

## **WellTest,**

1180 Delmas Avenue, San Jose, CA 95125  
(408) 287-2175  
(408) 287-2176 Fax  
Lic. #: R.G. 6253

Groundwater & Soil-Core Sampling  
Third-Party Reporting Services

December 20, 2004

Ms Linda Champion  
9441 Laguna Lake Way  
Elk Grove, CA 95758

**Subject: Groundwater Testing Report [#1427] – Third Quarter 2004**

*Fuel Leak Case No. RO0000133*

**Site:** City of Paris Cleaners, 3514 Adeline Street, Oakland, California.

Ms. Champion:

This report summarizes the results of the groundwater sampling and testing performed at the former City of Paris Cleaners site, 3514 Adeline Street, Oakland (See Figure 1). The work was performed in accordance with the request made by Don Hwang of the Alameda County Health Care Services Agency (ACHSA) in his letter dated March 13, 2002.

The scope of services provided during this investigation consisted primarily of the collection and laboratory testing of groundwater samples from wells MW-1, MW-2, and MW-3, and collection and laboratory testing of a groundwater grab sample from an industrial well at the subject site [sample name designated as "Industrial"]. Well destruction of the onsite industrial well will be completed as a separate phase of work.

### **FIELD SERVICES**

On 09/30/04, Welltest, Inc. was onsite to perform the following sampling tasks:

- ◆ Measured depth to water surfaces [below top of casing survey mark]
- ◆ Performed subjective analyses for floating product
- ◆ Purged approximately 3 well-volumes of water from each monitoring well
- ◆ Recorded electrical conductivity, pH, and temperature data during well water removal
- ◆ Allowed the wells to recover to static water level conditions [at least 80% recovery]
- ◆ Collected groundwater samples
- ◆ Transported the groundwater samples to a State-certified laboratory for the analyses requested [packaged within an ice chest cooled with one ice-filled 1-liter plastic bottle]

### **LABORATORY SERVICES**

Groundwater samples from wells MW-1, MW-2, MW-3, and the industrial well were analyzed at McCampbell Analytical Inc., Pacheco, California [CA Certified Lab #1644] for:

- ◆ Total Petroleum Hydrocarbons as Stoddard Solvent (TPHss) by EPA Method 8015Cm;
- ◆ Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline (TPHg), with Methyl tert-Butyl Ether, plus the volatile hydrocarbon constituents benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Extraction Method SW5030B and EPA Test Methods SW8021B/8015Cm.

*Data Collection & Reporting Services*

## RESULTS

Results of laboratory analyses are presented in Attachment A, and in Table 1. See Attachment B for a table of field measurement data. A summary of the laboratory testing data is presented below.

- TPHss (Stoddard Solvent) in Groundwater. Up to 3,900 ug/L of TPHss was detected in the groundwater samples submitted [sample W-MW-3 from well MW-3].
- Benzene, Toluene, Ethylbenzene, and Xylene in Groundwater. Of all the BTEX compounds, only xylenes [3.2 ug/L in W-MW-3] were detected in any of the groundwater samples tested for this phase of work.
- MTBE in Groundwater. MTBE was not detected in the groundwater samples from the wells tested.

## CONCLUSIONS

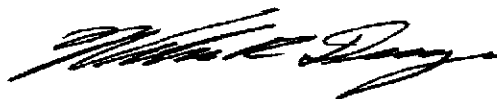
- Groundwater Flow Direction & Gradient. The direction of groundwater flow was calculated as flowing to the northeast with a slope of 0.033.
- Groundwater Quality within the Industrial Well. Groundwater quality within the samples collected from the onsite industrial well on 09/30/04 did not contain reportable levels of TPHss or TPHg [ $<50$  ug/L of TPHg and  $<50$  ug/L of TPHss].
- Groundwater Quality within Monitoring Wells MW-1, MW-2, and MW-3. Groundwater quality within samples collected from wells MW-1 and MW-3 on 09/30/04 have been impacted by TPHg and TPHss above the taste-threshold standard for TPHg and TPHss ( $<500$  ug/L). Levels of TPHg and TPHss have lowered significantly from previously recorded levels (See Table 1 and Attachment C).

## RECOMMENDATIONS

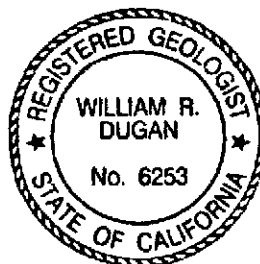
- Groundwater Sampling & Testing. Groundwater monitoring wells MW-1, MW-2, and MW-3 should be gauged, sampled, and analyzed for gasoline and diesel compounds on a quarterly basis. The laboratory testing should be performed at a State-Certified laboratory.

## CERTIFICATION

I certify that the work presented in this report was performed under my supervision. To the best of my knowledge, the data contained herein are true and accurate, and the work was performed in accordance with professional standards.



William R. Dugan  
Registered Geologist # 6253  
Expires 10/31/05  
Supervisor – Data Collection & Reporting Services  
WellTest, Inc.



|           |  |
|-----------|--|
| Table 1.  | Groundwater Sampling and Monitoring Data |
| Figure 1. | Site Vicinity/Topographic Map            |
| Figure 2. | Generalized Site Map                     |
| Figure 3. | Groundwater Elevation Map (09/30/04)     |
| Figure 4. | Groundwater Chemistry Map (09/30/04)     |

**DISTRIBUTION**

A copy of this report should be submitted to the following regulator Agency:

Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, CA 94502-6577  
Attn: Don Hwang

## TABLES

***WellTest, Inc.***

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**Table 1**  
**Groundwater Sampling and Monitoring Data**  
**City of Paris**  
**3516 Adeline Street**  
**Oakland, CA**

