

FOURTH QUARTER 2007 QUARTERLY MONITORING REPORT

Former City of Paris Cleaners
3516 Adeline Street
Oakland, California 94608

USTCF Claim #002192

RECEIVED

2:40 pm, Apr 07, 2008

Alameda County
Environmental Health

Prepared For:

Ms. Paulette Satterley
14601 Guadalupe Drive
Rancho Murieta, CA 95683

Prepared By:

Western Resource Management
P.O. Box 8938
Citrus Heights, CA 95621

March 15, 2008



www.westernresourcemgmt.com

TABLE OF CONTENTS

1.0 INTRODUCTION	1
1.1 Project Description	1
1.2 Site Location and Description	1
1.3 Site History and Previous Subsurface Investigations	1
2.0 GROUNDWATER MONITORING, SAMPLING AND ANALYSIS	3
2.1 Groundwater Monitoring	3
2.2 Groundwater Sampling and Analysis	3
3.0 CONCLUSIONS, RECOMMENDATIONS AND PROJECT STATUS	4
4.0 REPORT DISTRIBUTION	5
5.0 REMARKS AND SIGNATURES	6

LIST OF FIGURES

Figure 1.	Site Location Map
Figure 2.	Site Map
Figure 3.	Groundwater Elevation Contour Map
Figure 4.	Groundwater Analytical Summary

LIST OF TABLES

Table 1.	Groundwater Elevation Data
Table 2.	Groundwater Analytical Results – Petroleum Hydrocarbon Constituents
Table 3.	Groundwater Analytical Results – Fuel Oxygenates

LIST OF APPENDICES

Appendix A.	Field Data Sheets
Appendix B.	Laboratory Reports

1.0 INTRODUCTION

1.1 Project Description

On behalf of the responsible party, Western Resource Management (WRM) has prepared this *Fourth Quarter 2007 Quarterly Monitoring Report* for submittal to the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) and Alameda County Health Care Services Agency (ACHSA). The scope of work conducted during this project complies with existing SRWQCB and ACHSA directive letters.

1.2 Site Location and Description

The former City of Paris Cleaners is an inactive dry cleaning plant currently owned by Mrs. Debra Runyon and located at 3516 Adeline St., Oakland, CA. The site lies at the southern corner of the intersection between 35th St. and Adeline St. at 30 feet above mean sea level (msl), and has been an area of active soil and groundwater monitoring since October 1990. The address is currently listed as City of Paris Studios, a workshop for art, art restoration, collectibles and hobbies.

1.3 Site History and Previous Subsurface Investigations

The plant was in operation for over 40 years until the 1960's, but cleaning materials were not completely removed from the site until 1990. The presence of Total Petroleum Hydrocarbons as Stoddard Solvent (TPH-SS) was analyzed for and confirmed at concentrations above the taste-threshold in October 1990. By this time, ownership had passed through inheritance to Mr. Champion's son and daughter-in-law, Frank and Linda Champion, who contracted B.T. Associates to monitor three groundwater monitoring wells (MW-1, MW-2, and MW-3) surrounding the former tank pit. In October 1990, TPH-SS above the taste-threshold level was confirmed at the site.

In November 1992, B.T. Associates became the principal consulting company responsible for conducting four groundwater monitoring reports per year to define the lateral and vertical extent of contamination as directed by the ACHSA. By April 1995, the concentration of TPH-SS was identified around 570-1000 parts per million (ppm) for all three monitoring wells, although some monitoring events (March and August, 1994) showed non-detect concentrations in well MW-3.

By August 1996, Dugan and Associates replaced B.T. Associates as the principal consulting company and continued the quarterly monitoring of the three on-site wells. In January 1998, Dugan and Associates prepared a work plan entitled *Work Plan for Soil and Groundwater Sampling* to further define the extent of contamination. Six exploratory soil borings (EB-1 through EB-6) were drilled to a depth of 20 feet below grade, and water samples were taken at 18 feet below grade while soil samples were taken at 5, 10 and 15 feet below grade. All samples were tested for TPH-SS, benzene, toluene, ethylbenzene, total xylenes (BTEX) and methyl tertiary butyl ether (MTBE). Boring EB-1 was located approximately 10 feet southwest of MW-1, and EB-2 through EB-6 were drilled on the northern edge of 35th Street starting at the intersection and trending southeast parallel to the street. The results of the project indicated the contamination was focused around MW-1, with groundwater sampled from EB-1 containing TPH-SS, toluene, ethylbenzene and total xylenes at 270,000, 93, 66, and 1700 µg/l, respectively. Soil samples at EB-1 contained 310 and 340 µg/l of TPH-SS at 10 and 15 ft.,

Fourth Quarter 2007, Quarterly Monitoring Report

Former City of Paris Cleaners, 3516 Adeline Street, Oakland, California

respectively and trace amounts of total xylenes and/or toluene. All other groundwater and soil samples from borings EB-2 through EB-6 displayed non-detect levels of constituents.

In October 1999, the property was sold to Don Rostocil by Frank and Linda Champion.

By December 1999, the chemical suite of analytes that were monitored grew to include 1,2-Dichlorobenzene (DCB), 1,1-Dichloroethane, 2-methylnaphthalene and naphthalene. All these constituents were present in one or more wells. The groundwater gradient was also defined as trending to the north at 0.003 ft./ft.

In July 2000, the property was sold to Debra Runyon by Don Rostocil.

In March 2002, in compliance with an ACHSA directive letter, WellTest, Inc. (formerly Dugan and Associates) redeveloped the three monitoring wells (by purging 10 well-volumes) and sampled the three wells pursuant to quarterly monitoring responsibilities. WellTest, Inc. also sampled the industrial well on-site. The analytical results of the sampling indicated up to 11,000 µg/L of TPH-SS in the sample from MW-1, no BTEX above laboratory detection limits, up to 31 µg/L MTBE in the sample from MW-3, 0.61 µg/L DCB in the sample from MW-1, and 130 µg/l Naphthalene in MW-1. The groundwater gradient was also defined to the southeast at 0.14 ft./ft.

In March 2004, TPH-SS and MTBE concentrations were 30,000 µg/l in the sample from MW-1 and 5.4 µg/l in the sample from MW-2, respectively.

WRM assumed environmental consulting responsibilities for the site commencing in June 2007.

2.0 GROUNDWATER MONITORING, SAMPLING, AND ANALYSIS

On December 20, 2007, to comply with quarterly groundwater monitoring requirements, WRM gauged and sampled on-site groundwater monitoring wells MW-1 through MW-3. An on-site industrial well (W-IND) was also monitored this quarter.

2.1 Groundwater Monitoring

Depth-to-groundwater was measured in the three monitoring wells using a water level meter capable of measurements to within 0.01 foot. The depth to the groundwater table ranged from 9.95 feet below ground surface (bgs) in MW-2 to 11.51 in MW-1. Groundwater surface elevations ranged from a high of 7.36 feet above mean sea level (msl) in MW-2 to a low of 5.93 feet above msl at W-1. The direction of groundwater flow is to the northeast at a gradient of 0.102 feet per foot. A groundwater surface contour map is included as Figure 3 and groundwater elevation data are summarized in Table 1. Field data sheets for the groundwater monitoring are included as Appendix A.

2.2 Groundwater Sampling and Analysis

Following groundwater level measurements, the four wells were purged and sampled in accordance with the established sampling schedule. The monitoring wells were purged with a pump and dedicated disposable tubing until at least three well casing volumes had been removed and/or after groundwater temperature, pH and electrical conductivity values had stabilized. Groundwater was sampled from the monitoring wells using dedicated and disposable polyethylene bailers and laboratory-supplied containers. All sample containers were transported in an iced cooler with chain-of-custody documentation to Sparger Technology, Inc. (Sparger), of Rancho Cordova, California, a state certified analytical laboratory (ELAP Certification #1614).

Sparger analyzed each of the groundwater samples for Total Petroleum Hydrocarbons as Stoddard solvent (TPH-SS) by EPA Method 8015Cm, Total Petroleum Hydrocarbons as gasoline (TPH-G), benzene, toluene, ethyl benzene and xylenes (BTEX), and oxygenate methyl tertiary butyl ether (MTBE) by EPA Method 8260B.

Maximum concentrations of TPH-SS, TPH-G, benzene, toluene, ethylbenzene and total xylenes were all detected in the sample from MW-1, with concentrations of 45,000, 110,000, 20, 50, 20, and 100 µg/l, respectively. Samples from MW-2, MW-3, and W-IND reported lower TPH-G concentrations of 3,000, 12,000, and 500 µg/l, respectively. The only other sample to contain TPH-SS was the sample from MW-3, with a detected concentration of 18,000 µg/l. The maximum concentration of MTBE was detected in the sample from MW-3 with a concentration of 9.2 µg/l.

The distribution of petroleum hydrocarbon compounds and fuel oxygenates in shallow groundwater is shown on Figure 4. The groundwater sample analytical results are summarized in Table 2 and the laboratory reports, notes, and comments are included in Appendix B.

3.0 CONCLUSIONS AND RECOMMENDATIONS

There appears to be an upward trend in TPH-SS concentrations even with seasonal fluctuations taken into account, especially in the downgradient wells MW-1 and MW-3. Between September 9, 2005 and December 20, 2007, TPH-SS increases were detected in two of four wells (30,000 µg/l in MW-1 and 14,000 µg/l in MW-3), while decreases were observed in the two remaining wells (both reductions to non-detect levels). TPH-G increases were detected in all four wells (99,000 µg/l in MW-1, 2,902 µg/l in MW-2, 9,400 µg/l in MW-3, and over 450 µg/l in W-IND).

MTBE showed a slight decrease in the sample from MW-3 and a slight increase in the sample from MW-2, although the highest reported concentration this quarter is only 9.2 µg/l. Benzene concentrations are consistent with prior sampling events, with the exception of MW-1, where concentrations increased by over 15 µg/l.

Consistent with the historically defined north-northeast groundwater flow, the lateral extent of impacted groundwater continues to be concentrated in the vicinity of the former tank pit, concentrated in the northwest-southeast pattern between MW-1 and MW-2 and extending to the northeast as defined in previous off-site soil borings. The trend of constituents of concern in groundwater appears to indicate a residual soil source area remaining on the property. The groundwater plume remains undefined both down and cross gradient from the location of the former UST's at the site.

