



WellTest, Inc.

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

April 14, 2004

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

Subject: Groundwater Testing Report [#1256] – First 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 (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 03/26/04, Welltest, Inc. was onsite to perform the following sampling tasks:

- 1) Measured depth to water surfaces [below top of casing survey mark];
- 2) Performed subjective analyses for floating product;
- 3) Purged approximately 3 well-volumes of water from each monitoring well;
- 4) Recorded electrical conductivity, pH, and temperature data during well water removal;
- 5) Allowed the wells to recover to static water level conditions [at least 80% recovery];
- 6) Collected groundwater samples; and
- 7) 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:

- 1) Total Petroleum Hydrocarbons as Stoddard Solvent (TPHss) by EPA Method 8015Cm;
- 2) 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.

Groundwater Monitoring Specialists

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.

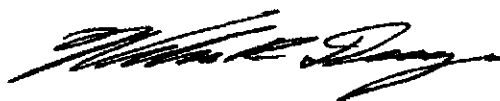
- 1) TPHss (Stoddard Solvent) in Groundwater. Up to 30,000 ug/L of TPHss was detected in the groundwater samples submitted [sample W-MW-1 from well MW-1].
- 2) Benzene, Toluene, Ethylbenzene, and Xylene in Groundwater. Of all the BTEX compounds, only xylenes [up to 4.3 ug/L in MW-3] were detected in any of the groundwater samples tested for this phase of work.
- 3) MTBE in Groundwater. Up to 5.4 ug/L of MTBE was detected in the groundwater samples from the wells tested [sample W-MW-2 from well MW-2] by EPA Method SW8021B.

CONCLUSIONS

- 1) Groundwater Flow Direction & Gradient. The direction of groundwater flow was not calculated due to unstable water levels after purging each of the wells.
- 2) Groundwater Quality within the Industrial Well. Groundwater quality within the samples collected from the onsite industrial well on 03/26/04 did contain reportable levels of TPHss, and TPHg [200 ug/L of TPHg and 500ug/L of TPHss].
- 3) 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 03/26/04 have been impacted by TPHss above the taste-threshold standard for TPHss (>500 ug/L). Trace levels of MTBE were detected in the sample from well MW-2.

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.

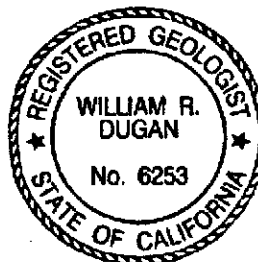


Table 1. Groundwater Sampling and Monitoring Data

- Figure 1. Site Vicinity/Topographic Map
Figure 2. Generalized Site Map
Figure 3. Groundwater Chemistry Map (03/26/04)

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.

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

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

Well Number	Date	TPHss ug/L	TPHg ug/L	B ug/L	T ug/L	E ug/L	X ug/L	MTBE ug/L	MTBE* ug/L	1,2-DCB ug/L	Naph. ug/L	TOC Elev.	Depth to GW	GW Elev.
MW-1	03/22/02	11,000	nm	nm	nm	nm	nm	nm	<5.0	0.61	130	nm	8.97	nm
	04/15/03	3,900	nm	<2.5	<2.5	<2.5	3.1	8.8	nm	<1.0	100	nm	9.23	nm
	03/28/04	30,000	24,000	<50	<50	<50	<50	<500	nm	nm	nm	nm	10.32	nm
MW-2	03/22/02	170	13,000	410	1,000	210	1,100	<200	<5.0	<1.0	<10	nm	8.82	nm
	04/15/03	99	nm	<0.5	<0.5	<0.5	<0.5	10	nm	<0.5	<10	nm	8.52	nm
	03/28/04	120	93	<0.5	<0.5	<0.5	0.78	5.4	nm	nm	nm	nm	9.32	nm
MW-3	03/22/02	420	<50	<0.5	<0.5	<0.5	<0.5	<5.0	31	<1.0	<1.0	nm	10.97	nm
	04/15/03	2,700	nm	<0.5	<0.5	<0.5	<0.5	40	nm	<0.5	24	nm	8.31	nm
	03/28/04	2,700	1,900	<1.7	<1.7	<1.7	4.3	<17	nm	nm	nm	nm	8.61	nm
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
	03/28/04	500	200	<0.5	<0.5	<0.5	<0.5	<5.0	nm	nm	nm	nm	ns	nm

