

WellTest, Inc.

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

MAY 08 2002

April 25, 2002

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

Subject: Groundwater Testing Report [#0458] – First Quarter 2002

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, California (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 redevelopment of three groundwater monitoring wells (MW-1, MW-2, and MW-3), 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 03/22/02, 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) Redeveloped [purged approximately 10 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 8015;
- 2) Volatile Halocarbons by EPA Method 601/8010;
- 3) Volatile Organics by EPA Method 8260 by EPA Test Methods 8260;
- 4) And Semi-Volatile Organics by EPA Method 625/3510/8270/3550.

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 11,000 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. BTEX compounds were not detected in any of the groundwater samples tested for this phase of work.
- 3) MTBE in Groundwater. Up to 31 ug/L of MTBE was detected in the groundwater samples from the wells tested [sample W-MW-3 from well MW-3] by EPA Method 8260.
- 4) 1,2-DCB (1,2-Dichlorobenzene) in Groundwater. Up to 0.61 ug/L of 1,2-DCB was detected in the groundwater samples from the wells tested [sample W-MW-1 from well MW-1] by EPA Method 601 or 8010.
- 5) Naphthalene in Groundwater. Up to 130 ug/L was detected in the groundwater samples from the wells tested [sample W-MW-1 from well MW-1] by EPA Method 8270.

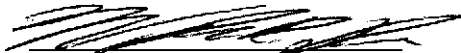
CONCLUSIONS

- 1) Groundwater Flow Direction & Gradient. The direction of groundwater flow was calculated to be towards the southeast, with a slope of 0.14 ft/ft, based on the 03/22/02 measurements [see Figure 3].
- 2) Groundwater Quality within the Industrial Well. Groundwater quality within the samples collected from the onsite industrial well on 03/22/02 did not contain reportable levels of TPHss, Volatile Halocarbons, Semi-Volatile Organics, and Volatile Organics.
- 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 03/22/02 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 wells MW-2 and MW-3. Trace levels of 1,2-DCB and Naphthalene were additionally detected in the sample from well MW-1.

Thank you for the opportunity to provide the sampling services for this phase of work at the site. Please call if we can be of further assistance.

Sincerely,

WellTest, Inc.



William R. Dugan, R.G.
Registered Geologist #6253
WellTest, Inc. Sampling Manager

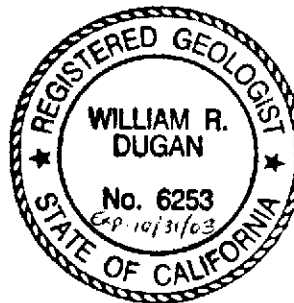


Table 1.	Summary of Groundwater Data from Monitoring Wells
Figure 1.	Site Vicinity/Topographic Map
Figure 2.	Generalized Site Map
Figure 3.	Groundwater Elevation Map
Figure 4.	Groundwater Chemistry Map

WellTest, Inc.

Report #0458

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
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Table 1
Groundwater Monitoring Data
City of Paris Cleaners
3516 Adeline Street
Oakland, CA
[03/22/02]

<i>WellTest, Inc.</i> Field Point Name	<i>WellTest, Inc.</i> Groundwater Sample I.D.	EPA Method	EPA Method	EPA Method	EPA Method
		8015	601/8010	625/ 8270	8260
		TPHss	1,2-DCB	Naph.	MTBE
		<i>ug/L</i>	<i>ug/L</i>	<i>ug/L</i>	<i>ug/L</i>
MW-1	W-MW-1	11,000	0.61	130	<5.0
MW-2	W-MW-2	170	<1.0	<10	5.0
MW-3	W-MW-3	3,100	<1.0	<50	31
INDUSTRIAL Well	W-INDUSTRIAL	<50	<1.0	<50	<1.0

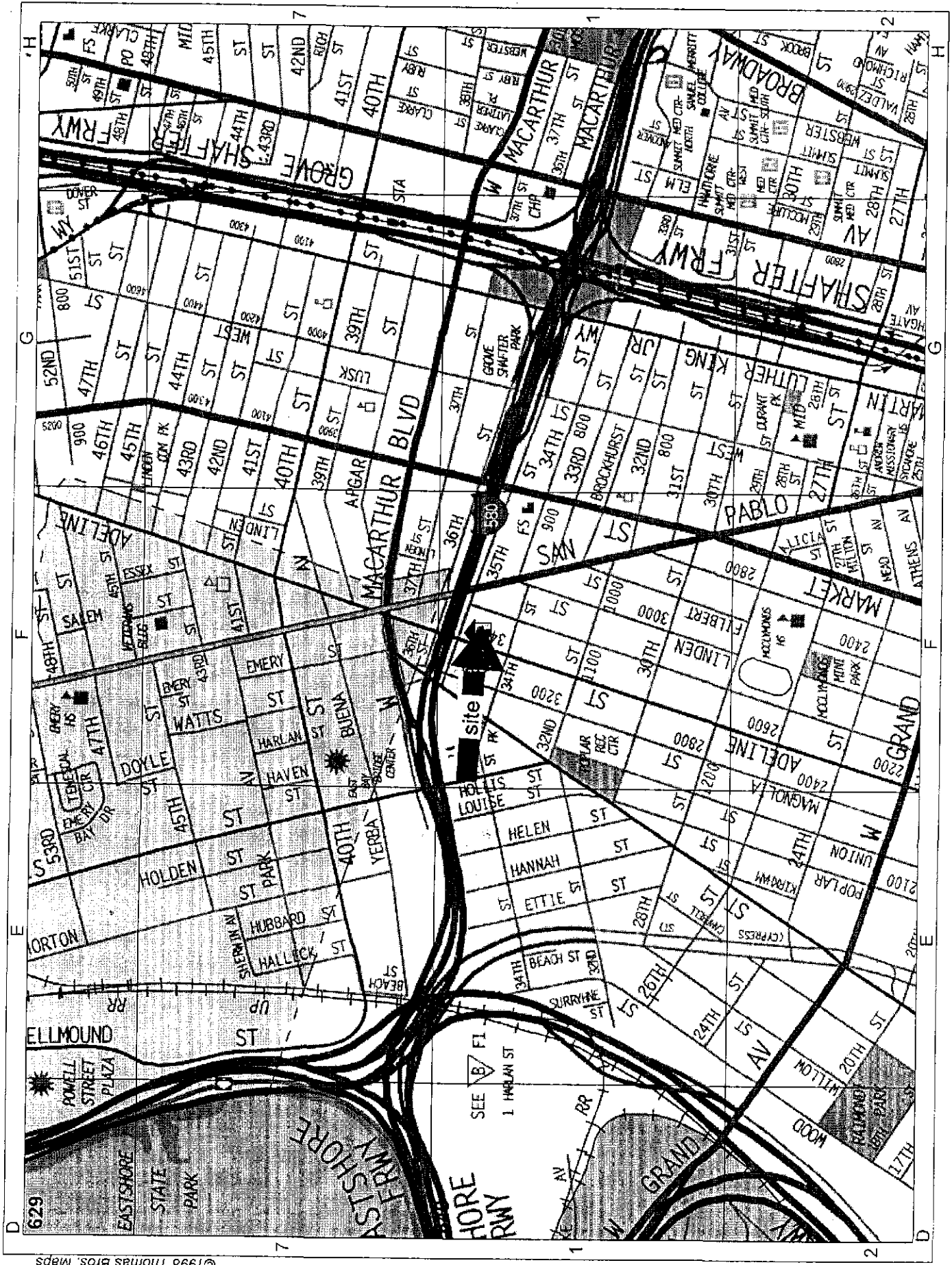
TPHss = Total Petroleum Hydrocarbons as Stoddard Solvent
 1,2-DCB = 1,2-Dichlorobenzene
 MTBE = Methyl tert-Butyl Ether
 Naph. = Naphthalene

All other EPA Test Method 601 compounds not detected
 All other EPA Test Method 625 compounds not detected
 ug/L - parts per billion (ppb)

FIGURES

WellTest, Inc.