WRM proposes to resume quarterly groundwater monitoring at the site upon approval by Alameda County Health Care Services Agency. In addition, WRM proposes to prepare a work plan to fully define the extent of the impacted soil and groundwater at and downgradient of the site, define site specific cleanup goals and additional tasks necessary to allow the preparation and implementation of a Corrective Action Plan at the site.

4.0 REPORT DISTRIBUTION

Ms. Paulette Satterley
14601 Guadalupe Drive
Rancho Murieta, CA 95683

Ms. Donna Drogos
Alameda County Health Care Services Agency
1131 Harbor Parkway, Suite 250
Alameda CA, 94502

Ms. Cherie McCaulou
San Francisco Bay Regional Water Quality Control Board
1515 Clay St., Suite 1400
Oakland, CA 94612

5.0 REMARKS AND SIGNATURE

The interpretations and/or conclusions contained in this report represent our professional opinions and are based in part on information supplied by the client. These opinions are based on currently available information and were developed in accordance with currently accepted geologic, hydrogeologic, and engineering practices at this time and for this specific site. Other than this, no warranty is implied or intended.

This report has been prepared solely for the use of Ms. Paulette Satterley. Any reliance on this report by third parties shall be at such parties' sole risk. The work described herein was performed under the direct supervision of the professional geologist, registered with the State of California, whose signature appears below.

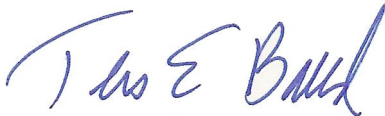
We appreciate the opportunity to provide you with geologic, engineering and environmental consulting services and trust this report meets your needs. If you have any questions or concerns, please call us at (916) 729-1760.

Sincerely,

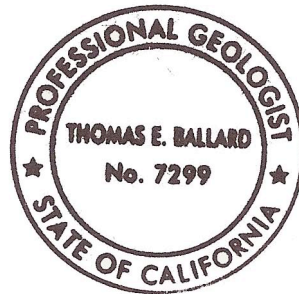
Western Resource Management



Martin A. Wills
Project Manager



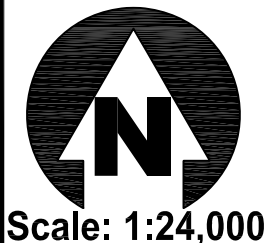
Thomas E. Ballard, P.G. #7299
Senior Geologist



FIGURES



FIGURE 1
SITE LOCATION MAP
 FORMER CITY OF PARIS CLEANERS
 3516 ADELINE STREET
 OAKLAND, CA



Source:
 USGS West Oakland
 Quadrangle Topographic Map
 Report, 7.5 Minute Series
 (topographic), dated 1993

PROJECT NO. City of Paris	DRAWN BY MML 03/07/08
FILE NO. Site Map	PREPARED BY TEB
REVISION NO. 2	REVIEWED BY

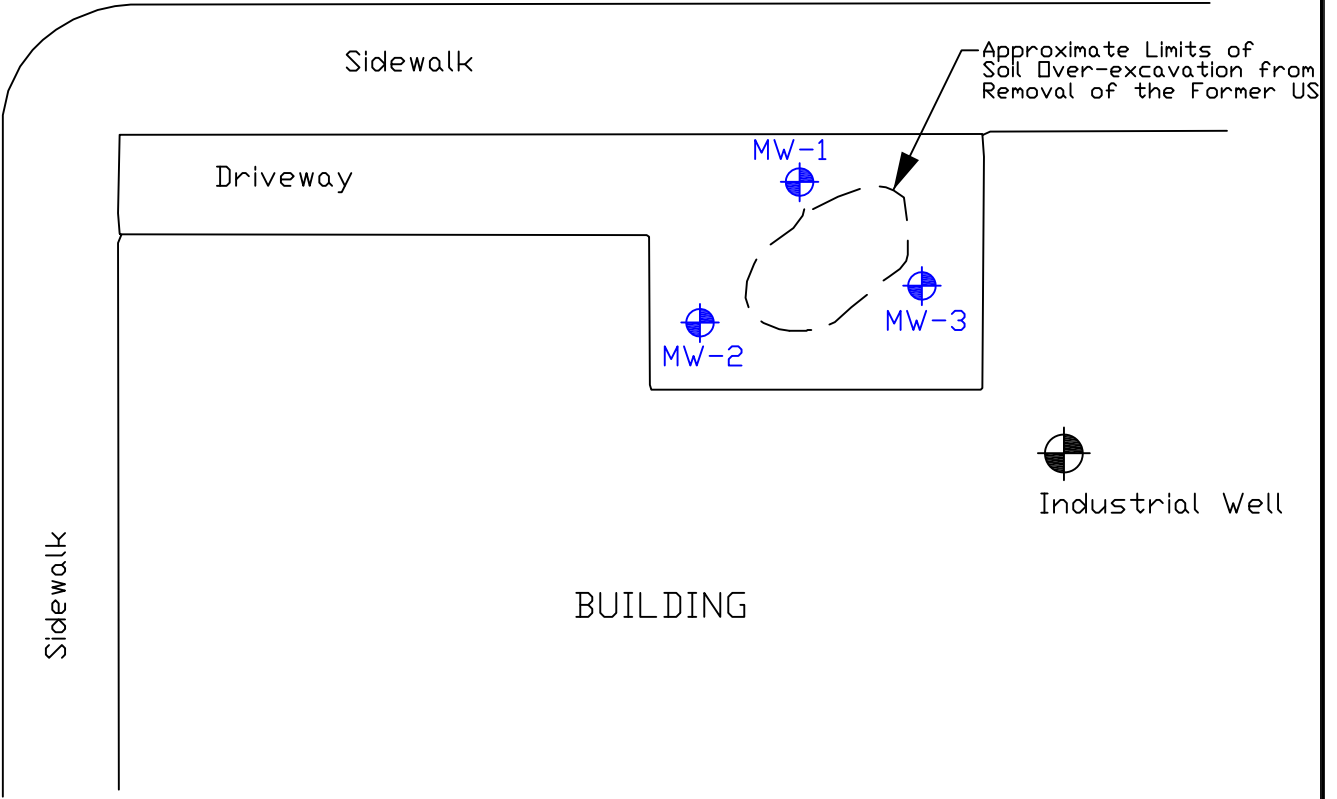




APPROXIMATE SCALE

35TH STREET (Centerline)

ADELINE STREET (Centerline)



LEGEND

 MW-1 EXISTING MONITORING WELL

Notes:
Industrial well measured in 1995.
Base Map Source: BT Associates (1995) for approximate locations of wells.

**FIGURE 2
SITE MAP**

FORMER CITY OF PARIS CLEANERS
3516 ADELINE STREET
OAKLAND, CA

PROJECT NO. City of Paris	DRAWN BY MML 02/22/08
FILE NO. Site Map	PREPARED BY TEB
REVISION NO. 2	REVIEWED BY

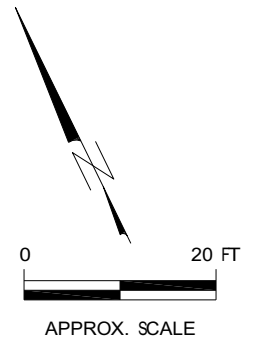
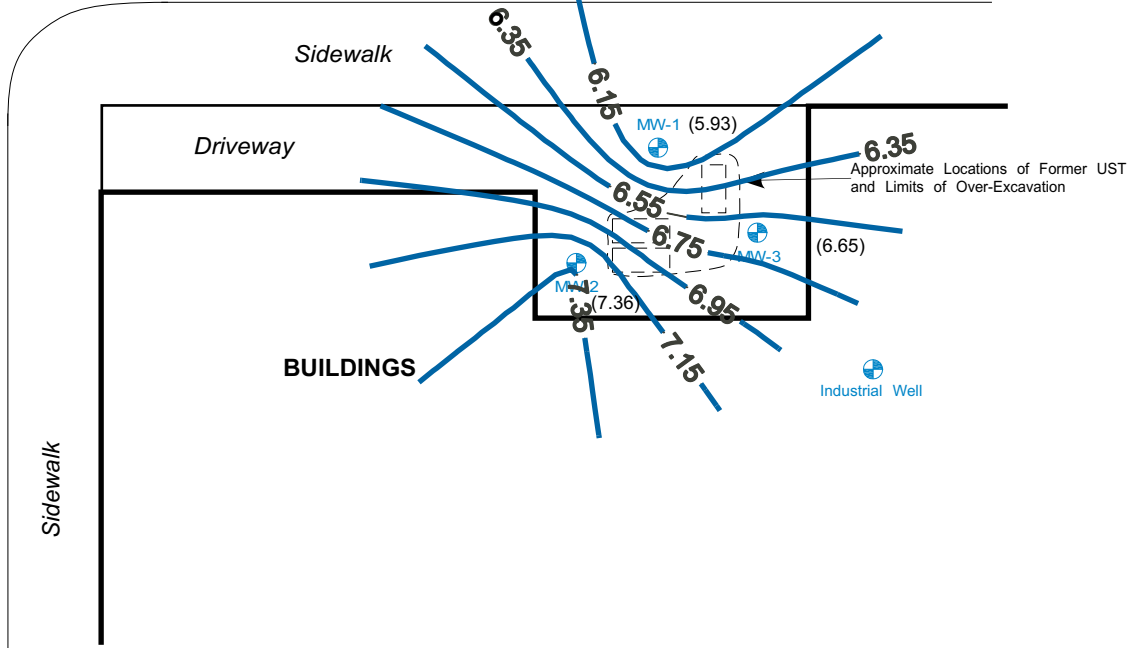