Notes:

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

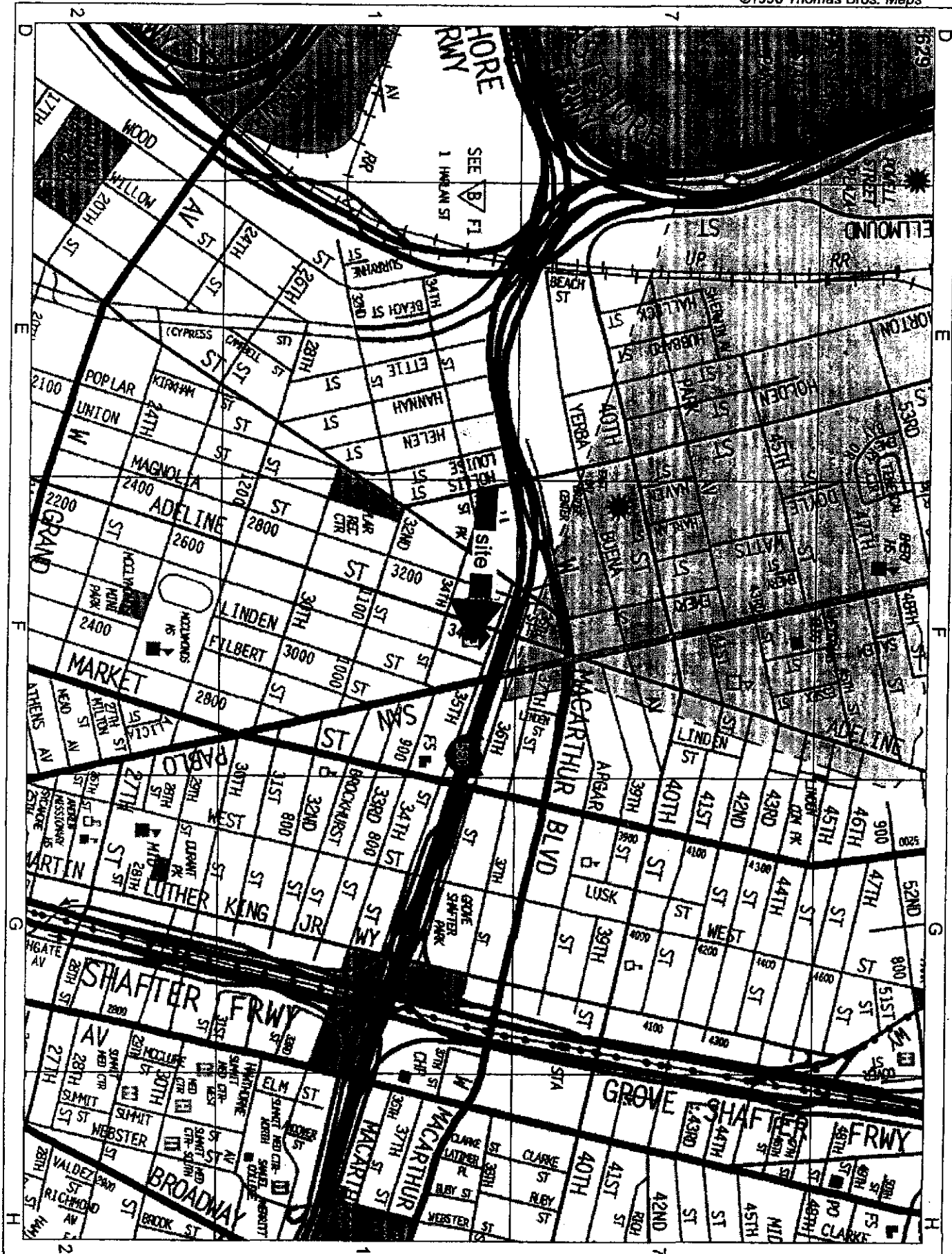
1,2-DCB = 1,2-Dichlorobenzene

Naph. = Naphthalene

FIGURES

WellTest, Inc.

