



**GROUNDWATER MONITORING 1994
YEAR TO DATE SUMMARY REPORT**

**DREYER'S GRAND ICE CREAM
5929 College Avenue
Oakland, California
Project Number 3534**

Prepared for


**Dreyer's Grand Ice Cream
Oakland, California**

Prepared by

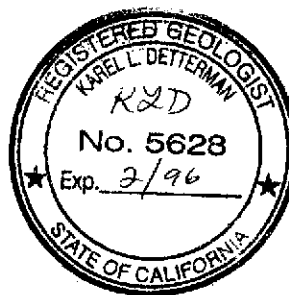
**CET Environmental Services, Inc.
5845 Doyle Street, #104
Emeryville, California**

April 25, 1995

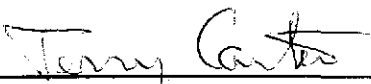
By:



**Karel Detterman, Senior Geologist
California Registered Geologist No. 5628**



By:



**Terrance E. Carter
Senior Environmental Engineer
Project Manager**



TABLE OF CONTENTS

INTRODUCTION	1
QUARTERLY SUMMARY	1
GROUNDWATER MONITORING SUMMARY	1
CONCLUSIONS AND RECOMMENDATIONS	3
PLANNED ACTIVITIES	3

APPENDICES

Appendix A: Laboratory Analytical Reports
Chain of Custody Documentation
Sample Collection Records
Groundwater Level Measurement Records

Appendix B: Limitations and Uncertainty



LIST OF TABLES

Table 1:	Groundwater Elevation Summary
Table 2:	Summary of Laboratory Analytical Results Groundwater Samples

LIST OF PLATES

Plate 1:	Site Location
Plate 2:	Site Features
Plate 3:	Groundwater Elevations and Contours April 29, 1994
Plate 4:	Groundwater Elevations and Contours May 20, 1994
Plate 5:	Groundwater Elevations and Contours June 6, 1994
Plate 6:	Groundwater Elevations and Contours July 27, 1994
Plate 7:	Groundwater Elevations and Contours August 30, 1994
Plate 8:	Groundwater Elevations and Contours September 20, 1994
Plate 9:	Groundwater Elevations and Contours October 13, 1994
Plate 10:	Groundwater Elevations and Contours November 15, 1994
Plate 11:	Groundwater Elevations and Contours December 6, 1994
Plate 12:	Proposed Monitoring Well Locations



INTRODUCTION

This report presents the results of groundwater monitoring activities conducted by CET Environmental Services, Inc. (CET) during the second, third, and fourth quarters 1994, at the Dreyer's Grand Ice Cream facility in Oakland, California.

The location of the facility is presented on Plate 1, a site plan showing current groundwater monitoring well locations is provided on Plate 2.

QUARTERLY SUMMARY

Activities relevant to the Dreyer's facility which have occurred since the First Quarter 1994 report include:

- Groundwater level measurements were taken from site wells on April 29, May 20, June 6, July 27, August 30, September 20, October 13, November 15, and December 6, 1994.
- Groundwater samples were collected from site monitoring wells on June 6, September 20, and December 6, 1994.
- Collected groundwater samples were transported to a state certified laboratory for analysis.

GROUNDWATER MONITORING SUMMARY

Groundwater Elevation Monitoring

Groundwater level measurements were recorded on April 29, May 20, June 6, July 27, August 30, September 20, October 13, November 15, and December 6, 1994. Groundwater elevation contours and flow directions for these dates are shown on Plates 3 through 11, respectively. Historic groundwater elevations are summarized in Table 1.

During the second quarter (June 6, 1994 monitoring event), the groundwater flow direction appeared to range in an arc between two directions; westerly from the northern portion of the subject property at a calculated gradient of 0.0065 feet per foot (ft/ft), and southwesterly from the southeast portion of the property at a calculated gradient of 0.076 ft/ft (see Plate 5).

During the third quarter (September 20, 1994 monitoring event), the groundwater flow direction appeared to be towards the southwest at a calculated gradient of approximately 0.076 ft/ft (see Plate 8).

During the fourth quarter (December 6, 1994 monitoring event), the groundwater flow direction appeared to be towards the southwest at a calculated gradient ranging from 0.0046 ft/ft from the northern portion of the subject property, to 0.07 ft/ft from the southeastern portion of the subject property (see Plate 11).



According to the Alameda County Flood Control and Water Conservation District (ACFCWCD), 1988, 205 (J) report: *Geohydrology and Groundwater - Quality Overview, East Bay Plain Area, Alameda County, California*, the regional groundwater flow direction is toward the west-southwest.

Groundwater Sample Collection, Analysis, and Analytical Results

On June 6, September 20, and December 6, 1994 CET field personnel collected groundwater samples from all site monitoring wells (MW1 through MW6). The samples were transported and submitted in accordance with CET chain-of-custody protocol to Chromalab of San Ramon, California (June 6 and September 20, 1994 sampling events), and GTEL Environmental Laboratories, Inc. of Concord, California (December 6, 1994 sampling event). Chromalab and GTEL are accredited under the Environmental Laboratory Accreditation Program (ELAP) by the California Environmental Protection Agency (Cal-EPA) Department of Toxic Substance Control. Copies of the sample collection records and chain-of-custody documents are presented in Appendix A.

The samples were analyzed for total petroleum hydrocarbons as diesel and as gasoline (TPH/d and TPH/g, respectively), and for benzene, toluene, ethylbenzene, and total xylenes (BTEX). U.S. Environmental Protection Agency (EPA) Test Methods 3510/8015, 5030/8015, and 602 were used for TPH/d range hydrocarbons, TPH/g, and BTEX analyses, respectively.

Groundwater Sample Analytical Results

Historical analytical data for groundwater samples collected from site monitoring wells, from August, 1991 through the December, 1994 monitoring event (fourth quarter 1994), are summarized in Table 2. The results from the second, third, and fourth quarter 1994 sampling events are discussed below.

Second Quarter

No TPH/d, TPH/g, or BTEX analytes were detected at or above the test method detection limits in groundwater samples from monitoring well MW1. No TPH/d analytes were detected in any of the site monitoring wells. The following were the highest concentrations detected during the second quarter: 42,000 ug/L TPH/g (MW5); 3,100 ug/L benzene (MW4); 1,300 ug/L toluene (MW2); 2,300 ug/L ethyl benzene (MW2); and 9,400 ug/L total xylenes (MW2).

Third Quarter

No TPH/d, TPH/g, or BTEX analytes were detected at or above the test method detection limits in groundwater samples from monitoring well MW1. No TPH/d analytes were detected in any of the site monitoring wells. The following were the highest concentrations detected during the third quarter: 63,000 ug/L TPH/g (MW2); 2,100 ug/L benzene (MW5); 1,200 ug/L toluene (MW2); 3,000 ug/L ethyl benzene (MW2); 12,000 ug/L total xylenes (MW2).



Fourth Quarter

Analytes of TPH/d, TPH/g, or BTEX were not detected at or above the test method detection limits in groundwater samples from monitoring well MW1. TPH/d analytes were not detected in any of the site monitoring wells. The following were the highest concentrations detected during the fourth quarter: 25,000 ug/L TPH/g (MW2); 1,800 ug/L benzene (MW2); 910 ug/L toluene (MW2); 1,800 ug/L ethyl benzene; and 7,600 ug/L total xylenes (MW2).

CONCLUSIONS AND RECOMMENDATIONS

Based on the second, third, and fourth quarter 1994 results the highest concentrations of TPH/g and benzene remain associated with wells MW2 and MW5. Wells MW2 and MW5 are in close proximity and downgradient of the former waste oil UST (Plate 2). The western extent of the groundwater plume in the vicinity of MW5 is not defined. MW1 water samples have not resulted in detectable petroleum hydrocarbons for the last consecutive seven quarters.

Based on the existing data, CET recommends additional characterization work to be performed at the site as outlined in the CET report dated December 15, 1993, as well as the following remediation pilot test:

- CET recommends that a pilot vapor extraction/air sparging test be performed at the subject site to determine the feasibility of this remedial technology at the subject site. Based on the analytical results, it appears that the majority of contamination is due to volatile, gasoline-range hydrocarbons. Vapor extraction/air sparging may be effective in the removal of petroleum hydrocarbons from affected soils and groundwater in the vicinity of the former underground tanks, and from areas overlain by structures where soil excavation is not feasible. The pilot test will involve extraction of petroleum hydrocarbon vapors and air injection from proposed and existing wells.
- CET recommends that monthly groundwater level measurements be recorded for the first quarter of 1995; and that groundwater samples be collected on a quarterly basis from the six existing monitoring wells.

PLANNED ACTIVITIES

The following routine activities are planned for the first quarter 1995.

- Collect groundwater level measurements monthly from all site wells and collect groundwater samples from all site wells during March, 1995. Groundwater samples will be analyzed for TPH/d, TPH/g and BTEX using EPA Methods 3510/8015, 5030/8015 and 602, respectively.
- At the request of Dreyer's Grand Ice Cream, Inc., CET will prepare a proposal and cost estimate for the recommended work.

Limitations and uncertainties to this report are in Appendix B.



