



INTERNATIONAL
TECHNOLOGY
CORPORATION



SEP 14 11 21 24
1974

**GROUNDWATER SAMPLING REPORT
JUNE 1995
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

JUNE 1995

June 8, 1995

IT Project No. 151933

Mr. Lyle Stuck
Pacific Bell
2600 Camino Ramon, Room 3E400Q
San Ramon, California 94583

Subject: GROUNDWATER SAMPLING-MAY 1995
Pacific Bell Facility
2610 Norbridge Avenue
Castro Valley, California

Dear Mr. Stuck:

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 May 19, 1995. 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). The fiberglass UST was replaced with a 10,000 gallon double-wall glass-steel 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

Mr. Lyle Stuck
June 8, 1995
Page 2

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 May 19, 1995, the depth to water was measured from the top of the well casing with an electronic meter. A depth of 4.32 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 with a disposable teflon bailer and transferred into laboratory supplied sample containers and stored in a pre-chilled ice chest. The sample was shipped, under chain of custody protocol, to Incape Testing Services 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 EPA Methods 8015 (modified) and 8020 in series. The water from the well development was stored onsite in 55 gallon drums and has been properly disposed.

RESULTS

Laboratory analyses reported that TPH-G was detected at a concentration of 64 parts per billion (ppb). BTEX were not detected in the groundwater sample. The detection limits were 50 ppb, for TPH-G, and 0.5 ppb for BTEX.

CONCLUSIONS


Field and analytical data from the May 19, 1995, quarterly groundwater sampling and analysis at the site indicate the following:

- Shallow groundwater is present at a depth of approximately 4.32 feet below the ground surface.
- No detectable concentrations of BTEX were present in the groundwater sample from the monitoring well.
- TPH-G was present in the groundwater sample at a concentration of 64 ppb.

Mr. Lyle Stuck
June 8, 1995
Page 3

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

Respectfully submitted,
IT CORPORATION


Jesus M. Mata
Engineering Technician


Matthew J. Hopwood, R.G., R.E.A.
Engineering Manager

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

ATTACHMENTS

TABLE 1
 MW-1 GROUNDWATER DATA
 PACIFIC BELL FACILITY
 NORBRIGE AVENUE, CASTRO VALLEY, CALIFORNIA

WELL SAMPLING DATA					ANALYTICAL RESULTS						
WELL I.D.	WELL DEPTH ¹	DEPTH TO WATER ¹	ONE CASING VOLUME ²	VOLUME REMOVED ²	DATE	SAMPLE I.D.	TPH-G ³	BENZENE ³	TOLUENE ³	ETHYL BENZENE ³	XYLENES ³
MW-1	15.43	5.12	6.90	21.00	02/15/94	MW-1(2-94)	ND ⁴	ND	ND	ND	ND
	15.45	4.95	7.03	21.10	11/17/94	MW-1(11-94)	ND	ND	ND	ND	ND
	15.57	4.00	7.75	23.25	02/15/95	MW-1(2-95)	74	ND	ND	ND	ND
	15.60	4.32	7.55	23.00	05/19/95	MW-1(5-95)	64	ND	ND	ND	ND

NOTES:

- DEPTH¹ In feet
- VOLUME² In gallons
- TPH-G³ Total Petroleum Hydrocarbons as Gasoline
- Laboratory results reported in $\mu\text{g/l}$ (parts per billion)
- ND⁴ Not detected at/or above laboratory detection limit

DRAWN BY JM
 06-30-93
 QA/OC BY *lba 3/2/94*
 APPROVED BY *M. Hill 3/2/94*
 DRAWING NO. 151933-VII
 FILE/DISK 51933/GCDD4