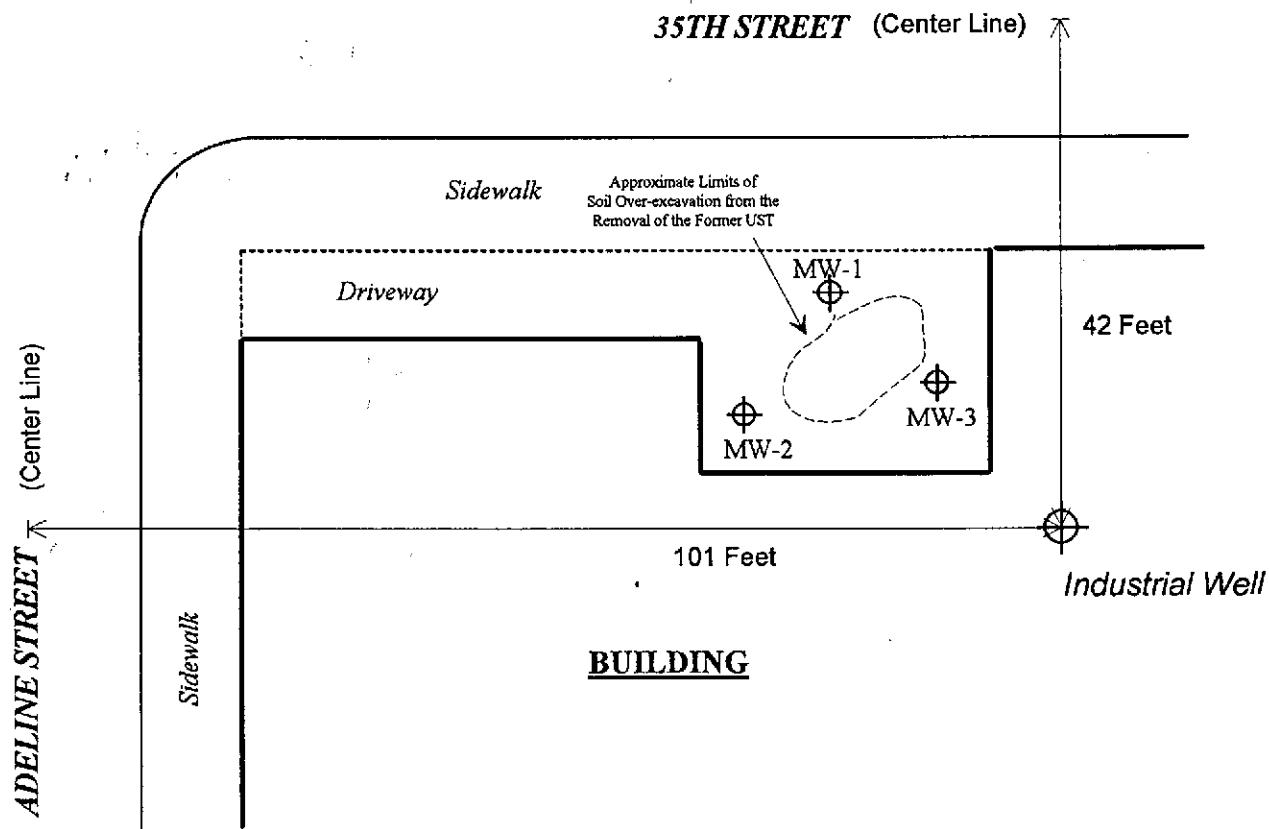
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North

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

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

FIGURE

2

Job: 0458

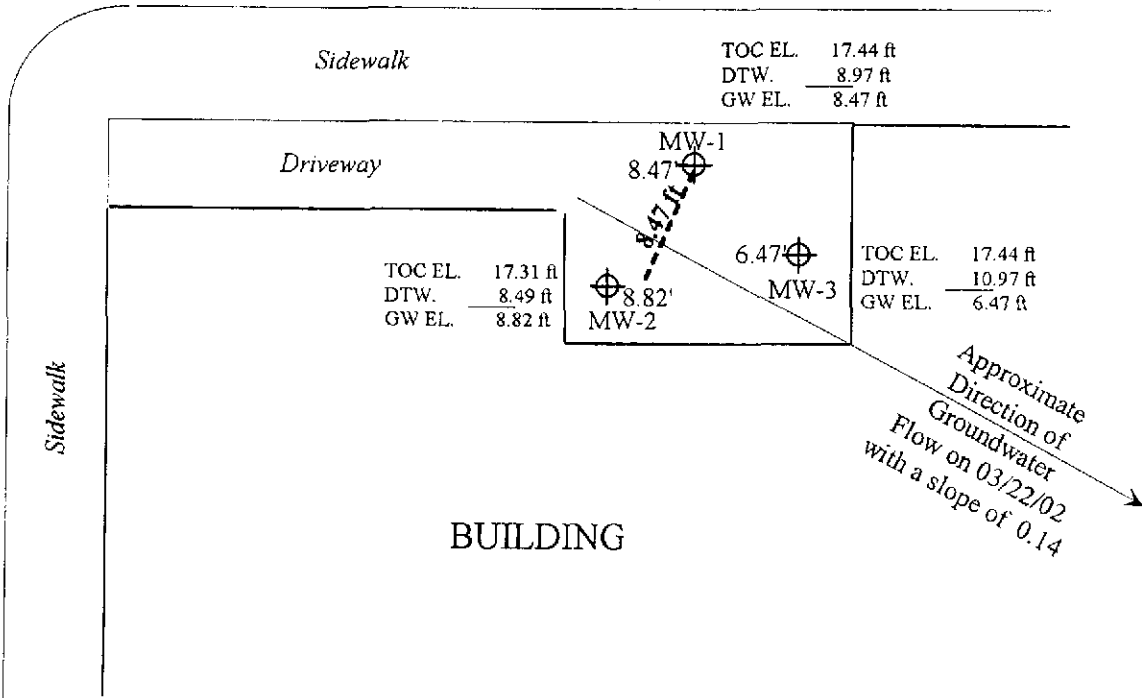


North

Scale: 1-inch = 20 ft.

35TH STREET

ADELINE STREET



Legend

6.34 = Groundwater Elevation in feet MSL

--- = Line of potential equal elevation of groundwater in feet

MW-3 = Existing Monitoring Well



Approximate Scale: 1 inch = 20 feet

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Groundwater Elevation Map
Former City of Paris Cleaners
3516 Adeline Street
Oakland, California

FIGURE

3

Job: 0458

Attachment A

Chain of Custody Record

and

Laboratory Data Sheets

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McCAMPBELL ANALYTICAL INC.

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

WellTest, Inc. 1180 Delmas Avenue San Jose, CA 95125	Client Project ID: #0458; Former City of Paris Cleaners	Date Sampled: 03/22/02
		Date Received: 03/22/02
	Client Contact: Bill Dugan	Date Extracted: 03/22/02
	Client P.O:	Date Analyzed: 03/22/02

03/29/02

Dear Bill:

Enclosed are:

- 1). the results of 4 samples from your #0458; 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. McCampbell 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,

Edward Hamilton, Lab Director



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	Client Contact: Bill Dugan	Date Received: 03/22/02
	Client P.O:	Date Extracted: 03/22-03/26/02
		Date Analyzed: 03/22-03/26/02