| Well Number | Date                | TPHss<br>ug/L     | TPHg<br>ug/L      | B<br>ug/L          | T<br>ug/L          | E<br>ug/L          | X<br>ug/L          | MTBE<br>ug/L       | MTBE*<br>ug/L | 1,2-DCB<br>ug/L | Naph.<br>ug/L | TOC<br>Elev.     | Depth<br>to GW   | GW<br>Elev.     |
|-------------|---------------------|-------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------|-----------------|---------------|------------------|------------------|-----------------|
| MW-1        | 03/22/02            | 11,000            | nm                | nm                 | nm                 | nm                 | nm                 | nm                 | <5.0          | 0.61            | 130           | 17.44            | 8.97             | 8.47            |
|             | 04/15/03            | 3,900             | nm                | <2.5               | <2.5               | <2.5               | 3.1                | 8.8                | nm            | <1.0            | 100           | 17.44            | 9.23             | 8.21            |
|             | 03/26/04            | 30,000            | 24,000            | <50                | <50                | <50                | <50                | <500               | nm            | nm              | nm            | 17.44            | 10.32            | 7.12            |
|             | <del>08/30/04</del> | <del>3,800</del>  | <del>2,600</del>  | <del>&lt;0.5</del> | <del>&lt;0.5</del> | <del>&lt;0.5</del> | <del>2.7</del>     | <del>&lt;5.0</del> | <del>nm</del> | <del>nm</del>   | <del>nm</del> | <del>17.44</del> | <del>11.63</del> | <del>5.91</del> |
| MW-2        | 03/22/02            | 170               | 13,000            | 410                | 1,000              | 210                | 1,100              | <200               | <5.0          | <1.0            | <10           | 17.31            | 8.62             | 8.49            |
|             | 04/15/03            | 99                | nm                | <0.5               | <0.5               | <0.5               | <0.5               | 10                 | nm            | <0.5            | <10           | 17.31            | 8.52             | 8.79            |
|             | 03/26/04            | 120               | 93                | <0.5               | <0.5               | <0.5               | 0.76               | 5.4                | nm            | nm              | nm            | 17.31            | 9.32             | 7.99            |
|             | <del>08/30/04</del> | <del>&lt;50</del> | <del>&lt;50</del> | <del>&lt;0.5</del> | <del>&lt;0.5</del> | <del>&lt;0.5</del> | <del>&lt;0.5</del> | <del>&lt;5.0</del> | <del>nm</del> | <del>nm</del>   | <del>nm</del> | <del>17.31</del> | <del>11.62</del> | <del>5.89</del> |
| MW-3        | 03/22/02            | 420               | <50               | <0.5               | <0.5               | <0.5               | <0.5               | <5.0               | 31            | <1.0            | <1.0          | 17.44            | 10.97            | 6.47            |
|             | 04/15/03            | 2,700             | nm                | <0.5               | <0.5               | <0.5               | <0.5               | 40                 | nm            | <0.5            | 24            | 17.44            | 8.31             | 9.13            |
|             | 03/26/04            | 2,700             | 1,900             | <1.7               | <1.7               | <1.7               | 4.3                | <17                | nm            | nm              | nm            | 17.44            | 8.61             | 8.83            |
|             | <del>08/30/04</del> | <del>3,900</del>  | <del>2,600</del>  | <del>&lt;0.5</del> | <del>&lt;0.5</del> | <del>&lt;0.5</del> | <del>3.2</del>     | <del>&lt;5.0</del> | <del>nm</del> | <del>nm</del>   | <del>nm</del> | <del>17.44</del> | <del>11.10</del> | <del>8.34</del> |
| W-IND.      | 03/22/02            | <50               | 190               | <0.5               | <0.5               | <0.5               | 0.80               | <5.0               | <1.0          | <1.0            | <50           | nm               | ns               | nm              |
|             | 03/26/04            | 500               | 200               | <0.5               | <0.5               | <0.5               | <0.5               | <5.0               | nm            | nm              | nm            | nm               | ns               | nm              |
|             | <del>08/30/04</del> | <del>&lt;50</del> | <del>&lt;50</del> | <del>&lt;0.5</del> | <del>&lt;0.5</del> | <del>&lt;0.5</del> | <del>&lt;0.5</del> | <del>&lt;5.0</del> | <del>nm</del> | <del>nm</del>   | <del>nm</del> | <del>nm</del>    | <del>ns</del>    | <del>nm</del>   |

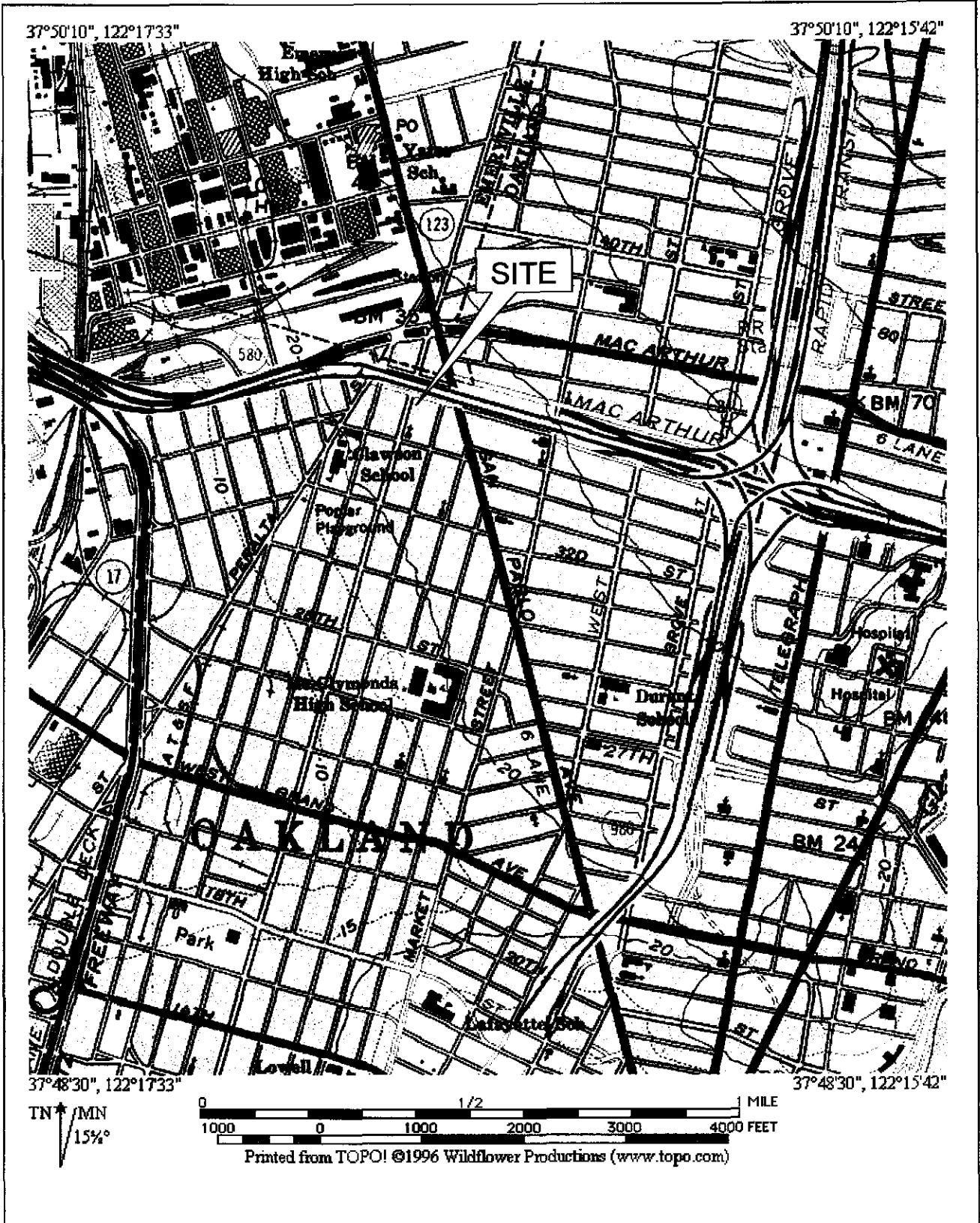
TPHg = total petroleum hydrocarbons as gasoline  
 B = benzene                      E = ethylbenzene  
 T = toluene                      X = xylenes  
 TOC = Top Of Casing  
 MTBE = methyl tertiary-butyl ether  
 DIPE = di-isopropyl ether  
 ETBE = ethyl tertiary butyl ether  
 TAME = tertiary amyl methyl ether  
 MTBE\* = Tested by EPA Method SW8021B