1180 Delmas Avenue
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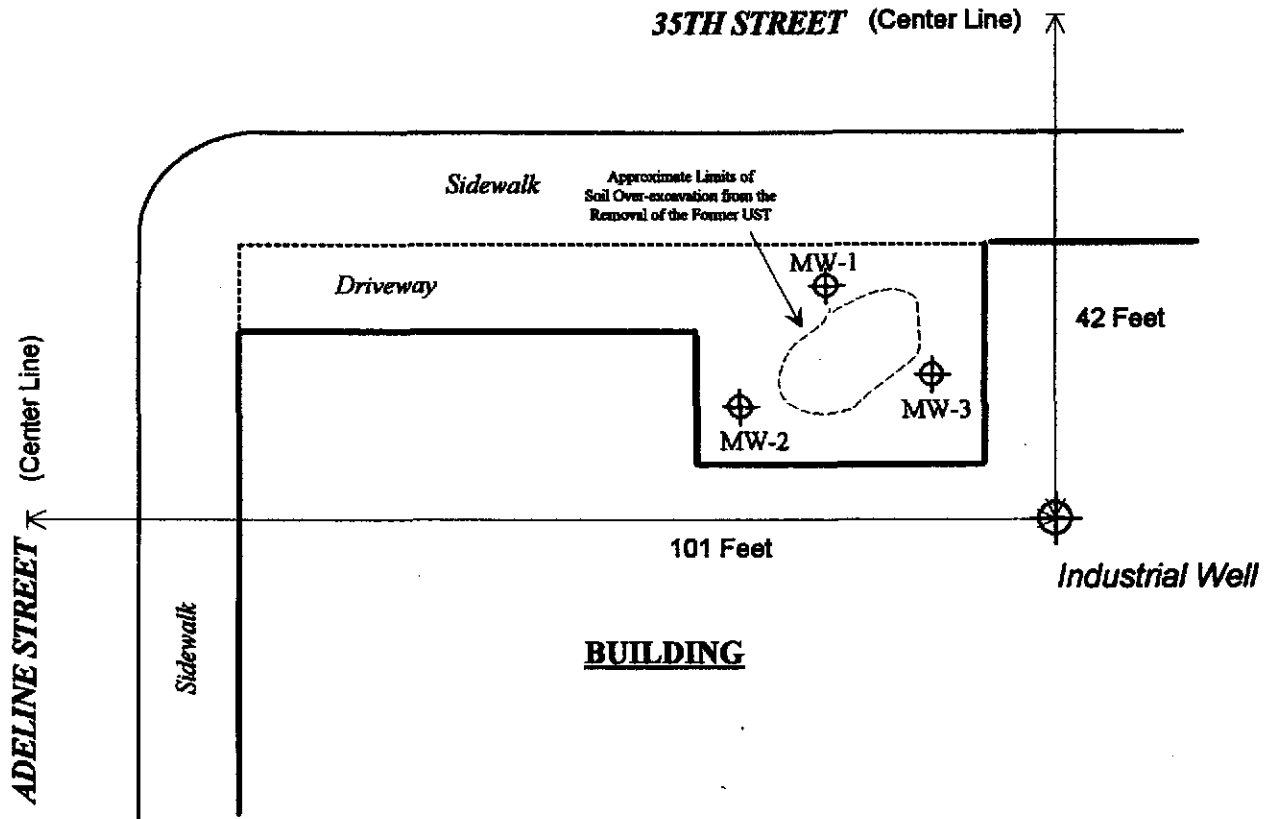


3516 Adeline St, Oakland, 94608, Page & Grid 649 F1



North

Scale: 1-inch = 20 ft.



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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San Jose, CA
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Generalized Site Map
Former City of Paris Cleaners
3516 Adeline Street
Oakland, California

FIGURE

2

Job: 1256



North

Scale: 1-inch = 20 ft.

35TH STREET

MW-1

TPHss	30,000
TPHg	24,000
MTBE	<500

Sidewalk

Driveway

MW-1

MW-3

TPHss	2,700
TPHg	1,900
MTBE	<17

MW-2

TPHss	120
TPHg	93
MTBE	5.4

MW-3

Industrial Well

ADELINE STREET

Sidewalk

BUILDING

Legend

MW-3 = Existing Monitoring Well



Approximate Scale: 1 inch = 20 feet

All levels in ug/L

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San Jose, CA
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Groundwater Chemistry Map [03/26/04]

Former City of Paris Cleaners
3516 Adeline Street
Oakland, California

FIGURE

3

Job: 1256

Attachment A

Chain of Custody Record

and

Laboratory Data Sheets

WellTest, Inc.