**Table 1 Groundwater Elevation Summary
Dreyer's Grand Ice Cream
5929 College Avenue
Oakland, California**

Well No.	TOC Elevation (feet)	Date	Groundwater Depth^a (feet)	Groundwater Elevation^b (feet)	
MW1		08/12/91	14.86	174.28	
		12/04/91	16.16	172.98	
		04/24/92	11.93	177.21	
		05/04/92	12.15	176.99	
		06/17/92	13.17	175.97	
		07/15/92	13.66	175.48	
		08/31/92	14.91	174.23	
		09/14/92	15.18	173.96	
		10/22/92	15.34	173.80	
		11/20/92	15.27	173.87	
		12/03/92	14.44	174.70	
		01/18/93	7.85	181.29	
		02/10/93	9.29	179.85	
		03/10/93	9.88	179.26	
		04/20/93	10.13	179.01	
		05/01/93	----	----	
		06/02/93	10.82	171.40	
		07/09/93	11.62	170.60	
		08/10/93	12.31	169.91	
		189.12 ^c	09/28/93	----	----
			10/08/93	13.68	175.44
			11/10/93	14.72	174.40
			12/08/93	14.28	174.84
			01/21/94	14.30	174.82
			02/02/94	13.06	176.06
			03/25/94	12.26	176.86
			04/29/94	12.55	176.57
			05/20/94	12.59	176.53
			06/06/94	12.96	176.16
			07/27/94	13.81	175.31
		08/30/94	14.29	174.83	



Table 1 Groundwater Elevation Summary
Dreyer's Grand Ice Cream
5929 College Avenue
Oakland, California
(continued)

Well No.	TOC Elevation (feet)	Date	Groundwater Depth^a (feet)	Groundwater Elevation^b (feet)
MW1	189.12	09/20/94	14.55	174.57
		10/13/94	14.83	174.29
		11/15/94	11.00	178.12
		12/06/94	11.33	177.79
MW2	185.74 ^c	08/12/92	12.26	172.97
		12/04/91	12.30	172.93
		04/24/92	10.00	175.23
		05/04/92	10.29	174.94
		06/17/92	10.86	174.37
		07/15/92	11.48	173.75
		08/31/92	12.02	173.21
		09/14/92	12.34	172.89
		10/22/92	12.37	172.86
		11/20/92	11.64	173.59
		12/03/92	11.95	173.28
		01/18/93	5.86	179.37
		02/10/93	8.20	177.03
		03/10/93	8.57	176.66
		04/20/93	8.95	176.28
		05/01/93	----	----
		06/02/93	9.10	176.74
		07/09/93	8.35	177.49
		08/10/93	8.45	177.39
		09/28/93	----	----
10/08/93	10.19	175.55		
11/10/93	11.15	174.59		
12/08/93	11.13	174.61		
01/21/94	11.40	174.34		
02/02/94	9.85	175.89		
03/25/94	10.05	175.69		



Table 1 Groundwater Elevation Summary
Dreyer's Grand Ice Cream
5929 College Avenue
Oakland, California
(continued)

Well No.	TOC Elevation (feet)	Date	Groundwater Depth ^a (feet)	Groundwater Elevation ^b (feet)
MW2	185.74	04/29/94	9.86	175.88
		05/20/94	9.68	176.06
		06/06/94	10.27	175.47
		07/27/94	10.32	175.42
		08/30/94	11.01	174.73
		09/20/94	11.34	174.40
		10/13/94	11.42	174.32
		11/15/94	8.92	176.82
		12/06/94	8.79	176.95
		MW3	185.21 ^c	08/12/91
12/04/91	11.65			173.03
04/24/92	11.00			173.68
05/04/92	11.09			173.59
06/17/92	11.51			173.17
07/15/92	11.84			172.84
08/31/92	11.70			172.98
09/14/92	11.74			172.94
10/22/92	11.33			173.35
11/20/92	10.58			174.10
12/03/92	10.12			174.56
01/18/93	8.42			176.26
02/10/93	9.94			174.74
03/10/93	10.19			174.49
04/20/93	10.22			174.46
05/01/93	----			----
06/02/93	10.73			174.56
07/09/93	10.03			175.26
08/10/93	8.32	176.97		
09/28/93	----	----		
10/08/93	10.53	174.68		



Table 1 Groundwater Elevation Summary
Dreyer's Grand Ice Cream
5929 College Avenue
Oakland, California
(continued)

Well No.	TOC Elevation (feet)	Date	Groundwater Depth ^a (feet)	Groundwater Elevation ^b (feet)
MW3	185.21	11/10/93	11.22	173.99
		12/08/93	11.79	173.42
		01/21/94	12.02	174.19
		02/02/94	11.48	173.73
		03/25/94	11.26	173.95
		04/29/94	11.47	173.74
		05/20/94	11.16	174.05
		06/06/94	11.55	173.66
		07/27/94	9.78	175.43
		08/30/94	11.50	173.71
		09/20/94	11.74	173.47
		10/13/94	11.52	173.69
		11/15/94	10.28	174.93
		12/06/94	11.19	174.02
MW4	184.74	09/28/93	---	---
		10/08/93	10.29	174.45
		11/10/93	11.14	173.60
		12/08/93	11.82	172.92
		01/21/94	12.07	172.67
		02/02/94	11.41	173.33
		03/25/94	11.03	173.71
		04/29/94	11.50	173.24
		05/20/94	11.13	173.61
		06/06/94	11.56	173.18
		07/27/94	9.57	175.17
		08/30/94	11.21	173.53
		09/20/94	11.56	173.18
		10/13/94	11.40	173.34
11/15/94	9.83	174.91		
12/06/94	10.85	173.89		



**Table 1 Groundwater Elevation Summary
Dreyer's Grand Ice Cream
5929 College Avenue
Oakland, California
(continued)**

Well No.	TOC Elevation (feet)	Date	Groundwater Depth^a (feet)	Groundwater Elevation^b (feet)
MW5	184.75	09/28/93	----	----
		10/08/93	9.84	174.91
		11/10/93	10.53	174.22
		12/08/93	10.69	174.06
		01/21/94	11.22	173.53
		02/02/94	8.80	175.95
		03/25/94	9.75	175.00
		04/29/94	9.00	175.75
		05/20/94	9.29	175.46
		06/06/94	9.74	175.01
		07/27/94	9.88	174.87
		08/30/94	10.44	174.31
		09/20/94	10.56	174.19
		10/13/94	10.87	173.88
11/15/94	8.17	176.58		
12/06/94	7.98	176.77		
MW6	187.20 ^c	09/28/93	----	----
		10/08/93	8.23	178.97
		11/10/93	7.74	179.46
		12/08/93	8.53	178.67
		01/21/94	8.46	178.74
		02/01/94	7.84	179.36
		03/25/94	7.72	179.48
		04/29/94	7.64	179.56
		05/20/94	7.60	179.60
		06/06/94	7.91	179.29
		07/27/94	6.90	180.30
		08/30/94	8.10	179.10
09/20/94	8.17	179.03		
10/13/94	8.21	178.99		



Table 1 Groundwater Elevation Summary
Dreyer's Grand Ice Cream
5929 College Avenue
Oakland, California
(continued)

Well No.	TOC Elevation (feet)	Date	Groundwater Depth^a (feet)	Groundwater Elevation^b (feet)
MW6	187.20	11/15/94	7.62	179.58
		12/06/94	8.15	179.05

- a. Depth to groundwater measured from the TOC.
b. Groundwater elevation is equal to the difference between the TOC elevation and groundwater depth.
c. Top of casing surveyed by a California licensed surveyor.



**Table 2 Summary of Laboratory Analytical Results
Groundwater Samples
5929 College Avenue
Oakland, California**

Well No./ Sample I.D.	Sample Collection Date	Concentration (µg/L)							
		TPH/d ^a	TPH/g ^b	B ^c	T ^c	E ^c	X ^c	Kerosene	Motor Oil
MW1	08/05/91	NA ^d	<50 ^e	1.1	<0.5 ^e	<0.5 ^e	<0.5 ^e	NA	NA
	12/04/91	<50 ^e	<50 ^e	<0.5 ^e	<0.5	<0.5	<0.5	NA	NA
	03/10/93	85	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	06/02/93	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	10/08/93	<50	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	12/08/93	<50	<50	<0.5	<0.5	<0.5	<0.5	<50	<50
	03/25/94	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	06/06/94	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	09/20/94	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
	12/06/94	<50	<50	<0.5	<0.5	<0.5	<0.5	NA	NA
MW2	08/05/91	1,900 ^f	38,000	8,300	8,200	2,300	13,000	NA	NA
	12/04/91	<50	91,000	6,900	6,800	3,200	25,000	NA	NA
	03/10/93	89	59,000	5,800	5,300	3,100	15,000	NA	NA
	06/02/93	<50	58,000	50	68	70	170	NA	NA
	10/08/93	110	56,000	2,800	2,400	2,900	12,000	<50	<50
	12/08/93	<50	54,000	2,400	1,700	2,900	10,000	<50	<50
	03/25/94	<50	91,000	1,900	1,500	2,100	8,100	NA	NA
	06/06/94	<50	7,700	1,900	1,300	2,300	9,400	NA	NA
	09/20/94	<500	63,000	1,900	1,200	3,000	12,000	NA	NA
	12/06/94	<50	25,000	1,800	910	1,800	7,600	NA	NA
MW3	08/05/91	800 ^f	3,300	3,900	160	95	150	NA	NA
	12/04/91	<50	10,000	3,300	88	80	130	NA	NA
	03/10/93	<50	8,100	2,000	31	240	30	NA	NA
	06/02/93	<50	14,000	11	13	16	49	NA	NA
	10/08/93	<50	7,600	2,400	<10	49	<10	<50	<50
	12/08/93	<50	3,800	340	3.9	29	13	<50	<50
	03/25/94	<50	5,700	500	10	21	25	NA	NA
	06/06/94	<50	12,000	1,100	23	33	43	NA	NA
	09/20/94	<50	5,200	1,100	22	32	42	NA	NA
	12/06/94	<50	4,100	790	16	23	45	NA	NA



**Table 2 Summary of Laboratory Analytical Results
Groundwater Samples
5929 College Avenue
Oakland, California
(continued)**

Well No./ Sample I.D.	Sample Collection Date	Concentration (µg/L)							
		TPH/d ^a	TPH/g ^b	B ^c	T ^c	E ^c	X ^c	Kerosene	Motor Oil
MW4	10/08/93	<50	1,400	<0.5	<0.5	2.9	3.1	<50	<50
	12/08/93	<50	2,800	460	<0.5	3.8	3.8	<50	<50
	03/25/94	<50	1,600	94	1.7	4.4	5.6	NA	NA
	06/06/94	<50	12,000	3,100	15	11	13	NA	NA
	09/20/94	<50	1,900	6.2	2.4	7.1	8.7	NA	NA
	12/06/94	<50	1,000	0.7	<0.5	14	17	NA	NA
MW5	10/08/93	<50	31,000	4,000	1,200	1,800	5,100	<50	<50
	12/08/93	<50	25,000	2,600	110	1,700	2,400	<50	<50
	03/25/94	<50	41,000	2,400	500	1,400	2,800	NA	NA
	06/06/94	<50	42,000	2,500	320	1,700	3,000	NA	NA
	09/20/94	<50	23,000	2,100	170	1,500	2,400	NA	NA
	12/06/94	<50	16,000	800	35	1,300	1,600	NA	NA
MW6	10/08/93	<50	2,100	85	<0.5	70	190	<50	<50
	12/08/93	<50	3,800	74	<0.5	210	150	<50	<50
	03/25/94	<50	460	9.6	27	15	11	NA	NA
	06/06/94	<50	440	8.4	1.0	4.9	3.0	NA	NA
	09/20/94	<50	490	4.5	0.60	12	2.4	NA	NA
	12/06/94	<50	730	28	15	86	11	NA	NA

- a. TPH/d = total petroleum hydrocarbons as diesel
b. TPH/g = total petroleum hydrocarbons as gasoline
c. BTEX: B = benzene, T = toluene, E = ethylbenzene, X = total xylenes
d. NA = not analyzed
e. <50 and <0.5 = not detected at or above the test method detection limits
f. Petroleum hydrocarbons quantified as diesel are due to hydrocarbons that are lighter than diesel



APPENDIX A

**Laboratory Analytical Reports
Chain of Custody Documentation
Sample Collection Records
Groundwater Level Measurement Records**

CHROMALAB, INC.