35TH STREET

Inferred Direction of Groundwater Flow



ADELINE STREET



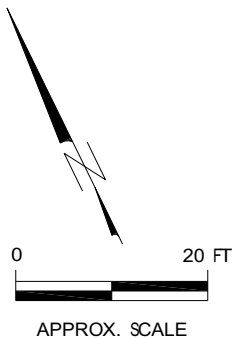
LEGEND

MW-1 GROUNDWATER MONITORING WELL

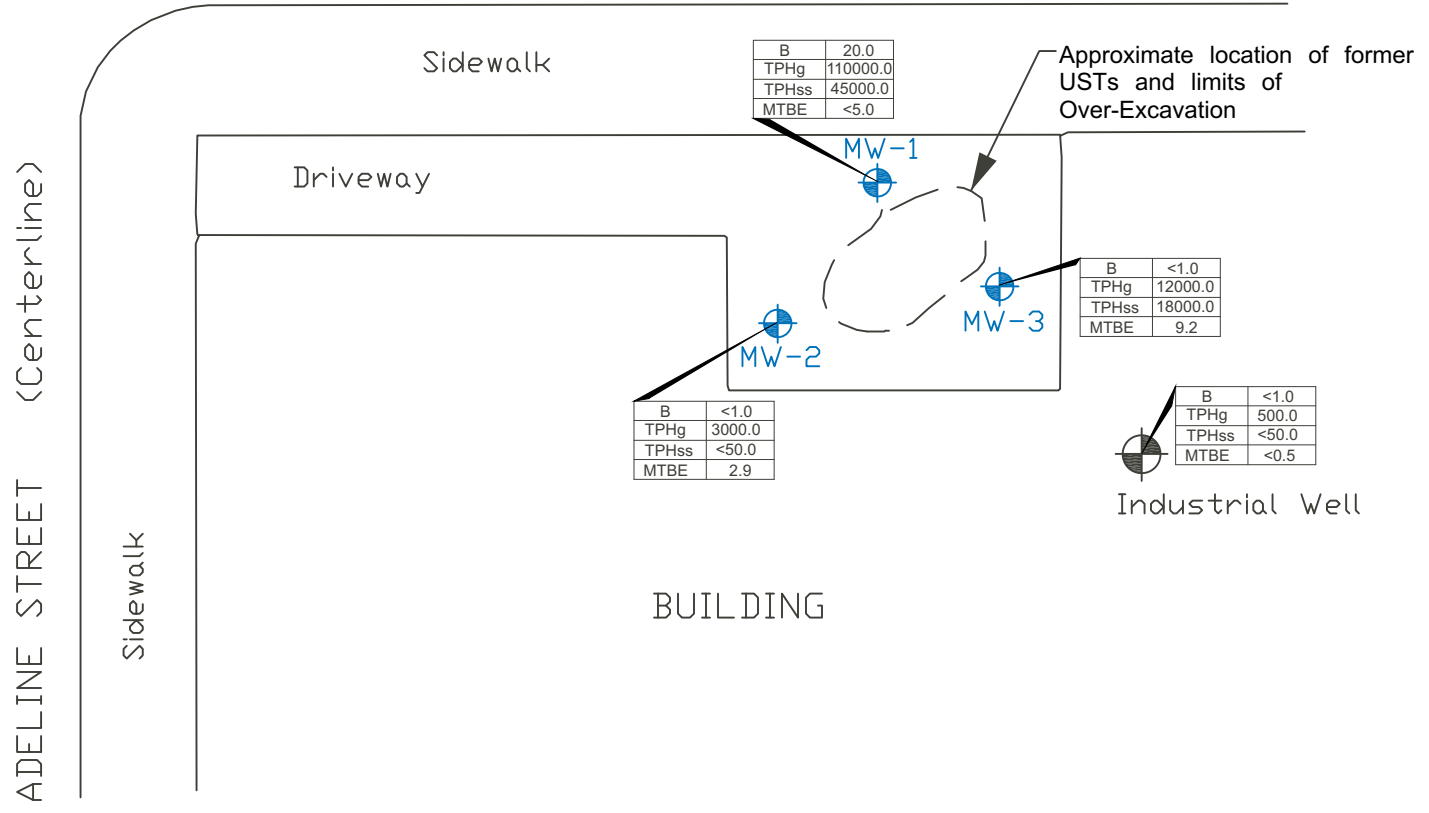
FIGURE 3
GROUNDWATER CONTOUR MAP
FORMER CITY OF PARIS CLEANERS
3516 ADELINE STREET
OAKLAND, CA

PROJECT NO. 051074	DRAWN BY T.B. 03/06/08
FILE NO. City of Paris	PREPARED BY T.B.
REVISION NO. 1	REVIEWED BY





35TH STREET (Centerline)



B	20.0
TPHg	110000.0
TPHss	45000.0
MTBE	<5.0

Approximate location of former USTs and limits of Over-Excavation

B	<1.0
TPHg	12000.0
TPHss	18000.0
MTBE	9.2

B	<1.0
TPHg	3000.0
TPHss	<50.0
MTBE	2.9

B	<1.0
TPHg	500.0
TPHss	<50.0
MTBE	<0.5

Industrial Well

LEGEND

- MW-1 EXISTING MONITORING WELL
- BENZENE CONCENTRATION IN MICROGRAMS PER LITER (ug/L)
- TOTAL PETROLEUM HYDROCARBONS AS GASOLINE IN ug/L
- TOTAL PETROLEUM HYDROCARBONS AS STODDARD SOLVENT IN ug/L
- METHYL TERTIARY BUTYL ETHER IN ug/L

Notes:
 Industrial well measured in 1995.
 Base Map Source: BT Associates (1995) for approximate locations of wells.

FIGURE 4
GROUNDWATER ANALYTICAL SUMMARY
 12/21/07
 FORMER CITY OF PARIS CLEANERS
 3516 ADELINE STREET
 OAKLAND, CA

PROJECT NO. 051074	DRAWN BY MML 03/07/08
FILE NO. City of Paris	PREPARED BY T.B.
REVISION NO. 3	REVIEWED BY



TABLES

SOURCE	Reference Elevation		SOURCE	Reference Elevation		SOURCE	Reference Elevation	
MW-1 ○	17.44		MW-2 △	17.31		MW-3 ●	17.44	
Dates	Water Depth	Water Elev.	Dates	Water Depth	Water Elev.	Dates	Water Depth	Water Elev.
03/22/2002	8.97	8.47	03/22/2002	8.82	8.49	03/22/2002	10.97	6.47
04/15/2003	9.23	8.21	04/15/2003	8.52	8.79	04/15/2003	8.31	9.13
03/26/2004	10.32	7.12	03/26/2004	9.32	7.99	03/26/2004	8.61	8.83
09/30/2004	11.53	5.91	09/30/2004	11.62	5.69	09/30/2004	11.1	6.34
09/09/2005	13.63	3.81	09/09/2005	12.75	4.56	09/09/2005	13.75	3.69
12/20/2007	11.51	5.93	12/20/2007	9.95	7.36	12/20/2007	10.79	6.65

NOTES:

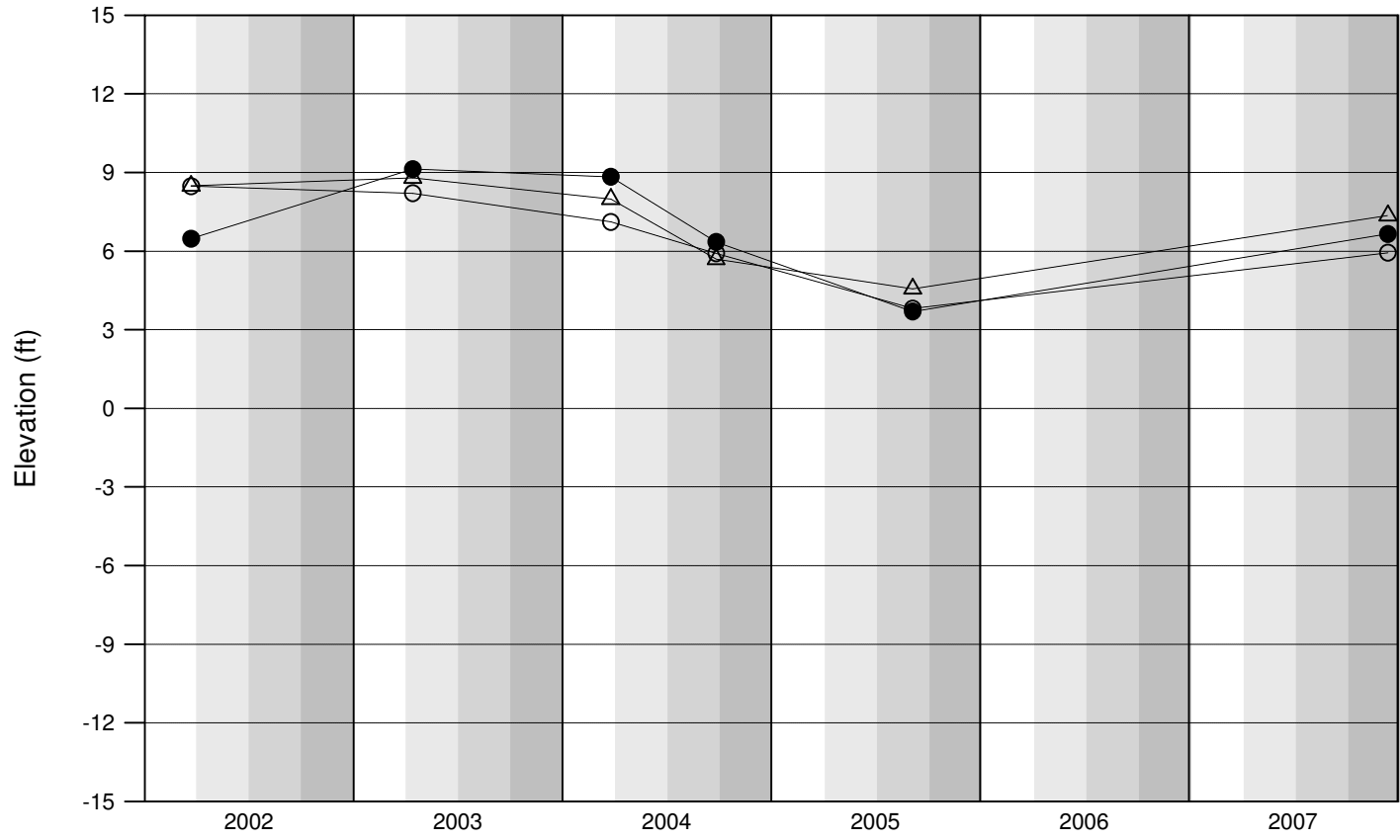


Table 1

Groundwater Elevation Data

Source Set 1 of 1

Former City of Paris Cleaners
3516 Adeline Street
Oakland, CA 94608

Western Resource Management
P.O. Box 8938
Citrus Heights, CA

	TPH as Stoddard Solvent	TPH as Gasoline	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MCL:							
03/22/2002	11000	-	-	-	-	-	<5.0
04/15/2003	3900	-	<2.5	<2.5	<2.5	3	9
03/26/2004	30000	24000	<50	<50	<50	<50	<500
09/30/2004	3800	2600	<0.5	<0.5	<0.5	2.7	<5
09/09/2005	15000	11000	<5	<5	<5	15	<50
12/20/2007	45000	110000	20	50	20	100	<5