1180 Delmas Avenue
San Jose, CA 95125
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WTF

0403470

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
 Site Name: Former City of Paris Cleaners Case #: _____
 Site Global: _____ Log Code for
 I.D. Number: _____ WellTest, Inc. _____

CERTIFIED ANALYTICAL LABORATORY McC Campbell Analytical, Inc. E-LAP NO.: 1644

WellTest, Inc. PROJECT NAME				SITE ADDRESS		TURNAROUND TIME		STANDARD					
Former City of Paris Cleaners				1256		3516 Adeline Street Oakland CA							
SAMPLED BY:		DATE (S):		NUMBER OF CONTAINERS	SAMPLE MATRIX (Soil or WATER)	TPH-ss	STPH-MTBE by EPA	METHYL TERT-BUTYL by EPA	Xylenes by EPA	Toluene by EPA	Benzene by EPA	Ethyl Benzene by EPA	Acidified
Chris Strong		03/26/04											
SAMPLE I.D.#:	FIELD POINT NAME	DATE	TIME										
W-MW-1	MW-1	03/26/04	4:05	4	Water	X	X	X	X				yes
W-MW-2	MW-2	03/26/04	4:10	4	Water	X	X	X	X				yes
W-MW-3	MW-3	03/26/04	4:15	4	Water	X	X	X	X				yes
W-INDUSTRIAL	Industrial Well	03/26/04	4:20	4	Water	X	X	X	X				yes
							g	g	g				

COMMENTS / SPECIAL INSTRUCTIONS TO LABORATORY:

- 1) An EDF Laboratory Report is Required [When your system is established]
- 2) E-Mail report to Bill Dugan of WellTest, Inc [WellTestInc@AOL.com]
- 3) Send Invoice to WellTest, Inc., 1180 Delmas Avenue, San Jose, CA 95125

ICSP
 GOOD CONDITION
 HEAD SPACE ABSENT
 DECHLORINATED IN LAB
 APPROPRIATE CONTAINERS
 PRESERVED IN LAB
 PRESERVATION VOA O&G METALS OTHER

CONDITION OF EVIDENCE TAPE (IF APPLICABLE):

RELINQUISHED BY (SIGNATURE): WellTest, Inc. <i>CE</i>	RECEIVED BY (SIGNATURE): <i>[Signature]</i>	DATE 03/29/04	TIME 15:00
RELINQUISHED BY (SIGNATURE): <i>[Signature]</i>	RECEIVED BY (SIGNATURE): <i>[Signature]</i> 3/29	DATE 3/29	TIME 3:00
RELINQUISHED BY (SIGNATURE): <i>[Signature]</i> 3/29 4:25	RECEIVED BY (SIGNATURE): <i>[Signature]</i>	DATE 3/29	TIME 4:25



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

Well Test, Inc. 1180 Delmas Avenue San Jose, CA 95121	Client Project ID: #1256; Former City of Paris Cleaners	Date Sampled: 03/26/04
		Date Received: 03/29/04
	Client Contact: Bill Dugan	Date Reported: 04/02/04
	Client P.O.:	Date Completed: 04/02/04

WorkOrder: 0403470

April 02, 2004

Dear Bill:

Enclosed are:

- 1). the results of 4 analyzed samples from your #1256; 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.

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Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mcccampbell.com E-mail: main@mcccampbell.com

Well Test, Inc.
1180 Delmas Avenue
San Jose, CA 95121

Client Project ID: #1256; Former City of Paris Cleaners

Date Sampled: 03/26/04

Date Received: 03/29/04

Client Contact: Bill Dugan

Date Extracted: 03/31/04-04/02/04

Client P.O.:

Date Analyzed: 03/31/04-04/02/04

Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons as Stoddard Solvent*

Extraction method: SW5030B

Analytical methods: SW8015Cm

Work Order: 0403470

Lab ID	Client ID	Matrix	TPH(ss)	DF	% SS
001A	W-MW-1	W	30,000,c,h	100	86.8
002A	W-MW-2	W	120,e	1	89.7
003A	W-MW-3	W	2700,c	3.3	94.5
004A	W-Industrial	W	500,e	1	86.8

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

* 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 ~2 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.

 Angela Rydelius, Lab Manager



McC Campbell Analytical, Inc.

