Woodward-Clyde
Engineering & Sciences applied to the earth & its environment

ALCO
HAZMAT
94 JUL 19 AM 9:03

July 14, 1994

Ms. Eva Chu
Alameda County Health Care Services Agency
Department of Environmental Health
80 Swan Way, Room 200
Oakland, CA 94621

Subject: Continental Baking Company, 6841 Village Parkway, Dublin, CA 94568
Quarterly Groundwater Monitoring Report

Dear Ms. Chu:

In response to your letter to Mr. Fred Dannecker, Continental Baking Company (CBC), requesting quarterly groundwater monitoring reporting, this letter report is being submitted. Woodward-Clyde Consultants is providing environmental consulting services to CBC and is submitting this report on their behalf.

GROUNDWATER ELEVATION

Water level measurements were performed in May and June, 1994 by WCC personnel. Water levels were measured in monitoring wells MW-1, 2 and 3 with a Solinst sounder and recorded to the nearest 0.01 foot. Table 1 summarizes the groundwater elevation variation in the three monitoring wells since the first investigation at the CBC Dublin facility in March, 1994. Figure 1 is a location map of the CBC facility. Figures 2 and 3 are groundwater elevation contour maps for the last two months reported in the present quarterly report.

The reported results from the May and June 1994 water elevation measurements are the following:

- The groundwater elevation was calculated to be ranging from 329.2 (MW-2, June) to 330.04 (MW-3, May) feet above mean sea level (MSL), a few inches lower than in March 1994.
- The calculated groundwater flow direction was estimated to be towards the west-southwest.
- The calculated gradient was estimated to be ranging from 0.001 (June) to 0.003 (May) feet/foot.

Woodward-Clyde Consultants
500 12th Street, Suite 100 • Oakland, CA 94607-4014
(510) 893-3600 • Fax (510) 874-3268

The reported results from March, May and June 1994 are generally consistent. The groundwater elevation variation may be attributed to seasonal and precipitation variations. The general slope of the CBC Dublin facility is relatively flat.

ANALYTICAL RESULTS

Sampling activities were performed in May, 1994 by WCC personnel. A copy of the field activity report is attached.

Prior to well development and sampling, an oil/water interface probe was used to detect the presence of an immiscible layer. No measurable immiscible layer was detected in any of the wells.

The wetted casing volume was calculated for each well and approximately 4 casing volumes were removed from each well prior to sampling. In addition to the groundwater samples collected from the three monitoring wells, one duplicate sample was collected from well MW-2 and labelled MW-4. Samples were submitted for analysis for Total Petroleum Hydrocarbons (TPH) and quantified as Diesel (TPHd, modified EPA Method 8015) and a benzene, toluene, ethylbenzene, and xylene (BTEX, EPA Method 8020). Sample analyses were performed by Anametrix Laboratories, San Jose, California. Copies of the laboratory data sheets and the chain-of-custody form are attached.

A quality assurance/quality control review of the analytical data was performed by a WCC chemist. The results of the review indicated that the data are of acceptable quality.

The reported results from the May 1994 sampling and analysis effort are summarized in Table 2, and are the following:

- TPHd was detected at concentration of 210 and 240 µg/L in samples from wells MW-1 and 2 respectively. No TPHd was detected in well MW-3.
- Concentrations of BTEX were not detected in groundwater monitoring wells MW-1 and 2. Low concentrations of benzene (0.56 µg/L) and xylenes (1.56 µg/L) were detected in monitoring well MW-3.

- The laboratory notes that their results reported as gasoline for the sample and duplicate from well MW-2 are primarily due to the presence of a discreet peak not indicative of gasoline.

The reported results from this sampling and analysis effort are consistent with results reported for samples from these wells in March, 1994.

If you have any questions, please feel free to phone me at (510) 874-3138.