Depths and Elevations recorded in feet  
 Parts per billion = ug/L = ppb  
 ns = not sample  
 DTW= depth to water  
 1,2-DCB = 1,2-Dichlorobenzene  
 Naph. = Naphthalene

## FIGURES

***WellTest, Inc.***

1180 Delmas Avenue  
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(408) 287-2175  
Lic.# RG 6253



**WellTest, Inc.**  
 1180 Delmas Avenue  
 San Jose, CA 95125  
 Lic. RG #6253

**Site Area Topographic Map**  
**City of Paris Cleaners**  
 3516 Adeline Street  
 Oakland, California

**Figure**  
**1**



North

Scale: 1-inch = 20 ft.

35TH STREET (Center Line)

ADELINE STREET (Center Line)

Sidewalk

Approximate Limits of Soil Over-excavation from the Removal of the Former UST

Driveway

42 Feet

MW-1

MW-2

MW-3

101 Feet



Industrial Well

**BUILDING**

**Legend**

MW-3 = Existing Monitoring Well



Approximate Scale: 1 inch = 20 feet  
[Industrial well measured 12/15/99]

Base Map Source: BT Associates (1995) for approximate locations of wells

**WellTest, Inc.**

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www.WellTest-Inc.com

**Generalized Site Map**  
Former City of Paris Cleaners  
3516 Adeline Street  
Oakland, California

**FIGURE**

**2**

Job: 1427



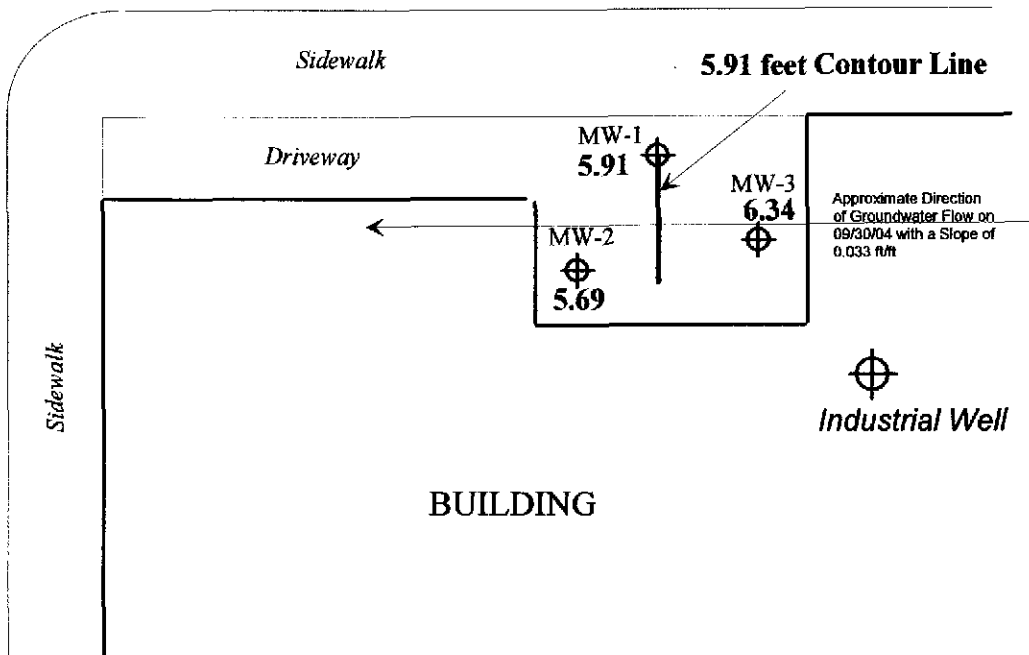


North

Scale: 1-inch = 20 ft.