Volatile Halocarbons

EPA method 601 or 8010

Lab ID	0203418-001	0203418-002	0203418-003	0203418-004
Client ID	W-MW-1	W-MW-2	W-MW-3	W-INDUSTRIAL
Matrix	W	W	W	W
Compound	Concentration			
Bromodichloromethane	ND	ND	ND	ND
Bromoform ^(b)	ND	ND	ND	ND
Bromomethane	ND	ND	ND	ND
Carbon Tetrachloride ^(c)	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND
Chloroethane	ND	ND	ND	ND
2-Chloroethyl Vinyl Ether ^(d)	ND	ND	ND	ND
Chloroform ^(e)	ND	ND	ND	ND
Chloromethane	ND	ND	ND	ND
Dibromochloromethane	ND	ND	ND	ND
1,2-Dichlorobenzene	0.61	ND	ND	ND
1,3-Dichlorobenzene	ND	ND	ND	ND
1,4-Dichlorobenzene	ND	ND	ND	ND
Dichlorodifluoromethane	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND
1,2-Dichloroethane	ND	ND	ND	ND
1,1-Dichloroethene	ND	ND	ND	ND
cis 1,2-Dichloroethene	ND	ND	ND	ND
trans 1,2-Dichloroethene	ND	ND	ND	ND
1,2-Dichloropropane	ND	ND	ND	ND
cis 1,3-Dichloropropene	ND	ND	ND	ND
trans 1,3-Dichloropropene	ND	ND	ND	ND
Methylene Chloride ^(f)	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND
Tetrachloroethene	ND	ND	ND	ND
1,1,1-Trichloroethane	ND	ND	ND	ND
1,1,2-Trichloroethane	ND	ND	ND	ND
Trichloroethene	ND	ND	ND	ND
Trichlorofluoromethane	ND	ND	ND	ND
Vinyl Chloride ^(g)	ND	ND	ND	ND
% Recovery Surrogate	98	97	102	97
Comments	h		h	

* water and vapor samples and all TCLP & SPLP extracts are reported in ug/L, soil and sludge samples in ug/kg, wipe samples in ug/wipe
 Reporting limit unless otherwise stated: water/TCLP/SPLP extracts, ND<0.5ug/L; soils and sludges, ND<5ug/kg; wipes, ND<0.2ug/wipe
 ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) tribromomethane; (c) tetrachloromethane; (d) (2-chloroethoxy) ethene; (e) trichloromethane; (f) dichloromethane; (g) chloroethene; (h) a lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content.

DHS Certification No. 1644

Edward Hamilton, Lab Director



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WellTest, Inc. 1180 Delmas Avenue San Jose, CA 95125	Client Project ID: #0458; Former City of Paris Cleaners	Date Sampled: 03/22/02
	Client Contact: Bill Dugan	Date Received: 03/22/02
	Client P.O:	Date Extracted: 03/22/02
		Date Analyzed: 03/23/02

Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Lab ID		0203418-001					
Client ID		W-MW-1					
Matrix		W					
Compound	Concentration*	Reporting Limit		Compound	Concentration*	Reporting Limit	
		W	S			W	S
Acenaphthene	ND<50	10	0.33	Di-n-octyl Phthalate	ND<50	10	0.33
Acenaphthylene	ND<50	10	0.33	1,2-Diphenylhydrazine	ND<50	10	0.33
Anthracene	ND<50	10	0.33	Fluoranthene	ND<50	10	0.33
Benzidine	ND<250	50	1.6	Fluorene	ND<50	10	0.33
Benzoic Acid	ND<250	50	1.6	Hexachlorobenzene	ND<50	10	0.33
Benzo(a)anthracene	ND<50	10	0.33	Hexachlorobutadiene	ND<50	10	0.33
Benzo(b)fluoranthene	ND<50	10	0.33	Hexachlorocyclopentadiene	ND<250	50	1.6
Benzo(k)fluoranthene	ND<50	10	0.33	Hexachloroethane	ND<50	10	0.33
Benzo(g,h,i)perylene	ND<50	10	0.33	Indeno(1,2,3-cd)pyrene	ND<50	10	0.33
Benzo(a)pyrene	ND<50	10	0.33	Isophorone	ND<50	10	0.33
Benzyl Alcohol	ND<100	20	0.66	2-Methylnaphthalene	ND<50	10	0.33
Bis(2-chloroethoxy)methane	ND<50	10	0.33	2-Methylphenol (o-Cresol)	ND<50	10	0.33
Bis(2-chloroethyl) Ether	ND<50	10	0.33	3 &/or 4-Methylphenol (m &/or p-Cresol)	ND<50	10	0.33
Bis(2-chloroisopropyl)Ether	ND<50	10	0.33	Naphthalene	130	10	0.33
Bis(2-ethylhexyl) Phthalate	ND<50	10	0.33	2-Nitroaniline	ND<250	50	1.6
4-Bromophenyl Phenyl Ether	ND<50	10	0.33	3-Nitroaniline	ND<250	50	1.6
Butylbenzyl Phthalate	ND<50	10	0.33	4-Nitroaniline	ND<250	50	1.6
4-Chloroaniline	ND<100	20	0.66	2-Nitrophenol	ND<250	50	1.6
4-Chloro-3-methylpheno ^l	ND<50	10	0.33	4-Nitrophenol	ND<250	50	1.6
2-Chloronaphthalene	ND<50	10	0.33	Nitrobenzene	ND<50	10	0.33
2-Chlorophenol	ND<50	10	0.33	N-Nitrosodiphenylamine	ND<50	10	0.33
4-Chlorophenyl Phenyl Ether	ND<50	10	0.33	N-Nitrosodi-n-propylamine	ND<50	10	0.33
Chrysene	ND<50	10	0.33	Pentachlorophenol	ND<250	50	1.6
Dibenzo(a,h)anthracene	ND<50	10	0.33	Phenanthrene	ND<50	10	0.33
Dibenzofuran	ND<50	10	0.33	Phenol	ND<50	10	0.33
Di-n-butyl Phthalate	ND<50	10	0.33	Pyrene	ND<50	10	0.33
1,2-Dichlorobenzene	ND<50	10	0.33	1,2,4-Trichlorobenzene	ND<50	10	0.33
1,3-Dichlorobenzene	ND<50	10	0.33	2,4,5-Trichlorophenol	ND<50	10	0.33
1,4-Dichlorobenzene	ND<50	10	0.33	2,4,6-Trichlorophenol	ND<50	10	0.33
3,3-Dichlorobenzidine	ND<100	20	0.66				
2,4-Dichlorophenol	ND<50	10	0.33	Comments:h			
Diethyl Phthalate	ND<50	10	0.33				
2,4-Dimethylphenol	ND<50	10	0.33	Surrogate Recoveries (%)			
Dimethyl Phthalate	ND<50	10	0.33	2-Fluorophenol			---
4,6-Dinitro-2-methylphenol	ND<250	50	1.6	Phenol-d5			---
2,4-Dinitrophenol	ND<250	50	1.6	Nitrobenzene-d5			---
2,4-Dinitrotoluene	ND<50	10	0.33	2-Fluorobiphenyl			55
2,6-Dinitrotoluene	ND<50	10	0.33	2,4,6-Tribromophenol			---
				p-Terphenyl-d14			52

*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

* surrogate diluted out of range

h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content

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WellTest, Inc. 1180 Delmas Avenue San Jose, CA 95125	Client Project ID: #0458; Former City of Paris Cleaners	Date Sampled: 03/22/02
	Client Contact: Bill Dugan	Date Received: 03/22/02
	Client P.O:	Date Extracted: 03/22/02
		Date Analyzed: 03/22/02

