Chevron

Chevron Products Company
6001 Bollinger Canyon Road
Building L
San Ramon, CA 94583
P.O. Box 6004
San Ramon, CA 94583-0904

Marketing – Sales West
Phone 510 842-9500

March 12, 1997

Ms. Susan Hugo
Alameda County Health Care Services
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Former Chevron Service Station #9-3864
5101 Telegraph Avenue, Oakland, CA

Dear Ms. Hugo:

I am enclosing a copy of the Well Abandonment Report that was prepared by our consultant Gettler-Ryan Inc. for this site. This report covers the abandonment of one 2-inch groundwater monitoring well located on this site, on February 21, 1997.

The monitoring well C-2 was abandoned under Zone 7 Water Agency requirements, which included over drilling the well and placing neat cement from the bottom to the top of the boring. The drill cuttings generated, were sampled for disposal characterization and upon receiving the lab results, the soil stockpile was transported to BFI landfill in Livermore.

If you have any questions or comments to this report, call me at (510) 842-9136.

Sincerely,
CHEVRON PRODUCTS COMPANY

Philip R. Briggs
Site Assessment and Remediation Project Manger

Enclosure

cc. Mr. Bette Owen, Chevron

Dr. Ravi Arulanantham
RWQCB-San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

Mr. Kevin Graves
RWQCB-San Francisco Bay Region
2101 Webster Street, Suite 500
Oakland, CA 94612

Mr. Howard Schindler
Schindler Associates
4179 Piedmont Avenue
Oakland, CA 94611

Mr. Greg Gurss
Gettler-Ryan
3164 Gold Camp Drive, Suite 240
Rancho Cordova, CA 95670 (Less report)

GETTLER-RYAN INC.

March 7, 1997

Mr. Phil Briggs
Chevron Products Company
P. O. Box 6004
San Ramon, California 94583

Subject: **Well Abandonment at Former Chervon Service Station #9-3864, 5101 Telegraph Avenue, Oakland, California.**

Mr. Briggs:

At the request of Chevron Products Company, Gettler-Ryan Inc. (G-R) abandoned one 2-inch groundwater monitoring well (C-2) at the above referenced site on February 21, 1997. The activities described in this report were performed in accordance with the California Department of Water Resources' *California Well Standards* (Bulletins 74-81 and 74-90) and Alameda County Health Care Services Agency (ACHCSA) and Zone 7 Water Agency (Zone 7) guidelines. The location of the abandoned well is shown on the Site Plan (Figure 1).

Well C-2 were abandoned due to proposed site development. Field work was performed in accordance with the G-R Site Safety Plan dated December 20, 1996. The well was abandoned under Zone 7 permit number 96893, dated December 19, 1996 (attached). Well abandonment activities were performed by Bay Area Exploration, Inc. (C57-522125). Prior to abandonment, total depth and depth to water in well C-2 was measured and recorded. The well was 30.0 feet deep and depth to water in the well was 13.32 feet. The well was drilled out with 8-inch diameter hollow-stem augers to approximately 30.5 feet below ground surface (bgs) to remove the casing, sandpack and annular seal material. Upon completion of drilling, a tremie pipe was used to place neat cement in the boring from the total depth to the ground surface.

Drill cuttings generated during well abandonment activities were stockpiled onsite, placed on and covered with plastic sheeting. The stockpiled soil was sampled for disposal characterization after completion of well abandonment on February 21, 1997. Four soil samples were collected from arbitrary locations on the stockpile (G-R sampling procedures attached) and delivered under chain-of-custody to Sequoia Analytical (ELAP #1210) for compositing and analysis. The composite stockpile sample was analyzed for total petroleum hydrocarbons as gasoline (TPHg), and benzene, toluene, ethylbenzene and xylenes (BTEX) by Environmental Protection Agency (EPA) Method 8020. Copies of the laboratory analytical report and chain-of-custody record are attached. On February 28, 1997, the soil stockpile was removed from the site and transported to BFI Landfill in Livermore by Integrated Wastestream Management Inc.

