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**GROUNDWATER SAMPLING REPORT  
NOVEMBER 1994  
Pacific Bell Facility  
2610 Norbridge Avenue  
Castro Valley, California**

Prepared For:

Pacific Bell  
2600 Camino Ramon  
San Ramon, California

Prepared By:

IT CORPORATION  
2055 Junction Avenue  
San Jose, California

Project Number 151933

DECEMBER 1994



**INTERNATIONAL  
TECHNOLOGY  
CORPORATION**

December 12, 1994

IT Project No. 151933

Ms. Rose Cassens  
Pacific Bell  
2600 Camino Ramon, Room 3E400Q  
San Ramon, California 94583

**Subject: GROUNDWATER SAMPLING-NOVEMBER 1994**  
**Pacific Bell Facility**  
**2610 Norbridge Avenue**  
**Castro Valley, California**

Dear Ms. Cassens:

IT Corporation (IT) has prepared this report to present the results of groundwater sample collection and analysis at the above referenced site (Figures 1 and 2). Groundwater sampling was performed by IT on November 17, 1994. Data collected at the site is summarized on the attached Table 1.

## **BACKGROUND**

The site is a Pacific Bell equipment storage and maintenance yard (Figure 2). One 10,000 gallon fiberglass unleaded gasoline UST was used at the site primarily to supply fuel for Pacific Bell vehicles.

On May 4, 1993, Balch Petroleum, a Pacific Bell contractor, removed the UST. The removal was observed by Pacific Bell, IT, the Eden Consolidated Fire Protection District (ECFPD, Inspector Tony Rocha), and the Alameda County Department of Environmental Health (ACDEH, Mr. Amir Gholami). This fiberglass UST was replaced with a 10,000 gallon double-wall glasteel tank manufactured by Modern Welding (Fresno, California).

IT collected and analyzed three soil samples (SOIL-1, SOIL-2, and SOIL-3) from the original excavation sidewalls, approximately 6 feet below ground surface (BGS). The southern sidewall sample (SOIL-3) contained 12 parts per million (ppm) total petroleum hydrocarbons as gasoline (TPH-G). Benzene, toluene, ethyl benzene, and xylenes (BTEX) were not detected (ND) in any of the samples.

A second round of over-excavation was initiated to remove hydrocarbon impacted soil adjacent to the southwest corner of the excavation. Three verification samples (SOIL-8, SOIL-9, and SOIL-10) were collected from this over-excavated area. A groundwater grab sample

Regional Office

2055 Junction Avenue • San Jose, California 95131-2105 • 408-894-1200 • FAX: 408-894-0701

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GRABWATER-1 was collected from standing water within the excavation following the tank removal. This sample contained 7,900 parts per billion (ppb) TPH-G and BTEX concentrations up to 110 ppb ethyl benzene and total xylenes (IT Corporation, 1993). Additional field investigation was conducted between February 2 and 15, 1994, and involved the drilling and sampling of four borings (SB-1, SB-2, SB-3, and MW-1) with subsequent construction of a monitoring well (MW-1) within one of the borings. A groundwater sample was collected from the completed well. Laboratory analysis did not detect TPH-G/BTEX in the soil and groundwater samples.

### SCOPE OF WORK

On November 17, 1994, the depth to water was measured from the top of the well casing with an electronic meter. A depth of 4.95 feet was recorded. Afterward, three well casing volumes were purged from the well with a disposable bailer. Temperature, conductivity, and pH parameters were measured and recorded on a field log. Once the well recovered to at least 80% of its initial level, a groundwater sample was collected and poured into laboratory supplied sample containers and stored in a pre-chilled ice chest. The sample was shipped, under chain of custody protocol, to Columbia Analytical Services, Inc. of San Jose, California, a State-certified hazardous waste laboratory. The sample was analyzed for total petroleum hydrocarbons as gasoline (TPH-G) and benzene, toluene, ethyl benzene, and xylenes (BTEX) using modified EPA Methods 8015 and 8020 in series. The water from the well redevelopment and sampling is currently stored onsite in 55 gallon drums pending disposal.