Environmental Services (SDB)

June 15, 1994

Submission #: 9406098

CET ENVIRONMENTAL SERVICES, INC

Atten: Terry Carter

Project: DREYERS GRAND

Project#: 3534-239

Received: June 7, 1994

re: 6 samples for Gasoline and BTEX analysis.

Matrix: WATER

Sampled: June 6, 1994

Lab Run#: 3071

Analyzed: June 10, 1994

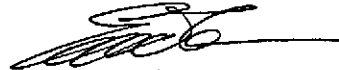
Method: EPA 5030/8015M/602

Lab #	SAMPLE ID	Gasoline (mg/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
54121	MW1	N.D.	N.D.	N.D.	N.D.	N.D.
54122	MW2	7.7	1900	1300	2300	9400
54123	MW3	12	1100	23	33	43
54124	MW4	12	3100	15	11	13
54125	MW5	42	2500	320	1700	3000
54126	MW6	0.44	8.4	1.0	4.9	3.0
DETECTION LIMITS		0.05	0.5	0.5	0.5	0.5
BLANK		N.D.	N.D.	N.D.	N.D.	N.D.
BLANK SPIKE RECOVERY (%)		120	96	95	96	94

ChromaLab, Inc.



Billy Thach
Chemist



Eric Tam
Laboratory Director

CHROMALAB, INC.

Environmental Services (SDB)

June 14, 1994

ChromaLab File No.: 9406098

CET ENVIRONMENTAL SERVICES, INC

Attn: Terry Carter

RE: Six water samples for Diesel analysis

Project Name: DREYERS GRAND

Project Number: 3534-239

Date Sampled: June 6, 1994

Date Submitted: June 7, 1994

Date Extracted: June 13, 1994

Date Analyzed: June 14, 1994

RESULTS:

<u>Sample I.D.</u>	<u>Diesel ($\mu\text{g/L}$)</u>
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MW1	N.D.
-----	------

MW2	N.D.
-----	------

MW3	N.D.
-----	------

MW4	N.D.
-----	------

MW5	N.D.
-----	------

MW6	N.D.
-----	------

BLANK	N.D.
-------	------

SPIKE RECOVERY	90%
----------------	-----

DUP SPIKE RECOVERY	92%
--------------------	-----

DETECTION LIMIT	50
-----------------	----

METHOD OF ANALYSIS	3510/8015
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ChromaLab, Inc.

Sirirat Chullakorn

Sirirat Chullakorn
Analytical Chemist



Eric Tam
Laboratory Director

gg

CHROMALAB, INC.

DOHS 1094

IBM 940
 CLIENT: CET
 DUE: 06/14/94
 REF: 16774

Chain of Custody

DATE 6-6-94 PAGE 1 of 1

#16774
 08/54121-54126

PROJ MGR TERRY CALTER
 COMPANY CET ENVIRONMENTAL
 ADDRESS 5845 DOYLE ST. #104
EMERYVILLE CAL.
 SAMPLERS (SIGNATURE) [Signature] (PHONE NO.)

SAMPLE ID	DATE	TIME	MATRIX	PRESERV.	ANALYSIS REPORT														NUMBER OF CONTAINERS							
					TPH - Gasoline (EPA 5030, 8015)	TPH - Gasoline (5030, 8015) w/BTEX (EPA 602, 8020)	TPH - Diesel (EPA 3510/3550, 8015)	PURGEABLE AROMATICS BTEX (EPA 602, 8020)	PURGEABLE HALOCARBONS (EPA 601, 8010)	VOLATILE ORGANICS (EPA 624, 8240, 524-2)	BASE/NEUTRALS, ACIDS (EPA 625/627, 8270, 525)	TOTAL OIL & GREASE (EPA 5520, 8+F, E+F)	PCB (EPA 608, 8080)	PESTICIDES (EPA 608, 8080)	TOTAL RECOVERABLE HYDROCARBONS (EPA 418.1)	METALS: Cd, Cr, Pb, Zn, Ni	CAM METALS (17)	PRIORITY POLLUTANT METALS (13)		TOTAL LEAD	EXTRACTION (TCLP, STLC)					
MW1	6-6-94	9:55	H ₂ O	ACI		✓	✓																			4
MW2	"	12:10	"	"		✓	✓																			4
MW3	"	11:25	"	"		✓	✓																			4
MW4	"	12:25	"	"		✓	✓																			4
MW5	"	13:10	"	"		✓	✓																			4
MW6	"	10:35	"	"		✓	✓																			4

PROJECT INFORMATION
 PROJECT NAME: DEYERS GRAND
 PROJECT NUMBER: 3534-239
 P.O. #

SAMPLE RECEIPT
 TOTAL NO OF CONTAINERS
 HEAD SPACE
 REC'D GOOD CONDITION/COLD
 CONFORMS TO RECORD

TAT STANDARD 5-DAY 24 48 72 OTHER

RELINQUISHED BY

1. [Signature] (TIME)
DAVID BERTOLLY (DATE)
 CET (COMPANY)

2. (SIGNATURE) (TIME)
 (PRINTED NAME) (DATE)
 (COMPANY)

3. (SIGNATURE) (TIME)
 (PRINTED NAME) (DATE)
 (COMPANY)

RECEIVED BY

1. [Signature] (TIME)
B. Morrow 6-7-94 (DATE)
 Chromalab (COMPANY)

2. (SIGNATURE) (TIME)
 (PRINTED NAME) (DATE)
 (COMPANY)

3. RECEIVED BY (LABORATORY) (SIGNATURE) (TIME)
 (PRINTED NAME) (DATE) (LAB)

SPECIAL INSTRUCTIONS/COMMENTS:

CHROMALAB, INC.

Environmental Services (SDB)

OCT 17 1994

October 4, 1994

Submission #: 9409292

CET ENVIRONMENTAL SERVICES, INC

Atten: Terry Carter

Project: DREYERS GRAND
Received: September 20, 1994

Project#: 3534-001

re: 6 samples for Gasoline and BTEX analysis.

Matrix: WATER

Sampled: September 20, 1994

Run#: 4053

Analyzed: September 30, 1994

Method: EPA 5030/8015M/602/8020

Spl #	CLIENT	SMPL ID	Gasoline (mg/L)	Benzene (ug/L)	Toluene (ug/L)	Ethyl Benzene (ug/L)	Total Xylenes (ug/L)
63379	MW1		N.D.	N.D.	N.D.	N.D.	N.D.
63380	MW2		63	1900	1200	3000	12000
63381	MW3		5.2	1100	22	32	42
63382	MW4		1.9	6.2	2.4	7.1	8.7
63383	MW5		23	2100	170	1500	2400
63384	MW6		0.49	4.5	0.60	12	2.4
Reporting Limits			0.05	0.5	0.5	0.5	0.5
Blank Result			N.D.	N.D.	N.D.	N.D.	N.D.
Blank Spike Result (%)			89	96	108	103	108

Jack Kelly
Chemist

Ali Kharrazi
Organic Manager

CHROMALAB, INC.

Environmental Services (SDB)

October 4, 1994

Submission #: 9409292

CET ENVIRONMENTAL SERVICES, INC

Atten: Terry Carter

Project: DREYERS GRAND
Received: September 20, 1994

Project #: 3534-001

re: Six samples for Diesel analysis

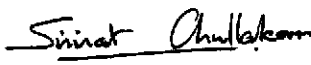
Matrix: WATER
Sampled: September 20, 1994
Method: EPA 3510/8015

Extracted: September 26, 1994
Analyzed: September 27, 1994

<u>Sample #</u>	<u>Client Sample ID</u>	<u>Diesel ($\mu\text{g/L}$)</u>
63379	MW1	N.D. (a)
63380	MW2	N.D. (a,b)
63381	MW3	N.D. (a)
63382	MW4	N.D. (a)
63383	MW5	N.D. (a)
63384	MW6	N.D. (a)
Blank		N.D.
Spike Recovery		92%
Dup Spike Recovery		99%
Reporting Limit		50

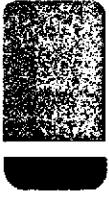
(a) Hydrocarbons in Kerosene range were also observed in sample.
(b) Detection limit raised by 10X.

ChromaLab, Inc.


Sirirat Chullakorn
Analytical Chemist


Ali Kharrazi
Organic Manager

cc



GTEL

ENVIRONMENTAL
LABORATORIES, INC.