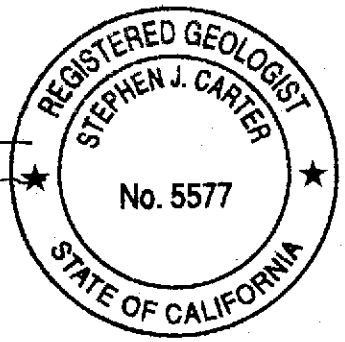
6747 Sierra Court, Suite J • Dublin, California 94568 • (510) 551-7555

If you have questions, please call us at (510) 551-7555.

Sincerely
Gettler-Ryan Inc.

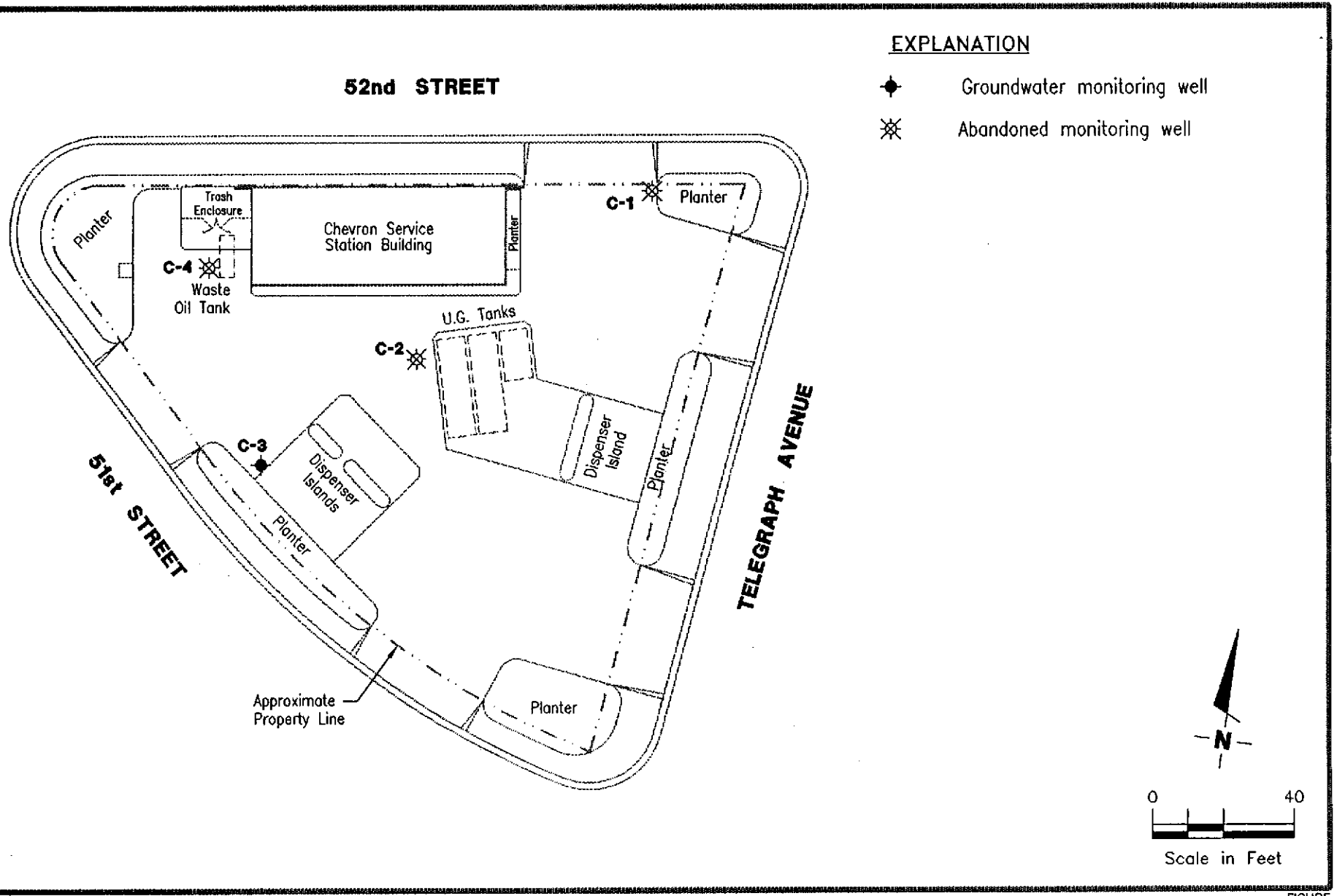
Barbara Sieminski
Project Geologist

Stephen J. Carter
Senior Geologist
R.G. 5577



Attachments: Figure 1. Site Plan
Well Abandonment Permit
Field Methods and Procedures
Laboratory Analytical Report and Chain-of-Custody Record

ATTACHMENTS



Gettler - Ryan Inc.
6747 Sierra Ct., Suite J
Dublin, CA 94568
(510) 551-7555

SITE PLAN
Chevron Service Station #3864
5101 Telegraph Avenue
Oakland, California

FIGURE
1

JOB NUMBER	REVIEWED BY	DATE	REVISED DATE
6358.01		3/97	

ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588 VOICE (510) 484-2600 FAX (510) 462-3914

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

LOCATION OF PROJECT Chevron Service Station #3164
5101 Telegraph Ave
Oakland CA

CLIENT
Name Chevron Products Co.
Address P.O. Box 5004 Voice (510) 842-9136
City San Ramon Zip 94583

APPLICANT
Name Gettler - Ryan
Fax (916) 631-1317
Address 3164 Gold Camp Dr., #200 Voice (916) 631-1300
City Rancho Cordova Zip 95670

TYPE OF PROJECT
Well Construction
Cathodic Protection ___
Water Supply ___
Monitoring ___
Geotechnical Investigation
General ___
Contamination ___
Well Destruction X

PROPOSED WATER SUPPLY WELL USE
Domestic ___ Industrial ___ Other ___
Municipal ___ Irrigation ___

DRILLING METHOD:
Mud Rotary ___ Air Rotary ___ Auger X
Cable ___ Other ___