Sincerely,

JoBeth Folger

Attachments

c: Fred Dannecker, CBC-SF
Charles Gjersvik, CBC-SL
Jim Hummert, WCC-SL

TABLE - 1

SUMMARY OF GROUNDWATER ELEVATION
CONTINENTAL BAKERY COMPANY, DUBLIN, CALIFORNIA

Well Identification	Date	Top of casing Elevation (feet above MSL)	Depth to water (feet below top of casing)	Water Surface Elevation (feet above MSL)
MW-1	3/7/94	340.8	9.97	330.83
	5/27/94	340.8	10.87	329.93
	6/29/94	340.8	11.58	329.22
MW-2	3/7/94	340.39	9.71	330.68
	5/27/94	340.39	10.52	329.87
	6/29/94	340.39	11.19	329.2
MW-3	3/7/94	340.47	9.53	330.94
	5/27/94	340.47	10.43	330.04
	6/29/94	340.47	11.2	329.27

MSL = Mean Sea Level (City of Santa Rosa vertical datum)

TABLE - 2

SUMMARY OF ANALYTICAL RESULTS

CONTINENTAL BAKING COMPANY, DUBLIN, CALIFORNIA

Parameters/		TPH diesel	TPH BTEX			
			benzene	toluene	ethyl-benzene	tot. xylenes
EPA Method		8015	8020			
Units		(ppb)	(ppb)			
Well Number	Date					
MW-1	3/7/94	210/230	0.50/<0.5	0.50/<0.5	0.50/<0.5	0.50/<0.50
	5/27/94	210	<0.50	<0.50	<0.50	<0.50
MW-2	3/7/94	240	<0.50	<0.50	<0.50	<0.50
	5/27/94	240/210	0.50/<0.5	0.50/<0.5	0.50/<0.5	0.50/<0.50
MW-3	3/7/94	<50	<0.50	<0.50	<0.50	<0.50
	5/27/94	<50	0.56	<0.50	<0.50	1.56

ND - Analytical results did not exceed detection limits

NA - Not Analyzed

Results of duplicate sample analyses are shown separated by a dash ("/")