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 Telephone : 925-798-1620 Fax : 925-798-1622
 Website: www.mccampbell.com E-mail: main@mccampbell.com

Well Test, Inc. 1180 Delmas Avenue San Jose, CA 95121	Client Project ID: #1256; Former City of Paris Cleaners	Date Sampled: 03/26/04
	Client Contact: Bill Dugan	Date Received: 03/29/04
	Client P.O.:	Date Extracted: 03/31/04-04/02/04
		Date Analyzed: 03/31/04-04/02/04

Stoddard Solvent (C9-C12) Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction Method: SW5030B

Analytical Method: SW8021B/8015Cm

Work Order: 0403470

Lab ID	0403470-001A	0403470-002A	0403470-003A	0403470-004A	Reporting Limit for DF =1	
Client ID	W-MW-1	W-MW-2	W-MW-3	W-Industrial		
Matrix	W	W	W	W		
DF	100	1	3.3	1		

Compound	Concentration				ug/kg	µg/L
TPH(g)	24,000	93	1900	200	NA	50
TPH(ss)	30,000	120	2700	500	NA	50
MTBE	ND<500	5.4	ND<17	ND	NA	5.0
Benzene	ND<50	ND	ND<1.7	ND	NA	0.5
Toluene	ND<50	ND	ND<1.7	ND	NA	0.5
Ethylbenzene	ND<50	ND	ND<1.7	ND	NA	0.5
Xylenes	ND<50	0.76	4.3	ND	NA	0.5

Surrogate Recoveries (%)

%SS:	86.8	89.7	94.5	86.8	
Comments	e,h	c	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 ~2 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.



QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0403470

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		BatchID: 10940			Spiked Sample ID: 0403467-010A			
	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) [‡]	ND	60	98.7	98.1	0.559	103	99.8	2.68	70	130
MTBE	ND	10	108	108	0	98.4	108	9.76	70	130
Benzene	ND	10	111	115	3.27	110	115	4.50	70	130
Toluene	ND	10	103	107	3.45	105	112	6.04	70	130
Ethylbenzene	ND	10	110	112	2.27	109	112	2.66	70	130
Xylenes	ND	30	100	100	0	96.7	100	3.39	70	130
%SS:	89.0	10	101	104	2.91	101	104	2.31	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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = 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.

McC Campbell Analytical, Inc.



110 Second Avenue South, #D7
 Pacheco, CA 94553-5560
 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0403470

Report to:

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

TEL: 408-287-2175
 FAX: 408-287-2176
 ProjectNo: #1256; Former City of Paris Cleaners
 PO:

Bill to:

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

Requested TAT: 5 days

Date Received: 3/29/04

Date Printed: 3/29/04

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)															
					1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
0403470-001	W-MW-1	Water	3/26/04 4:05:00 PM	<input type="checkbox"/>	A	A														
0403470-002	W-MW-2	Water	3/26/04 4:10:00 PM	<input type="checkbox"/>	A															
0403470-003	W-MW-3	Water	3/26/04 4:15:00 PM	<input type="checkbox"/>	A															
0403470-004	W-Industrial	Water	3/26/04 4:20:00 PM	<input type="checkbox"/>	A															

Test Legend:

1	G-MBTEX_W	2	PREDF REPORT	3		4		5	
6		7		8		9		10	
11		12		13		14		15	

Prepared by: Melissa Valles

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.



McC Campbell Analytical, Inc.

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Telephone : 925-798-1620 Fax : 925-798-1622
Website: www.mccampbell.com E-mail: main@mccampbell.com

INVOICE for ANALYTICAL SERVICES

Project Name: #1256; Former City of Paris Cleaners
PO Number: N/A
Date Sampled: 3/26/04
Date Received: 3/29/04

Invoice N°: 0403470

INV DATE: *April 02, 2004*
Print DATE: *April 02, 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
Tests:						
TPH(g) + MBTEX	5 days	Water	4	1	\$45.00	\$180.00
Miscellaneous:						
EDF Report			1	1	\$25.00	\$25.00
SubTotal:						\$205.00

Invoice Total: \$205.00

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
(408) 287-2175
(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

WellTest, Inc.

Subsurface Environmental Sampling

1180 Delmas Avenue
San Jose, CA 95125
Lic. #: R.G. 6253

Tel. (408) 287-2175
Fax. (408) 287-2176
Mobile (408) 460-1884

Groundwater Monitoring Record

Technician Initials C.S.