Western Region

4080 Pike Lane, Suite C
Concord, CA 94520
(510) 685-7852
(800) 544-3422 Inside CA
FAX (510) 825-0720

RECEIVED

DEC 1 0 1994

CET - EMERYVILLE

December 15, 1994

Terry Carter
Cet Environmental Services, Inc.
5845 Doyle Street, Suite 104
Emeryville, CA 94608

RE: GTEL Client ID: CET02CET02
Login Number: C4120092
Project ID (number): 3534
Project ID (name): Dreyers/Oakland, CA

Dear Terry Carter:

Enclosed please find the analytical results for the samples received by GTEL Environmental Laboratories, Inc. on 12/07/94 under Chain-of-Custody Number(s) 32275.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria unless otherwise stated in the footnotes.

GTEL is certified by the Department of Health Service under Certification Number E1075.

If you have any questions regarding this analysis, or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,
GTEL Environmental Laboratories, Inc.

Edna Oberlander

Rashmi Shah

Rashmi Shah
Laboratory Director

GTEL Client ID: CET02CET02
 Login Number: C4120092
 Project ID (number): 3534
 Project ID (name): Dreyers/Oakland, CA

ANALYTICAL RESULTS

Volatile Organics
 Method: EPA 8020
 Matrix: Aqueous

GTEL Sample Number	C4120092-01	C4120092-02	C4120092-03	C4120092-04
Client ID	MW 1	MW 2	MW 3	MW 4
Date Sampled	12/06/94	12/06/94	12/06/94	12/06/94
Date Analyzed	12/12/94	12/12/94	12/12/94	12/12/94
Dilution Factor	1.00	100.	10.0	1.00

Analyte	Reporting			Concentration:		
	Limit	Units				
Benzene	0.5	ug/L	< 0.5	1800	790	0.7
Toluene	0.5	ug/L	< 0.5	910	16.	< 0.5
Ethylbenzene	0.5	ug/L	< 0.5	1800	23.	14.
Xylenes (total)	0.5	ug/L	< 0.5	7600	45.	17.
TPH as GAS	50.	ug/L	< 50.	25000	4100	1000
BFB (Surrogate)	--	%	92.0	93.4	90.3	105.

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update 1. Gasoline Range Hydrocarbons (TPH) quantitated by GC/FID with purge and trap. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 62-129%.

C4120092-02:

Uncategorized compound is not included in gasoline concentration.

C4120092-04:

Uncategorized compound is not included in gasoline concentration.

GTEL Concord, CA
 C4120092:1



GTEL Client ID: CET02CET02
 Login Number: C4120092
 Project ID (number): 3534
 Project ID (name): Dreyers/Oakland, CA

ANALYTICAL RESULTS

Volatile Organics
 Method: EPA 8020
 Matrix: Aqueous

GTEL Sample Number	C4120092-05	C4120092-06	--	--
Client ID	MW 5	MW 6	--	--
Date Sampled	12/06/94	12/06/94	--	--
Date Analyzed	12/12/94	12/11/94	--	--
Dilution Factor	50.0	1.00	--	--

Analyte	Reporting		Concentration:			
	Limit	Units				
Benzene	0.5	ug/L	800	28.	--	--
Toluene	0.5	ug/L	35.	15.	--	--
Ethylbenzene	0.5	ug/L	1300	86.	--	--
Xylenes (total)	0.5	ug/L	1600	11.	--	--
TPH as GAS	50.	ug/L	16000	730	--	--
BFB (Surrogate)	--	%	95.3	91.6	--	--

Notes:

Dilution Factor:

Dilution factor indicates the adjustments made for sample dilution.

EPA 8020:

"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", SW-846, Third Edition including promulgated Update 1. Gasoline Range Hydrocarbons (TPH) quantitated by GC/FID with purge and trap. Acceptability limits for recovery in the Bromofluorobenzene (BFB) surrogate is 62-129%.

C4120092-06:

Uncategorized compound is not included in gasoline concentration.

GTEL Concord, CA
 C4120092:2



GTEL Client ID: CET02CET02

QUALITY CONTROL RESULTS

Login Number: C4120092

Volatile Organics

Project ID (number): 3534

Method: EPA 8020

Project ID (name): Dreyers/Oakland, CA

Matrix: Aqueous

Method Blank Results

QC Batch No: M121094-1

Date Analyzed: 10-DEC-94

Analyte	Method: EPA 8020	Concentration: ug/L
Benzene	< 0.30	
Toluene	< 0.30	
Ethylbenzene	< 0.30	
Xylenes (Total)	< 0.50	
TPH as Gasoline	< 10	

Notes:

ANALYTICAL RESULTS

Total Petroleum Hydrocarbons as Diesel in Water

Modified EPA Methods 3510/8015a

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986.

GTEL Sample Number		01	02	03	04
Client Identification		MW-1	MW-2	MW-3	MW-4
Date Sampled		12/06/94	12/06/94	12/06/94	12/06/94
Date Extracted		12/09/94	12/09/94	12/09/94	12/09/94
Date Analyzed		12/10/94	12/10/94	12/10/94	12/10/94
Analyte	Detection Limit, ug/L	Concentration, ug/L			
TPH as Diesel	50	<50	<50	<50	<50
Detection Limit Multiplier		1	1	1	1
O-Terphenyl surrogate, % recovery		92.1	108	112	91.3

GTEL Sample Number		05	06	GCI 121094	
Client Identification		MW-5	MW-6	METHOD BLANK	
Date Sampled		12/06/94	12/06/94	--	
Date Extracted		12/09/94	12/09/94	12/09/94	
Date Analyzed		12/10/94	12/10/94	12/10/94	
Analyte	Detection Limit, ug/L	Concentration, ug/L			
TPH as Diesel	50	<50	<50	<50	
Detection Limit Multiplier		1	1	1	
O-Terphenyl surrogate, % recovery		107	121	101	

SAMPLE COLLECTION RECORD - MONITOR WELL

Date: 6-12-94 Sample I.D.: MW1 Job No.: 3534-239

Site Location: DRAPER GRAND ICE CREAM

No. of Containers : 4 / (check one): Well Samples;
 Duplicates from well _____; Travel Blanks;
 Field Blanks; Other (explain)/ _____

W.L. (1/100'): 17.96 Time : 9:16 B.O.W. (1/2'): 30.0

Method: Electric Well Sounder; Other/ _____

Meters calibrated: Y / N Well Loc. Map: Y / N

Calculated Purge Volume (4 casing volumes): 11 gallons

Purging Method: Disposable Bailer; Teflon Bailer;
 Other/ _____

Time Start Purging (24 hr): 9:30, Product: Y / N
 Sheen: Y / N, Odor: Y / N, Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: CLEAR

Time Stop Purging (24 hr): 9:50, Product: Y / N
 Sheen: Y / N, Odor: Y / N, Vapor: _____ ppm / %LEL
 Turbidity: 886, Color: CLOUDY TAN

Time (24 hr)	Temp. (C)	pH	Cond. (uS)	H2O (Gal)	Turbid. (NTU)
<u>9:37</u>	<u>16.4</u>	<u>6.69</u>	<u>2950</u>	<u>4</u>	<u>267</u>
<u>9:43</u>	<u>17.1</u>	<u>6.74</u>	<u>2920</u>	<u>8</u>	<u>595</u>
<u>9:50</u>	<u>17.2</u>	<u>6.60</u>	<u>2900</u>	<u>11</u>	<u>886</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Sample Collection Time (24 hr): 9:55

Notes: _____

Collected By (signature): _____

SAMPLE COLLECTION RECORD - MONITOR WELL

Date: 6-6-94 Sample I.D.: MW2 Job No.: 354-239

Site Location: Deepest Grand Ice (P&M) OAKLAND

No. of Containers : 4 / (check one): Well Samples;
 Duplicates from well _____; Travel Blanks;
 Field Blanks; Other (explain)/ _____

W.L. (1/100'): 10.27 Time : 11:36 B.O.W. (1/2'): 28.0

Method: Electric Well Sounder; Other/ _____

Meters calibrated: Y / N Well Loc. Map: Y / N

Calculated Purge Volume (4 casing volumes): 20 gallons

Purging Method: Disposable Bailer; Teflon Bailer;

Other/ _____

Time Start Purging (24 hr): 11:43, Product: Y / N
 Sheen: Y / N, Odor: Y / N, Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: CLEAR

Time Stop Purging (24 hr): 12:67, Product: Y / N
 Sheen: Y / N, Odor: Y / N, Vapor: _____ ppm / %LEL
 Turbidity: 194, Color: CLEAR

Time (24 hr)	Temp. (C)	pH	Cond. (uS)	H2O (Gal)	Turbid. (NTU)
<u>11:49</u>	<u>19.2</u>	<u>6.52</u>	<u>8820</u>	<u>10</u>	<u>37.8</u>
<u>11:57</u>	<u>19.0</u>	<u>6.66</u>	<u>8930</u>	<u>20</u>	<u>83.3</u>
<u>12:67</u>	<u>19.0</u>	<u>6.49</u>	<u>8980</u>	<u>30</u>	<u>194</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Sample Collection Time (24 hr): 12:10

Notes: SLIGHT OIL - SHEEN DEVELOPED DURING
PURGE

Collected By (signature): _____

SAMPLE COLLECTION RECORD - MONITOR WELL

Date: 6-6-94 Sample I.D.: MW3 Job No.: 3534.239

Site Location: DRYERS GRAND ICE CREAM, OAKLAND

No. of Containers: 4 / (check one): Well Samples;

Duplicates from well _____; Travel Blanks;

Field Blanks; Other (explain) / _____

W.L. (1/100'): 11:55 Time: 10:01 B.O.W. (1/2'): 27.0

Method: Electric Well Sounder; Other / _____

Meters calibrated: Y / N Well Loc. Map: Y / N

Calculated Purge Volume (4 casing volumes): 30 gallons

Purging Method: Disposable Bailer; Teflon Bailer;

Other / _____

Time Start Purging (24 hr): 10:47, Product: Y / N
 Sheen: Y / N, Odor: Y / N, Vapor: _____ ppm / %LEL
 Turbidity: 32.7, Color: CLEAR

Time Stop Purging (24 hr): 11:20, Product: Y / N
 Sheen: Y / N, Odor: Y / N, Vapor: _____ ppm / %LEL
 Turbidity: 117, Color: CLOUDY