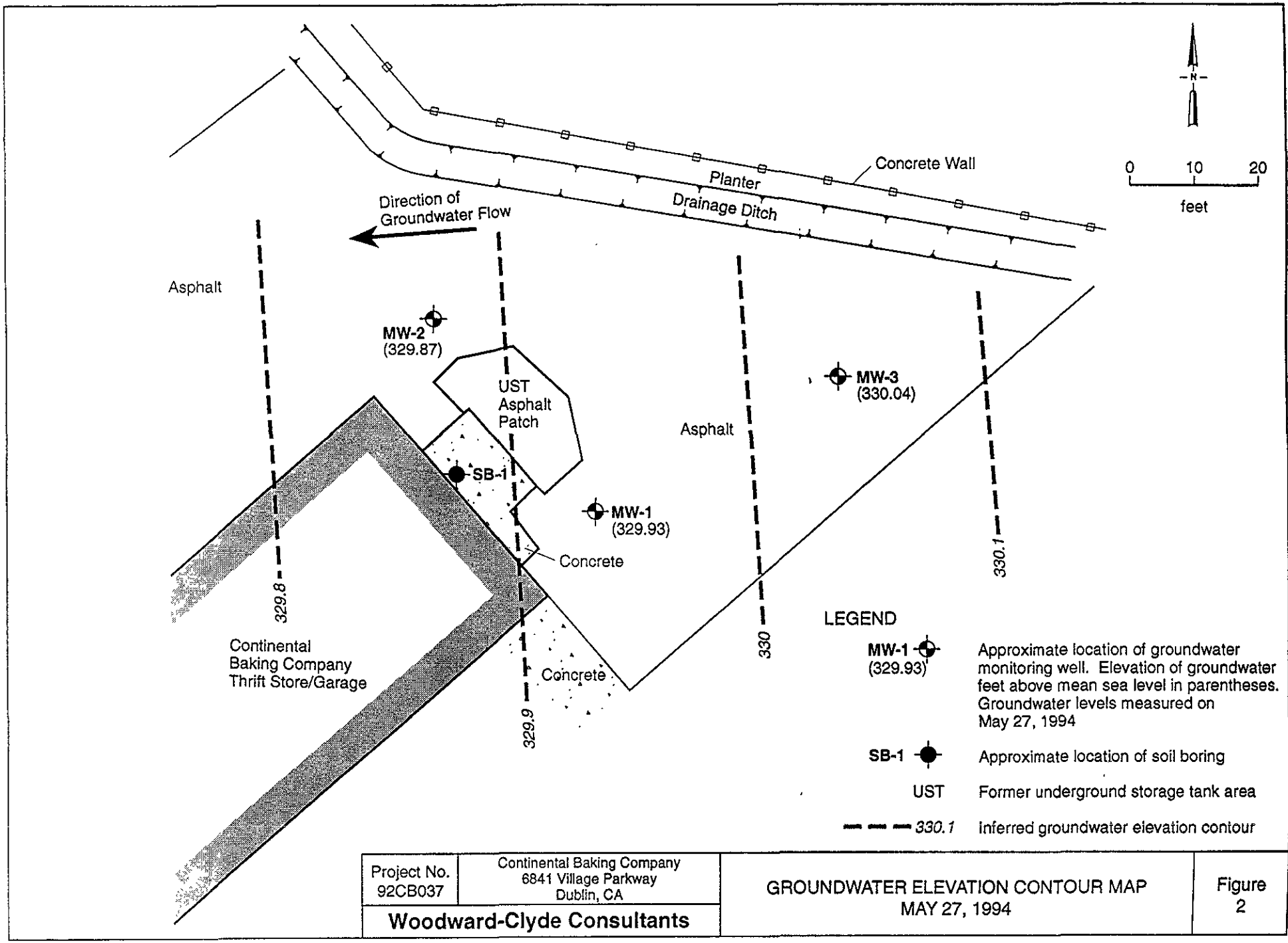
7/14/94 OM

N

0 1000 2000

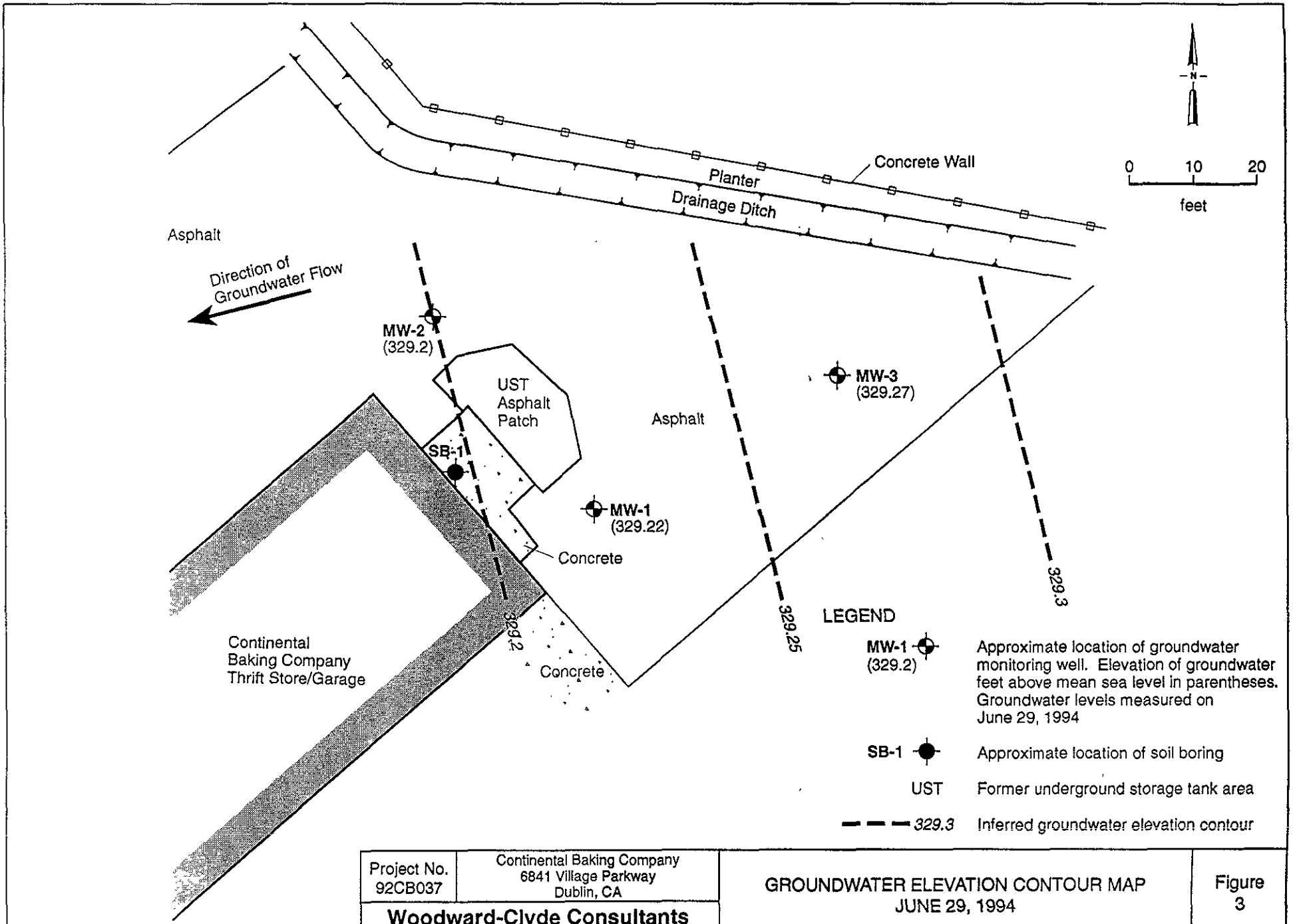
feet

Project No. 92CB037	Continental Baking Company 6841 Village Parkway Dublin, California	SITE LOCATION	Figure 1
Woodward-Clyde Consultants			



Project No. 92CB037	Continental Baking Company 6841 Village Parkway Dublin, CA	GROUNDWATER ELEVATION CONTOUR MAP MAY 27, 1994	Figure 2
Woodward-Clyde Consultants			

92CB037-0010/063094



Project No. 92CB037	Continental Baking Company 6841 Village Parkway Dublin, CA	GROUNDWATER ELEVATION CONTOUR MAP JUNE 29, 1994	Figure 3
Woodward-Clyde Consultants			

92CB037-0010/070594

Sample No.

WATER SAMPLE LOG

Sample No. MW-1

Project No. : 92CB077 Date: 5-27-94

Project Name: CBC - Dublin

Sample Location: MW-1 ; near building

Well Description: 4" PVC Dolphin lock 9/16" socket/bolt

Weather Conditions: Sonny

Observations / Comments:

Quality Assurance

Sampling Method: Disposable Bailer

Method to Measure Water Level : Solinst

Pump Lines: New / Cleaned Bailer Lines: (New) / Cleaned

Method of cleaning Pump / Bailer: DI Rinse, 1x's well water

pH Meter No.: 21852 Calibrated 7.00+10.01@25°C

Specific Conductance Meter No.: 13745 Calibrated Red. Lined

Comments: TD = 17.79; 6.92 x .653 = 4.51 x 4 = 18.0 gals/4CV

Sampling Measurements

Water Level (below MP) at Start: 10.87 End: 11.15 B.S.