SOURCE: MW-1

Sampling Dates:
03/22/2002 - 12/20/2007

NOTES:

Table 2

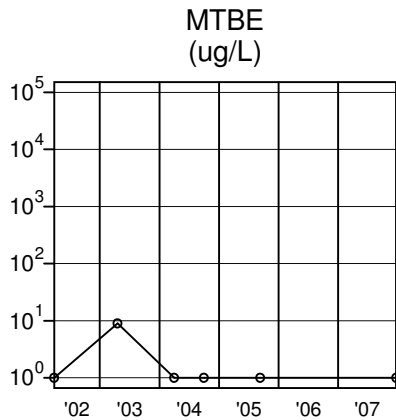
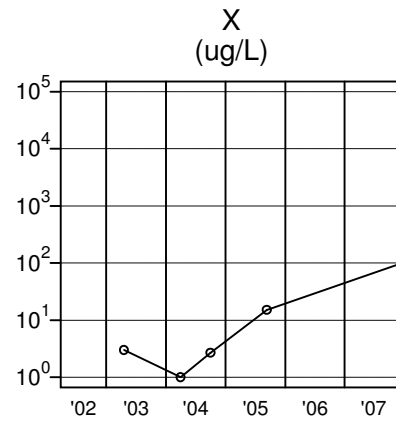
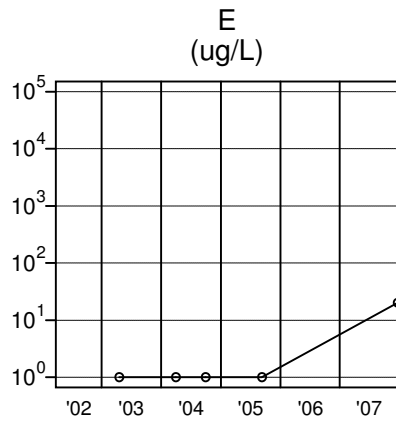
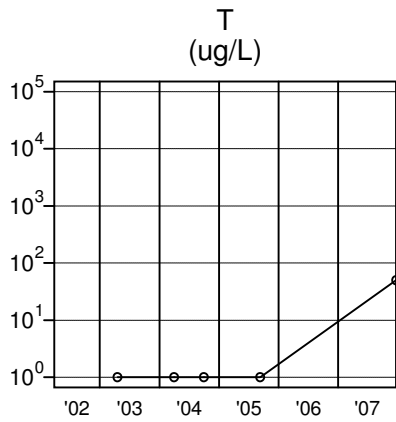
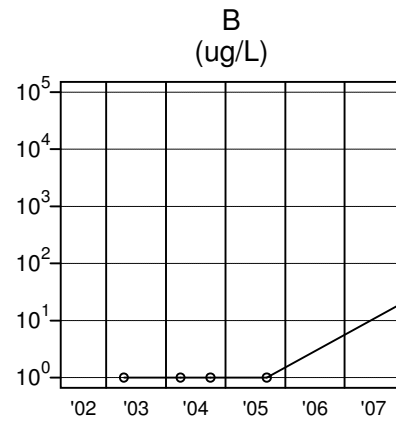
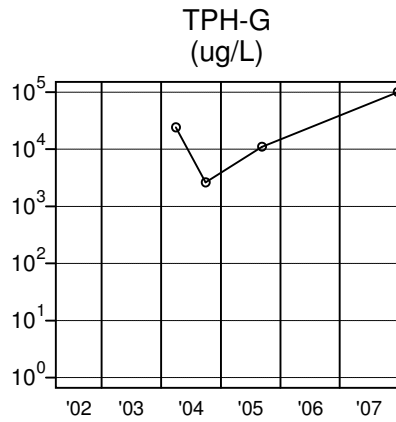
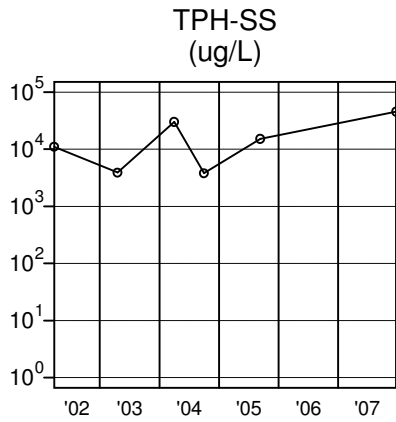
Petroleum Hydrocarbon
Concentrations in
Groundwater
Source 1 of 4

Former City of Paris Cleaners
3516 Adeline Street
Oakland, CA 94608

Western Resource Management
P.O. Box 8938
Citrus Heights, CA

SOURCE: MW-1

Sampling Dates:
03/22/2002 - 12/20/2007



LEGEND:

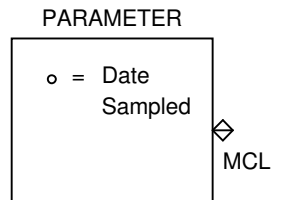


Table 2

Petroleum Hydrocarbon
Concentrations in
Groundwater
Source 1 of 4, Graph

Former City of Paris Cleaners
3516 Adeline Street
Oakland, CA 94608

Western Resource Management
P.O. Box 8938
Citrus Heights, CA

	TPH as Stoddard Solvent	TPH as Gasoline	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MCL:							
03/22/2002	170	13000	410	1000	210	1100	<5.0
04/15/2003	99	-	<0.5	<0.5	<0.5	0.76	10
03/26/2004	120	93	<0.5	<0.5	<0.5	0.76	5.4
09/30/2004	<50	<50	<0.5	<0.5	<0.5	<0.5	<5
09/09/2005	120	98	<0.5	<0.5	<0.5	<0.5	<5
12/20/2007	<50	3000	<1	1.6	<1	2.4	2.9

SOURCE: MW-2

Sampling Dates:
03/22/2002 - 12/20/2007

NOTES:

Table 2

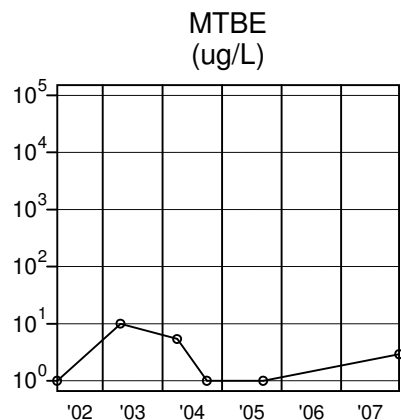
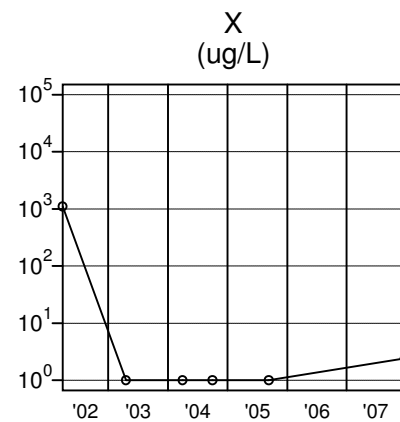
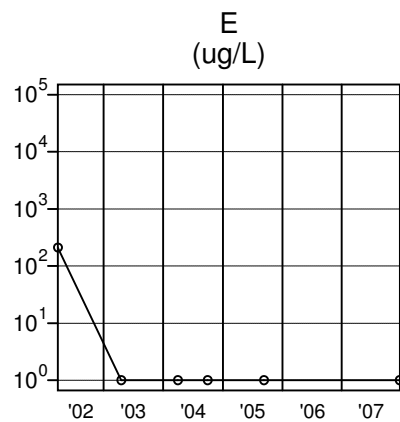
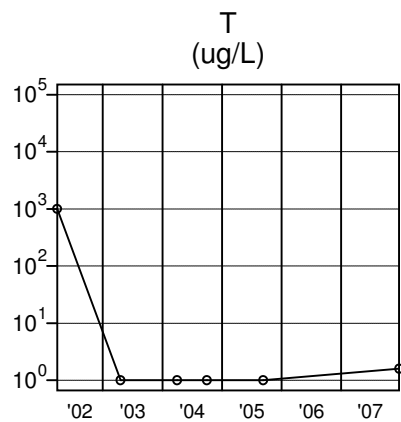
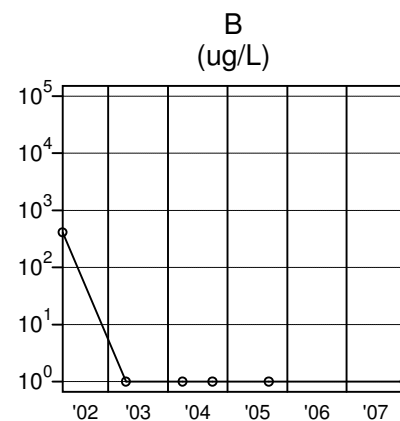
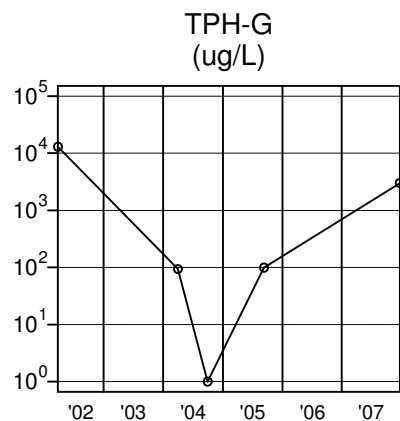
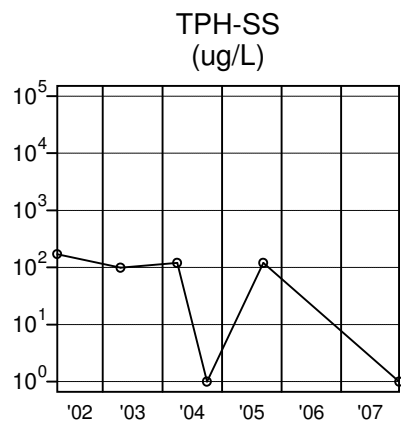
Petroleum Hydrocarbon
Concentrations in
Groundwater
Source 2 of 4

Former City of Paris Cleaners
3516 Adeline Street
Oakland, CA 94608

Western Resource Management
P.O. Box 8938
Citrus Heights, CA

SOURCE: MW-2

Sampling Dates:
03/22/2002 - 12/20/2007



LEGEND:

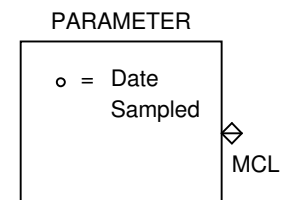


Table 2

Petroleum Hydrocarbon
Concentrations in
Groundwater
Source 2 of 4, Graph

Former City of Paris Cleaners
3516 Adeline Street
Oakland, CA 94608

Western Resource Management
P.O. Box 8938
Citrus Heights, CA

	TPH as Stoddard Solvent	TPH as Gasoline	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MCL:							
03/22/2002	420	<50	<0.5	<0.5	<0.5	<0.5	31
04/15/2003	2700	-	<0.5	<0.5	<0.5	<0.5	40
03/26/2004	2700	1900	<1.7	<1.7	<1.7	4.3	<17
09/30/2004	3900	2600	<0.5	<0.5	<0.5	3.2	<10
09/09/2005	4000	2600	<0.5	<0.5	0.57	2.7	12
12/20/2007	18000	12000	<1	1.6	1.1	2.4	9.2

SOURCE: MW-3

Sampling Dates:
03/22/2002 - 12/20/2007

NOTES:

Table 2

Petroleum Hydrocarbon
Concentrations in
Groundwater
Source 3 of 4

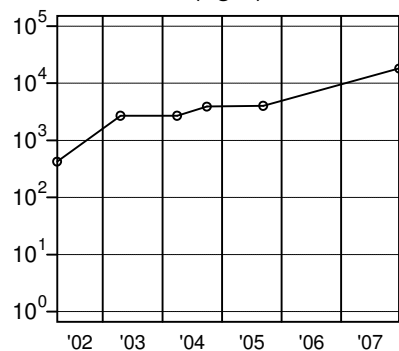
Former City of Paris Cleaners
3516 Adeline Street
Oakland, CA 94608

Western Resource Management
P.O. Box 8938
Citrus Heights, CA

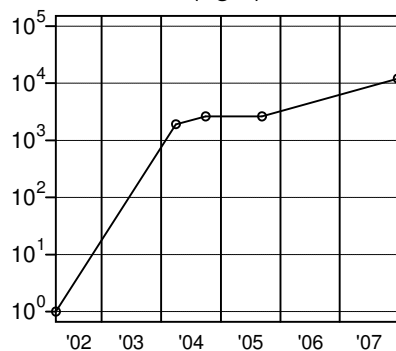
SOURCE: MW-3

Sampling Dates:
03/22/2002 - 12/20/2007

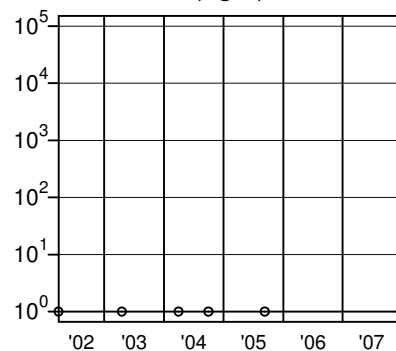
TPH-SS
(ug/L)



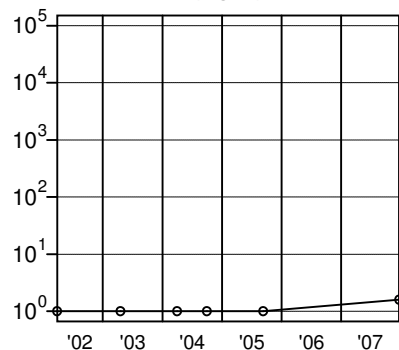
TPH-G
(ug/L)



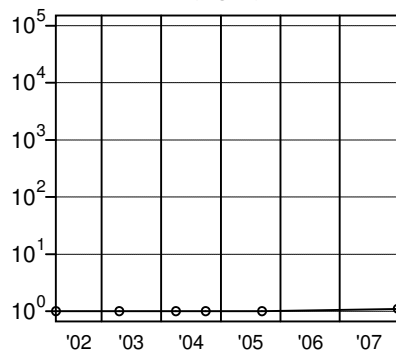
B
(ug/L)



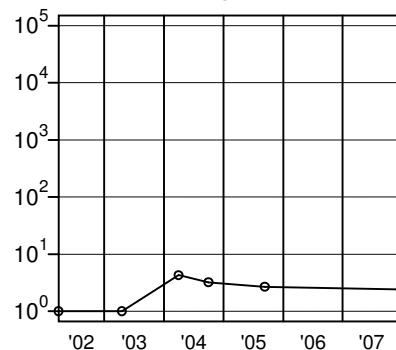
T
(ug/L)



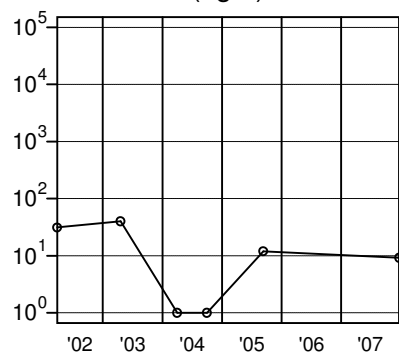
E
(ug/L)



X
(ug/L)



MTBE
(ug/L)



LEGEND:

PARAMETER

○ = Date
Sampled

◇ = MCL

Table 2

Petroleum Hydrocarbon
Concentrations in
Groundwater
Source 3 of 4, Graph

Former City of Paris Cleaners
3516 Adeline Street
Oakland, CA 94608

Western Resource Management
P.O. Box 8938
Citrus Heights, CA

	TPH as Stoddard Solvent	TPH as Gasoline	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	MTBE
Units:	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
MCL:							
03/22/2002	<50	190	<0.5	<0.5	<0.5	0.80	<5.0
04/15/2003	-	-	-	-	-	-	-
03/26/2004	500	200	<0.5	<0.5	<0.5	<0.5	<5
09/30/2004	<50	<50	<0.5	<0.5	<0.5	<0.5	<5
09/09/2005	<50	<50	<0.5	<0.5	<0.5	<0.5	<5
12/20/2007	<50	500	<1	1	<1	2.2	<.50

SOURCE: W-IND

Sampling Dates:
03/22/2002 - 12/20/2007

NOTES:

Table 2

Petroleum Hydrocarbon
Concentrations in
Groundwater
Source 4 of 4

Former City of Paris Cleaners
3516 Adeline Street
Oakland, CA 94608

Western Resource Management
P.O. Box 8938
Citrus Heights, CA

SOURCE: W-IND

Sampling Dates:
03/22/2002 - 12/20/2007

LEGEND:

PARAMETER

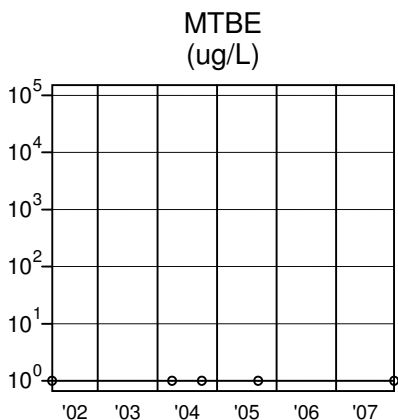
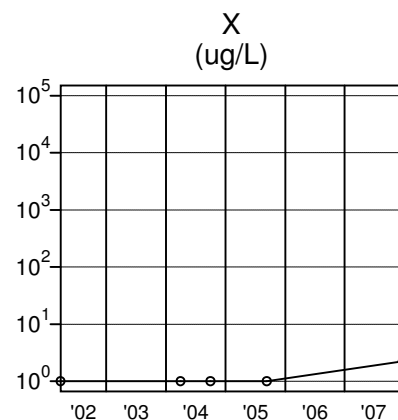
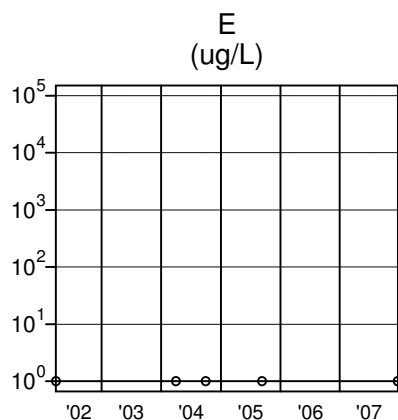
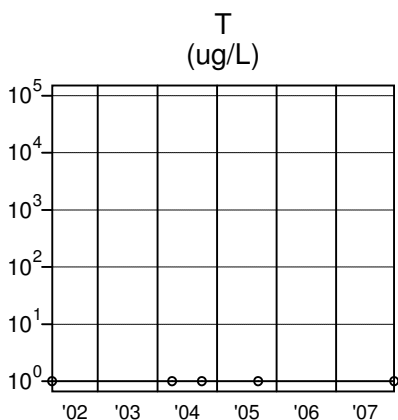
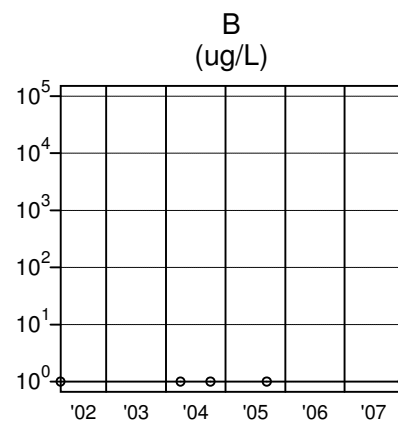
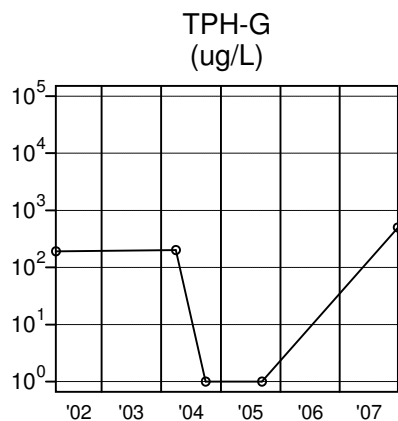
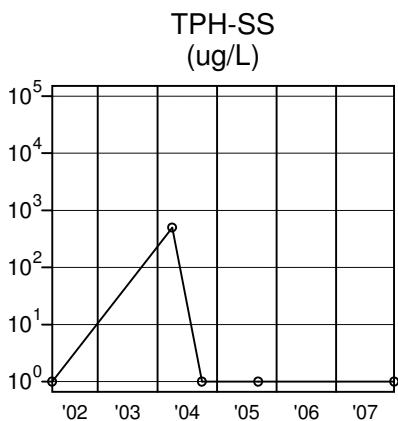
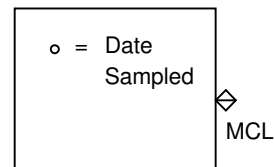