### RESULTS

Laboratory analyses reported that the sample was non-detect (ND) for all target analytes. The detection limits were 50  $\mu\text{g}/\text{l}$  (parts per billion, ppb) for TPH-G, and 0.5 ppb for benzene, toluene, ethyl benzene and total xylenes.

### CONCLUSIONS

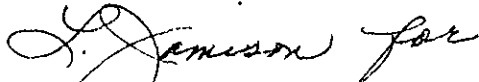
Field and analytical data from the November 17, 1994, quarterly groundwater sampling and analysis at the site indicate the following:

- Shallow groundwater is present at a depth of approximately 4.95 feet below the ground surface.
- No detectable concentrations of TPH-G or BTEX were present in the groundwater sample from the monitoring well.

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If you have any questions please call us at (408) 894-1200.

Respectfully submitted,  
IT CORPORATION



Michael D. Miller, R.G., R.E.A.  
Project Manager



Jesus M. Mata  
Engineering Technician

cc: Irene Soto, Pacific Bell  
Scott Seery, Alameda County Health Agency

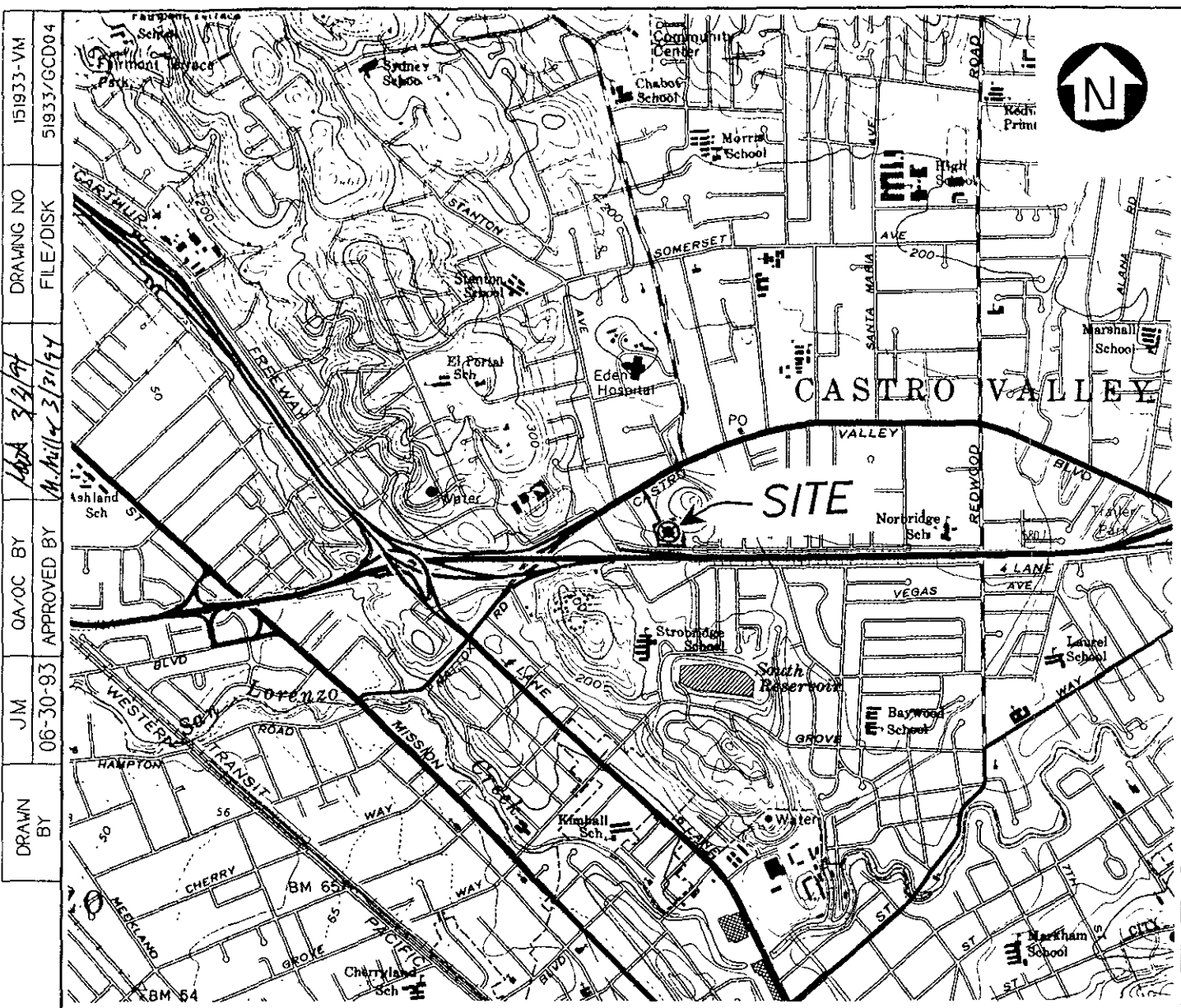
Attachments:

- 1) Table 1: Groundwater Sample Collection Data
- 2) Figure 1: Site Vicinity Map
- 3) Figure 2: Site Map
- 4) Laboratory Report

**TABLE 1**  
**GROUNDWATER SAMPLE COLLECTION DATA**  
**PACIFIC BELL FACILITY**  
**INDUSTRIAL DRIVE, FREMONT, CALIFORNIA**

Sample I.D.	MW-1(11-94)
Date Sampled	11/17/94
TPH-G	ND < 50 ppb*
Benzene	ND < 0.5 ppb
Toluene	ND < 0.5 ppb
Ethyl benzene	ND < 0.5 ppb
Xylenes	ND < 0.5 ppb
Depth to Water	4.95 feet
Total Depth	15.45 feet
Well Diameter	4 inch
Casing Volume	7.03 gallon
Volume Purged	21.10 gallons
Purged Dry	No
Purging Device	Disposable Teflon Bailer
Sampling Device	Disposable Teflon Bailer
Laboratory	Columbia Analytical Services

\* Laboratory results reported in  $\mu\text{g/l}$  (parts per billion-ppb)



DRAWING NO 151933-VM  
 FILE/DISK 51933/GCD04  
 QA/QC BY *Adya 3/2/94*  
 APPROVED BY *M. Miller 3/21/94*  
 JM  
 06-30-93  
 DRAWN BY