Time (24 hr)	Temp. (C)	pH	Cond. (uS)	H2O (Gal)	Turbid. (NTU)
<u>10:57</u>	<u>18.3</u>	<u>6.63</u>	<u>1138</u>	<u>10</u>	<u>53.8</u>
<u>11:09</u>	<u>18.0</u>	<u>6.80</u>	<u>1123</u>	<u>20</u>	<u>92.5</u>
<u>11:20</u>	<u>18.1</u>	<u>6.65</u>	<u>1125</u>	<u>30</u>	<u>117</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Sample Collection Time (24 hr): 11:25

Notes: _____

Collected By (signature): _____

SAMPLE COLLECTION RECORD - MONITOR WELL

Date: 6-16-94 Sample I.D.: MW4 Job No.: 3534-239

Site Location: DEYERS GRAND ICE CREAM OAKLAND

No. of Containers: 4 / (check one): Well Samples;

Duplicates from well _____; Travel Blanks;

Field Blanks; Other (explain) / _____

W.L. (1/100'): 11.56 Time: 10:04 B.O.W. (1/2'): 27.0

Method: Electric Well Sounder; Other / _____

Meters calibrated: Y / N Well Loc. Map: Y / N

Calculated Purge Volume (4 casing volumes): 8 gallons

Purging Method: Disposable Bailer; Teflon Bailer;

Other / _____

Time Start Purging (24 hr): 12:14, Product: Y / N
 Sheen: Y / N, Odor: Y / N, Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: BROWN

Time Stop Purging (24 hr): 12:24, Product: Y / N
 Sheen: Y / N, Odor: Y / N, Vapor: _____ ppm / %LEL
 Turbidity: > 1,000, Color: BROWN

Time (24 hr)	Temp. (C)	pH	Cond. (uS)	H2O (Gal)	Turbid. (NTU)
<u>12:10</u>	<u>17.8</u>	<u>6.76</u>	<u>1137</u>	<u>3</u>	<u>> 1,000</u>
<u>12:17</u>	<u>17.6</u>	<u>6.72</u>	<u>1155</u>	<u>6</u>	<u>> 1,000</u>
<u>12:24</u>	<u>17.6</u>	<u>6.74</u>	<u>1158</u>	<u>8</u>	<u>> 1,000</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Sample Collection Time (24 hr): 12:25

Notes: _____

Collected By (signature): _____

SAMPLE COLLECTION RECORD - MONITOR WELL

Date: 6-6-94 Sample I.D.: MW55 Job No.: 3534-239

Site Location: DeVos Ground, Oakland

No. of Containers : 4 / (check one): Well Samples;
 Duplicates from well _____; Travel Blanks;
 Field Blanks; Other (explain) / _____

W.L. (1/100'): 9.74 Time : 12:35 B.O.W. (1/2'): 79.0

Method: Electric Well Sounder; Other / _____

Meters calibrated: / N Well Loc. Map: / N

Calculated Purge Volume (4 casing volumes): 12 gallons

Purging Method: Disposable Bailer; Teflon Bailer;
 Other / _____

Time Start Purging (24 hr): 12:46, Product: Y / N
 Sheen: Y / N, Odor: / N, Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: CLEAR

Time Stop Purging (24 hr): 13:00, Product: Y / N
 Sheen: Y / N, Odor: / N, Vapor: _____ ppm / %LEL
 Turbidity: 128, Color: CLOUDY

Time (24 hr)	Temp. (C)	pH	Cond. (uS)	H2O (Gal)	Turbid. (NTU)
<u>12:47</u>	<u>18.0</u>	<u>6.91</u>	<u>7870</u>	<u>4</u>	<u>93.9</u>
<u>12:58</u>	<u>18.2</u>	<u>6.70</u>	<u>7690</u>	<u>8</u>	<u>173</u>
<u>13:06</u>	<u>18.1</u>	<u>6.59</u>	<u>7870</u>	<u>12</u>	<u>128</u>
<u>:</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>
<u>:</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>

Sample Collection Time (24 hr): 13:10

Notes: Filter on during purge

Collected By (signature): _____

SAMPLE COLLECTION RECORD - MONITOR WELL

Date: 6-6-98 Sample I.D.: MW16 Job No.: 3534-239

Site Location: DEWEES GRAND ICE CREAM, OAKLAND

No. of Containers: 4 / (check one): Well Samples;

Duplicates from well _____; Travel Blanks;

Field Blanks; Other (explain)/ _____

W.L. (1/100'): 7.91 Time: 9:30 B.O.W. (1/2'): 71.0

Method: Electric Well Sounder; Other/ _____

Meters calibrated: Y / N Well Loc. Map: Y / N

Calculated Purge Volume (4 casing volumes): 30 gallons

Purging Method: Disposable Bailer; Teflon Bailer;

Other/ _____

Time Start Purging (24 hr): 10:10, Product: Y / N
 Sheen: Y / N, Odor: Y / N, Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: CLEAR

Time Stop Purging (24 hr): 10:30, Product: Y / N
 Sheen: Y / N, Odor: Y / N, Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: CLEAR

Time (24 hr)	Temp. (C)	pH	Cond. (uS)	H2O (Gal)	Turbid. (NTU)
<u>10:18</u>	<u>18.7</u>	<u>6.59</u>	<u>7950</u>	<u>10</u>	<u>-</u>
<u>10:22</u>	<u>18.9</u>	<u>6.47</u>	<u>8420</u>	<u>20</u>	<u>-</u>
<u>10:30</u>	<u>18.9</u>	<u>6.49</u>	<u>8520</u>	<u>30</u>	<u>-</u>
<u>:</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>
<u>:</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>

Sample Collection Time (24 hr): 10:25

Notes: _____

Collected By (signature): _____

SAMPLE COLLECTION RECORD - MONITOR WELL

Date: 9-20-94 Sample I.D.: MW6 Job No.: 3534

Site Location: DRYER L GRANO OAKLAND

No. of Containers : 4 / (check one): Well Samples;
 Duplicates from well _____; Travel Blanks;
 Field Blanks; Other (explain)/ _____

W.L. (1/100'): _____ Time : _____ B.O.W. (1/2'): 29

Method: Electric Well Sounder; Other/ _____

Meters calibrated: Y / N Well Loc. Map: Y / N

Calculated Purge Volume (4 casing volumes): 3 gallons

Purging Method: Disposable Bailer; Teflon Bailer;
 Other/ _____

Time Start Purging (24 hr): 15:15, Product: Y N
 Sheen: Y N , Odor: Y N , Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: Clear

Time Stop Purging (24 hr): 15:45, Product: Y N
 Sheen: Y N , Odor: Y N , Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: _____

Time (24 hr)	Temp. (C)	pH	Cond. (uS)	H2O (Gal)	Turbid. (NTU)
<u>15:25</u>	<u>19.7</u>	<u>6.72</u>	<u>808</u>	<u>10</u>	<u>98.0</u>
<u>15:35</u>	<u>19.5</u>	<u>6.66</u>	<u>844</u>	<u>20</u>	<u>46.0</u>
<u>15:45</u>	<u>19.</u>	<u>6.63</u>	<u>864</u>	<u>30</u>	<u>46.2</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Sample Collection Time (24 hr): 15:50

Notes: _____

Collected By (signature): 

SAMPLE COLLECTION RECORD - MONITOR WELL

Date: 9-20-94 Sample I.D.: MW5 Job No.: 3534

Site Location: DREYERS GRAND OAKLAND

No. of Containers : 4 / (check one): Well Samples;

Duplicates from well _____; Travel Blanks;

Field Blanks; Other (explain)/ _____

W.L. (1/100'): _____ Time : _____ B.O.W. (1/2'): 29

Method: Electric Well Sounder; Other/ _____

Meters calibrated: Y / N Well Loc. Map: Y / N

Calculated Purge Volume (4 casing volumes): 12 gallons

Purging Method: Disposable Bailer; Teflon Bailer;

Other/ _____

Time Start Purging (24 hr): 13:10, Product: Y / N
 Sheen: Y / N, Odor: N, Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: clear

Time Stop Purging (24 hr): 13:40, Product: Y / N
 Sheen: Y / N, Odor: Y / N, Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: _____

Time (24 hr)	Temp. (C)	pH	Cond. (uS)	H2O (Gal)	Turbid. (NTU)
<u>13:17</u>	<u>19.4°</u>	<u>6.67</u>	<u>818</u>	<u>4</u>	<u>83.5</u>
<u>13:30</u>	<u>18.9°</u>	<u>6.76</u>	<u>821</u>	<u>8</u>	<u>176.0</u>
<u>13:40</u>	<u>18.7°</u>	<u>6.73</u>	<u>827</u>	<u>12</u>	<u>308.0</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Sample Collection Time (24 hr): 13:45

Notes: _____

Collected By (signature): [Signature]

SAMPLE COLLECTION RECORD - MONITOR WELL

Date: 9-20-94 Sample I.D.: MW4 Job No.: 3534

Site Location: DREYERS GRAND OAKLAND

No. of Containers : 4 / (check one): Well Samples;

Duplicates from well _____; Travel Blanks;

Field Blanks; Other (explain)/ _____

W.L. (1/100'): _____ Time : _____ B.O.W. (1/2'): 27.0

Method: Electric Well Sounder; Other/ _____

Meters calibrated: Y / N Well Loc. Map: Y / N

Calculated Purge Volume (4 casing volumes): 8 gallons

Purging Method: Disposable Bailer; Teflon Bailer;

Other/ _____

Time Start Purging (24 hr): 14:00, Product: Y / N
 Sheen: Y / N Odor: Y N, Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: Brown

Time Stop Purging (24 hr): 14:25, Product: Y / N
 Sheen: Y / N, Odor: Y N, Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: Brown

Time (24 hr)	Temp. (C)	pH	Cond. (uS)	H2O (Gal)	Turbid. (NTU)
<u>14:10</u>	<u>18.8°</u>	<u>6.75</u>	<u>1202</u>	<u>3</u>	<u>308</u>
<u>14:15</u>	<u>18.3°</u>	<u>6.77</u>	<u>122.6</u>	<u>6</u>	<u>>1000</u>
<u>14:20</u>	<u>18.3°</u>	<u>6.76</u>	<u>1227</u>	<u>8</u>	<u>>1000</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Sample Collection Time (24 hr): 14:30