Measuring Point (MP): Toc ("V" Notch)

Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance (µmhos / cm)	Turbidity	Color	Odor	Comments
1439	4	6.73	20.2	8,000	57	LT tan	?	
1441	8	6.78	20.4	8200	50	"	"	
1443	12	6.95	21.5	8400	>100	"	"	dry @ 15 g.
1506	18	7.08	20.7	8600	36	"	"	
1507	19	7.04	21.5	8,200	46	"	"	
1552	A.S.	7.15	20.8	8,100	31	"	"	

Total Discharge: 20 Casing Volumes Removed:

Method of disposal of discharged water: 1 - bbl (plus in MW-3 barrel)

Number and size of sample containers filled: @ 1545: 3 VOC's 4 HCl (TPHg/BTEX); 2 - 1L (TPH diesel)

Collected by: JL/JH

Woodward-Clyde Consultants
500 12th Street, Suite 100, Oakland, CA 94607-4014
(415) 893-3600

Sample No.

Water levels

MW-2	10.502	18.32 ft. 36 = 17.70
MW-3	10.43	17.36
MW-81	10.87	17.43

WATER SAMPLE LOG

Sample No. MW-2

Project No.: 92CB037.0010 Date: 5-27-94

Project Name: CBC. Dublin

Sample Location: MW-2

Well Description: 4" sch 40 PVC

Weather Conditions: sunny, breeze

Observations / Comments:

Quality Assurance

Sampling Method: New disposable Bailers

Method to Measure Water Level: Solinst

Pump Lines: New / Cleaned Bailer Lines: (New) / Cleaned

Method of cleaning Pump / Bailer:

pH Meter No.: 218552 Calibrated 7.00 + 10.01 @ 25C

Specific Conductance Meter No.: 13749 Calibrated Red-lined

Comments: TD = ~~18.70~~ 17.70; 7.18 x .1053 = 4.6 x 4 = 18.4 gals/4CV

Sampling Measurements

Water Level (below MP) at Start: 10.52 End: 12.39 ↑ B.S.

Measuring Point (MP): "V" NOTCH

Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance (µmhos / cm)	Turbidity	Color	Odor	Comments
1423	4.0	~~7.38~~ 7.21	26.4	10,000	70	tan	?	
1427	8.0	7.20	20.4	9,000	34	slightopaque	"	
1429	12.5	7.08	20.3	9800	>100	"	"	dry @ 13.5
1447	14.0	6.87	24.1	11,100	>100	"	"	
1449	16.0	6.90	20.2	10,400	>100	"	"	
1451	18.5	6.90	20.1	10,600	"	"	"	
1531	A.S.	7.04	22.6	10,000	15	"	"	

Total Discharge: 19.5 gal. Casing Volumes Removed: 4.23

Method of disposal of discharged water: To 1-bbl

Number and size of sample containers filled: @ 1515: 3 VOC's 4HCl (TPHG/BTEX); 2.1L (TPH diesel)

DUP: MW-4 @ 12:00

Collected by: SC/JH

Woodward-Clyde Consultants
500 12th Street, Suite 100, Oakland, CA 94607-4014
(415) 893-3600

Sample No.

WATER SAMPLE LOG

Sample No. MW-3

Project No.: 92CB3037 Date: 5-27-94

Project Name: CBC Dublin

Sample Location: MW-3

Well Description: 4" sch 40 PVC

Weather Conditions: Sonny, breeze

Observations / Comments:

Quality Assurance

Sampling Method: Disposable Bailer

Method to Measure Water Level: Solinst

Pump Lines: New / Cleaned Bailer Lines: (New) / Cleaned

Method of cleaning Pump / Bailer: DI, 1x well water

pH Meter No.: 218552 Calibrated

Specific Conductance Meter No.: 13749 Calibrated

Comments: TD=17.72 ; 7.24 x .653 = 4.7 x 4 = 19.0 gals/4W

Sampling Measurements

Water Level (below MP) at Start: 10.43 End 11.06 BS.