DRILLER'S LICENSE NO. C57 522125

WELL PROJECTS
Drill Hole Diameter 8 in. Maximum
Casing Diameter 2 in. Depth 35 ft.
Surface Seal Depth ___ ft. Number 2

GEOTECHNICAL PROJECTS
Number of Borings ___ Maximum
Hole Diameter ___ in. Depth ___ ft.

ESTIMATED STARTING DATE 12/20/96
ESTIMATED COMPLETION DATE 12/20/96

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE [signature] Date 12-12-96

FOR OFFICE USE

PERMIT NUMBER 96893
LOCATION NUMBER 1S/4W 13N80 and 13N81

PERMIT CONDITIONS

Circled Permit Requirements Apply

(A.) GENERAL
1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

B. WATER WELLS, INCLUDING PIEZOMETERS
1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

D. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

(E.) WELL DESTRUCTION. See attached.

Approved [signature] Wyman Hong Date 19 Dec 96

91992

20 December 1996

ZONE 7
WATER RESOURCES ENGINEERING
DRILLING ORDINANCE

CHEVRON PRODUCTS COMPANY
5101 TELEGRAPH AVENUE
OAKLAND
WELLS 1S/4W 13N80 AND 13N81
PERMIT 96893

Destruction Requirements:

1. Drill out the well so that the casing, seal, and gravel pack are removed to the bottom of the well.

2. Sound the well as deeply as practicable and record for your report.

3. Using a tremie pipe, fill the hole to 2 feet below the lower of finished grade or original ground with neat cement.

4. After the seal has set, backfill the remaining hole with compacted material.

These destruction requirements as proposed by Todd Del Frate Gattler-Ryan meet or exceed the Zone 7 minimum requirements.