Table 2

Petroleum Hydrocarbon
Concentrations in
Groundwater
Source 4 of 4, Graph

Former City of Paris Cleaners
3516 Adeline Street
Oakland, CA 94608

Western Resource Management
P.O. Box 8938
Citrus Heights, CA

APPENDIX A
FIELD DATA SHEETS

Doulos Environmental, Inc.
Groundwater / Liquid Level Data
(Measurements in feet)

Project Address:

Former City of Paris Cleaners
3516 Adeline St
Oakland CA

Date: 12-20-07

Project No.: _____

Recorded by: Hil Hansen

Well No.	Time	Well Elev. TOC	Depth to Gr. Water	Measured Total Depth	Gr. Water Elevation	Depth to Product	Product Thickness	Comments
MW-1	1149		11.51	27.03				
MW-2	1145		9.95	29.36				
MW-3	1152		10.79	29.48				
undisturbed	1156		11.68	32.85				

Notes:

Client: WRM

Sampling Date: 12-20-07

Site: Former City of Paris Cleaner Project No.: _____

3516 Adeline St

Well Designation: MW-1

Oakland CA

Is setup of traffic control devices required? NO YES time: _____ hours
 Is there standing water in the well box? NO YES Above TOC _____ Below TOC
 Is top of casing cut level? NO YES If no, see remarks
 Is well cap sealed and locked? NO YES If no, see remarks
 Height of well casing riser (in inches): 2
 Well cover type: 8" or 12" UV _____ 12" EMCO _____ 8" or 12" BK 8" Christy _____
 12" Christy _____ 8" M&D _____ 12" M&D _____ 12" DWP _____
 12" CNI _____ 36" CNI _____ 12" Pomeco _____ Other: _____
 General condition of wellhead assembly: Excellent _____ Good Fair _____ Poor _____

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
 _____ 2" PVC bailer _____ Dedicated bailer
 _____ 4" PVC bailer Centrifugal pump

Sampled with: Disposable bailer Teflon bailer _____ Disposable Tubing _____

Well Diameter: 2" 4" _____ 6" _____ 8" _____
 Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement Recharge Measurement
 Time: 1149 Time: 1314 Calculated purge: 7.4 gal
 Depth of well: 27.03 Depth to water: 13.82 Actual purge: 7.4 gal
 Depth to water: 11.51

Start purge: 1230 Sampling time: 1315

Time	Temperature	E.C.	pH	Turbidity	Volume
1232	20.8	1289	708	—	1
1234	20.9	1227	698	—	2
1237	20.8	1238	697	—	3

Sample appearance: cloudy Lock: none

Equipment replaced: (check all that apply) Note condition of replaced item(s)
 2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____
 4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
 6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

Signature: [Signature]

Client: WRM

Sampling Date: 12-20-07

Site: Former City of Paris Cleaner Project No.: _____

3516 Adeline St

Well Designation: MW-2

Oakland CA

Is setup of traffic control devices required? NO YES time: _____ hours
 Is there standing water in the well box? NO YES Above TOC _____ Below TOC
 Is top of casing cut level? NO YES If no, see remarks
 Is well cap sealed and locked? NO YES If no, see remarks
 Height of well casing riser (in inches): 2
 Well cover type: 8" or 12" UV _____ 12" EMCO _____ 8" or 12" BK 8" Christy _____
 12" Christy _____ 8" M&D _____ 12" M&D _____ 12" DWP
 12" CNI _____ 36" CNI _____ 12" Pomeco _____ Other: _____
 General condition of wellhead assembly: Excellent _____ Good Fair _____ Poor _____

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
 _____ 2" PVC bailer _____ Dedicated bailer
 _____ 4" PVC bailer _____ Centrifugal pump
 Sampled with: Disposable bailer Teflon bailer _____ Disposable Tubing _____

Well Diameter: 2" 4" _____ 6" _____ 8" _____
 Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement

Time: 1145
 Depth of well: 29.36
 Depth to water: 9.95

Recharge Measurement

Time: 1249
 Depth to water: 12.27

Calculated purge: 9.2 gal
 Actual purge: 9.3

Start purge: 1200

Sampling time: 1250

Time	Temperature	E.C.	pH	Turbidity	Volume
1202	22.4	1641	716	---	1
1204	22.3	1604	702	---	2
1207	22.3	1603	701	---	3

Pumped

Sample appearance: _____

Lock: _____

Equipment replaced: (check all that apply)

Note condition of replaced item(s)

2" Locking Cap: _____

Lock: _____

7/32 Allenhead: _____

4" Locking Cap: _____

Lock-Dolphin: _____

9/16 Bolt: _____

6" Locking Cap: _____

Pinned Allenhead (DWP): _____

Remarks: under stamp

Signature: _____

[Handwritten Signature]

Client: WRM

Sampling Date: 12-20-07

Site: Former City of Paris Cleaners Project No.: _____

3516 Adeline St

Well Designation: MW-3

Oakland CA

Is setup of traffic control devices required? NO YES time: _____ hours
 Is there standing water in the well box? NO YES Above TOC Below TOC
 Is top of casing cut level? NO YES If no, see remarks
 Is well cap sealed and locked? NO YES If no, see remarks
 Height of well casing riser (in inches): 3
 Well cover type: 8" or 12" UV _____ 12" EMCO _____ 8" or 12" BK 8" Christy _____
 12" Christy _____ 8" M&D _____ 12" M&D _____ 12" DWP _____
 12" CNI _____ 36" CNI _____ 12" Pomeco _____ Other: _____
 General condition of wellhead assembly: Excellent _____ Good Fair _____ Poor _____

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
 _____ 2" PVC bailer _____ Dedicated bailer
 _____ 4" PVC bailer _____ Centrifugal pump
 Sampled with: Disposable bailer Teflon bailer _____ Disposable Tubing _____

Well Diameter: 2" 4" _____ 6" _____ 8" _____
 Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.

Initial Measurement Recharge Measurement
 Time: 1152 Time: 1359 Calculated purge: 9 gal
 Depth of well: 29.49 Depth to water: 13.82 Actual purge: 8.4
 Depth to water: 10.79

Start purge: 1205 Sampling time: 1300

Time	Temperature	E.C.	pH	Turbidity	Volume
1217	21.4	1462	7.47	—	1
1219	21.2	1317	7.91	—	2
1221	21.2	1387	7.28	—	3

Purge logs

Sample appearance: clear Lock: none

Equipment replaced: (check all that apply) Note condition of replaced item(s)
 2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____
 4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
 6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: _____

Signature: [Signature]

Client: WRM

Sampling Date: 12-20-07

Site: Former City of Paris Cleaner Project No.: _____

3516 Adeline St

Well Designation: IW

Oakland CA

Is setup of traffic control devices required? NO YES time: _____ hours
 Is there standing water in the well box? NO YES Above TOC Below TOC
 Is top of casing cut level? NO YES If no, see remarks
 Is well cap sealed and locked? NO YES If no, see remarks
 Height of well casing riser (in inches): 3
 Well cover type: 8" or 12" UV _____ 12" EMCO _____ 8" or 12" BK 8" Christy _____
 12" Christy _____ 8" M&D _____ 12" M&D _____ 12" DWP _____
 12" CNI _____ 36" CNI _____ 12" Pomeco _____ Other: _____
 General condition of wellhead assembly: Excellent _____ Good Fair _____ Poor _____

Purging Equipment: _____ 2" disposable bailer _____ Submersible pump
 _____ 2" PVC bailer _____ Dedicated bailer
 _____ 4" PVC bailer Centrifugal pump
 Sampled with: Disposable bailer Teflon bailer _____ Disposable Tubing _____

Well Diameter: 2" 4" _____ 6" _____ 8" _____
 Purge Vol. Multiplier: 0.16 0.65 1.47 2.61 gal/ft.
Initial Measurement Recharge Measurement
 Time: 1156 Time: 1344 Calculated purge: 102 gal
 Depth of well: 32.85 Depth to water: 14.16 Actual purge: 10.2 gal
 Depth to water: 11.68

Start purge: 1325 Sampling time: 1345

Time	Temperature	E.C.	pH	Turbidity	Volume
1328	20.4	940	714	—	
1331	20.3	938	710	—	
1335	20.3	938	711	—	

Sample appearance: cloudy Lock: open

Equipment replaced: (check all that apply) Note condition of replaced item(s)
 2" Locking Cap: _____ Lock: _____ 7/32 Allenhead: _____
 4" Locking Cap: _____ Lock-Dolphin: _____ 9/16 Bolt: _____
 6" Locking Cap: _____ Pinned Allenhead (DWP): _____

Remarks: TD 58.2 feet after sanding

Signature: [Signature]



Western Resource Management
Daily Field Report

Name: Stewart Fink
Date: 12/21/07

Project Name: City of Paris Cleaners
Project Address: 3516 Adeline Street
Oakland, CA.
Project No. 051074
Task: WELL VAULT REPAIR

Staff: S. Kink (w/ HAL HANSEN)
Miles: 72 miles
Hours: 8 HOURS

Field Equipment In Use

Q-001	Air Sampling Pump	
Q-002	Brass Tubes	
Q-004	Disposable Bailer	
Q-005	DO Meter	
Q-007	Generator	
Q-008	Trimble GPS Receiver	
Q-009	Grundfos Pump	
Q-014	Locking Well Cap	
Q-015	Master Lock	
Q-016	pH/Temp/EC Meter	
Q-017	Photoionization Detector	
Q-018	Sampling Supplies	
	WELL VAULT 8"	1
	SAND * Bags	12

Q-022	Tedlar Bags	
Q-024	Turbidity Meter	
Q-026	Water Level Indicator	
Q-029	Disposable Tubing (ft)	
Q-030	Teflon Tubing (ft)	
Q-031	Combo Meter (DO/ORP/pH)	
Q-032	Air Compressor	
Q-033	Anemometer	
Q-034	Manometer	
Q-035	Rotary Hammer Drill	
Q-036	IR Thermometer	
Q-037	Bladder Pump	
	CONCRETE *	3
	PVC 2" *	5FT.

Drum Status 0
Soil: 0
Water: 0
Notes:

Subcontractors on Site
Douglas ENVIRONMENTAL: HAL SUTTON.
SAMPLED 4 WELLS. (MW 1, 2, 3 & SW Well)

Description of Work
INDUSTRIAL WELL REPAIR
- Added 4 FT of 2" PVC
- NEW 8" WELL VAULT
- Filled void space w/ 12 bags of sand.