Volatile Organics By GC/MS

EPA method 8260

Lab ID	0203418-001
Client ID	W-MW-1
Matrix	W

Compound	Concentration*	Reporting Limit		Compound	Concentration*	Reporting Limit	
		W	S			W	S
Acetone ^(b)	---	5.0	25	trans-1,3-Dichloropropene	---	1.0	5.0
Benzene	ND<5.0	1.0	5.0	Ethylene dibromide	---	1.0	5.0
Bromobenzene	---	1.0	5.0	Ethylbenzene	ND<5.0	1.0	5.0
Bromochloromethane	---	1.0	5.0	Hexachlorobutadiene	---	5.0	25
Bromodichloromethane	---	1.0	5.0	Iodomethane	---	1.0	5.0
Bromoform	---	1.0	5.0	Isopropylbenzene	---	1.0	5.0
Bromomethane	---	1.0	5.0	p-Isopropyl toluene	---	1.0	5.0
n-Butyl benzene	---	1.0	5.0	Methyl butyl ketone ^(d)	---	1.0	5.0
sec-Butyl benzene	---	1.0	5.0	Methylene Chloride ^(e)	---	1.0	5.0
tert-Butyl benzene	---	1.0	5.0	Methyl ethyl ketone ^(f)	---	2.0	10
Carbon Disulfide	---	1.0	5.0	Methyl isobutyl ketone ^(g)	---	1.0	5.0
Carbon Tetrachloride	---	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	ND<5.0	1.0	5.0
Chlorobenzene	---	1.0	5.0	Naphthalene	---	5.0	5.0
Chloroethane	---	1.0	5.0	n-Propyl benzene	---	1.0	5.0
2-Chloroethyl Vinyl Ether ^(c)	---	1.0	5.0	Styrene ^(k)	---	1.0	5.0
Chloroform	---	1.0	5.0	1,1,1,2-Tetrachloroethane	---	1.0	5.0
Chloromethane	---	1.0	5.0	1,1,2,2-Tetrachloroethane	---	1.0	5.0
2-Chlorotoluene	---	1.0	5.0	Tetrachloroethene	---	1.0	5.0
4-Chlorotoluene	---	1.0	5.0	Toluene ^(l)	ND<5.0	1.0	5.0
Dibromochloromethane	---	1.0	5.0	1,2,3-Trichlorobenzene	---	5.0	25
1,2-Dibromo-3-chloropropane	---	2.0	10	1,2,4-Trichlorobenzene	---	5.0	25
Dibromomethane	---	1.0	5.0	1,1,1-Trichloroethane	---	1.0	5.0
1,2-Dichlorobenzene	---	1.0	5.0	1,1,2-Trichloroethane	---	1.0	5.0
1,3-Dichlorobenzene	---	1.0	5.0	Trichloroethene	---	1.0	5.0
1,4-Dichlorobenzene	---	1.0	5.0	Trichlorofluoromethane	---	1.0	5.0
Dichlorodifluoromethane	---	1.0	5.0	1,2,3-Trichloropropane	---	1.0	5.0
1,1-Dichloroethane	---	1.0	5.0	1,2,4-Trimethylbenzene	---	1.0	5.0
1,2-Dichloroethane	---	1.0	5.0	1,3,5-Trimethylbenzene	---	1.0	5.0
1,1-Dichloroethene	---	1.0	5.0	Vinyl Acetate ^(m)	---	5.0	25
cis-1,2-Dichloroethene	---	1.0	5.0	Vinyl Chloride ⁽ⁿ⁾	---	1.0	5.0
trans-1,2-Dichloroethene	---	1.0	5.0	Xylenes, total ^(o)	ND<5.0	1.0	5.0
1,2-Dichloropropane	---	1.0	5.0	Comments: j,h			
1,3-Dichloropropane	---	1.0	5.0	Surrogate Recoveries (%)			
2,2-Dichloropropane	---	1.0	5.0	Dibromofluoromethane			94
1,1-Dichloropropene	---	1.0	5.0	Toluene-d8			93
cis-1,3-Dichloropropene	---	1.0	5.0	4-Bromofluorobenzene			88

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

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Edward Hamilton, Lab Director



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Volatile Organics By GC/MS

EPA method 8260

Lab ID	0203418-002
Client ID	W-MW-2
Matrix	W


Compound	Concentration*	Reporting Limit		Compound	Concentration*	Reporting Limit	
		W	S			W	S
Acetone ^(b)	---	5.0	25	trans-1,3-Dichloropropene	---	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	---	1.0	5.0
Bromobenzene	---	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	---	1.0	5.0	Hexachlorobutadiene	---	5.0	25
Bromodichloromethane	---	1.0	5.0	Iodomethane	---	1.0	5.0
Bromoform	---	1.0	5.0	Isopropylbenzene	---	1.0	5.0
Bromomethane	---	1.0	5.0	p-Isopropyl toluene	---	1.0	5.0
n-Butyl benzene	---	1.0	5.0	Methyl butyl ketone ^(d)	---	1.0	5.0
sec-Butyl benzene	---	1.0	5.0	Methylene Chloride ^(e)	---	1.0	5.0
tert-Butyl benzene	---	1.0	5.0	Methyl ethyl ketone ⁽ⁱ⁾	---	2.0	10
Carbon Disulfide	---	1.0	5.0	Methyl isobutyl ketone ^(j)	---	1.0	5.0
Carbon Tetrachloride	---	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	5.0	1.0	5.0
Chlorobenzene	---	1.0	5.0	Naphthalene	---	5.0	5.0
Chloroethane	---	1.0	5.0	n-Propyl benzene	---	1.0	5.0
2-Chloroethyl Vinyl Ether ^(c)	---	1.0	5.0	Styrene ^(k)	---	1.0	5.0
Chloroform	---	1.0	5.0	1,1,1,2-Tetrachloroethane	---	1.0	5.0
Chloromethane	---	1.0	5.0	1,1,2,2-Tetrachloroethane	---	1.0	5.0
2-Chlorotoluene	---	1.0	5.0	Tetrachloroethene	---	1.0	5.0
4-Chlorotoluene	---	1.0	5.0	Toluene ^(l)	ND	1.0	5.0
Dibromochloromethane	---	1.0	5.0	1,2,3-Trichlorobenzene	---	5.0	25
1,2-Dibromo-3-chloropropane	---	2.0	10	1,2,4-Trichlorobenzene	---	5.0	25
Dibromomethane	---	1.0	5.0	1,1,1-Trichloroethane	---	1.0	5.0
1,2-Dichlorobenzene	---	1.0	5.0	1,1,2-Trichloroethane	---	1.0	5.0
1,3-Dichlorobenzene	---	1.0	5.0	Trichloroethene	---	1.0	5.0
1,4-Dichlorobenzene	---	1.0	5.0	Trichlorofluoromethane	---	1.0	5.0
Dichlorodifluoromethane	---	1.0	5.0	1,2,3-Trichloropropane	---	1.0	5.0
1,1-Dichloroethane	---	1.0	5.0	1,2,4-Trimethylbenzene	---	1.0	5.0
1,2-Dichloroethane	---	1.0	5.0	1,3,5-Trimethylbenzene	---	1.0	5.0
1,1-Dichloroethene	---	1.0	5.0	Vinyl Acetate ^(m)	---	5.0	25
cis-1,2-Dichloroethene	---	1.0	5.0	Vinyl Chloride ⁽ⁿ⁾	---	1.0	5.0
trans-1,2-Dichloroethene	---	1.0	5.0	Xylenes, total ^(o)	ND	1.0	5.0
1,2-Dichloropropane	---	1.0	5.0	Comments:			
1,3-Dichloropropane	---	1.0	5.0	Surrogate Recoveries (%)			
2,2-Dichloropropane	---	1.0	5.0	Dibromofluoromethane		94	
1,1-Dichloropropene	---	1.0	5.0	Toluene-d8		91	
cis-1,3-Dichloropropene	---	1.0	5.0	4-Bromofluorobenzene		83	

* water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

 Edward Hamilton, Lab Director



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WellTest, Inc. 1180 Delmas Avenue San Jose, CA 95125	Client Project ID: #0458; Former City of Paris Cleaners	Date Sampled: 03/22/02
	Client Contact: Bill Dugan	Date Received: 03/22/02
	Client P.O:	Date Extracted: 03/22/02
		Date Analyzed: 03/22/02