Notes: _____

Collected By (signature): *[Signature]*

SAMPLE COLLECTION RECORD - MONITOR WELL

Date: 9-30-94 Sample I.D.: MW3 Job No.: 3534

Site Location: DREYERS GRAND OAKLAND

No. of Containers : 4 / (check one): Well Samples;

Duplicates from well _____; Travel Blanks;

Field Blanks; Other (explain)/ _____

W.L. (1/100'): _____ Time : _____ B.O.W. (1/2'): 27.0

Method: Electric Well Sounder; Other/ _____

Meters calibrated: Y / N Well Loc. Map: Y / N

Calculated Purge Volume (4 casing volumes): 30 gallons

Purging Method: Disposable Bailer; Teflon Bailer;

Other/ _____

Time Start Purging (24 hr): 14:35, Product: Y / N
 Sheen: Y / N, Odor: Y / N, Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: Yellow/Clear

Time Stop Purging (24 hr): 15:10, Product: Y / N
 Sheen: Y / N, Odor: Y / N, Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: _____

Time (24 hr)	Temp. (C)	pH	Cond. (uS)	H2O (Gal)	Turbid. (NTU)
<u>14:45</u>	<u>18.7°</u>	<u>6.70</u>	<u>1155</u>	<u>10</u>	<u>352</u>
<u>14:55</u>	<u>18.5°</u>	<u>6.67</u>	<u>1174</u>	<u>20</u>	<u>123</u>
<u>15:05</u>	<u>18.4°</u>	<u>6.68</u>	<u>1133</u>	<u>30</u>	<u>194</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Sample Collection Time (24 hr): 15:10

Notes: _____

Collected By (signature): *[Signature]*

SAMPLE COLLECTION RECORD - MONITOR WELL

Date: 9-20-94 Sample I.D.: MW2 Job No.: 3534

Site Location: DREYER GRAND OAKLAND

No. of Containers : 4 / (check one): Well Samples;
 Duplicates from well _____; Travel Blanks;
 Field Blanks; Other (explain)/ _____

W.L. (1/100'): _____ Time : _____ B.O.W. (1/2'): 28.0

Method: Electric Well Sounder; Other/ _____

Meters calibrated: Y / N Well Loc. Map: Y / N

Calculated Purge Volume (4 casing volumes): 32 gallons

Purging Method: Disposable Bailer; Teflon Bailer;

Other/ _____

Time Start Purging (24 hr): 12:30, Product: Y / N
 Sheen: Y / N, Odor: Y / N, Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: Clear

Time Stop Purging (24 hr): 12:55, Product: Y / N
 Sheen: Y / N, Odor: Y / N, Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: Clear

Time (24 hr)	Temp. (C)	pH	Cond. (uS)	H2O (Gal)	Turbid. (NTU)
<u>12:37</u>	<u>20.2°</u>	<u>6.60</u>	<u>880</u>	<u>10</u>	<u>130</u>
<u>12:45</u>	<u>20.4°</u>	<u>6.60</u>	<u>885</u>	<u>20</u>	<u>89.7</u>
<u>12:55</u>	<u>20.1°</u>	<u>6.59</u>	<u>885</u>	<u>30</u>	<u>83.5</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Sample Collection Time (24 hr): 13:00

Notes: _____

Collected By (signature): Al Zy

SAMPLE COLLECTION RECORD - MONITOR WELL

Date: 9-20-94 Sample I.D.: MW1 Job No.: 3534

Site Location: DREYERS GRAND OAKLAND

No. of Containers : 4 / (check one): Well Samples;
 Duplicates from well _____; Travel Blanks;
 Field Blanks; Other (explain)/ _____

W.L. (1/100'): _____ Time : _____ B.O.W. (1/2'): 30.0

Method: Electric Well Sounder; Other/ _____

Meters calibrated: / N Well Loc. Map: / N

Calculated Purge Volume (4 casing volumes): 11 gallons

Purging Method: Disposable Bailer; Teflon Bailer;
 Other/ _____

Time Start Purging (24 hr): 11:35, Product: Y / N
 Sheen: Y / N, Odor: Y / N, Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: Clear

Time Stop Purging (24 hr): 12:15, Product: Y / N
 Sheen: Y / N, Odor: Y / N, Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: BROWN

Time (24 hr)	Temp. (C)	pH	Cond. (uS)	H2O (Gal)	Turbid. (NTU)
<u>11:55</u>	<u>18°</u>	<u>8.20</u>	<u>334</u>	<u>4</u>	<u>189</u>
<u>12:05</u>	<u>17.9°</u>	<u>7.30</u>	<u>294</u>	<u>8</u>	<u>527</u>
<u>12:15</u>	<u>17.9°</u>	<u>7.25</u>	<u>294</u>	<u>11</u>	<u>429</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Sample Collection Time (24 hr): 12:20

Notes: _____

Collected By (signature): [Signature]

SAMPLE COLLECTION RECORD - MONITOR WELL

Date: 12-6-94 Sample I.D.: MW1 Job No.: 3534

Site Location: DREYERS OAKLAND

No. of Containers: 4 / (check one): Well Samples;

Duplicates from well _____; Travel Blanks;

Field Blanks; Other (explain)/ _____

W.L. (1/100'): 11.3 Time: 13:00 B.O.W. (1/2'): _____

Method: Electric Well Sounder; Other/ _____

Meters calibrated: Y / N Well Loc. Map: Y / N

Calculated Purge Volume (4 casing volumes): 10 gallons

Purging Method: Disposable Bailer; Teflon Bailer;

Other/ PUMP

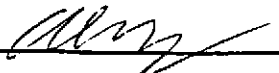
Time Start Purging (24 hr): 13:40, Product: Y /
 Sheen: Y / , Odor: Y / , Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: CLEAR

Time Stop Purging (24 hr): 13:41, Product: Y /
 Sheen: Y / , Odor: Y / , Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: CLEAR

Time (24 hr)	Temp. (C)	pH	Cond. (uS)	H2O (Gal)	Turbid. (NTU)
<u>13:30</u>	<u>17.2</u>	<u>7.82</u>	<u>295</u>	<u>3</u>	<u>31.3</u>
<u>13:39</u>	<u>17.4</u>	<u>7.66</u>	<u>297</u>	<u>6</u>	<u>15.3</u>
<u>13:41</u>	<u>16.9</u> 15.0	<u>7.80</u>	<u>297</u> 60	<u>9</u>	<u>12.5</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Sample Collection Time (24 hr): 14:00

Notes: _____

Collected By (signature): 

SAMPLE COLLECTION RECORD - MONITOR WELL

Date: 11-6-94 Sample I.D.: MWZ Job No.: 3534

Site Location: DRYME, OAKLAND

No. of Containers : 4 / (check one): Well Samples;
 Duplicates from well _____; Travel Blanks;
 Field Blanks; Other (explain) / _____

W.L. (1/100'): 8.79 Time : 11:10 B.O.W. (1/2'): _____

Method: Electric Well Sounder; Other / _____

Meters calibrated: Y / N Well Loc. Map: Y / N

Calculated Purge Volume (4 casing volumes): 2 gallons

Purging Method: Disposable Bailer; Teflon Bailer;
 Other / _____

Time Start Purging (24 hr): 15:30, Product: Y / N
 Sheen: Y / N, Odor: / N, Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: _____

Time Stop Purging (24 hr): 15:57, Product: Y /
 Sheen: Y / , Odor: / N, Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: CLEAR

Time (24 hr)	Temp. (C)	pH	Cond. (uS)	H2O (Gal)	Turbid. (NTU)
<u>15:40</u>	<u>18.6</u>	<u>7.66</u>	<u>605</u>	<u>10</u>	<u>26.5</u>
<u>15:50</u>	<u>19.4</u>	<u>7.28</u>	<u>781</u>	<u>15</u>	<u>19.6</u>
<u>15:57</u>	<u>19.6</u>	<u>7.21</u>	<u>756</u>	<u>20</u>	<u>20.6</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Sample Collection Time (24 hr): 16:00

Notes: _____

Collected By (signature): Dr 3

SAMPLE COLLECTION RECORD - MONITOR WELL

Date: 11-6-94 Sample I.D.: MW3 Job No.: 3534

Site Location: DREYER OAKLAND

No. of Containers : 4 / (check one): Well Samples;
 Duplicates from well _____; Travel Blanks;
 Field Blanks; Other (explain)/ _____

W.L. (1/100'): 11.19 Time : 11:25 B.O.W. (1/2'): _____

Method: Electric Well Sounder; Other/ _____

Meters calibrated: Y / N Well Loc. Map: Y / N

Calculated Purge Volume (4 casing volumes): 3 gallons

Purging Method: Disposable Bailer; Teflon Bailer;
 Other/ _____

Time Start Purging (24 hr): 16:05, Product: Y /
 Sheen: Y / , Odor: / N , Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: CLEAR

Time Stop Purging (24 hr): 16:35, Product: Y /
 Sheen: Y / , Odor: / N , Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: CLEAR

Time (24 hr)	Temp. (C)	pH	Cond. (uS)	H2O (Gal)	Turbid. (NTU)
<u>16:15</u>	<u>14.0</u>	<u>692</u>	<u>1132</u>	<u>10</u>	<u>772</u>
<u>16:25</u>	<u>17.1</u>	<u>683</u>	<u>1147</u>	<u>20</u>	<u>64.6</u>
<u>16:35</u>	<u>16.9</u>	<u>685</u>	<u>1143</u>	<u>30</u>	<u>65.4</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Sample Collection Time (24 hr): 16:40

Notes: _____

Collected By (signature): *Al ny*

SAMPLE COLLECTION RECORD - MONITOR WELL

Date: 11-6-94 Sample I.D.: MW24 Job No.: 3534

Site Location: _____

No. of Containers : _____ / (check one): Well Samples;
 Duplicates from well _____; Travel Blanks;
 Field Blanks; Other (explain) / _____