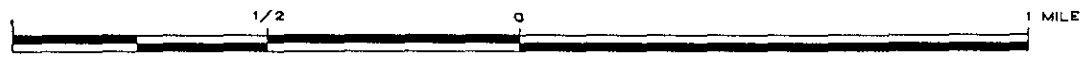


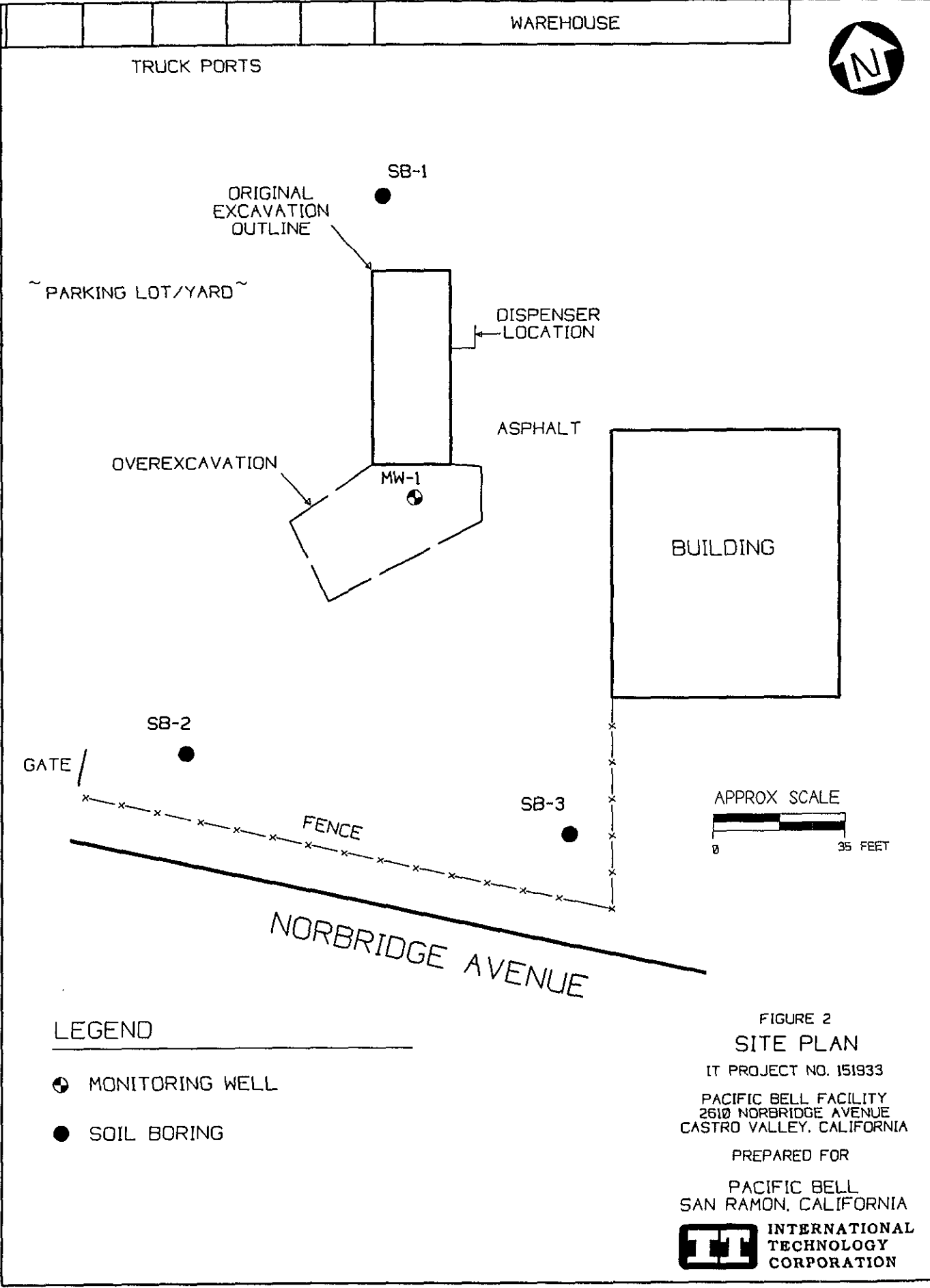
FIGURE 1  
 VICINITY MAP

IT PROJECT NO. 151933  
 PACIFIC BELL FACILITY  
 2610 NORBRIDGE AVENUE  
 CASTRO VALLEY, CALIFORNIA

NOTES:  
 HAYWARD QUADRANGLE 7.5 MINUTE  
 SERIES (TOPOGRAPHICS).  
 MAPPED, EDITED AND PUBLISHED BY THE  
 U.S. GEOLOGICAL SURVEY.  
 PHOTOREVISED 1980.

PREPARED FOR  
 PACIFIC BELL  
 SAN RAMON, CALIFORNIA  
**IT** INTERNATIONAL  
 TECHNOLOGY  
 CORPORATION

151933-SPA	151933/GCDD04
DRAWING NO	FILE/DISK
<i>10/14 3/31/94</i>	<i>M. Miller 3-31-94</i>
QA/QC BY	APPROVED BY
JM	06-30-93
DRAWN BY	