Volatile Organics By GC/MS

EPA method 8260

Lab ID	0203418-003
Client ID	W-MW-3
Matrix	W

Compound	Concentration*	Reporting Limit		Compound	Concentration*	Reporting Limit	
		W	S			W	S
Acetone ^(b)	---	5.0	25	trans-1,3-Dichloropropene	---	1.0	5.0
Benzene	ND<5.0	1.0	5.0	Ethylene dibromide	---	1.0	5.0
Bromobenzene	---	1.0	5.0	Ethylbenzene	ND<5.0	1.0	5.0
Bromochloromethane	---	1.0	5.0	Hexachlorobutadiene	---	5.0	25
Bromodichloromethane	---	1.0	5.0	Iodomethane	---	1.0	5.0
Bromoform	---	1.0	5.0	Isopropylbenzene	---	1.0	5.0
Bromomethane	---	1.0	5.0	p-Isopropyl toluene	---	1.0	5.0
n-Butyl benzene	---	1.0	5.0	Methyl butyl ketone ^(d)	---	1.0	5.0
sec-Butyl benzene	---	1.0	5.0	Methylene Chloride ^(e)	---	1.0	5.0
tert-Butyl benzene	---	1.0	5.0	Methyl ethyl ketone ^(f)	---	2.0	10
Carbon Disulfide	---	1.0	5.0	Methyl isobutyl ketone ^(g)	---	1.0	5.0
Carbon Tetrachloride	---	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	31	1.0	5.0
Chlorobenzene	---	1.0	5.0	Naphthalene	---	5.0	5.0
Chloroethane	---	1.0	5.0	n-Propyl benzene	---	1.0	5.0
2-Chloroethyl Vinyl Ether ^(h)	---	1.0	5.0	Styrene ^(k)	---	1.0	5.0
Chloroform	---	1.0	5.0	1,1,1,2-Tetrachloroethane	---	1.0	5.0
Chloromethane	---	1.0	5.0	1,1,2,2-Tetrachloroethane	---	1.0	5.0
2-Chlorotoluene	---	1.0	5.0	Tetrachloroethene	---	1.0	5.0
4-Chlorotoluene	---	1.0	5.0	Toluene ^(l)	ND<5.0	1.0	5.0
Dibromochloromethane	---	1.0	5.0	1,2,3-Trichlorobenzene	---	5.0	25
1,2-Dibromo-3-chloropropane	---	2.0	10	1,2,4-Trichlorobenzene	---	5.0	25
Dibromomethane	---	1.0	5.0	1,1,1-Trichloroethane	---	1.0	5.0
1,2-Dichlorobenzene	---	1.0	5.0	1,1,2-Trichloroethane	---	1.0	5.0
1,3-Dichlorobenzene	---	1.0	5.0	Trichloroethene	---	1.0	5.0
1,4-Dichlorobenzene	---	1.0	5.0	Trichlorofluoromethane	---	1.0	5.0
Dichlorodifluoromethane	---	1.0	5.0	1,2,3-Trichloropropane	---	1.0	5.0
1,1-Dichloroethane	---	1.0	5.0	1,2,4-Trimethylbenzene	---	1.0	5.0
1,2-Dichloroethane	---	1.0	5.0	1,3,5-Trimethylbenzene	---	1.0	5.0
1,1-Dichloroethene	---	1.0	5.0	Vinyl Acetate ^(m)	---	5.0	25
cis-1,2-Dichloroethene	---	1.0	5.0	Vinyl Chloride ⁽ⁿ⁾	---	1.0	5.0
trans-1,2-Dichloroethene	---	1.0	5.0	Xylenes, total ^(o)	ND<5.0	1.0	5.0
1,2-Dichloropropane	---	1.0	5.0	Comments: h			
1,3-Dichloropropane	---	1.0	5.0	Surrogate Recoveries (%)			
2,2-Dichloropropane	---	1.0	5.0	Dibromofluoromethane		92	
1,1-Dichloropropene	---	1.0	5.0	Toluene-d8		90	
cis-1,3-Dichloropropene	---	1.0	5.0	4-Bromofluorobenzene		81	

* water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

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WellTest, Inc. 1180 Delmas Avenue San Jose, CA 95125	Client Project ID: #0458; Former City of Paris Cleaners	Date Sampled: 03/22/02
	Client Contact: Bill Dugan	Date Received: 03/22/02
	Client P.O:	Date Extracted: 03/22/02
		Date Analyzed: 03/22/02

Volatile Organics By GC/MS

EPA method 8260

Lab ID	0203418-004
Client ID	W-INDUSTRIAL
Matrix	W

Compound	Concentration*	Reporting Limit		Compound	Concentration*	Reporting Limit	
		W	S			W	S
Acetone ^(b)	---	5.0	25	trans-1,3-Dichloropropene	---	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	---	1.0	5.0
Bromobenzene	---	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	---	1.0	5.0	Hexachlorobutadiene	---	5.0	25
Bromodichloromethane	---	1.0	5.0	Iodomethane	---	1.0	5.0
Bromoform	---	1.0	5.0	Isopropylbenzene	---	1.0	5.0
Bromomethane	---	1.0	5.0	p-Isopropyl toluene	---	1.0	5.0
n-Butyl benzene	---	1.0	5.0	Methyl butyl ketone ^(d)	---	1.0	5.0
sec-Butyl benzene	---	1.0	5.0	Methylene Chloride ^(e)	---	1.0	5.0
tert-Butyl benzene	---	1.0	5.0	Methyl ethyl ketone ^(f)	---	2.0	10
Carbon Disulfide	---	1.0	5.0	Methyl isobutyl ketone ^(g)	---	1.0	5.0
Carbon Tetrachloride	---	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	ND	1.0	5.0
Chlorobenzene	---	1.0	5.0	Naphthalene	---	5.0	5.0
Chloroethane	---	1.0	5.0	n-Propyl benzene	---	1.0	5.0
2-Chloroethyl Vinyl Ether ^(h)	---	1.0	5.0	Styrene ^(k)	---	1.0	5.0
Chloroform	---	1.0	5.0	1,1,1,2-Tetrachloroethane	---	1.0	5.0
Chloromethane	---	1.0	5.0	1,1,2,2-Tetrachloroethane	---	1.0	5.0
2-Chlorotoluene	---	1.0	5.0	Tetrachloroethene	---	1.0	5.0
4-Chlorotoluene	---	1.0	5.0	Toluene ^(l)	ND	1.0	5.0
Dibromochloromethane	---	1.0	5.0	1,2,3-Trichlorobenzene	---	5.0	25
1,2-Dibromo-3-chloropropane	---	2.0	10	1,2,4-Trichlorobenzene	---	5.0	25
Dibromomethane	---	1.0	5.0	1,1,1-Trichloroethane	---	1.0	5.0
1,2-Dichlorobenzene	---	1.0	5.0	1,1,2-Trichloroethane	---	1.0	5.0
1,3-Dichlorobenzene	---	1.0	5.0	Trichloroethene	---	1.0	5.0
1,4-Dichlorobenzene	---	1.0	5.0	Trichlorofluoromethane	---	1.0	5.0
Dichlorodifluoromethane	---	1.0	5.0	1,2,3-Trichloropropane	---	1.0	5.0
1,1-Dichloroethane	---	1.0	5.0	1,2,4-Trimethylbenzene	---	1.0	5.0
1,2-Dichloroethane	---	1.0	5.0	1,3,5-Trimethylbenzene	---	1.0	5.0
1,1-Dichloroethene	---	1.0	5.0	Vinyl Acetate ^(m)	---	5.0	25
cis-1,2-Dichloroethene	---	1.0	5.0	Vinyl Chloride ⁽ⁿ⁾	---	1.0	5.0
trans-1,2-Dichloroethene	---	1.0	5.0	Xylenes, total ^(o)	ND	1.0	5.0
1,2-Dichloropropane	---	1.0	5.0	Comments:			
1,3-Dichloropropane	---	1.0	5.0	Surrogate Recoveries (%)			
2,2-Dichloropropane	---	1.0	5.0	Dibromofluoromethane		94	
1,1-Dichloropropene	---	1.0	5.0	Toluene-d8		91	
cis-1,3-Dichloropropene	---	1.0	5.0	4-Bromofluorobenzene		85	

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

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WellTest, Inc. 1180 Delmas Avenue San Jose, CA 95125	Client Project ID: #0458; Former City of Paris Cleaners	Date Sampled: 03/22/02
	Client Contact: Bill Dugan	Date Received: 03/22/02
	Client P.O:	Date Analyzed: 03/23/02
		Date Extracted: 03/22/02

Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Compound	Concentration*	Reporting Limit		Compound	Concentration	Reporting Limit	
		W	S			W	S
Acenaphthene	ND	10	0.33	Di-n-octyl Phthalate	ND	10	0.33
Acenaphthylene	ND	10	0.33	1,2-Diphenylhydrazine	ND	10	0.33
Anthracene	ND	10	0.33	Fluoranthene	ND	10	0.33
Benzidine	ND	50	1.6	Fluorene	ND	10	0.33
Benzoic Acid	ND	50	1.6	Hexachlorobenzene	ND	10	0.33
Benzo(a)anthracene	ND	10	0.33	Hexachlorobutadiene	ND	10	0.33
Benzo(b)fluoranthene	ND	10	0.33	Hexachlorocyclopentadiene	ND	50	1.6
Benzo(k)fluoranthene	ND	10	0.33	Hexachloroethane	ND	10	0.33
Benzo(g,h,i)perylene	ND	10	0.33	Indeno(1,2,3-cd)pyrene	ND	10	0.33
Benzo(a)pyrene	ND	10	0.33	Isophorone	ND	10	0.33
Benzyl Alcohol	ND	20	0.66	2-Methylnaphthalene	ND	10	0.33
Bis(2-chloroethoxy)methane	ND	10	0.33	2-Methylphenol (o-Cresol)	ND	10	0.33
Bis(2-chloroethyl) Ether	ND	10	0.33	3 &/or 4-Methylphenol (m &/or p-Cresol)	ND	10	0.33
Bis(2-chloroisopropyl)Ether	ND	10	0.33	Naphthalene	ND	10	0.33
Bis(2-ethylhexyl) Phthalate	ND	10	0.33	2-Nitroaniline	ND	50	1.6
4-Bromophenyl Phenyl Ether	ND	10	0.33	3-Nitroaniline	ND	50	1.6
Butylbenzyl Phthalate	ND	10	0.33	4-Nitroaniline	ND	50	1.6
4-Chloroaniline	ND	20	0.66	2-Nitrophenol	ND	50	1.6
4-Chloro-3-methylpheno	ND	10	0.33	4-Nitrophenol	ND	50	1.6
2-Chloronaphthalene	ND	10	0.33	Nitrobenzene	ND	10	0.33
2-Chlorophenol	ND	10	0.33	N-Nitrosodiphenylamine	ND	10	0.33
4-Chlorophenyl Phenyl Ether	ND	10	0.33	N-Nitrosodi-n-propylamine	ND	10	0.33
Chrysene	ND	10	0.33	Pentachlorophenol	ND	50	1.6
Dibenzo(a,h)anthracene	ND	10	0.33	Phenanthrene	ND	10	0.33
Dibenzofuran	ND	10	0.33	Phenol	ND	10	0.33
Di-n-butyl Phthalate	ND	10	0.33	Pyrene	ND	10	0.33
1,2-Dichlorobenzene	ND	10	0.33	1,2,4-Trichlorobenzene	ND	10	0.33
1,3-Dichlorobenzene	ND	10	0.33	2,4,5-Trichlorophenol	ND	10	0.33
1,4-Dichlorobenzene	ND	10	0.33	2,4,6-Trichlorophenol	ND	10	0.33
3,3-Dichlorobenzidine	ND	20	0.66				
2,4-Dichlorophenol	ND	10	0.33	Comments:			
Diethyl Phthalate	ND	10	0.33	Surrogate Recoveries (%)			
2,4-Dimethylphenol	ND	10	0.33	2-Fluorophenol		42	
Dimethyl Phthalate	ND	10	0.33	Phenol-d5		31	
4,6-Dinitro-2-methylphenol	ND	50	1.6	Nitrobenzene-d5		53	
2,4-Dinitrophenol	ND	50	1.6	2-Fluorobiphenyl		50	
2,4-Dinitrotoluene	ND	10	0.33	2,4,6-Tribromophenol		48	
2,6-Dinitrotoluene	ND	10	0.33	p-Terphenyl-d14		57	

*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L
 ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range

h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content

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Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Compound	Concentration*	Reporting Limit		Compound	Concentration*	Reporting Limit	
		W	S			W	S
Acenaphthene	ND<50	10	0.33	Di-n-octyl Phthalate	ND<50	10	0.33
Acenaphthylene	ND<50	10	0.33	1,2-Diphenylhydrazine	ND<50	10	0.33
Anthracene	ND<50	10	0.33	Fluoranthene	ND<50	10	0.33
Benzo(a)anthracene	ND<50	10	0.33	Fluorene	ND<50	10	0.33
Benzo(b)fluoranthene	ND<50	10	0.33	Hexachlorobenzene	ND<50	10	0.33
Benzo(k)fluoranthene	ND<50	10	0.33	Hexachlorobutadiene	ND<50	10	0.33
Benzo(g,h,i)perylene	ND<50	10	0.33	Hexachlorocyclopentadiene	ND<250	50	1.6
Benzo(a)pyrene	ND<50	10	0.33	Hexachloroethane	ND<50	10	0.33
Benzyl Alcohol	ND<100	20	0.66	Indeno(1,2,3-cd)pyrene	ND<50	10	0.33
Bis(2-chloroethoxy)methane	ND<50	10	0.33	Isophorone	ND<50	10	0.33
Bis(2-chloroethyl) Ether	ND<50	10	0.33	2-Methylnaphthalene	ND<50	10	0.33
Bis(2-chloroisopropyl)Ether	ND<50	10	0.33	2-Methylphenol (o-Cresol)	ND<50	10	0.33
Bis(2-ethylhexyl) Phthalate	ND<50	10	0.33	3 &/or 4-Methylphenol (m &/or p-Cresol)	ND<50	10	0.33
4-Bromophenyl Phenyl Ether	ND<50	10	0.33	Naphthalene	ND<50	10	0.33
Butylbenzyl Phthalate	ND<50	10	0.33	2-Nitroaniline	ND<250	50	1.6
4-Chloroaniline	ND<100	20	0.66	3-Nitroaniline	ND<250	50	1.6
4-Chloro-3-methylpheno ^l	ND<50	10	0.33	4-Nitroaniline	ND<250	50	1.6
2-Chloronaphthalene	ND<50	10	0.33	2-Nitrophenol	ND<250	50	1.6
2-Chlorophenol	ND<50	10	0.33	4-Nitrophenol	ND<250	50	1.6
4-Chlorophenyl Phenyl Ether	ND<50	10	0.33	Nitrobenzene	ND<50	10	0.33
Chrysene	ND<50	10	0.33	N-Nitrosodiphenylamine	ND<50	10	0.33
Dibenzo(a,h)anthracene	ND<50	10	0.33	N-Nitrosodi-n-propylamine	ND<50	10	0.33
Dibenzofuran	ND<50	10	0.33	Pentachlorophenol	ND<250	50	1.6
Di-n-butyl Phthalate	ND<50	10	0.33	Phenanthrene	ND<50	10	0.33
1,2-Dichlorobenzene	ND<50	10	0.33	Phenol	ND<50	10	0.33
1,3-Dichlorobenzene	ND<50	10	0.33	Pyrene	ND<50	10	0.33
1,4-Dichlorobenzene	ND<50	10	0.33	1,2,4-Trichlorobenzene	ND<50	10	0.33
3,3-Dichlorobenzidine	ND<100	20	0.66	2,4,5-Trichlorophenol	ND<50	10	0.33
2,4-Dichlorophenol	ND<50	10	0.33	2,4,6-Trichlorophenol	ND<50	10	0.33
Diethyl Phthalate	ND<50	10	0.33	Comments: j,h			
2,4-Dimethylphenol	ND<50	10	0.33	Surrogate Recoveries (%)			
Dimethyl Phthalate	ND<50	10	0.33	2-Fluorophenol			---
4,6-Dinitro-2-methylphenol	ND<250	50	1.6	Phenol-d5			---
2,4-Dinitrophenol	ND<250	50	1.6	Nitrobenzene-d5			---
2,4-Dinitrotoluene	ND<50	10	0.33	2-Fluorobiphenyl			56
2,6-Dinitrotoluene	ND<50	10	0.33	2,4,6-Tribromophenol			---
				p-Terphenyl-d14			48

*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

^a surrogate diluted out of range

h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content



McCAMPBELL ANALYTICAL INC.