35TH STREET

ADELINE STREET



**Legend**

MW-3 = Existing Monitoring Well



Approximate Scale: 1 inch = 20 feet

**Concentrations in ug/L (ppb)**

**WellTest, Inc.**

1180 Delmas Avenue  
San Jose, CA 95125  
(408) 287-2175  
[www.WellTest-Inc.com](http://www.WellTest-Inc.com)

**Groundwater Elevation Map [09/30/04]**

Former City of Paris Cleaners  
3516 Adeline Street  
Oakland, California

**FIGURE**

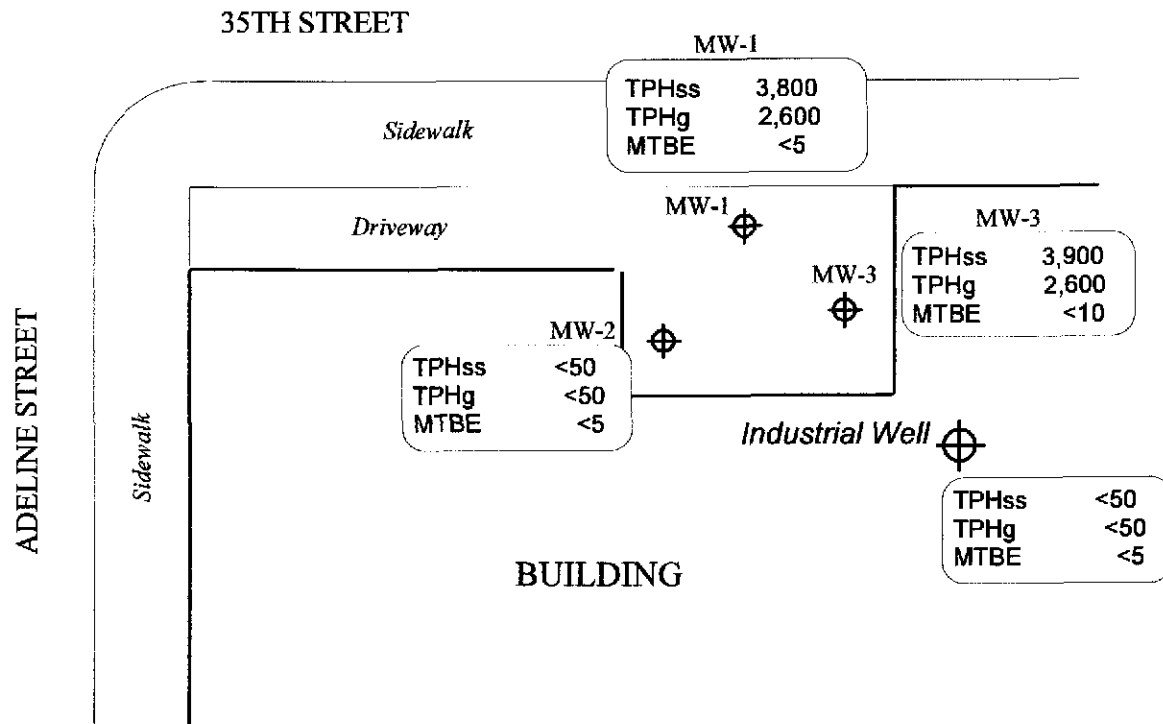
**3**

Job: 1427



North

Scale: 1-inch = 20 ft.



**Legend**

MW-3 = Existing Monitoring Well



Approximate Scale: 1 inch = 20 feet

**Concentrations in ug/L (ppb)**

**WellTest, Inc.**

1180 Delmas Avenue  
San Jose, CA 95125  
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[www.WellTest-Inc.com](http://www.WellTest-Inc.com)

**Groundwater Chemistry Map [09/30/04]**

Former City of Paris Cleaners  
3516 Adeline Street  
Oakland, California

**FIGURE**

**4**

Job: 1427

## **Attachment A**

**Chain of Custody Record**

**and**

**Laboratory Data Sheets**

***WellTest, Inc.***

1180 Delmas Avenue  
San Jose, CA 95125  
(408) 287-2175  
Lic.# RG 6253

Wt1

0410019

# Chain of Custody Record

## WellTest, Inc.

1180 Delmas Avenue  
San Jose, CA  
Lic. #: R.G. 6253  
Tel. (408) 287-2175  
Fax. (408) 287-2176

|  |                                      |
|--|--------------------------------------|
| SWRCB<br>Site Name: <u>Former City of Paris Cleaners</u> | Case #: _____                        |
| Site Global<br>I.D. Number _____                         | Log Code for<br>WellTest, Inc. _____ |

|                                 |                                    |                        |
|---------------------------------|------------------------------------|------------------------|
| CERTIFIED ANALYTICAL LABORATORY | <u>McCampbell Analytical, Inc.</u> | E-LAP NO.: <u>1644</u> |
|---------------------------------|------------------------------------|------------------------|

| WellTest, Inc. PROJECT NAME   |                  |           |      | SITE ADDRESS         |                             | TURNDOWN TIME                  |  | STANDARD |                       |           |     |
|-------------------------------|------------------|-----------|------|----------------------|-----------------------------|--------------------------------|--|----------|-----------------------|-----------|-----|
| Former City of Paris Cleaners |                  |           |      | 1427                 |                             | 3516 Adeline Street Oakland CA |  |          |                       |           |     |
| SAMPLED BY:                   |                  | DATE (S): |      | NUMBER OF CONTAINERS | SAMPLE WATER (NO. IN WATER) | TPH-ss                         |  |          | 1-Liter Bottle sealed | ACIDIFIED |     |
| Chris Strong                  |                  | 09/30/04  |      |                      |                             |                                |  |          |                       |           |     |
| SAMPLE I.D.#:                 | FIELD POINT NAME | SAMPLED   |      |                      |                             |                                |  |          |                       |           |     |
|                               |                  | DATE      | TIME |                      |                             |                                |  |          |                       |           |     |
| W-MW-1                        | MW-1             | 09/30/04  | 5:15 | 4                    | Water                       | X                              |  |          |                       | No        | yes |
| W-MW-2                        | MW-2             | 09/30/04  | 5:30 | 4                    | Water                       | X                              |  |          |                       | No        | yes |
| W-MW-3                        | MW-3             | 09/30/04  | 4:50 | 4                    | Water                       | X                              |  |          |                       | No        | yes |
| W-INDUSTRIAL                  | Industrial Well  | 09/30/04  | 5:05 | 4                    | Water                       | X                              |  |          |                       | No        | yes |

+

### COMMENTS / SPECIAL INSTRUCTIONS TO LABORATORY:

- 1) An EDF Laboratory Report is Required
- 2) E-Mail report to Bill Dugan of WellTest, Inc [dugan@welltest.biz]
- 3) Send Invoice to WellTest, Inc., 1180 Delmas Avenue, San Jose, CA 95125

TPHss = Total Petroleum Compound as Stoddard

|  |  |  |
|--|--|--|
| ICBP <input checked="" type="checkbox"/>   | GOOD CONDITION <input checked="" type="checkbox"/> | APPROPRIATE CONTAINERS <input checked="" type="checkbox"/> |
| HEAD SPACE ABSENT <input type="checkbox"/> | DISCHLORINATED IN LAB <input type="checkbox"/>     | PRESERVED IN LAB <input type="checkbox"/>                  |
| PRESERVATION: VOAS   O&G   METALS   OTHER  |  |  |

### CONDITION OF EVIDENCE TAPE (IF APPLICABLE):

|  |  |                  |                 |
|--|--|------------------|-----------------|
| RELINQUISHED BY (SIGNATURE):<br>WellTest, Inc.     | RECEIVED BY (SIGNATURE):<br><i>[Signature]</i> | DATE<br>10/01/04 | TIME<br>3:15 pm |
| RELINQUISHED BY (SIGNATURE):<br><i>[Signature]</i> | RECEIVED BY (SIGNATURE):<br><i>[Signature]</i> | DATE<br>10/01/04 | TIME<br>6:25 pm |
| AFFILIATION:<br><i>[Signature]</i>                 | AFFILIATION:<br><i>[Signature]</i>             | DATE<br>10/01/04 | TIME<br>6:25 pm |



**McC Campbell Analytical, Inc.**

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
Telephone : 925-798-1620 Fax : 925-798-1622  
Website: www.mccampbell.com E-mail: main@mccampbell.com

|   |  |                          |
|---|--|--------------------------|
| Well Test, Inc.<br><br>1180 Delmas Avenue<br><br>San Jose, CA 95121 | Client Project ID: #1427; Former City of<br>Paris Cleaners | Date Sampled: 09/30/04   |
|   | Client Contact: Bill Dugan                                 | Date Received: 10/01/04  |
|   | Client P.O.:   | Date Reported: 10/08/04  |
|   |  | Date Completed: 10/08/04 |

**WorkOrder: 0410019**

October 08, 2004

Dear Bill:

Enclosed are:

- 1). the results of 4 analyzed samples from your #1427; Former City of Paris Cleaners project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions please contact me. McC Campbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager



# McC Campbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
 Telephone : 925-798-1620 Fax : 925-798-1622  
 Website: www.mccampbell.com E-mail: main@mccampbell.com

|   |   |                                   |
|---|---|-----------------------------------|
| Well Test, Inc.<br><br>1180 Delmas Avenue<br><br>San Jose, CA 95121 | Client Project ID: #1427; Former City of Paris Cleaners | Date Sampled: 09/30/04            |
|   | Client Contact: Bill Dugan                              | Date Received: 10/01/04           |
|   | Client P.O.:  | Date Extracted: 10/05/04-10/07/04 |
|   |   | Date Analyzed: 10/05/04-10/07/04  |

### Gasoline Range(C6-C12), Stoddard Solvent Range(C9-C12) Volatile Hydrocarbons with BTEX & MTBE\*

Extraction Method: SW5030B

Analytical Method: SW8021B/8015Cm

Work Order: 0410019

|           |              |              |              |              |                          |  |
|-----------|--------------|--------------|--------------|--------------|--------------------------|--|
| Lab ID    | 0410019-001A | 0410019-002A | 0410019-003A | 0410019-004A | Reporting Limit for DF=1 |  |
| Client ID | W-MW-1       | W-MW-2       | W-MW-3       | W-Industrial |                          |  |
| Matrix    | W            | W            | W            | W            |                          |  |
| DF        | 1            | 1            | 1            | 1            |                          |  |

| Compound     | Concentration |    |       |    | ug/kg | µg/L |
|--------------|---------------|----|-------|----|-------|------|
| TPH(g)       | 2600          | ND | 2600  | ND | NA    | 50   |
| TPH(ss)      | 3800          | ND | 3900  | ND | NA    | 50   |
| MTBE         | ND            | ND | ND<10 | ND | NA    | 5.0  |
| Benzene      | ND            | ND | ND    | ND | NA    | 0.5  |
| Toluene      | ND            | ND | ND    | ND | NA    | 0.5  |
| Ethylbenzene | ND            | ND | ND    | ND | NA    | 0.5  |
| Xylenes      | 2.7           | ND | 3.2   | ND | NA    | 0.5  |

#### Surrogate Recoveries (%)

|          |      |      |      |     |  |  |
|----------|------|------|------|-----|--|--|
| %SS:     | 87.0 | 97.4 | 81.0 | 105 |  |  |
| Comments | c    |      | c    |     |  |  |

\* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0410019

| EPA Method: SW8021B/8015Cm |        | Extraction: SW5030B |        | BatchID: 13433 |         |        | Spiked Sample ID: 0410018-001A |          |                         |      |
|----------------------------|--------|---------------------|--------|----------------|---------|--------|--------------------------------|----------|-------------------------|------|
| Analyte                    | Sample | Spiked              | MS*    | MSD*           | MS-MSD* | LCS    | LCSD                           | LCS-LCSD | Acceptance Criteria (%) |      |
|                            | µg/L   | µg/L                | % Rec. | % Rec.         | % RPD   | % Rec. | % Rec.                         | % RPD    | Low                     | High |
| TPH(btex) <sup>£</sup>     | ND     | 60                  | 83.8   | 85.7           | 2.31    | 84.3   | 84.5                           | 0.294    | 70                      | 130  |
| MTBE                       | ND     | 10                  | 89.6   | 89.9           | 0.299   | 89.1   | 86.1                           | 3.44     | 70                      | 130  |
| Benzene                    | ND     | 10                  | 94.4   | 96.6           | 2.37    | 89.6   | 90.5                           | 1.06     | 70                      | 130  |
| Toluene                    | ND     | 10                  | 95.3   | 97.1           | 1.81    | 90.4   | 91.6                           | 1.24     | 70                      | 130  |
| Ethylbenzene               | ND     | 10                  | 96.7   | 98.8           | 2.13    | 92.5   | 93.7                           | 1.32     | 70                      | 130  |
| Xylenes                    | ND     | 30                  | 95.3   | 99.7           | 4.44    | 94.3   | 95                             | 0.704    | 70                      | 130  |
| %SS:                       | 97.0   | 10                  | 97     | 99             | 2.44    | 96     | 97                             | 1.14     | 70                      | 130  |

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:  
NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / ((MS + MSD) / 2).

\* MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

QA/QC Officer







**McC Campbell Analytical, Inc.**

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560  
Telephone : 925-798-1620 Fax : 925-798-1622  
Website: www.mcccampbell.com E-mail: main@mcccampbell.com

## INVOICE for ANALYTICAL SERVICES

Project Name: #1427; Former City of Paris Cleaners  
PO Number: N/A  
Date Sampled: 9/30/04  
Date Received: 10/1/04

**Invoice N°: 0410019**

INV DATE: *October 08, 2004*  
Print DATE: *October 08, 2004*

Report To: Bill Dugan  
Well Test, Inc.  
1180 Delmas Avenue  
San Jose, CA 95121

Invoice To: Accounts Payable  
WellTest, Inc.  
1180 Delmas Avenue  
San Jose, CA 95121-1721

| Description           | TAT    | Matrix | Qty | Mult | Unit Price | Test Total      |
|-----------------------|--------|--------|-----|------|------------|-----------------|
| <b>Tests:</b>         |        |        |     |      |            |                 |
| TPH(g) + MBTEX        | 5 days | Water  | 4   | 1    | \$45.00    | \$180.00        |
| <b>Miscellaneous:</b> |        |        |     |      |            |                 |
| EDF Report            |        |        | 1   | 1    | \$25.00    | \$25.00         |
| <b>SubTotal:</b>      |        |        |     |      |            | <b>\$205.00</b> |

**Invoice Total: \$205.00**

**\* ALL FAXED INVOICES ARE FOR YOUR INFORMATION ONLY - PLEASE PAY OFF ORIGINAL**

Please include the invoice number with your check and remit to Accounts Receivable at the letter head address. MAI also accepts credit card (Visa/Master Card/Discover/American Express) payment. Please call Account Receivable for details on this service.

MAI's EDF charge does not include the EDF charge for subcontracted analyses. The minimum EDF charge per workorder is \$25.00. For invoice total greater than \$5000.00, EDF will be 2% of the total invoice. The EDF charge for subcontracted analyses will be identical to Subcontractor's fee.

Terms are net 30 days from the invoice date. After this period 1.5% interest per month will be charged. Overdue accounts are responsible for all legal and collection fees. If you have any questions about billing, please contact Accounts Receivable at McC Campbell Analytical.