W.L. (1/100'): _____ Time : _____ B.O.W. (1/2'): _____

Method: Electric Well Sounder; Other / _____

Meters calibrated: Y / N Well Loc. Map: Y / N

Calculated Purge Volume (4 casing volumes): 10 gallons

Purging Method: Disposable Bailer; Teflon Bailer;

Other / _____

Time Start Purging (24 hr): 16:45, Product: Y /
 Sheen: Y / , Odor: Y / , Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: BROWN

Time Stop Purging (24 hr): 17:25, Product: Y /
 Sheen: Y / , Odor: Y / , Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: BROWN

Time (24 hr)	Temp. (C)	pH	Cond. (uS)	H2O (Gal)	Turbid. (NTU)
<u>16:50</u>	<u>17.0</u>	<u>6.86</u>	<u>6093</u>	<u>3</u>	<u>153</u>
<u>16:55</u>	<u>17.1</u>	<u>6.70</u>	<u>1100</u>	<u>6</u>	<u>2100</u>
<u>17:05</u>	<u>17.2</u>	<u>6.75</u>	<u>1108</u>	<u>9</u>	<u>819</u>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Sample Collection Time (24 hr): 17:20

Notes: _____

Collected By (signature): Ch 7/94

SAMPLE COLLECTION RECORD - MONITOR WELL

Date: 12-6-94 Sample I.D.: MW5 Job No.: 3534

Site Location: DREYERS OAKLAND

No. of Containers: 4 / (check one): Well Samples;

Duplicates from well _____; Travel Blanks;

Field Blanks; Other (explain)/ _____

W.L. (1/100'): 7.98 Time: 11:15 B.O.W. (1/2'): _____

Method: Electric Well Sounder; Other/ _____

Meters calibrated: Y / N Well Loc. Map: Y / N

Calculated Purge Volume (4 casing volumes): 10 gallons

Purging Method: Disposable Bailer; Teflon Bailer;

Other/ _____

Time Start Purging (24 hr): 14:50, Product: Y /
 Sheen: Y / , Odor: / N, Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: (Clean)

Time Stop Purging (24 hr): 15:15, Product: Y /
 Sheen: Y / , Odor: / N, Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: (Clean)

Time (24 hr)	Temp. (C)	pH	Cond. (uS)	H2O (Gal)	Turbid. (NTU)
<u>15:00</u>	<u>17.4</u>	<u>6.77</u>	<u>673</u>	<u>3</u>	<u>17.1</u>
<u>15:10</u>	<u>17.7</u>	<u>6.70</u>	<u>675</u>	<u>6</u>	<u>19.0</u>
<u>15:15</u>	<u>17.5</u>	<u>6.68</u>	<u>673</u>	<u>9</u>	<u>22.5</u>
<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>
<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>

Sample Collection Time (24 hr): 15:20

Notes: _____

Collected By (signature): DA 7

SAMPLE COLLECTION RECORD - MONITOR WELL

Date: 12-6-94 Sample I.D.: MW6 Job No.: 3584

Site Location: DREYERS OAKLAND

No. of Containers: 4 / (check one): Well Samples;

Duplicates from well _____; Travel Blanks;

Field Blanks; Other (explain) / _____

W.L. (1/100'): 8.15 Time: 11:30 B.O.W. (1/2'): _____

Method: Electric Well Sounder; Other / _____

Meters calibrated: Y / N Well Loc. Map: Y / N

Calculated Purge Volume (4 casing volumes): 15 gallons

Purging Method: Disposable Bailer; Teflon Bailer;

Other / _____

Time Start Purging (24 hr): 14:15, Product: Y /
 Sheen: Y / , Odor: / N, Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: CLEAR

Time Stop Purging (24 hr): 14:35, Product: Y /
 Sheen: Y / , Odor: / N, Vapor: _____ ppm / %LEL
 Turbidity: _____, Color: CLEAR

Time (24 hr)	Temp. (C)	pH	Cond. (uS)	H2O (Gal)	Turbid. (NTU)
<u>14:20</u>	<u>18.5</u>	<u>7.10</u>	<u>846</u>	<u>6</u>	<u>8.04</u>
<u>14:25</u>	<u>18.6</u>	<u>7.03</u>	<u>817</u>	<u>12</u>	<u>10.7</u>
<u>14:35</u>	<u>18.8</u>	<u>7.01</u>	<u>792</u>	<u>15</u>	<u>13.1</u>
<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>
<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>	<u>:</u>

Sample Collection Time (24 hr): 14:40

Notes: _____

Collected By (signature): [Signature]

RECORD OF GROUNDWATER LEVEL MEASUREMENTS

Page 1 of 1

Date Measured: 4 - 29 - 94

Job No.: 3534-239

Site Location: DREYERS GRAND ICE CREAM DAKLAND

Well location map attached? Yes No

Method of Measurement: ✓ Electric well sounder,

 Other:

Weather/Visibility: OVERCAST COOL

Notes:

Well I.D.	Time (24 hr)	G.W.L. (1/100 ft)	G.W.L. 3x's?	B.O.W. (1/2ft)	Remarks
MW1	12:39	12.55	✓		
MW2	15:15	9.86	✓		STRONG PETROLEUM ODER
MW3	14:59	11.47	✓		STRONG PETROLEUM ODER
MW4	15:07	11.50	✓		
MW5	15:23	9.00	✓		STRONG PETROLEUM ODER
MW6	14:51	7.64	✓		

Measured by (Signature): *MP [Signature]*

RECORD OF GROUNDWATER LEVEL MEASUREMENTS

Page 1 of 1

Date Measured: 5 - 20 - 94

Job No.: 3534-

Site Location: Devers Grand Ice Cream Oakland

Well location map attached? Yes No

Method of Measurement: Electric well sounder,

Other: _____

Weather/Visibility: _____

Notes: _____

Well I.D.	Time (24 hr)	G.W.L. (1/100 ft)	G.W.L. 3x's?	B.O.W. (1/2ft)	Remarks
MW1	14:29	12.59	✓		
MW2	14:55	9.68	✓		
MW3	14:41	11.16	✓		
MW4	14:49	11.13	✓		
MW5	15:00	9.29	✓		
MW6	14:38	7.60	✓		

Measured by (Signature): *M. J. [Signature]*

RECORD OF GROUNDWATER LEVEL MEASUREMENTS

Page 1 of

Date Measured: 6 - 6 - 94

Job No.: 3534-239

Site Location: DRYERS GRAND ICE CREAM, OAKLAND

Well location map attached? Yes No

Method of Measurement: Electric well sounder,

 Other:

Weather/Visibility: SUNNY CLEAR WARM

Notes:

Well I.D.	Time (24 hr)	G.W.L. (1/100 ft)	G.W.L. 3x's?	B.O.W. (1/2ft)	Remarks
MW1	9:26	12.96	✓	30.0	
MW2	11:36	10.27	✓	28.0	
MW3	10:01	11.55	✓	27.0	
MW4	10:04	11.56	✓	27.0	
MW5	12:35	9.74	✓	29.0	
MW6	9:30	7.91	✓	29.0	

Measured by (Signature): *J.P. [Signature]*

RECORD OF GROUNDWATER LEVEL MEASUREMENTS

Page 1 of 1

Date Measured: 7 - 27 - 94

Job No.: 3534-239

Site Location: DREYERS OAKLAND

Well location map attached? Yes No

Method of Measurement: Electric well sounder,

Other: _____

Weather/Visibility: CLEAR

Notes: _____

Well I.D.	Time (24 hr)	G.W.L. (1/100 ft)	G.W.L. 3x's?	B.O.W. (1/2ft)	Remarks
MW1	13:36	13.81	✓		
MW6	13:45	6.90	✓		
MW3	13:50	9.78	✓		SMELL GAS ODOR
MW4	13:54	9.57	✓		
MW2	13:58	10.32	✓		PRESURE ON CAP
MW5	14:03	9.88	✓		PRESURE ON CAP

Measured by (Signature): 

RECORD OF GROUNDWATER LEVEL MEASUREMENTS

Page 1 of 1

Date Measured: 8 - 30 - 94

Job No.: 3534

Site Location: DREYERS OAKLAND

Well location map attached? Yes No

Method of Measurement: Electric well sounder,

 Other: _____

Weather/Visibility: CLEAR

Notes: _____

Well I.D.	Time (24 hr)	G.W.L. (1/100 ft)	G.W.L. 3x's?	B.O.W. (1/2ft)	Remarks
MW5	14:07	10.44	✓		
MW2	14:10	11.01	✓		
MW4	14:13	11.21	✓		
MW3	14:16	11.50	✓		
MW6	14:19	8.10	✓		
MW1	14:26	14.29	✓		

Measured by (Signature): *[Signature]*

RECORD OF GROUNDWATER LEVEL MEASUREMENTS

Page ___ of ___

Date Measured: 9 - 20 - 94

Job No.: 3534

Site Location: DREYERS GRAND OAKLAND


Well location map attached? Yes ___ No ___

Method of Measurement: Electric well sounder,
 ___ Other: _____

Weather/Visibility: _____

Notes: _____

Well I.D.	Time (24 hr)	G.W.L. (1/100 ft)	G.W.L. 3x's?	B.O.W. (1/2ft)	Remarks
MW1	11:20	14.55	✓	30.0	
MW2	10:47	11.34	✓	28.0	
MW3	11:05	11.74	✓	27.0	
MW4	10:55	11.56	✓	27.0	
MW5	10:40	10.56	✓	29.0	
MW6	11:13	8.17	✓	29.0	

Measured by (Signature): 

RECORD OF GROUNDWATER LEVEL MEASUREMENTS

Page 1 of 1

Date Measured: 10 - 13 - 94

Job No.: _____

Site Location: Dreyer's Grand Ice Cream, Oakland

Well location map attached? Yes No

Method of Measurement: Electric well sounder,

Other: Water to:

Weather/Visibility: Clear

Notes: _____

Well I.D.	Time (24 hr)	G.W.L. (1/100 ft)	G.W.L. 3x's?	B.O.W. (1/2ft)	Remarks
5	13:15	10.87	✓		Stinks
2	13:27	11.42	✓		
3	13:25	11.52	✓		Stinks
4	13:30	11.40	✓		
6	13:35	8.21	✓		
1	13:40	14.83	✓		