Measuring Point (MP): "V" Notch

Time	Discharge (gallons)	pH	Temp. (°C)	Specific Conductance (µmhos / cm)	Turbidity	Color	Odor	Comments
1433	4	7.31	20.6	9,300	50	tan	?	
1434	8	7.26	20.5	9,500	61	"	"	
1437	12	7.21	20.7	9,100	75	"	"	dry @ 14g
1459	16.5	7.26	20.8	9,100	50	"	"	
1459	19.0	7.20	20.5	9,200	70	"	"	
1542	A.S.	7.20	21.5	9,200	34	"	"	

Total Discharge: 209.0 Casing Volumes Removed: 4.25

Method of disposal of discharged water:

Number and size of sample containers filled: 3 VOC's HCl; 2-1L (TPHd) @ 1535
TPHg/BTEX

Collected by: JZ/JH

Woodward-Clyde Consultants
500 12th Street, Suite 100, Oakland, CA 94607-4014
(415) 893-3600

Inchcape Testing Services
Anametrix Laboratories

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

MS. JOBETH FOLGER
WOODWARD-CLYDE CONSULTANTS
500 12TH STREET, SUITE 100
OAKLAND, CA 94607-4041

Workorder # : 9405290
Date Received : 05/31/94
Project ID : 92CB037
Purchase Order: N/A

The following samples were received at Anametrix for analysis :

ANAMETRIX ID	CLIENT SAMPLE ID
9405290- 1	T. BLANK
9405290- 2	MW-4
9405290- 3	MW-2
9405290- 4	MW-3
9405290- 5	MW-1

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

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

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

If you have any further questions or comments on this report, please call us as soon as possible. Thank you for using Anametrix.

Todd Stringer for
Doug Robbins
Laboratory Director

6/15/94
Date

This report consists of 9 pages.

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

MS. JOBETH FOLGER
WOODWARD-CLYDE CONSULTANTS
500 12TH STREET, SUITE 100
OAKLAND, CA 94607-4041

Workorder # : 9405290
Date Received : 05/31/94
Project ID : 92CB037
Purchase Order: N/A
Department : GC
Sub-Department: TPH

SAMPLE INFORMATION:

ANAMETRIX SAMPLE ID	CLIENT SAMPLE ID	MATRIX	DATE SAMPLED	METHOD
9405290- 2	MW-4	WATER	05/27/94	TPHd
9405290- 3	MW-2	WATER	05/27/94	TPHd
9405290- 4	MW-3	WATER	05/27/94	TPHd
9405290- 5	MW-1	WATER	05/27/94	TPHd
9405290- 1	T. BLANK	WATER	05/27/94	TPHgBTEX
9405290- 2	MW-4	WATER	05/27/94	TPHgBTEX
9405290- 3	MW-2	WATER	05/27/94	TPHgBTEX
9405290- 4	MW-3	WATER	05/27/94	TPHgBTEX
9405290- 5	MW-1	WATER	05/27/94	TPHgBTEX

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

MS. JOBETH FOLGER
WOODWARD-CLYDE CONSULTANTS
500 12TH STREET, SUITE 100
OAKLAND, CA 94607-4041

Workorder # : 9405290
Date Received : 05/31/94
Project ID : 92CB037
Purchase Order: N/A
Department : GC
Sub-Department: TPH

QA/QC SUMMARY :

- The concentrations reported as gasoline for samples MW-4 and MW-2 are primarily due to the presence of a discrete peak not indicative of gasoline.

Department Supervisor — Date: 6/14/94

Chemist — Date: 06/14/94

Organic Analysis Data Sheet
Total Petroleum Hydrocarbons as Gasoline with BTEX
ITS - Anametrix Laboratories - (408)432-8192

Lab Workorder : 9405290 | Client Project ID : 92CB037

Matrix : WATER | Units : ug/L

Compound Name	Method Reporting Limit*	Client ID	Client ID	Client ID	Client ID	Client ID
		Lab ID	Lab ID	Lab ID	Lab ID	Lab ID
		Method Blank				
Benzene	0.50	ND				
Toluene	0.50	ND				
Ethylbenzene	0.50	ND				
Total Xylenes	0.50	ND				
TPH as Gasoline	50	ND				
Surrogate Recovery		102%				
Instrument ID		HP4				
Date Sampled		N/A				
Date Analyzed		06/02/94				
RLMF		1				
Filename Reference		BU0202E1.D				

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

ND : Not detected at or above the reporting limit for the analysis as performed.
TPHg : Determined by GC/FID following sample purge & trap by EPA Method 5030.
BTEX : Determined by modified EPA Method 8020 following sample purge & trap by EPA Method 5030.