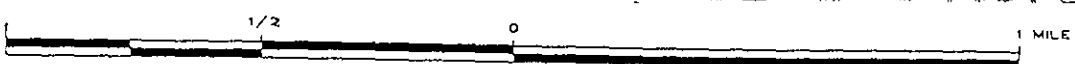
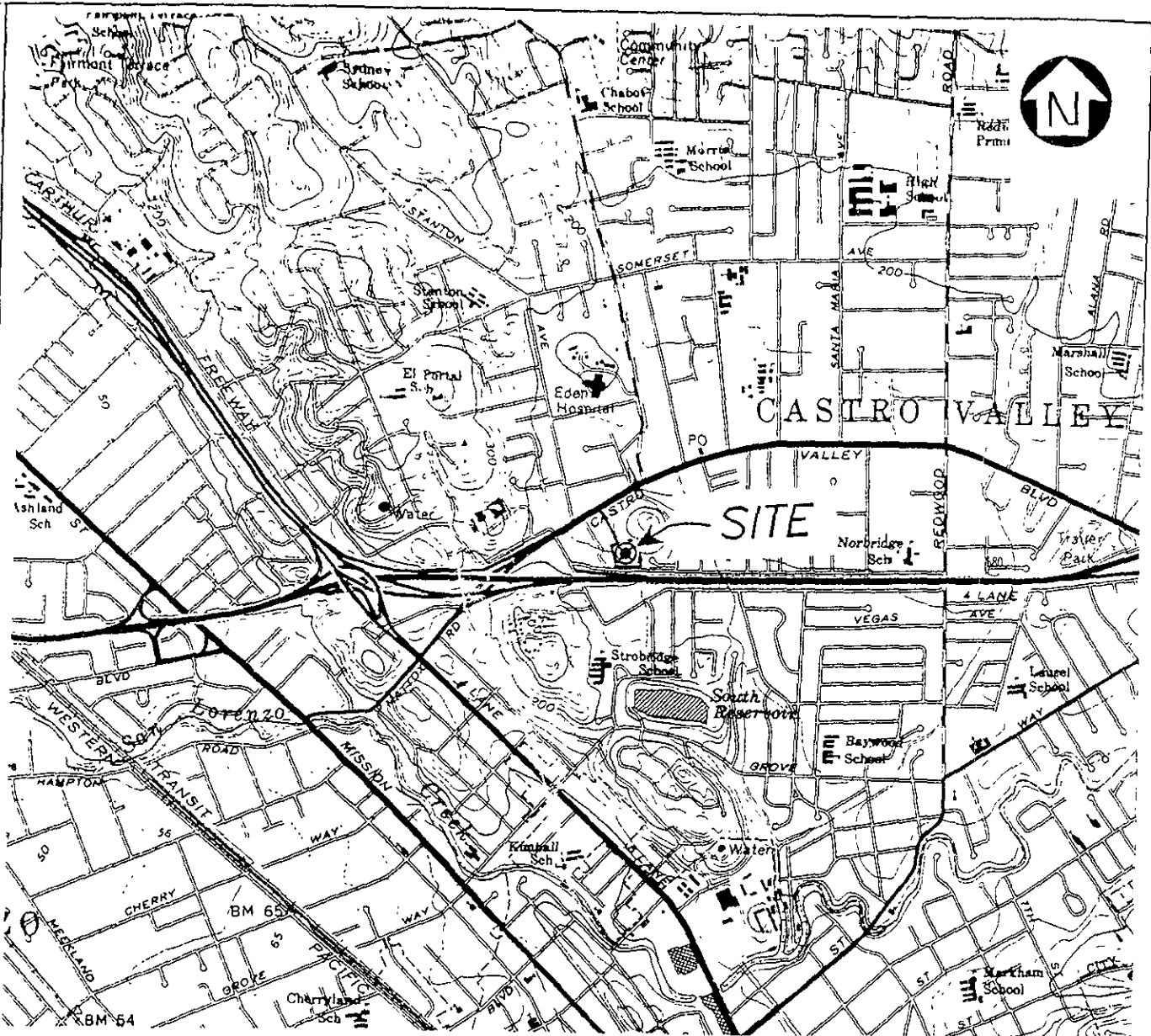


FIGURE 1
 VICINITY MAP

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

PREPARED FOR
 PACIFIC BELL
 SAN RAMON, CALIFORNIA

NOTES

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





Inchcape Testing Services

Anamatrix Laboratories

1961 Concourse Drive
 Suite E
 San Jose, CA 95131
 Tel: 408-432-8192
 Fax: 408-432-8198

MR. MIKE MILLER
 IT CORPORATION - SAN JOSE
 2055 JUNCTION AVE.
 SAN JOSE, CA 95131

Workorder # : 9505229
 Date Received : 05/19/95
 Project ID : 151933-01
 Purchase Order: 27570

The following samples were received at Anamatrix for analysis :

ANAMATRIX ID	CLIENT SAMPLE ID
9505229- 1	MW-1

This report is organized in sections according to the specific Anamatrix laboratory group which performed the analysis(es) and generated the data.

The results contained within this report relate to only the sample(s) tested. Additionally, these data should be considered in their entirety and Anamatrix cannot be responsible for the detachment, separation, or otherwise partial use of this report.

Anamatrix is certified by the California Department of Health Services (DHS) to perform environmental testing under Certificate Number 1234.

If you have any further questions or comments on this report, please call your project manager as soon as possible. Thank you for using Inchcape Testing Services.


 Susan Kraska Yeager
 Laboratory Director


 Curtina V Rayburn
 Project Manager

05/30/95
 Date

This report consists of 7 pages.

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. MIKE MILLER
IT CORPORATION - SAN JOSE
2055 JUNCTION AVE.
SAN JOSE, CA 95131

Workorder # : 9505229
Date Received : 05/19/95
Project ID : 151933-01
Purchase Order: 27570
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9505229- 1	MW-1	WATER	05/19/95	TPHgBTEX

REPORT SUMMARY
ANAMETRIX, INC. (408)432-8192

MR. MIKE MILLER
IT CORPORATION - SAN JOSE
2055 JUNCTION AVE.
SAN JOSE, CA 95131

Workorder # : 9505229
Date Received : 05/19/95
Project ID : 151933-01
Purchase Order: 27570
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- All holding times have been met for the analyses reported in this section.