- Initial Groundwater Data Event
- Monthly Groundwater Data Event
- Quarterly Groundwater Data Event
- Biannual Groundwater Data Event
- Annual Groundwater Data Event

Site Name City of Paris
Address 3516 Adeline Street, Oakland
Date 3/26/04 Well I.D. MW-1
Field Crew C. Strong
Task Well Gauging Well Sampling Product Meas.

Wellhead Inspection

- Well locked?
- Well Cap need replacement?

Pump Intake
Depth (feet BTOC) N/A

Purge Method Disposable Bailer PVC Bailer

- Electric Submersible Pump 12-Volt System (2"/4")
- Electric Submersible Pump Red-flo System (2"/4")
- Peristaltic Pump Other _____

Purge Volume Calculations

Total Depth of well 29.55 ft
Depth to water 10:32 ft
Height of Water in well 19.23 ft

19.23 ft X $\begin{matrix} 2\text{-inch Casing} = 0.17 \text{ gal/ft} \\ 4\text{-inch casing} = 0.67 \text{ gal/ft} \\ 5\text{-inch casing} = 1.02 \text{ gal/ft} \\ 6\text{-inch casing} = 1.47 \text{ gal/ft} \end{matrix}$ = 3.27 gal
Height of Water in well Casing
3.27 gal X 3 = 9.81 gal
One Well Volume Number of Target Well Volumes Target Purge Volume

DTW Stabilization Log

Pre-Purge

TIME	DTW (ft) BTOC
2:32	Open Well
2:35	10.74
2:40	10.50
2:44	10:32

Post-Purge

TIME	DTW (ft) BTOC
3:53	10.32
4:07	Close Well

TIME	GALLONS	Purge Status	D.O. [mg/L]	O.R.P. [uS]	pH	EH [uS]	TEMP. C	Turbidity N.T.U or Description	DTW (ft) BTOC
2:44	0 - Static	Pre-Purge							10.32
3:39	1	Purging			7.11	712	16.5		
3:46	6	Purging			7.10	708	16.5		
3:51	11	Purging			7.04	705	16.2		
		Purging							
		Purging							
		Purging							
3:53		Collect Sample							10.32

80% Recovery: (H x 0.2) + DTW = 14.17

Sample Collection: Disposable Bailer No Product Odor Product Odor Stainless-Steel Bailer
Approximate Sample Depth: 10.32 [ft btoC] at air/water interface

Sample Handling: Samples placed in iced storage.

Purge Water Status: Placed in 55-Gal. Drum Put into treatment system Placed in Holding Tank on truck

Sample Containers: 40 ml VOA vials 4
 1-liter amber glass
 16-oz plastic bottle

WellTest, Inc.

Subsurface Environmental Sampling

1180 Delmas Avenue
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Lic. #: R.G. 6253

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Mobile (408) 460-1884

Groundwater Monitoring Record

Technician Initials C.S.

- Initial Groundwater Data Event
- Monthly Groundwater Data Event
- Quarterly Groundwater Data Event
- Biannual Groundwater Data Event
- Annual Groundwater Data Event

Site Name City of Paris
Address 3516 Adeline St., Oakland
Date 3/26/04 Well I.D. MW-2
Field Crew C. Strong
Task Well Gauging Well Sampling Product Meas.

Wellhead Inspection

- Well locked?
- Well Cap need replacement?

Pump Intake
Depth (feet BTOC) N/A

Purge Method Disposable Bailer PVC Bailer
 Electric Submersible Pump 12-Volt System (2" / 4")
 Electric Submersible Pump Red-flo System (2" / 4")
 Peristaltic Pump Other _____

Purge Volume Calculations

Total Depth of well	<u>29.50</u> ft
Depth to water	<u>9.32</u> ft
Height of Water in well	<u>20.18</u> ft

$20.18 \text{ ft} \times \begin{matrix} 2\text{-inch casing} = 0.17 \text{ gal/ft} \\ 4\text{-inch casing} = 0.67 \text{ gal/ft} \\ 5\text{-inch casing} = 1.02 \text{ gal/ft} \\ 6\text{-inch casing} = 1.47 \text{ gal/ft} \end{matrix} = \underline{3.43} \text{ gal}$
 Height of Water in well casing \times One Well Volume = Target Purge Volume