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

WellTest, Inc. 1180 Delmas Avenue San Jose, CA 95125	Client Project ID: #0458; Former City of Paris Cleaners	Date Sampled: 03/22/02
	Client Contact: Bill Dugan	Date Received: 03/22/02
	Client P.O.:	Date Analyzed: 03/23/02
		Date Extracted: 03/22/02

Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Lab ID	0203418-004
Client ID	W-INDUSTRIAL
Matrix	W

Compound	Concentration*	Reporting Limit		Compound	Concentration*	Reporting Limit	
		W	S			W	S
Acenaphthene	ND<50	10	0.33	Di-n-octyl Phthalate	ND<50	10	0.33
Acenaphthylene	ND<50	10	0.33	1,2-Diphenylhydrazine	ND<50	10	0.33
Anthracene	ND<50	10	0.33	Fluoranthene	ND<50	10	0.33
Benzidine	ND<250	50	1.6	Fluorene	ND<50	10	0.33
Benzoic Acid	ND<250	50	1.6	Hexachlorobenzene	ND<50	10	0.33
Benzo(a)anthracene	ND<50	10	0.33	Hexachlorobutadiene	ND<50	10	0.33
Benzo(b)fluoranthene	ND<50	10	0.33	Hexachlorocyclopentadiene	ND<250	50	1.6
Benzo(k)fluoranthene	ND<50	10	0.33	Hexachloroethane	ND<50	10	0.33
Benzo(g,h,i)perylene	ND<50	10	0.33	Indeno(1,2,3-cd)pyrene	ND<50	10	0.33
Benzo(a)pyrene	ND<50	10	0.33	Isophorone	ND<50	10	0.33
Benzyl Alcohol	ND<100	20	0.66	2-Methylnaphthalene	ND<50	10	0.33
Bis(2-chloroethoxy)methane	ND<50	10	0.33	2-Methylphenol (o-Cresol)	ND<50	10	0.33
Bis(2-chloroethyl) Ether	ND<50	10	0.33	3 &/or 4-Methylphenol (m &/or p-Cresol)	ND<50	10	0.33
Bis(2-chloroisopropyl)Ether	ND<50	10	0.33	Naphthalene	ND<50	10	0.33
Bis(2-ethylhexyl) Phthalate	ND<50	10	0.33	2-Nitroaniline	ND<250	50	1.6
4-Bromophenyl Phenyl Ether	ND<50	10	0.33	3-Nitroaniline	ND<250	50	1.6
Butylbenzyl Phthalate	ND<50	10	0.33	4-Nitroaniline	ND<250	50	1.6
4-Chloroaniline	ND<100	20	0.66	2-Nitrophenol	ND<250	50	1.6
4-Chloro-3-methylpheno ^l	ND<50	10	0.33	4-Nitrophenol	ND<250	50	1.6
2-Chloronaphthalene	ND<50	10	0.33	Nitrobenzene	ND<50	10	0.33
2-Chlorophenol	ND<50	10	0.33	N-Nitrosodiphenylamine	ND<50	10	0.33
4-Chlorophenyl Phenyl Ether	ND<50	10	0.33	N-Nitrosodi-n-propylamine	ND<50	10	0.33
Chrysene	ND<50	10	0.33	Pentachlorophenol	ND<250	50	1.6
Dibenzo(a,h)anthracene	ND<50	10	0.33	Phenanthrene	ND<50	10	0.33
Dibenzofuran	ND<50	10	0.33	Phenol	ND<50	10	0.33
Di-n-butyl Phthalate	ND<50	10	0.33	Pyrene	ND<50	10	0.33
1,2-Dichlorobenzene	ND<50	10	0.33	1,2,4-Trichlorobenzene	ND<50	10	0.33
1,3-Dichlorobenzene	ND<50	10	0.33	2,4,5-Trichlorophenol	ND<50	10	0.33
1,4-Dichlorobenzene	ND<50	10	0.33	2,4,6-Trichlorophenol	ND<50	10	0.33
3,3-Dichlorobenzidine	ND<100	20	0.66				
2,4-Dichlorophenol	ND<50	10	0.33	Comments:j			
Diethyl Phthalate	ND<50	10	0.33				
2,4-Dimethylphenol	ND<50	10	0.33	Surrogate Recoveries (%)			
Dimethyl Phthalate	ND<50	10	0.33	2-Fluorophenol		44	
4,6-Dinitro-2-methylphenol	ND<250	50	1.6	Phenol-d5		46	
2,4-Dinitrophenol	ND<250	50	1.6	Nitrobenzene-d5		57	
2,4-Dinitrotoluene	ND<50	10	0.33	2-Fluorobiphenyl		54	
2,6-Dinitrotoluene	ND<50	10	0.33	2,4,6-Tribromophenol		55	
				p-Terphenyl-d14		53	

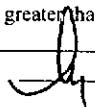
*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

* surrogate diluted out of range

h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content

DHS Certification No. 1644

 Edward Hamilton, Lab Director



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QC REPORT

EPA 8015m + 8020

Date: 03/26/02

Extraction: EPA 5030

Matrix: Water

Compound	Concentration: ug/L			%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	

SampleID: .32602

Instrument: GC-2 B

Surrogate1	ND	102.0	105.0	100.00	102	105	2.9
TPH (diesel)	ND	7150.0	7175.0	7500.00	95	96	0.3

$$\% \text{ Recovery} = \frac{(MS - \text{Sample})}{\text{Amount Spiked}} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 100$$

RPD means Relative Percent Deviation



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QC REPORT

EPA 8010/8020

Date: 03/22/02

Extraction: EPA 5030

Matrix: Water

Compound	Concentration: ug/L			%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	

SampleID: 32602

Instrument: GC-1

Surrogate1	ND	97.0	95.0	100.00	97	95	2.1
Chlorobenzene	ND	10.5	10.6	10.00	105	106	0.9
Trichloroethene	ND	10.7	10.7	10.00	107	107	0.0
1,1-DCE	ND	10.8	10.9	10.00	108	109	0.9

$$\% \text{ Recovery} = \frac{(MS - \text{Sample})}{\text{AmountSpiked}} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation



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QC REPORT

VOCs (EPA 8240/8260)

Date: 03/22/02

Extraction: EPA 5030

Matrix: Water

Compound	Concentration: ug/L			%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	

SampleID: 32102

Instrument: GC-10

Surrogate	ND	98.0	97.0	100.00	98	97	1.0
Toluene	ND	8.8	8.4	10.00	88	84	4.7
Benzene	ND	8.6	9.7	10.00	86	97	12.0
Chlorobenzene	ND	9.1	10.1	10.00	91	101	10.4
Trichloroethene	ND	9.9	8.4	10.00	99	84	16.4
1,1-Dichloroethene	ND	8.6	9.0	10.00	86	90	4.5

$$\% \text{ Recovery} = \frac{(MS - \text{Sample})}{\text{Amount Spiked}} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation



QC REPORT

SVOCs (EPA 8270/625/525)

Date: 03/23/02

Extraction: N/A

Matrix: Water

Compound	Concentration: ug/L			%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	

SampleID: 32202

Instrument: GC-8

Surrogate1	ND	540.0	550.0	1000.00	54	55	1.8
Pyrene	ND	520.0	530.0	1000.00	52	53	1.9
Pentachlorophenol	ND	880.0	900.0	2000.00	44	45	2.2
2,4-Dinitrotoluene	ND	580.0	590.0	1000.00	58	59	1.7
4-Nitrophenol	ND	810.0	810.0	2000.00	41	41	0.0
Acenaphtene	ND	490.0	480.0	1000.00	49	48	2.1
4-Chloro-3-metylphenol	ND	920.0	940.0	2000.00	46	47	2.2
1,2,4-trichlorobenzene	ND	510.0	510.0	1000.00	51	51	0.0
N-nitroso-di-n-propyl	ND	460.0	460.0	1000.00	46	46	0.0
1,4-Dichlorobenzene	ND	470.0	470.0	1000.00	47	47	0.0
2-Chlorophenol	ND	890.0	890.0	2000.00	45	45	0.0
Phenol	ND	890.0	900.0	2000.00	45	45	1.1

$$\% \text{ Recovery} = \frac{(MS - \text{Sample})}{\text{Amount Spiked}} \cdot 100$$

$$RPD = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation

McC Campbell Analytical Inc.