G-R FIELD METHODS AND PROCEDURES

Site Safety Plan

Field work performed by Gettler-Ryan Inc. (G-R) is conducted in accordance with G-R's Health and Safety Plan and the Site Safety Plan. G-R personnel and subcontractors who perform work at the site are briefed on these plans contents prior to initiating site work. The G-R geologist or engineer at the site when the work is performed acts as the Site Safety Officer. G-R utilizes a photoionization detector (PID) to monitor ambient conditions as part of the Health and Safety Plan.

Stockpile Sampling

Stockpile samples consist of four individual sample liners collected from each 100 cubic yards (yd^3) of stockpiled soil material. Four arbitrary points on the stockpiled material are chosen, and discrete soil sample is collected at each of these points. Each discrete stockpile sample is collected by removing the upper 3 to 6 inches of soil, and then driving the stainless steel or brass tube into the stockpiled material with a wooden mallet or hand driven soil sampling device. The sample tubes are then covered on both ends with teflon sheeting or aluminum foil, capped, labeled, placed in the cooler with blue ice for preservation. A chain-of-custody form is initiated in the field and accompanies the selected soil samples to the analytical laboratory. Stockpiled soils are covered with plastic sheeting after completion of sampling.

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Gettler Ryan/Geostrategies	Client Proj. ID: Chevron 9-3864, Oakland	Sampled: 02/21/97
6747 Sierra Court Suite G	Sample Descript: SP1-A,B,C,D Comp	Received: 02/24/97
Dublin, CA 94568	Matrix: SOLID	Extracted: 02/25/97
	Analysis Method: 8015Mod/8020	Analyzed: 02/26/97
Attention: Barbara Sieminski	Lab Number: 9702B98-01	Reported: 02/26/97

QC Batch Number: GC022497BTEXEXA
Instrument ID: GCHP07

Total Purgeable Petroleum Hydrocarbons (TPPH) with BTEX

Analyte	Detection Limit mg/Kg	Sample Results mg/Kg
TPPH as Gas	**10**	**57**
Benzene	0.050	N.D.
Toluene	0.050	N.D.
Ethyl Benzene	**0.050**	**0.17**
Xylenes (Total)	**0.050**	**0.21**
Chromatogram Pattern:		**Gas**

Surrogates	Control Limits %		% Recovery
Trifluorotoluene	70	130	111
4-Bromofluorobenzene	60	140	- Q

Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL - ELAP #1210

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Gettler Ryan/Geostrategies
6747 Sierra Court Suite G
Dublin, CA 94568
Attention: Barbara Sieminski

Client Proj. ID: Chevron 9-3864, Oakland
Lab Proj. ID: 9702B98

Received: 02/24/97
Reported: 02/26/97

LABORATORY NARRATIVE

In order to properly interpret this report, it must be reproduced in its entirety. This report contains a total of 4 pages including the laboratory narrative, sample results, quality control, and related documents as required (cover page, COC, raw data, etc.).

Q - Surrogate diluted out.

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

Sequoia Analytical

680 Chesapeake Drive, Redwood City, CA 94063, (415) 364-9600, FAX (415) 364-9233
404 N. Wiget Lane, Walnut Creek, CA 94598, (510) 988-9600, FAX (510) 988-9673
819 Striker Avenue, Suite 8, Sacramento, CA 95834, (916) 921-9600, FAX (916) 921-0100

Gettler Ryan/Geostrategies
6747 Sierra Court, Ste J
Dublin, CA 94568
Attention: Barbara Sieminski

Client Project ID: Chevron 9-3864, Oakland
Matrix: Solid
Work Order #: 9702B98 01