**LEGEND**

- ⊕ MONITORING WELL
- SOIL BORING

FIGURE 2  
**SITE PLAN**  
 IT PROJECT NO. 151933  
 PACIFIC BELL FACILITY  
 2610 NORBRIDGE AVENUE  
 CASTRO VALLEY, CALIFORNIA  
 PREPARED FOR  
 PACIFIC BELL  
 SAN RAMON, CALIFORNIA  
**IT** INTERNATIONAL  
 TECHNOLOGY  
 CORPORATION



December 7, 1994

Service Request No: S941479

Mr. Mike Miller  
IT Corporation  
2055 Junction Ave  
San Jose, CA 95131

Re: **Pacific Bell / 151933**

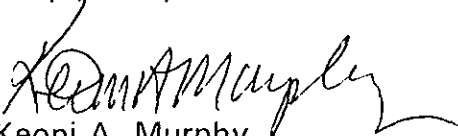
Dear Mr. Miller:

Attached are the results of the water sample submitted to our lab on November 17, 1994. For your reference, these analyses have been assigned our service request number S941479.

All analyses were performed consistent with our laboratory's quality assurance program. All results are intended to be considered in their entirety, and CAS is not responsible for use of less than the complete report. Results apply only to the samples analyzed.

Please call if you have any questions.

Respectfully submitted:

  
Keoni A. Murphy  
COLUMBIA ANALYTICAL SERVICES, INC.

KAM/ajb



# COLUMBIA ANALYTICAL SERVICES, Inc.

## Acronyms

ASTM	American Society for Testing and Materials
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MRL	Method Reporting Limit
NA	Not Applicable
NAN	Not Analyzed
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected at or above the MRL
NR	Not Requested
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
VPH	Volatile Petroleum Hydrocarbons

COLUMBIA ANALYTICAL SERVICES, INC.

Analytical Report

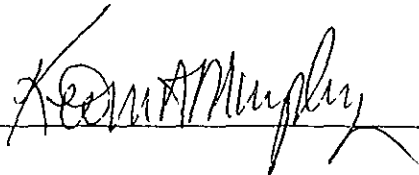
Client: IT Corporation  
Project: Pacific Bell / 151933  
Sample Matrix: Water

Service Request: S941479  
Date Collected: 11/17/94  
Date Received: 11/17/94  
Date Extracted: NA  
Date Analyzed: 11/29/94

BTEX and TPH as Gasoline  
EPA Methods 5030/8020/California DHS LUFT Method

Analyte:	TPH as Gasoline	Benzene	Toluene	Ethylbenzene	Xylenes, Total
Units:	ug/L (ppb)	ug/L (ppb)	ug/L (ppb)	ug/L (ppb)	ug/L (ppb)
Method Reporting Limit:	50	0.5	0.5	0.5	0.5

Sample Name	Lab Code	TPH as Gasoline	Benzene	Toluene	Ethylbenzene	Xylenes, Total
MW-1 (11-94)	S941479-001	ND	ND	ND	ND	ND
Method Blank	S941129-WB	ND	ND	ND	ND	ND

Approved By:   
SABTXGAS/061094

Date: December 7, 1994

COLUMBIA ANALYTICAL SERVICES, INC.

QA/QC Report

Client: IT Corporation  
Project: Pacific Bell / 151933  
Sample Matrix: Water

Service Request: S941479  
Date Collected: 11/17/94  
Date Received: 11/17/94  
Date Extracted: NA  
Date Analyzed: 11/29/94

Surrogate Recovery Summary  
BTEX and TPH as Gasoline  
EPA Methods 5030/8020/California DHS LUFT Method

Sample Name	Lab Code	Percent Recovery $\alpha,\alpha,\alpha$ -Trifluorotoluene
MW-1 (11-94)	S941479-001	105
Method Blank	S941129-WB	99