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

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

Analyst 06/14/94. Date

Supervisor Cheryl Balmer 6/13/94 Date

Laboratory Control Spike Report

Total Petroleum Hydrocarbons as Gasoline

ITS - Anametrix Laboratories - (408)432-8192

Instrument ID : HP4
Matrix : LIQUID

Analyst : PS
Supervisor : MM
Units : ug/L

COMPOUND NAME	SPIKE AMOUNT	LCS RECOVERY	RECOVERY LIMITS
Gasoline	500	94%	56-141
Surrogate Recovery		74%	61-139
Date Analyzed		06/02/94	
Multiplier		1	
Filename Reference		MU0201E1.D	

* Limits established by Inchcape Testing Services, Anametrix Laboratories.

Organic Analysis Data Sheet

Total Petroleum Hydrocarbons as Gasoline with BTEX

ITS - Anametrix Laboratories - (408)432-8192

Lab Workorder : 9405290 Client Project ID : 92CB037

Matrix : WATER Units : ug/L

Compound Name	Method Reporting Limit*	Client ID T. BLANK Lab ID 9405290-01	Client ID MW-4 =MW-2 Lab ID 9405290-02	Client ID MW-2 Lab ID 9405290-03	Client ID MW-3 Lab ID 9405290-04	Client ID MW-1 Lab ID 9405290-05
Benzene	0.50	ND	ND	ND	0.56	ND
Toluene	0.50	ND	ND	ND	ND	ND
Ethylbenzene	0.50	ND	ND	ND	ND	ND
Total Xylenes	0.50	ND	ND	ND	1.5	ND
TPH as Gasoline	50	ND	320	370	ND	81
Surrogate Recovery		102%	111%	107%	107%	110%
Instrument ID		HP4	HP4	HP4	HP4	HP4
Date Sampled		05/27/94	05/27/94	05/27/94	05/27/94	05/27/94
Date Analyzed		06/02/94	06/02/94	06/02/94	06/02/94	06/02/94
RLMF		1	1	1	1	1
Filename Reference		FPY29001.D	FPY29002.D	FPY29003.D	FPY29004.D	FPY29005.D

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

ND : Not detected at or above the reporting limit for the analysis as performed.
TPHg : Determined by GC/FID following sample purge & trap by EPA Method 5030.
BTEX : Determined by modified EPA Method 8020 following sample purge & trap by EPA Method 5030.

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

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

Analyst 06/14/94. Date

Supervisor 6/14/94 Date

Issued on 6/14/94 @ 7:04 AM

ANALYSIS DATA SHEET - TOTAL PETROLEUM HYDROCARBONS AS DIESEL
ANAMETRIX, INC. (408) 432-8192

Anametrix W.O.: 9405290
Matrix : WATER
Date Sampled : 05/27/94
Date Extracted: 06/03/94

Project Number : 92CB037
Date Released : 06/13/94
Instrument I.D.: HP23

Anametrix I.D.	Client I.D.	Date Analyzed	Reporting Limit (ug/L)	Amount Found (ug/L)	Surrogate %Rec
9405290-02	MW-4	06/07/94	50	210	82%
9405290-03	MW-2	06/09/94	50	240	88%
9405290-04	MW-3	06/09/94	50	ND	91%
9405290-05	MW-1	06/09/94	50	210	95%
BU0311F9	METHOD BLANK	06/07/94	50	ND	111%

Note : Reporting limit is obtained by multiplying the dilution factor times 50 ug/L.
The surrogate recovery limits for o-terphenyl are 47-114%.

ND - Not detected at or above the practical quantitation limit for the method.

