARK BROWN CLAY & FILLS
10'		BROWN CLAY - DAMP
11'		DARK BROWN CLAY - STIFF
14'		OLIVE GREEN SILTY CLAY - MOIST
18'		BROWN SILTY CLAY - WET
21'		DARK GRAY CLAY - BAY MUD - WET

FOREMAN: DAVID BYRON SHEET: 1 OF 1