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0203418

Client:

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

TEL:
FAX:
ProjectNo: 0458; Former Cit
PO:

22-Mar-02

Sample ID	ClientSampID	Matrix	Collection Date	Bottle	Requested Tests			
					SW8021B	8021B/8015	SW8260B	SW8270C
0203418-001	W-MW-1	Water	3/22/02	C	A	B	D	
0203418-002	W-MW-2	Water	3/22/02	C	A	B	D	
0203418-003	W-MW-3	Water	3/22/02	C	A	B	D	
0203418-004	W-INDUSTRIAL	Water	3/22/02	C	A	B	D	

Comments:

Date/Time

Date/Time

Relinquished by:

Received by:

Relinquished by:

Received by:

Relinquished by:

Received by:

NOTICE: Solid samples are discarded after 60 days and Non-Solid samples are discarded after 30 days unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Attachment B

Field Methods

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
Lic. #: R.G. 6253

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 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. Expected purge volumes are not less than three 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 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.

Attachment C

Field Measurements

WellTest, Inc.

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

Monitoring Well Sampling Field Data Sheet
[03/22/02]
3516 Adeline Street
Oakland, CA

WELL: MW-1

Well Purge Method: PVC Bailer
Sample Collection Method: Single-Use disposable Bailer
Sample Collection Depth: Approximately 10.5 ft bgs

Well Screen Interval:		ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	27.03	ft btoc
Depth to Water:	8.97	ft btoc
Height of Water:	18.06	ft
Ten Well Volumes:	29.98	gal

Date/Time	Purge Vol. [Gal]	Purge Status	D.O. ppm	O.R.P. mV	pH	Cond. uS	Temp F	DTW BTOC [ft]	Recovery %	Pump Depth [ft]	Field Comments
03/22/02	0- Static	Pre-Purge	nm	nm	nm	nm	nm	8.97		na	Product Odor
11:09 AM	10	Purging	nm	nm	7.88	1,202	84.4	nm		na	
11:21 AM	20	Purging	nm	nm	7.74	1,217	65.1	nm		na	
11:29 AM	30	Purging	nm	nm	7.76	1,204	64.4	nm		na	
11:35 AM	Total 30	Collect Sample	nm	nm	nm	nm	nm	10.22	87.8	na	Product Odor

Well : MW-2

Well Purge Method: PVC Bailer
Sample Collection Method: Single-Use disposable Bailer
Sample Collection Depth: Approximately 10.25 ft bgs

Well Screen Interval:		ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	29.45	ft btoc
Depth to Water:	8.49	ft btoc
Height of Water:	20.96	ft
Ten Well Volumes:	34.79	gal

Date/Time	Purge Vol. [Gal]	Purge Status	D.O. ppm	O.R.P. mV	pH	Cond. uS	Temp F	DTW BTOC [ft]	Recovery %	Pump Depth [ft]	Field Comments
03/22/02	0- Static	Pre-Purge	nm	nm	nm	nm	nm	8.49		na	Product Odor
9:33 AM	10	Purging	nm	nm	7.41	916	63.9	nm		na	
9:39 AM	20	Purging	nm	nm	7.33	912	64.2	nm		na	
10:03 AM	35	Purging	nm	nm	7.26	907	64.1	nm		na	
10:10 AM	Total 35	Collect Sample	nm	nm	nm	nm	nm	9.97	85.2	na	Product Odor

Well : MW-3

Well Purge Method: PVC Bailer
Sample Collection Method: Single-Use disposable Bailer
Sample Collection Depth: Approximately 12.5 ft bgs

Well Screen Interval:		ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	29.77	ft btoc
Depth to Water:	10.97	ft btoc
Height of Water:	18.8	ft
Ten Well Volumes:	31.21	gal

Date/Time	Purge Vol. [Gal]	Purge Status	D.O. ppm	O.R.P. mV	pH	Cond. uS	Temp F	DTW BTOC [ft]	Recovery %	Pump Depth [ft]	Field Comments
03/22/02	0- Static	Pre-Purge	nm	nm	nm	nm	nm	10.97		na	Product Odor
10:18 AM	10	Purging	nm	nm	7.55	1,177	83.3	nm		na	
10:30 AM	20	Purging	nm	nm	7.63	1,174	83.4	nm		na	
10:42 AM	33	Purging	nm	nm	7.62	1,174	83.1	nm		na	
10:57 AM	Total 33	Collect Sample	nm	nm	nm	nm	nm	12.37	88.7	na	Product Odor

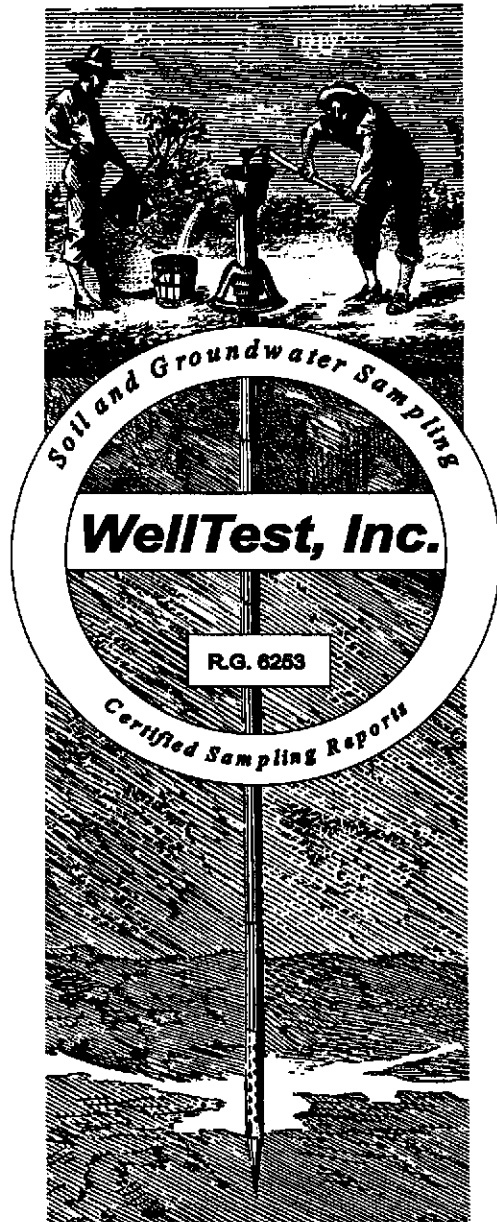
Monitoring Well Sampling Field Data Sheet
[03/22/02]
3516 Adeline Street
Oakland, CA

WELL: Industrial Well

Well Purge Method: PVC Bailer
Sample Collection Method: Single-Use disposable Bailer
Sample Collection Depth: Approximately 10.5 ft bgs
 Well casing diameter 6-inch with 2-inch diameter inner casing
 Well sample collected from 2-inch diameter inner casing

Well Screen Interval:	unknown	ft bgs
Casing Diameter:	2	inches
Total Depth of Well:	27.71	ft btoc
Depth to Water:	10.87	ft btoc
Height of Water:	16.84	ft
Ten Well Volumes:	27.95	gal

Date/Time	Purge	Purge	D.O.	O.R.P.	pH	Cond.	Temp	DTW	Recovery	Pump	Field
03/22/02	Vol. [Gal]	Status	ppm	mV		uS	F	BTOC [ft]	%	Depth [ft]	Comments
9:21 AM	0- Static	Pre-Purge	nm	nm	nm	nm	nm	10.87		na	No Odor
		Purging	nm	nm	7.22	660	64.8	nm		na	
		Purging	nm	nm	nm	nm	nm	nm		na	
		Purging	nm	nm	nm	nm	nm	nm		na	
9:25 AM	Total 4	Collect Sample	nm	nm	nm	nm	nm	nm	nc	na	Grab sample



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