## **Attachment B**

### **Field Methods & Measurements**

***WellTest, Inc.***

1180 Delmas Avenue  
San Jose, CA 95125  
(408) 287-2175  
Lic.# RG 6253

# ***WellTest, Inc.***

1180 Delmas Avenue, San Jose, CA 95125  
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(408) 287-2176 Fax  
WellTestInc@AOL.com

## **STANDARD OPERATING PROCEDURES FOR THE MONITORING AND SAMPLING OF GROUNDWATER WELLS**

**Field Personnel:** All WellTest, Inc field personnel are required to have completed 40 hours of Hazardous Waste Operations and Emergency Response training per 29 CFR 1910.120 with 8 hour annual refresher courses. Field personnel are trained and expected to comply with the requirements of the Site Safety Plan in effect at each site.

**Sampling Methods:** The static water level in each well is measured to the nearest 0.01-foot using an electric water-level sounder cleaned with Alconox® and water before use in each well. Surface liquids in wells are examined for visual evidence of hydrocarbons by gently lowering approximately half the length of a clean disposable bailer past the air/water interface. The bailer is then retrieved and inspected for floating product, sheen, emulsion, color, and clarity. The thickness of floating product detected is recorded to at least the nearest 1/8-inch. Wells, which do not contain floating product, are purged using a submersible pump or bailer. The pump, cables, and hoses are steam-cleaned or cleaned with Alconox® and water before use in each well. The wells are purged until withdrawal is of sufficient duration to result in stabilized pH, temperature, and electrical conductivity of the water, as measured using portable meters calibrated to a standard buffer and conductivity standard, or not to exceed four well -case volumes. If the well becomes dewatered, the water level is allowed to recover to at least 80 percent of the initial water level. A sample of the formation water is then collected from each of the wells using either a disposable bailer or cleaned stainless-steel bailer. The water samples are then gently poured into laboratory-supplied, 40-milliliter (ml) glass vials, 500 ml plastic bottles, or 1-liter glass bottles (as required per specific laboratory analysis), sealed with Teflon®-lined caps, and inspected for air bubbles to check for headspace, which would may allow volatilization to occur. The samples are then labeled and promptly placed in iced storage. A field log of well evacuation procedures and parameter monitoring is maintained. Water generated by the purging of wells is stored in 55-gallon drums onsite and remains the responsibility of the client. A Chain of Custody Record is initiated by the sampling technician and updated throughout handling of the samples, and accompanies the samples to a laboratory certified by the State of California for the analyses requested.

***Groundwater Monitoring Specialists***

**Monitoring Well Sampling Field Data Sheet**  
**[09/30/04]**  
**3516 Adeline Street**  
**Oakland, CA**

**WELL: MW-1**

Well Purge Method: PVC Bailer  
 Sample Collection Method: Disposable Bailer  
 Sample Collection Depth: 12.5 feet bgs

Notes: Product odor.

|                       |       |         |
|-----------------------|-------|---------|
| Well Screen Interval: | -     | ft bgs  |
| Casing Diameter:      | 2     | inches  |
| Total Depth of Well:  | 27.06 | ft btoc |
| Depth to Water:       | 11.53 | ft btoc |
| Height of Water:      | 15.53 | ft      |
| Three Well Volumes:   | 7.78  | gal     |

| Date/Time | Purge Vol. [Gal] | Purge Status   | D.O. ppm | O.R.P. mV | pH   | Cond. uS | Temp C | DTW BTOC [ft] | Recovery %  | Pump Depth [ft] |
|-----------|------------------|----------------|----------|-----------|------|----------|--------|---------------|-------------|-----------------|
| 09/25/04  |                  |                |          |           |      |          |        |               |             |                 |
| 4:42 PM   | 0- Static        | Pre-Purge      | nm       | nm        | nm   | nm       | nm     | 11.53         |             | na              |
| 5:03 PM   | 1.0              | Purging        | nm       | nm        | 7.05 | 710      | 16.5   | nm            |             | na              |
| 5:08 PM   | 4.0              | Purging        | nm       | nm        | 7.12 | 715      | 16.4   | nm            |             | na              |
| 5:12 PM   | 8.0              | Purging        | nm       | nm        | 7.15 | 713      | 16.4   | nm            |             | na              |
| 5:15 PM   | <b>Total 8.0</b> | Collect Sample | nm       | nm        | nm   | nm       | nm     | 11.86         | <b>97.2</b> | na              |

**Monitoring Well Sampling Field Data Sheet**  
**[09/30/04]**  
**3516 Adeline Street**  
**Oakland, CA**

**WELL: MW-2**

Well Purge Method: PVC Bailer  
 Sample Collection Method: Disposable Bailer  
 Sample Collection Depth: 12.5 feet bgs

Notes: Slight Product odor.

|                       |       |         |
|-----------------------|-------|---------|
| Well Screen Interval: | -     | ft bgs  |
| Casing Diameter:      | 2     | inches  |
| Total Depth of Well:  | 29.47 | ft btoc |
| Depth to Water:       | 11.62 | ft btoc |
| Height of Water:      | 17.85 | ft      |
| Three Well Volumes:   | 8.94  | gal     |

| Date/Time | Purge Vol. [Gal] | Purge Status   | D.O. ppm | O.R.P. mV | pH | Cond. uS | Temp C | DTW BTOC [ft] | Recovery %  | Pump Depth [ft] |
|-----------|------------------|----------------|----------|-----------|----|----------|--------|---------------|-------------|-----------------|
| 09/25/04  | 0- Static        | Pre-Purge      | nm       | nm        | nm | nm       | nm     | 11.62         |             | na              |
| 4:40 PM   | 0- Static        | Pre-Purge      | nm       | nm        | nm | nm       | nm     | 11.62         |             | na              |
| 5:19 PM   | 1.0              | Purging        | nm       | nm        | nm | nm       | nm     | nm            |             | na              |
| 5:22 PM   | 4.0              | Purging        | nm       | nm        | nm | nm       | nm     | nm            |             | na              |
| 5:26 PM   | 9.0              | Purging        | nm       | nm        | nm | nm       | nm     | nm            |             | na              |
| 5:30 PM   | <b>Total 9.0</b> | Collect Sample | nm       | nm        | nm | nm       | nm     | 11.86         | <b>98.0</b> | na              |

**Monitoring Well Sampling Field Data Sheet**  
**[09/30/04]**  
**3516 Adeline Street**  
**Oakland, CA**

**WELL: MW-3**

Well Purge Method: PVC Bailer  
 Sample Collection Method: Disposable Bailer  
 Sample Collection Depth: 11.5 feet bgs