CAS Acceptance Limits. 69-116

Approved By: \_\_\_\_\_

*Keon Murphy*

Date: \_\_\_\_\_

*December 7, 1994*

SUR1/062994



1921 Ringwood Ave. • San Jose, CA 95131 • (408) 437-2400, FAX (408) 437-9356

*CC/Account # 096 000*

# CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

DATE 11-17-94 PAGE 1 OF 1

PROJECT NAME <u>PACIFIC BELL # 151933</u>					NUMBER OF CONTAINERS	ANALYSIS REQUESTED										REMARKS						
PROJECT MNGR <u>MIKE MILLER</u>						3	<div style="display: flex; flex-direction: column; justify-content: space-between;"> <div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;">Base/New/Acid Organics GC/MS 825/827/0</div> <div style="width: 33%;">Volatile Organics GC/MS 824/824/0</div> <div style="width: 33%;">Halogenated or Aromatic Volatiles 601/601/0</div> <div style="width: 33%;">TPH as Gas/BIEX 602/802/0</div> <div style="width: 33%;">TPH as Dissolv/BHC</div> <div style="width: 33%;">TPPH - 418.1</div> <div style="width: 33%;">Oil and Grease Method List Below</div> <div style="width: 33%;">Metals (total or dissolved)</div> <div style="width: 33%;">pH, Cond, Cl, SO<sub>4</sub>, PO<sub>4</sub>, F, NO<sub>2</sub>, Alk, TDS, TSS (circle)</div> <div style="width: 33%;">NH<sub>3</sub>-N, COD, Total P, TKN, NO<sub>3</sub> (circle)</div> <div style="width: 33%;">Total Organic Carbon TOC 415/8060</div> <div style="width: 33%;">Total Phenols</div> </div> </div>															
COMPANY/ADDRESS <u>IT CORP.</u>																						
<u>2055 JUNCTION AV.</u>																						
<u>SAN JOSE, CA</u> PHONE <u>408 944-1200</u>																						
SAMPLERS SIGNATURE <u>Jesus M. Mata</u>																						
SAMPLE I.D.	DATE	TIME	LAB I.D.	SAMPLE MATRIX																		
MW-1 (11-94)	11-17-94	13:35	1	H <sub>2</sub> O																		

<b>RELINQUISHED BY:</b> Signature: <u>Jesus M. Mata</u> Printed Name: <u>JESUS MATA</u> Firm: <u>IT CORP.</u> Date/Time: <u>11-17-94 @ 4201</u>		<b>RECEIVED BY:</b> Signature: <u>John Martinez</u> Printed Name: <u>JOHN MARTINEZ</u> Firm: <u>CBS/BJ</u> Date/Time: <u>11/17/94 420P</u>		<b>TURNAROUND REQUIREMENTS:</b> <input type="checkbox"/> 24 hr <input type="checkbox"/> 48 hr <input type="checkbox"/> 5 day <input checked="" type="checkbox"/> Standard (~ 10-15 working days) <input type="checkbox"/> Provide Verbal Preliminary Results <input type="checkbox"/> Provide FAX Preliminary Results Requested Report Date _____		<b>REPORT REQUIREMENTS</b> <input checked="" type="checkbox"/> I. Routine Report <input type="checkbox"/> II. Report (includes DUP, MS, MSD, as required, may be charged as samples) <input type="checkbox"/> III. Data Validation Report (includes All Raw Data) <input type="checkbox"/> IV. CLP Deliverable Report		<b>INVOICE INFORMATION:</b> <u>408/1200</u> CALL RICH SOLTERO <u>894</u> P.O. # _____ Bill to: <u>IT CORP.</u> <u>4585 PACHECO BLVD</u> <u>MARTINEZ, CA</u> <u>94553</u>		<b>SAMPLE RECEIPT:</b> Shipping VIA: <u>Sampler</u> Shipping #: _____ Condition: <u>Okay</u> Lab No.: <u>8941479</u>	
---	--	--	--	--	--	---	--	--	--	--	--

<b>RELINQUISHED BY:</b> Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____		<b>RECEIVED BY:</b> Signature: _____ Printed Name: _____ Firm: _____ Date/Time: _____		<b>SPECIAL INSTRUCTIONS/COMMENTS:</b>   					
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