Reported: Feb 27, 1997

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl Benzene	Xylenes
QC Batch#:	GC022497BTEXEXA	GC022497BTEXEXA	GC022497BTEXEXA	GC022497BTEXEXA
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	EPA 5030	EPA 5030	EPA 5030	EPA 5030
Analyst:	A. Porter	A. Porter	A. Porter	A. Porter
MS/MSD #:	9702A5312	9702A5312	9702A5312	9702A5312
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	2/24/97	2/24/97	2/24/97	2/24/97
Analyzed Date:	2/24/97	2/24/97	2/24/97	2/24/97
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
Result:	0.17	0.18	0.18	0.55
MS % Recovery:	85	90	90	92
Dup. Result:	0.18	0.19	0.19	0.58
MSD % Recov.:	90	95	95	97
RPD:	5.7	5.4	5.4	5.3
RPD Limit:	0-25	0-25	0-25	0-25

LCS #:	BLK022597BSA	BLK022597BSA	LK022597BSA	BLK022597BSA
Prepared Date:	2/25/97	2/25/97	2/25/97	2/25/97
Analyzed Date:	2/25/97	2/25/97	2/25/97	2/25/97
Instrument I.D.#:	GCHP7	GCHP7	GCHP7	GCHP7
Conc. Spiked:	0.20 mg/Kg	0.20 mg/Kg	0.20 mg/Kg	0.60 mg/Kg
LCS Result:	0.18	0.18	0.18	0.55
LCS % Recov.:	90	90	90	92

MS/MSD	60-140	60-140	60-140	60-140
LCS	70-130	70-130	70-130	70-130
Control Limits				

Please Note:
The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

SEQUOIA ANALYTICAL

Mike Gregory
Project Manager

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference

Fax copy of Lab Report and COC to Chevron Contact: ☑ No

Chain-of-Custody-Recor

Chevron U.S.A. Inc.
P.O. BOX 5004
San Ramon, CA 94583
FAX (415)842-9591

Chevron Facility Number 9-3864
Facility Address 5101 Telegraph Avenue, Oakland
Consultant Project Number 6358.01
Consultant Name Gettler-Ryan
Address 6747 Sierra Ct, Ste J, Dublin 94568
Project Contact (Name) Barbara Sieminski
(Phone) 510 551-7555 (Fax Number) 510 551-7888

Chevron Contact (Name) Phil Briggs
(Phone) (510) 842-9136
Laboratory Name Sequoia
Laboratory Release Number 9034826 ; ZZ02800
Samples Collected by (Name) Barbara Sieminski
Collection Date 02/21/97
Signature B Sieminski

Sample Number	Lab Sample Number	Number of Containers	Matrix S = Soil A = Air W = Water C = Charcoal	Type G = Grab C = Composite D = Discrete	Time	Sample Preservation	Iced (Yes or No)	Analyses To Be Performed: TPH Gas + BTEX (8015) (8020)	TPH Diesel (8015)	Oil and Grease (5520)	Purgeable Halocarbons (8010)	Purgeable Aromatics (8020)	Purgeable Organics (8240)	Extractable Organics (8270)	Metals Cd,Cr,Pb,Zn,Ni (ICAP or AA)	DO NOT BILL TB-LB ANALYSI
SP1-A	1	1	S	G	12:20		Yes	X								97028398
SP1-B	1	1	↓	↓	12:22		↓	X								Fax results to IWM (Att. Steve Shimak (408) 942-1495
SP1-C	1	1	↓	↓	12:24		↓	X								
SP1-D	1	1	↓	↓	12:26		↓	X								

Remarks

Relinquished By (Signature)	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
Barbara Sieminski	G-R	02/24/97 9:37		Sequoia	2/24/97 9:37
	Organization	Date/Time	Received By (Signature)	Organization	Date/Time
		2/24/97			
Relinquished By (Signature)	Organization	Date/Time	Received For Laboratory By (Signature)		Date/Time
			LaCandeas		2-24-97 1255

Turn Around Time (Circle Choice)
24 Hrs.
48 Hrs.
5 Days
10 Days
As Contracted

COC-3.DWG/03 01/HCH