**Notes:** Product odor.

|                       |                 |         |
|-----------------------|-----------------|---------|
| Well Screen Interval: | -               | ft bgs  |
| Casing Diameter:      | 2               | inches  |
| Total Depth of Well:  | 29.62           | ft btoc |
| Depth to Water:       | 11.10           | ft btoc |
| Height of Water:      | 18.52           | ft      |
| Three Well Volumes:   | <del>9.28</del> | gal     |

| Date/Time | Purge Vol. [Gal] | Purge Status   | D.O. ppm | O.R.P. mV | pH   | Cond. uS | Temp C | DTW BTOC [ft] | Recovery %  | Pump Depth [ft] |
|-----------|------------------|----------------|----------|-----------|------|----------|--------|---------------|-------------|-----------------|
| 09/25/04  | 0- Static        | Pre-Purge      | nm       | nm        | nm   | nm       | nm     | 11.10         |             | na              |
| 4:38 PM   | 0- Static        | Pre-Purge      | nm       | nm        | nm   | nm       | nm     | 11.10         |             | na              |
| 4:40 PM   | 1.0              | Purging        | nm       | nm        | 6.89 | 581      | 15.6   | nm            |             | na              |
| 4:44 PM   | 4.0              | Purging        | nm       | nm        | 6.95 | 586      | 15.7   | nm            |             | na              |
| 4:48 PM   | 9.5              | Purging        | nm       | nm        | 6.89 | 589      | 15.5   | nm            |             | na              |
| 4:50 PM   | <b>Total 9.5</b> | Collect Sample | nm       | nm        | nm   | nm       | nm     | 11.65         | <b>95.3</b> | na              |