TPHd - Total Petroleum Hydrocarbons as C10-C28 is determined by GCFID following sample extraction by EPA Method 3510.

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

Analyst Date

Supervisor Date

TOTAL EXTRACTABLE HYDROCARBON LABORATORY CONTROL SAMPLE REPORT
EPA METHOD 3510 WITH GC/FID
ANAMETRIX, INC. (408) 432-8192

Sample I.D. : LAB CONTROL SAMPLE
Matrix : WATER
Date Sampled : N/A
Date Extracted: 06/03/94
Date Analyzed : 06/07/94

Anametrix I.D. : MU0311F9
Analyst : AR
Supervisor : [illegible]
Date Released : 06/13/94
Instrument I.D.: HP23

COMPOUND	SPIKE AMT (ug/L)	LCS REC (ug/L)	% REC LCS	LCSD REC (ug/L)	% REC LCSD	RPD	% REC LIMITS
DIESEL	1250	1230	98%	1270	102%	3%	38-96
SURROGATE			109%		110%		47-114

* Quality control limits established by Anametrix, Inc.

9405290 (18) (10/12)

Woodward-Clyde Consultants
500 12th Street, Suite 100, Oakland, CA 94607-4014
(510) 893-3600

Chain of Custody Record

PROJECT NO. 92C5037

SAMPLERS: (Signature)

	DATE	TIME	SAMPLE NUMBER	Sample Matrix (S)oil, (W)ater, (A)ir	ANALYSES: EPA Method TPHg/BTEX	EPA Method TPHdiesel	EPA Method	EPA Method							Number of Containers	REMARKS (Sample preservation, handling procedures, etc.)
(1)	5/27/94	0800	Travel Blank	W	3										3	Results to Jo Beth Folger
(2)		1200	MW-4	W	3	2									5	Normal T.A.T.
(3)		1515	MW-2	W	3	2									5	
(4)		1535	MW-3	W	3	2			HCl w/ bubbles						5	
(5)		1545	MW-1	W	3	2			HCl w/ bubbles						5	
																Note: All water reacted w/HCl forming bubbles, couldn't get rid of them.
																Due to holiday weekend, no couriers available on Friday p.m.. Samples kept on ice in cooler all weekend.

TOTAL NUMBER OF CONTAINERS: 23

RELINQUISHED BY (Signature)	DATE TIME	RECEIVED BY (Signature)	RELINQUISHED BY (Signature)	DATE TIME	RECEIVED BY (Signature)
	5/31/94 9:40			5/31/94 1715	

METHOD OF SHIPMENT	SHIPPED BY: (Signature)	COURIER: (Signature)	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
Anametrix Courier				5/31/94 11:45

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

RAFAT A. SHAHID, ASST. AGENCY DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
State Water Resources Control Board
Division of Clean Water Programs
UST Local Oversight Program
80 Swan Way, Rm 200
Oakland, CA 94621
(510) 271-4530

StID 4111

Mr. Fred Dannecker
Continental Baking
1525 Bryant Street
San Francisco, CA 94103

Subject: QMR for 6841 Village Pkwy, Dublin 94568

Dear Mr. Dannecker:

I have completed review of Woodward-Clyde Consultants' May 1994 Preliminary Investigation and Evaluation Report for the above referenced site. This report summarizes the activities when three monitoring wells were installed around the former tank pit. Groundwater appears to be impacted by the release of fuel products. At this time, groundwater elevation should be measured on a monthly basis. And, groundwater should be sampled on a quarterly basis. The next sampling event should occur in June 1994. Monthly groundwater flow direction should be included in the quarter monitoring report, which is due 45 days after the wells are sampled. This schedule should continue for a year, at which time, the site will be re-evaluated to determine the next course of action.

If you have any questions, I can be reached at (510) 271-4530.

Sincerely,

eva chu
Hazardous Materials Specialist

cc: Jo Beth Folger, WCC, 500 12th St, Suite 100, Oakland 94607
files

contbake.3