CURRENT PROPERTY OWNERS SATISFIED WITH NEW VAULT.

Sketch
NOTE:
Douglas ENVIRONMENTAL Provided
1 - 8" WELL VAULT 4 - NEW WELL CAPS
3 bags of sand
1 bag of concrete

* SEE: PURCHASED ITEMS DATED 12/14/07

City of Paris Cleaners
3516 Adeline Street
Oakland, Ca.

Field Report and Well Data

11/30/07

<u>Well</u>	<u>Depth-to-Water</u>	<u>Total Depth</u>	<u>Casing size</u>	<u>Comments</u>
MW-1	13.95 Ft.	27.20 Ft.	2"	Odor, Needs new Cap.
MW-2	11.06 Ft.	29.65 Ft.	2"	No Odor, Needs new Cap.
Mw-3	13.90 Ft.	29.82 Ft.	2"	Low Odor, Needs new Cap.
Ind. Well	12.92 Ft.	33.02 Ft.*	2"	NO VAULT; CASING BROKEN

*Industrial Well, No well vault or lid 8", Casing broken off 4 ft down hole; Grout seal below broken pipe. May be possible to add 2" pipe to broken casing (below grade pipe at an angle). Possible to re-grout around casing and install new vault. (8" concrete core looks O.K.).

Well-1, Well-2, Well-3 are O.K. (no bolts but secure), all three need new well caps.

Notified property owners that we may begin quarterly sampling in December. Owners need to be notified and home due to access and pets (dogs).

NO drums are to be left on-site. Due to past sampling events, drums were left onsite.

Pictures Taken.

APPENDIX B
LABORATORY REPORTS

Mr Ballard
Western Resource Management
P.O. Box 8738
Citrus Heights, CA 95621

Client	Western Resource Management
Workorder	18322 City of Paris Cleaner
Received	12/21/07

The samples were received in EPA specified containers. The samples were transported and received under documented chain of custody and stored at four (4) degrees C until analysis was performed.

Sparger Technology, Inc. ID Suffix Keys - These descriptors will follow the Sparger Technology, Inc. ID numbers and help identify the specific sample and clarify the report.

- DUP - Matrix Duplicate
- MS - Matrix Spike
- MSD - Matrix Spike Duplicate
- LCS - Lab Control Sample
- LCSD - Lab Control Sample Duplicate
- RPD - Relative Percent Difference
- QC - Additional Quality Control
- DIL - Results from a diluted sample
- ND - None Detected
- RL - Reporting Limit

Note: In an effort to conserve paper, the results are printed on both sides of the paper.



Ray James
Laboratory Director

Mr Ballard
Western Resource Management
P.O. Box 8738
Citrus Heights, CA 95621

Workorder 18322

Enclosed are the results from samples received on December 21, 2007.

The requested analyses are listed below.

SAMPLE	SAMPLE DESCRIPTION	DATE COLLECTED	TEST METHOD
18322001	MW-1, Water	12/20/07	8015M TPHd DHS 8015M TPHgDHS 8260B BTEX/FOCs
18322002	MW-2, Water	12/20/07	8015M TPHd DHS 8015M TPHgDHS 8260B BTEX/FOCs
18322003	MW-3, Water	12/20/07	8015M TPHd DHS 8015M TPHgDHS 8260B BTEX/FOCs
18322004	IW, Water	12/20/07	8015M TPHd DHS 8015M TPHgDHS 8260B BTEX/FOCs

Test Certificate of Analysis

Client ID Western Resource Management
Workorder # 18322
Laboratory ID 18322001
Sample ID MW-1
Matrix Water

Workorder ID City of Paris Cleaner
Sampled 12/20/07
Received 12/21/07
Reported 01/09/08

8260B Oxygenates - 8260B BTEX/FOCs

Parameter	Prep Date	Analyzed	Result	RL	Units	Dilution
Methyl-tert-butyl-ether	12/28/07	12/28/07	ND	5.0	ug/L	1:10
Benzene	12/28/07	12/28/07	20	10	ug/L	1:10
Toluene	12/28/07	12/28/07	50	10	ug/L	1:10
Ethylbenzene	12/28/07	12/28/07	20	10	ug/L	1:10
Xylene (Total)	12/28/07	12/28/07	100	10	ug/L	1:10

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	49 ug/L	98 %	(65 - 135)

Test Certificate of Analysis

Client ID Western Resource Management
Workorder # 18322
Laboratory ID 18322002
Sample ID MW-2
Matrix Water

Workorder ID City of Paris Cleaner
Sampled 12/20/07
Received 12/21/07
Reported 01/09/08

8260B Oxygenates - 8260B BTEX/FOCs

Parameter	Prep Date	Analyzed	Result	RL	Units	Dilution
Methyl-tert-butyl-ether	12/28/07	12/28/07	2.9	0.50	ug/L	1:1
Benzene	12/28/07	12/28/07	ND	1.0	ug/L	1:1
Toluene	12/28/07	12/28/07	1.6	1.0	ug/L	1:1
Ethylbenzene	12/28/07	12/28/07	ND	1.0	ug/L	1:1
Xylene (Total)	12/28/07	12/28/07	2.4	1.0	ug/L	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	47 ug/L	94 %	(65 - 135)

Test Certificate of Analysis

Client ID Western Resource Management
Workorder # 18322
Laboratory ID 18322003
Sample ID MW-3
Matrix Water

Workorder ID City of Paris Cleaner
Sampled 12/20/07
Received 12/21/07
Reported 01/09/08

8260B Oxygenates - 8260B BTEX/FOCs

Parameter	Prep Date	Analyzed	Result	RL	Units	Dilution
Methyl-tert-butyl-ether	12/28/07	12/28/07	9.2	0.50	ug/L	1:1
Benzene	12/28/07	12/28/07	ND	1.0	ug/L	1:1
Toluene	12/28/07	12/28/07	1.6	1.0	ug/L	1:1
Ethylbenzene	12/28/07	12/28/07	1.1	1.0	ug/L	1:1
Xylene (Total)	12/28/07	12/28/07	2.4	1.0	ug/L	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	48 ug/L	96 %	(65 - 135)

Test Certificate of Analysis

Client ID Western Resource Management
Workorder # 18322
Laboratory ID 18322004
Sample ID IW
Matrix Water

Workorder ID City of Paris Cleaner
Sampled 12/20/07
Received 12/21/07
Reported 01/09/08

8260B Oxygenates - 8260B BTEX/FOCs

Parameter	Prep Date	Analyzed	Result	RL	Units	Dilution
Methyl-tert-butyl-ether	12/28/07	12/28/07	ND	0.50	ug/L	1:1
Benzene	12/28/07	12/28/07	ND	1.0	ug/L	1:1
Toluene	12/28/07	12/28/07	1.0	1.0	ug/L	1:1
Ethylbenzene	12/28/07	12/28/07	ND	1.0	ug/L	1:1
Xylene (Total)	12/28/07	12/28/07	2.2	1.0	ug/L	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	52 ug/L	104 %	(65 - 135)

Test Certificate of Analysis

Client ID Western Resource Management
Workorder # 18322

Workorder ID City of Paris Cleaner

Laboratory ID 18322001
Sample ID MW-1
Matrix Water

Sampled 12/20/07
Received 12/21/07
Reported 01/09/08

8015M DHS TPH LUFT

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas ¹	8015M TPHgDHS	12/28/07	12/28/07	110000	50	ug/L	1:1
Surrogates	Result	Recovery	Limits				
Trifluorotoluene	21 ug/L	105 %	(65 - 135)				

1 - Non-typical TPH pattern present in gas range.

Laboratory ID 18322002
Sample ID MW-2
Matrix Water

Sampled 12/20/07
Received 12/21/07
Reported 01/09/08

8015M DHS TPH LUFT

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas ¹	8015M TPHgDHS	12/28/07	12/28/07	3000	50	ug/L	1:1
Surrogates	Result	Recovery	Limits				
Trifluorotoluene	17 ug/L	85 %	(65 - 135)				

1 - Non-typical TPH pattern present in gas range.

Test Certificate of Analysis

Client ID Western Resource Management
Workorder # 18322

Workorder ID City of Paris Cleaner

Laboratory ID 18322003
Sample ID MW-3
Matrix Water

Sampled 12/20/07
Received 12/21/07
Reported 01/09/08

8015M DHS TPH LUFT

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas ¹	8015M TPHgDHS	12/28/07	12/28/07	12000	50	ug/L	1:1
Surrogates	Result	Recovery	Limits				
Trifluorotoluene	18 ug/L	90 %	(65 - 135)				

1 - Non-typical TPH pattern present in gas range.

Laboratory ID 18322004
Sample ID IW
Matrix Water

Sampled 12/20/07
Received 12/21/07
Reported 01/09/08

8015M DHS TPH LUFT

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas ¹	8015M TPHgDHS	12/28/07	12/28/07	500	50	ug/L	1:1
Surrogates	Result	Recovery	Limits				
Trifluorotoluene	17 ug/L	85 %	(65 - 135)				

1 - Non-typical TPH pattern present in gas range.