$3.43 \text{ gal} \times 3 = \underline{10.29} \text{ gal}$
 One Well Volume \times Number of Target Well Volumes

DTW Stabilization Log

Pre-Purge		Post-Purge	
TIME	DTW (ft) BTOC	TIME	DTW (ft) BTOC
2:31	Open Well	3:34	9.52
2:34	9.57		
2:38	9.53		
2:43	9.50		
2:48	9.37		
2:56	9.32		
		4:15	Close Well

TIME	GALLONS	Purge Status	D.O. (mg/L)	O.R.P. (uS)	pH	EH (uS)	TEMP. C	Turbidity N.T.U or Description	DTW (ft) BTOC
2:56	0 - Static	Pre-Purge							9.32
3:20	1	Purging			7.15	682	15.8		—
3:26	5	Purging			7.12	675	15.7		—
3:32	10.5	Purging			7.08	692	15.2		—
		Purging							—
		Purging							—
		Purging							—
3:34	—	Collect Sample							9.52

80% Recovery: $(H \times 0.2) + \text{DTW} = 13.36$

Sample Collection: Disposable Bailer No Product Odor
 PVC Bailer Product Odor
 Stainless-Steel Bailer

Approximate Sample Depth: 9.52 (ft btoC) at air/water interface

Sample Handling: Samples placed in iced storage.

Purge Water Status: Placed in 55-Gal. Drum
 Put into treatment system
 Placed in Holding Tank on truck

Sample Containers:
 40 ml VOA vials 4
 1-liter amber glass —
 16-oz plastic bottle —

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WellTest, Inc.

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Groundwater Monitoring Record

Technician Initials C.S.

- Initial Groundwater Data Event
- Monthly Groundwater Data Event
- Quarterly Groundwater Data Event
- Biannual Groundwater Data Event
- Annual Groundwater Data Event

Site Name City of Paris
Address 3516 Adeline St, Oakland
Date 3/26/04 Well I.D. MW- 3
Field Crew C. Strong
Task Well Gauging Well Sampling Product Meas.

Wellhead Inspection

- ^{yes} ^{no} Well locked?
- Well Cap need replacement?

Pump Intake
Depth (feet BTOC) N/A

Purge Method Disposable Bailer PVC Bailer

Electric Submersible Pump 12-Volt System (2"/4")

Electric Submersible Pump Red-flo System (2"/4")

Peristaltic Pump Other _____

Purge Volume Calculations

Total Depth of well 29.63 ft
Depth to water 8.61 ft
Height of Water in well 21.02 ft

21.02 ft x $\begin{matrix} 2\text{-inch Casing} = 0.17 \text{ gal/ft} \\ 4\text{-inch casing} = 0.67 \text{ gal/ft} \\ 5\text{-inch casing} = 1.02 \text{ gal/ft} \\ 6\text{-inch casing} = 1.47 \text{ gal/ft} \end{matrix}$ = 3.57 gal
One Well Volume

3.57 gal x $\frac{3}{\text{Number of Target Well Volumes}}$ = 10.71 gal
Target Purge Volume

DTW Stabilization Log

Pre-Purge

TIME	DTW (ft) BTOC
2:30	Open Well
2:50	8.61
3:00	8.61

Post-Purge

TIME	DTW (ft) BTOC
3:10	8.61
3:16	8.61
4:20	Close Well

TIME	GALLONS	Purge Status	D.O. (mg/L)	O.R.P. (uS)	pH	EH (uS)	TEMP. C	Turbidity N.T.U or Description	DTW (ft) BTOC
3:00	0 - Static	Pre-Purge							8.61
3:02	1	Purging			6.97	582	15.6		
3:10	5	Purging			6.82	573	15.6		
3:15	11	Purging			6.80	571	15.5		
		Purging							
		Purging							
		Purging							
3:16		Collect Sample							8.61

80% Recovery: (H x 0.2) + DTW = 12.81

Sample Collection: Disposable Bailer No Product Odor
 PVC Bailer Product Odor
 Stainless-Steel Bailer

Approximate Sample Depth: 8.61 (ft btoc) at air/water interface

Sample Handling: Samples placed in iced storage.

Sample Containers:

- Placed in 55-Gal. Drum
- Put into treatment system
- Placed in Holding Tank on truck

- 40 ml VOA vials 4
- 1-liter amber glass _____
- 16-oz plastic bottle _____

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