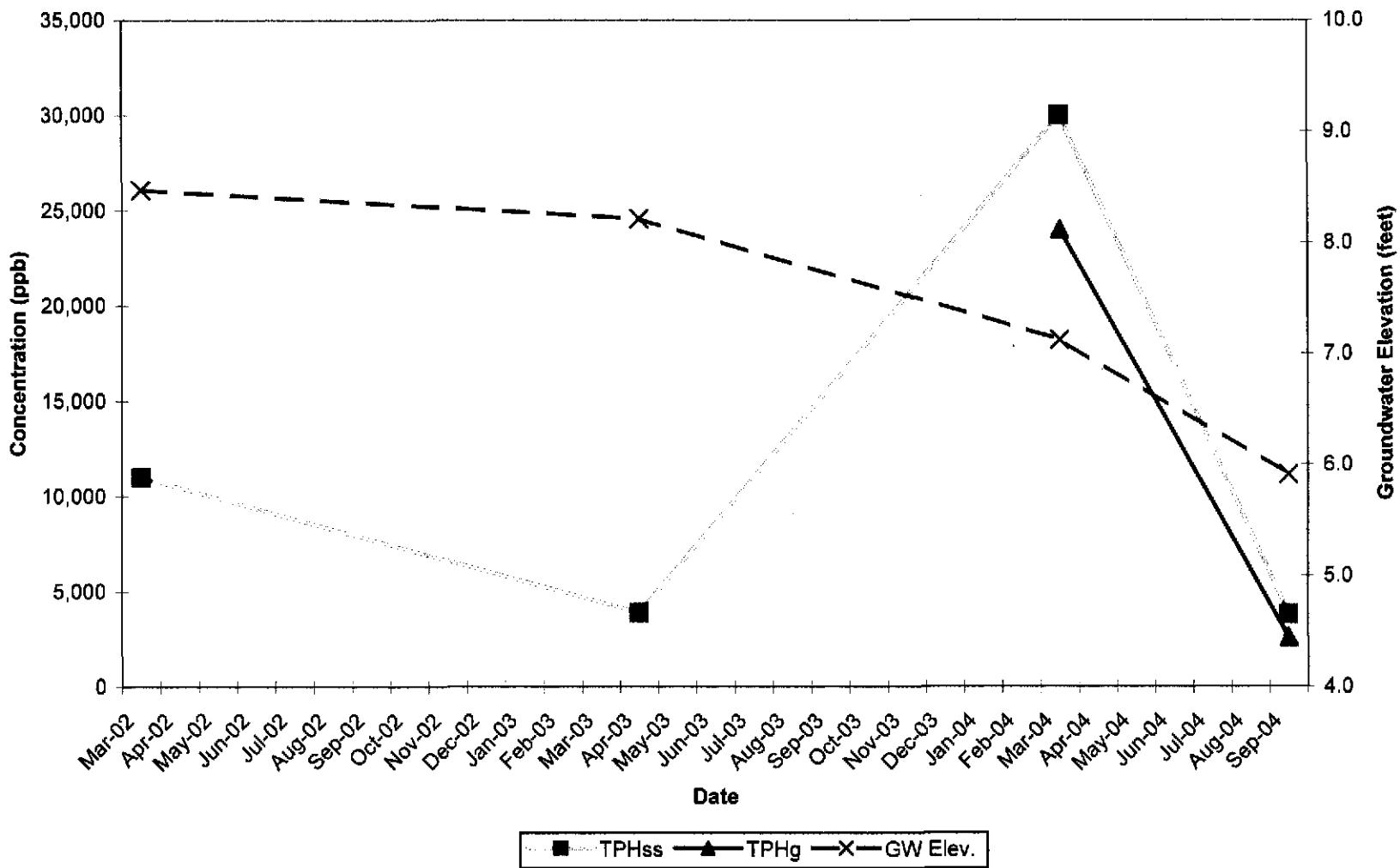
## Attachment C

### Time-Trend Plots

***WellTest, Inc.***

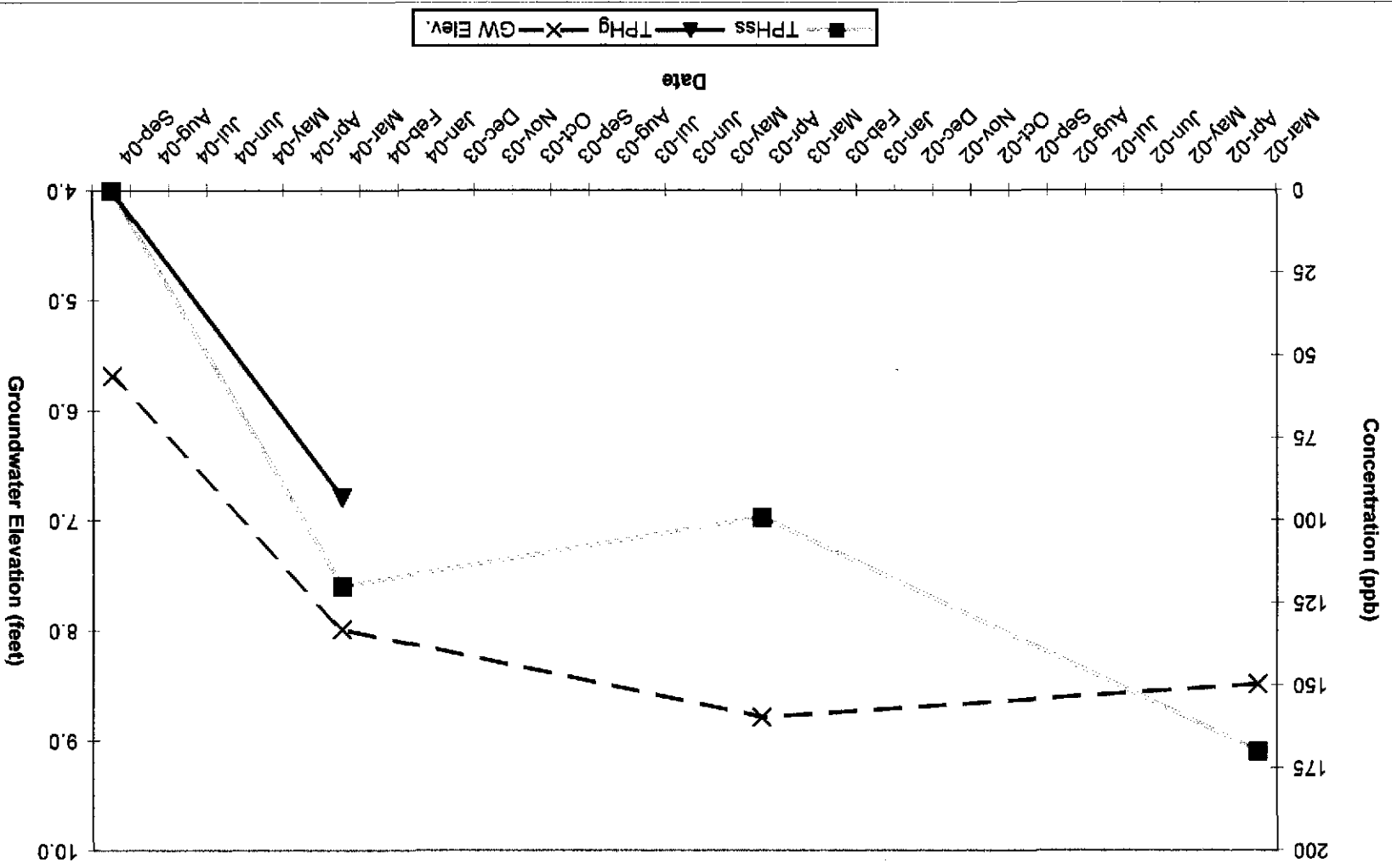
1180 Delmas Avenue  
San Jose, CA 95125  
(408) 287-2175  
Lic.# RG 6253

Time-Trend Plot (MW-1) 3516 Adeline Street, Salinas, CA

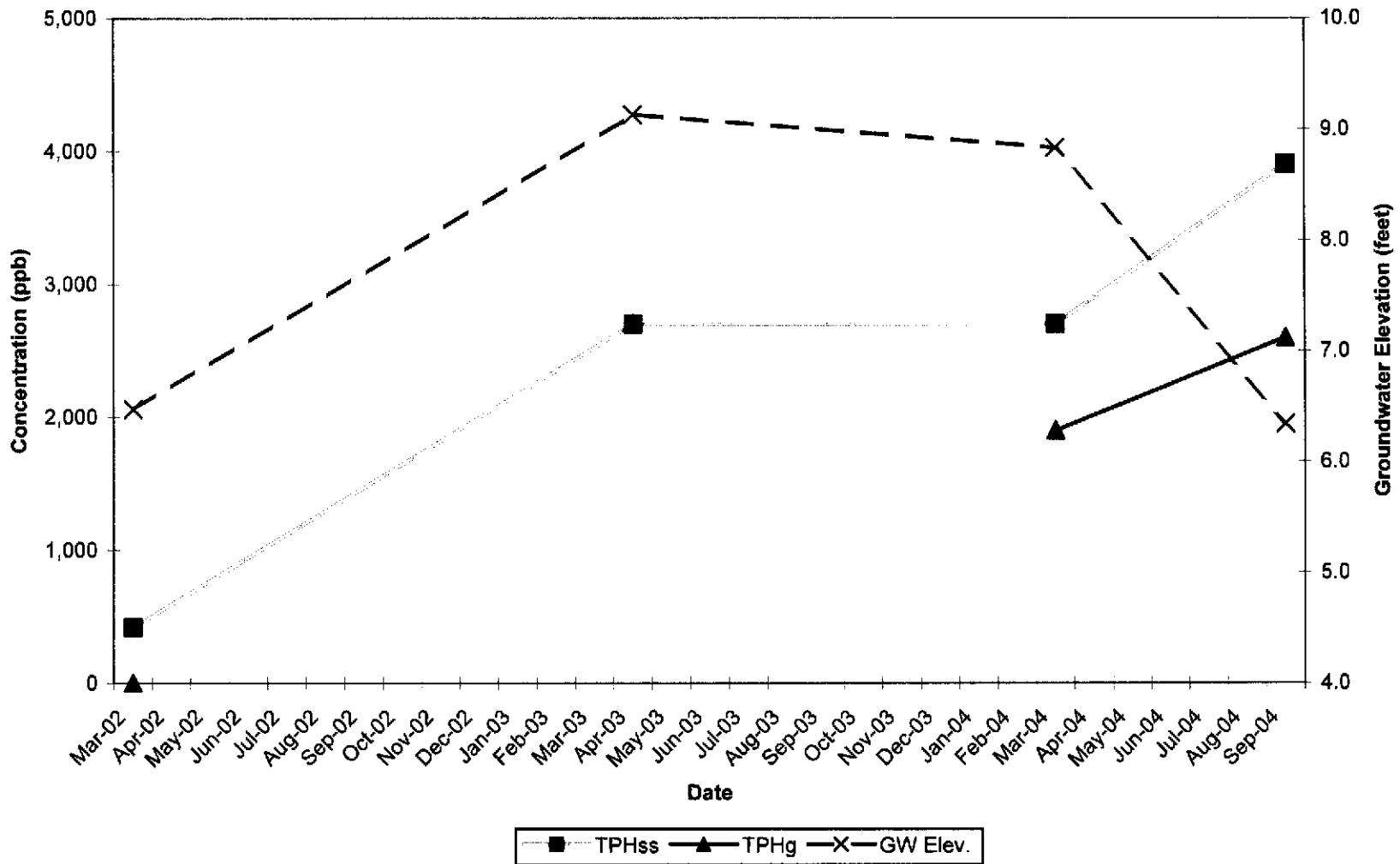




Time-Trend Plot (MW-2) 3516 Adeline Street, Salinas, CA



Time-Trend Plot (MW-3) 3516 Adeline Street, Salinas, CA





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