Test Certificate of Analysis

Client ID Western Resource Management
Workorder # 18322

Workorder ID City of Paris Cleaner

Parameter Method Stoddard Solvent
 8015M TPHd DHS

Lab ID	Sample ID	Result	RL	Units	Collected	Analyzed	Matrix	Dilution
18322001	MW-1	45000	50.0	ug/L	12/20/07	01/09/08	Water	1:1
18322002	MW-2	ND	50.0	ug/L	12/20/07	01/09/08	Water	1:1
18322003	MW-3	18000	50.0	ug/L	12/20/07	01/09/08	Water	1:1
18322004	IW	ND	50.0	ug/L	12/20/07	01/09/08	Water	1:1

Method Blank Report

Client ID Western Resource Management
Workorder ID City of Paris Cleaner
Laboratory ID 84885
Sample ID MB for HBN 339656 [VGXV/2903]
Matrix Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015M TPHgDHS	12/28/07	12/28/07	ND	50	ug/L	1:1
Surrogates	Result	Recovery	Limits				
Trifluorotoluene	17 ug/L	85 %	(70 - 130)				

Lab Control Sample Report

Client ID Western Resource Management
Workorder ID City of Paris Cleaner
Laboratory ID 84886
Sample ID LCS for HBN 339656 [VGXV/2903]
Matrix Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015M TPHgDHS	12/28/07	12/28/07	1040	50	ug/L	1:1

Lab Control Sample Duplicate Report

Client ID Western Resource Management
Workorder ID City of Paris Cleaner
Laboratory ID 84887
Sample ID LCSD for HBN 339656 [VGXV/2903]
Matrix Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015M TPHgDHS	12/28/07	12/28/07	1120	50	ug/L	1:1

Matrix Spike Report

Client ID Western Resource Management
Workorder ID City of Paris Cleaner
Laboratory ID 84888
Sample ID MS for HBN 339656 [VGXV/2903]
Matrix Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
-----------	--------	-----------	----------	--------	----	-------	----------

Matrix Spike Report

Client ID Western Resource Management
Workorder ID City of Paris Cleaner
Laboratory ID 84888
Sample ID MS for HBN 339656 [VGXV/2903]
Matrix Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
(continued)							
TPHgas	8015M TPHgDHS	12/28/07	12/28/07	1200	50	ug/L	1:1

Matrix Spike Duplicate Report

Client ID Western Resource Management
Workorder ID City of Paris Cleaner
Laboratory ID 84889
Sample ID MSD for HBN 339656 [VGXV/2903]
Matrix Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
TPHgas	8015M TPHgDHS	12/28/07	12/28/07	1070	50	ug/L	1:1

Method Blank Report

Client ID Western Resource Management
Workorder ID City of Paris Cleaner
Laboratory ID 84890
Sample ID MB for HBN 339659 [VMXV/2954]
Matrix Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Methyl-tert-butyl-ether	8260B BTEX/FOCs	12/28/07	12/28/07	ND	0.50	ug/L	1:1
Benzene	8260B BTEX/FOCs	12/28/07	12/28/07	ND	1.0	ug/L	1:1
Toluene	8260B BTEX/FOCs	12/28/07	12/28/07	ND	1.0	ug/L	1:1
Ethylbenzene	8260B BTEX/FOCs	12/28/07	12/28/07	ND	1.0	ug/L	1:1
Xylene (Total)	8260B BTEX/FOCs	12/28/07	12/28/07	ND	1.0	ug/L	1:1

Surrogates	Result	Recovery	Limits
1,2-Dichloroethane-d4	50 ug/L	100 %	(65 - 135)

Lab Control Sample Report

Client ID Western Resource Management
Workorder ID City of Paris Cleaner
Laboratory ID 84891
Sample ID LCS for HBN 339659 [VMXV/2954]
Matrix Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Methyl-tert-butyl-ether	8260B BTEX/FOCs	12/28/07	12/28/07	51	0.50	ug/L	1:1
Benzene	8260B BTEX/FOCs	12/28/07	12/28/07	46	1.0	ug/L	1:1
Toluene	8260B BTEX/FOCs	12/28/07	12/28/07	46	1.0	ug/L	1:1
Ethylbenzene	8260B BTEX/FOCs	12/28/07	12/28/07	46	1.0	ug/L	1:1
Xylene (Total)	8260B BTEX/FOCs	12/28/07	12/28/07	133	1.0	ug/L	1:1

Lab Control Sample Duplicate Report

Client ID Western Resource Management
Workorder ID City of Paris Cleaner
Laboratory ID 84892
Sample ID LCSD for HBN 339659 [VMXV/2954]
Matrix Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Methyl-tert-butyl-ether	8260B BTEX/FOCs	12/28/07	12/28/07	47	0.50	ug/L	1:1
Benzene	8260B BTEX/FOCs	12/28/07	12/28/07	44	1.0	ug/L	1:1
Toluene	8260B BTEX/FOCs	12/28/07	12/28/07	45	1.0	ug/L	1:1
Ethylbenzene	8260B BTEX/FOCs	12/28/07	12/28/07	45	1.0	ug/L	1:1
Xylene (Total)	8260B BTEX/FOCs	12/28/07	12/28/07	129	1.0	ug/L	1:1

Matrix Spike Report

Client ID Western Resource Management
Workorder ID City of Paris Cleaner
Laboratory ID 84893
Sample ID MS for HBN 339659 [VMXV/2954]
Matrix Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Methyl-tert-butyl-ether	8260B BTEX/FOCs	12/28/07	12/28/07	54	0.50	ug/L	1:1
Benzene	8260B BTEX/FOCs	12/28/07	12/28/07	50	1.0	ug/L	1:1
Toluene	8260B BTEX/FOCs	12/28/07	12/28/07	55	1.0	ug/L	1:1
Ethylbenzene	8260B BTEX/FOCs	12/28/07	12/28/07	53	1.0	ug/L	1:1

Matrix Spike Report

Client ID Western Resource Management
Workorder ID City of Paris Cleaner
Laboratory ID 84893
Sample ID MS for HBN 339659 [VMXV/2954]
Matrix Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
<i>(continued)</i>							
Xylene (Total)	8260B BTEX/FOCs	12/28/07	12/28/07	156	1.0	ug/L	1:1

Matrix Spike Duplicate Report

Client ID Western Resource Management
Workorder ID City of Paris Cleaner
Laboratory ID 84894
Sample ID MSD for HBN 339659 [VMXV/2954]
Matrix Water

Parameter	Method	Prep Date	Analyzed	Result	RL	Units	Dilution
Methyl-tert-butyl-ether	8260B BTEX/FOCs	12/28/07	12/28/07	53	0.50	ug/L	1:1
Benzene	8260B BTEX/FOCs	12/28/07	12/28/07	57	1.0	ug/L	1:1
Toluene	8260B BTEX/FOCs	12/28/07	12/28/07	60	1.0	ug/L	1:1
Ethylbenzene	8260B BTEX/FOCs	12/28/07	12/28/07	59	1.0	ug/L	1:1
Xylene (Total)	8260B BTEX/FOCs	12/28/07	12/28/07	171	1.0	ug/L	1:1

QC SUMMARY

Client ID Western Resource Management
Workorder ID City of Paris Cleaner
QC Batch VGX 3017
Matrix Water

Original Samples 18329008
Matrix Spike [84888]
Matrix Spike Duplicate [84889]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHgas	120	107	(65-135)	11	(20 MAX)

Client ID Western Resource Management
Workorder ID City of Paris Cleaner
QC Batch VMX 3000
Matrix Water

Original Samples 18329008
Matrix Spike [84893]
Matrix Spike Duplicate [84894]

Parameter	Spike %Recovery	Spike Dup %Recovery	Recovery Limits	RPD	RPD Limits
Methyl-tert-butyl-ether	108	106	(65-135)	1.9	(20 MAX)
Benzene	100	114	(65-135)	13	(20 MAX)
Toluene	110	120	(65-135)	8.7	(20 MAX)
Ethylbenzene	106	118	(65-135)	11	(20 MAX)
Xylene (Total)	104	114	(65-135)	9.2	(20 MAX)

Client ID Western Resource Management
Workorder ID City of Paris Cleaner
QC Batch VGX 3017
Matrix Water

Samples Lab Control Sample [84886]
Lab Control Sample Duplicate [84887]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
TPHgas	104	112	(65-135)	7.4	(20 MAX)

Client ID Western Resource Management
Workorder ID City of Paris Cleaner
QC Batch VMX 3000
Matrix Water

Samples Lab Control Sample [84891]
Lab Control Sample Duplicate [84892]

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
-----------	-----------------	---------------------	-----------------	-----	------------

QC SUMMARY

Client ID Western Resource Management
Workorder ID City of Paris Cleaner
QC Batch VMX 3000
Matrix Water

Samples Lab Control Sample [84891]
 Lab Control Sample Duplicate [84892]
 (continued)

Parameter	Check %Recovery	Check Dup %Recovery	Recovery Limits	RPD	RPD Limits
Methyl-tert-butyl-ether	102	94	(65-135)	8.2	(20 MAX)
Benzene	92	88	(65-135)	4.4	(20 MAX)
Toluene	92	90	(65-135)	2.2	(20 MAX)
Ethylbenzene	92	90	(65-135)	2.2	(20 MAX)
Xylene (Total)	89	86	(65-135)	3.4	(20 MAX)



3050 Fite Circle, #112
 Sacramento, CA 95827
 Voice: (916) 362-8947
 Fax: (916) 362-0947
 Email: SPARGER@SPARGERTECHNOLOGY.COM

WORKORDER #: **18322**

REMARKS:

Page: 1 of 1

Project Contact (Hardcopy and/or PDF to): **Tom Ballard**
 California EDF Report? YES NO

Company/Address: **Waste Resource Managers**
 OPTIONAL Sampling Company Log Code:

Phone #: **729 1760** Fax #: **313 3439**
 Global ID:

Project #: **0 City** P.O. #:
 EDF Deliverable To (Email Address):

Project Name: **City of Davis Clean**
 Sampler's Signature: *[Signature]* Sampler's Name (PRINT): **Hal Hansen**

Project Address: **35K Adeline St. Oakland**
Sampling
 Container Preservative Matrix

NO.	SAMPLE ID	Date	Time	Container		Preservative				Matrix	
				40 mL VOA	SLEEVE	HCL	HNO ₃	ICE	NONE	WATER	SOIL
1	MW-1	12-2007	1315	3	2	X		X		X	
2	MW-2		1250								
3	MW-3		1300								
4	IW		1345	V	V	V		V		V	
5											
6											
7											
8											
9											
10											

Chain of Custody and Analysis Request

Analysis Request **TAT**

BTEX (8021B)	BTEX/TPH Gas (M8015)	TPH as Diesel (M8015)	TPH as Motor Oil (M8015)	TPH Gas (BTEX/MTBE) (8260B)	5 Oxygenates/TPH Gas (BTEX) (8260B)	7 Oxygenates/TPH Gas (BTEX) (8260B)	5 Oxygenates (8260B)	7 Oxygenates (8260B)	Lead Scav. (1,2 DCA & 1,2 EDB - 8260B)	EPA 8260B (Full List)	Volatile Halocarbons (EPA 8260B)	Lead (7421/239.2) Total (X) W.E.T (X)	
X	X	X	X	X	X	X	X	X	X	X	X	X	12 hr/ 24 hr/ 48 hr/ 72 hr/ 1 wk
X	X	X	X	X	X	X	X	X	X	X	X	X	327
X	X	X	X	X	X	X	X	X	X	X	X	X	

Relinquished By: *[Signature]* Date: **12-2007** Time:
 Relinquished By: Date: Time

Relinquished By: Date: Time
 Received By: **R. James** Date: **12/18/07** Time: **1:50**

Distribution: (WHITE)-LAB, (YELLOW)-ORIGINATOR
 PLEASE READ REVERSE SIDE FOR TERMS AND CONDITIONS

Bill to: **Tom Ballard**