Cheryl Beaman 5/26/95
Department Supervisor Date

Stefi 05/26/95
Chemist Date

Laboratory Control Spike Report
Total Petroleum Hydrocarbons as BTEX
ITS - Anametrix Laboratories - (408)432-8192

Instrument ID : HP21

Analyst : TS

Matrix : LIQUID

Supervisor : *CS*

Units : ug/L

COMPOUND NAME	SPIKE AMOUNT	LCS RECOVERY	RECOVERY LIMITS
Benzene	20	94%	52-133
Toluene	20	96%	57-136
Ethylbenzene	20	97%	56-139
Total Xylenes	20	99%	56-141
Surrogate Recovery		102%	61-139
Date Analyzed		05/22/95	
Multiplier		1	
Filename Reference		MY2202E1.D	

* Limits established by Incheape Testing Services, Anametrix Laboratories.

Total Petroleum Hydrocarbons as Gasoline with BTEX

ITS - Anametrix Laboratories - (408)432-8192

Lab Workorder : 9505229

Client Project ID : 151933-01

Matrix : WATER

Units : ug/L

Compound Name	Method Reporting Limit*	Client ID	Client ID	Client ID	Client ID	Client ID
		MW-1				
		Lab ID	Lab ID	Lab ID	Lab ID	Lab ID
		9505229-01	METHOD BLANK			
Benzene	0.50	ND	ND			
Toluene	0.50	ND	ND			
Ethylbenzene	0.50	ND	ND			
Total Xylenes	0.50	ND	ND			
TPH as Gasoline	50	64	ND			
Surrogate Recovery		104%	109%			
Instrument ID		HP21	HP21			
Date Sampled		05/19/95	N/A			
Date Analyzed		05/23/95	05/22/95			
RLMF		1	1			
Filename Reference		FPY22901.D	BY2202E1.D			

* The Method Reporting Limit must be multiplied by the Reporting Limit Multiplication Factor (RLMF) to achieve the compound's reporting limit in the analysis.

ND : Not detected at or above the reporting limit for the analysis as performed.

TPHg : Determined by GC/FID following sample purge & trap by EPA Method 5030.

BTEX : Determined by modified EPA Method 8020 following sample purge & trap by EPA Method 5030.

Lab Control Limits for surrogate compound p-Bromofluorobenzene are 61-139%.

All testing procedures follow California Department of Health Services (Cal-DHS) approved methods.

Steph
Analyst

05/20/95
Date

Cheryl Balmer
Supervisor

5/24/95
Date



505229 (78)

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD*

Reference Document No. 506241
Page 1 of 1

Project Name/No. 1 PACIFIC BELL 151933-01 Samples Shipment Date 7 5/19/95
 Sample Team Members 2 J.M. Lab Destination 8 INCHCAPE
 Profit Center No. 3 Lab Contact 9 SIHON
 Project Manager 4 MIKE HILLER Project Contact/Phone 12 JESUS MATA (408) 894-1200
 Purchase Order No. 6 Carrier/Waybill No. 13
 Required Report Date 11 STANDARD

Bill to: 5 IT CORPORATION
4585 RACHECO BLVD.
MARTINEZ, CA 94553
 Report to: 10 IT CORP.
2055 JUNCTION AV.
SAN JOSE, CA 95131
ATTN: JESUS MATA

ONE CONTAINER PER LINE

Sample Number ¹⁴	Sample Description/Type ¹⁵	Date/Time Collected ¹⁶	Container Type ¹⁷	Sample Volume ¹⁸	Pre-servative ¹⁹	Requested Testing Program ²⁰	Condition on Receipt ²¹	Disposal Record No. ²²
① MW-1 (S-95)	GROUNDWATER	5-19-95 @ 11:05	3x 40 ml VOA	(20ml)	HCL/ICE	TPH-G/BTEX		
FOR LAB USE ONLY								
FOR LAB USE ONLY								

Special Instructions: ²³

Possible Hazard Identification: ²⁴ Non-hazard Flammable Skin Irritant Poison B Unknown Sample Disposal: ²⁵ Return to Client Disposal by Lab Archive _____ (mos.)

Turnaround Time Required: ²⁶ Normal Rush QC Level: ²⁷ I. II. III. Project Specific (specify): _____

1. Relinquished by ²⁸ <u>Jesus M. Mata</u> Date: <u>5-19-95</u> Time: <u>15:30</u>	1. Received by ²⁸ <u>[Signature]</u> Date: <u>5-19-95</u> Time: <u>15:30</u>
2. Relinquished by (Signature/Affiliation) Date: _____ Time: _____	2. Received by (Signature/Affiliation) Date: _____ Time: _____
3. Relinquished by (Signature/Affiliation) Date: _____ Time: _____	3. Received by (Signature/Affiliation) Date: _____ Time: _____

Comments: ²⁹

White: To accompany samples
Yellow: Field copy
* See back of form for special instructions.