Measured by (Signature): ay

RECORD OF GROUNDWATER LEVEL MEASUREMENTS

Page 1 of 1

Date Measured: 11 - 15 - 94

Job No.: 3534

Site Location: DRIVERS OAKLAND

Well location map attached? Yes No

Method of Measurement: Electric well sounder,
 Other: _____

Weather/Visibility: RAZNYNG

Notes: _____

Well I.D.	Time (24 hr)	G.W.L. (1/100 ft)	G.W.L. 3x's?	B.O.W. (1/2ft)	Remarks
MW1	13:50	11.00	✓		
MW2	13:57	8.92	✓		
MW3	14:05	10.28	✓		
MW4	14:15	9.83	✓		
MW5	14:22	8.17	✓		WELL CAP OPEN
MW6	14:25	7.62	✓		

Measured by (Signature): AS

RECORD OF GROUNDWATER LEVEL MEASUREMENTS

Page 1 of 1

Date Measured: 12 - 6 - 94

Job No.: 3534

Site Location: Dreyer's Grand Ice Cream

Well location map attached? Yes No

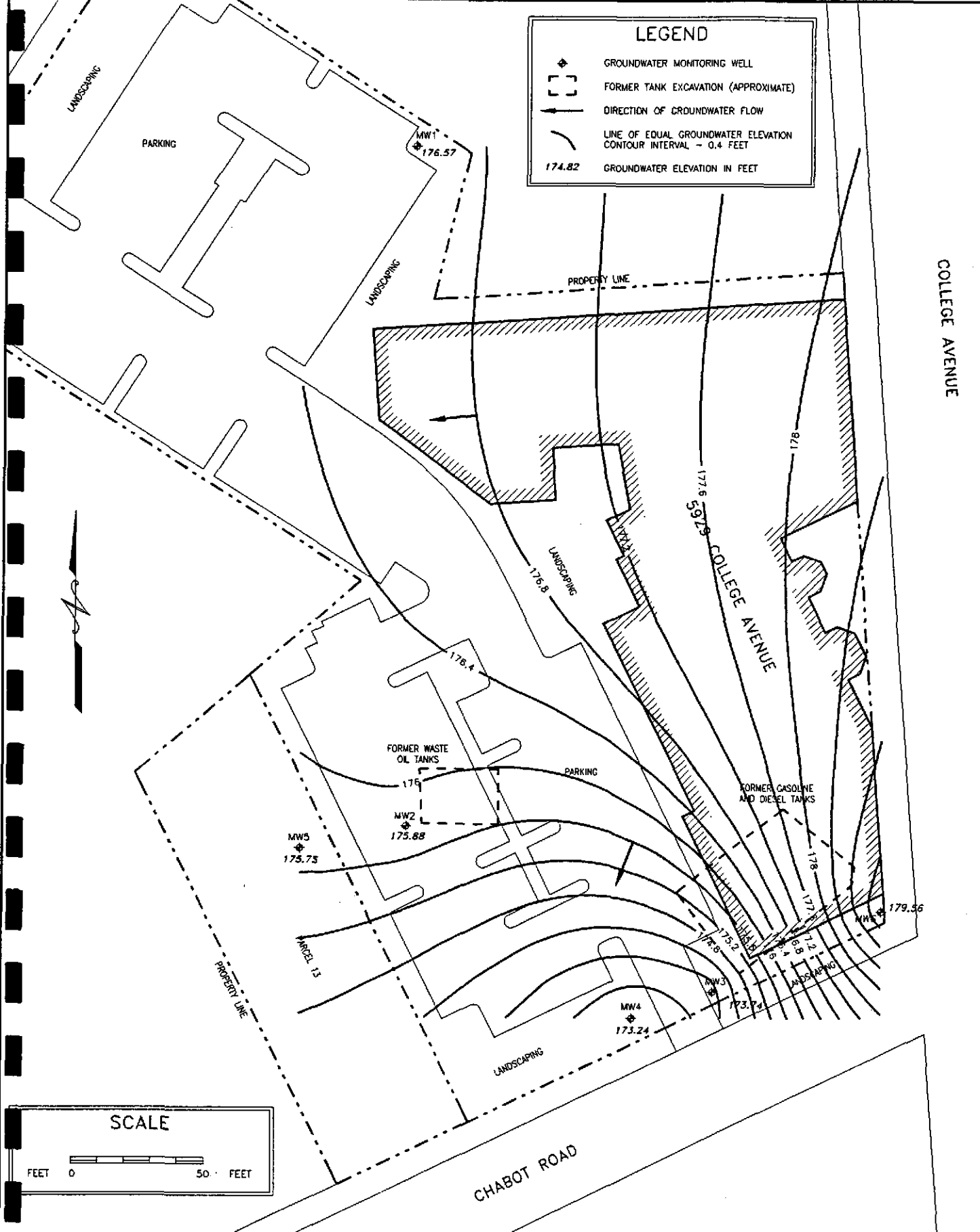
Method of Measurement: Electric well sounder,
 _____ Other: _____

Weather/Visibility: Clear

Notes: _____

Well I.D.	Time (24 hr)	G.W.L. (1/100 ft)	G.W.L. 3x's?	B.O.W. (1/2ft)	Remarks
2	11:10	8.79	✓		
5	11:15	7.98	✓		
4	11:20	10.85	✓		
3	11:25	11.19	✓		PERM-LUM SMALL STARS
6	11:30	8.15	✓		
1	11:35	11.33	✓		

Measured by (Signature): Alex My



LEGEND

- GROUNDWATER MONITORING WELL
- FORMER TANK EXCAVATION (APPROXIMATE)
- DIRECTION OF GROUNDWATER FLOW
- LINE OF EQUAL GROUNDWATER ELEVATION
CONTOUR INTERVAL - 0.4 FEET
- 174.82 GROUNDWATER ELEVATION IN FEET

SCALE

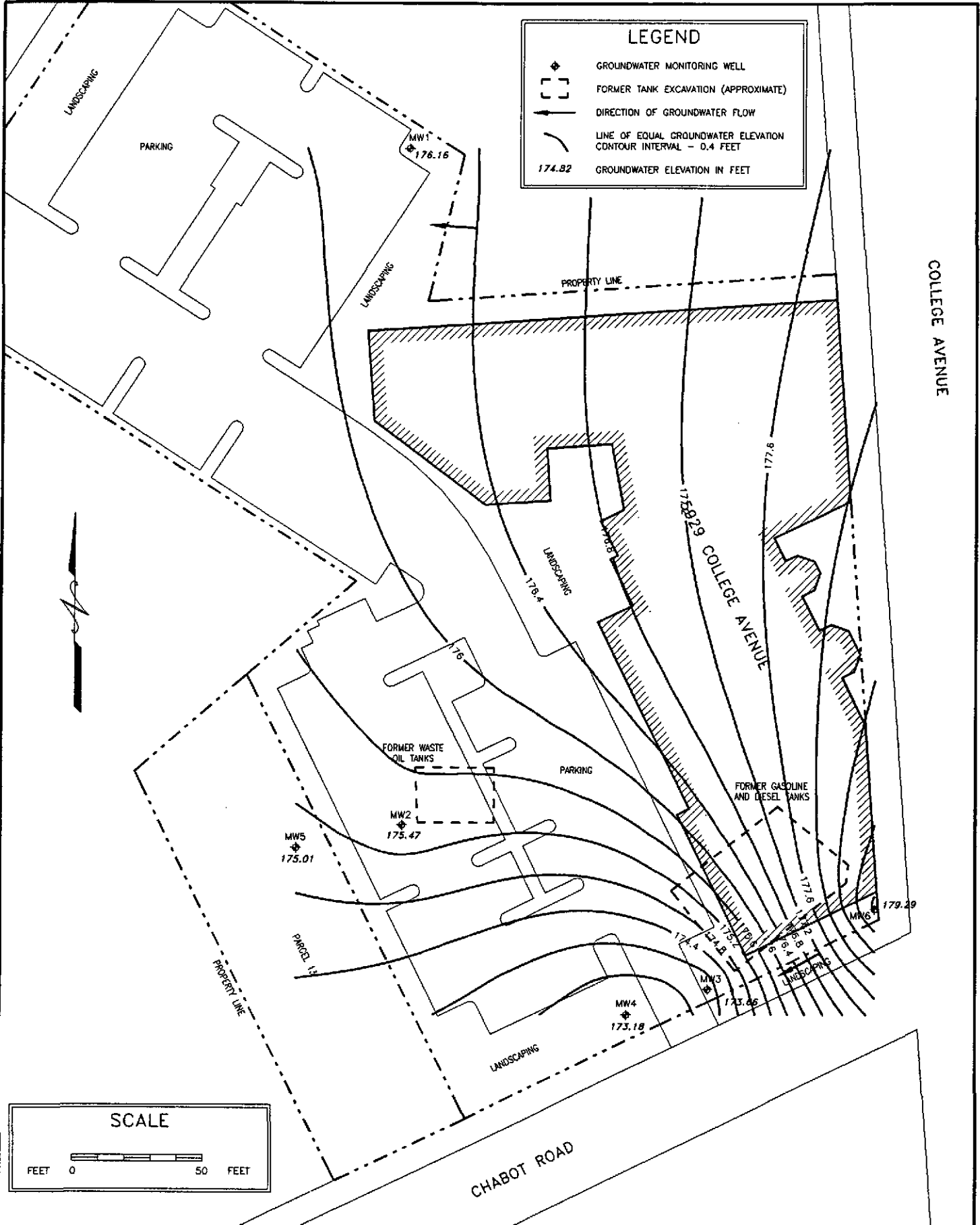
FEET 0 50 FEET

CET Environmental Services, Inc.

GROUNDWATER ELEVATIONS AND CONTOURS
04/29/94
DREYER'S GRAND ICE CREAM, INC.
5929 COLLEGE AVENUE
OAKLAND, CALIFORNIA

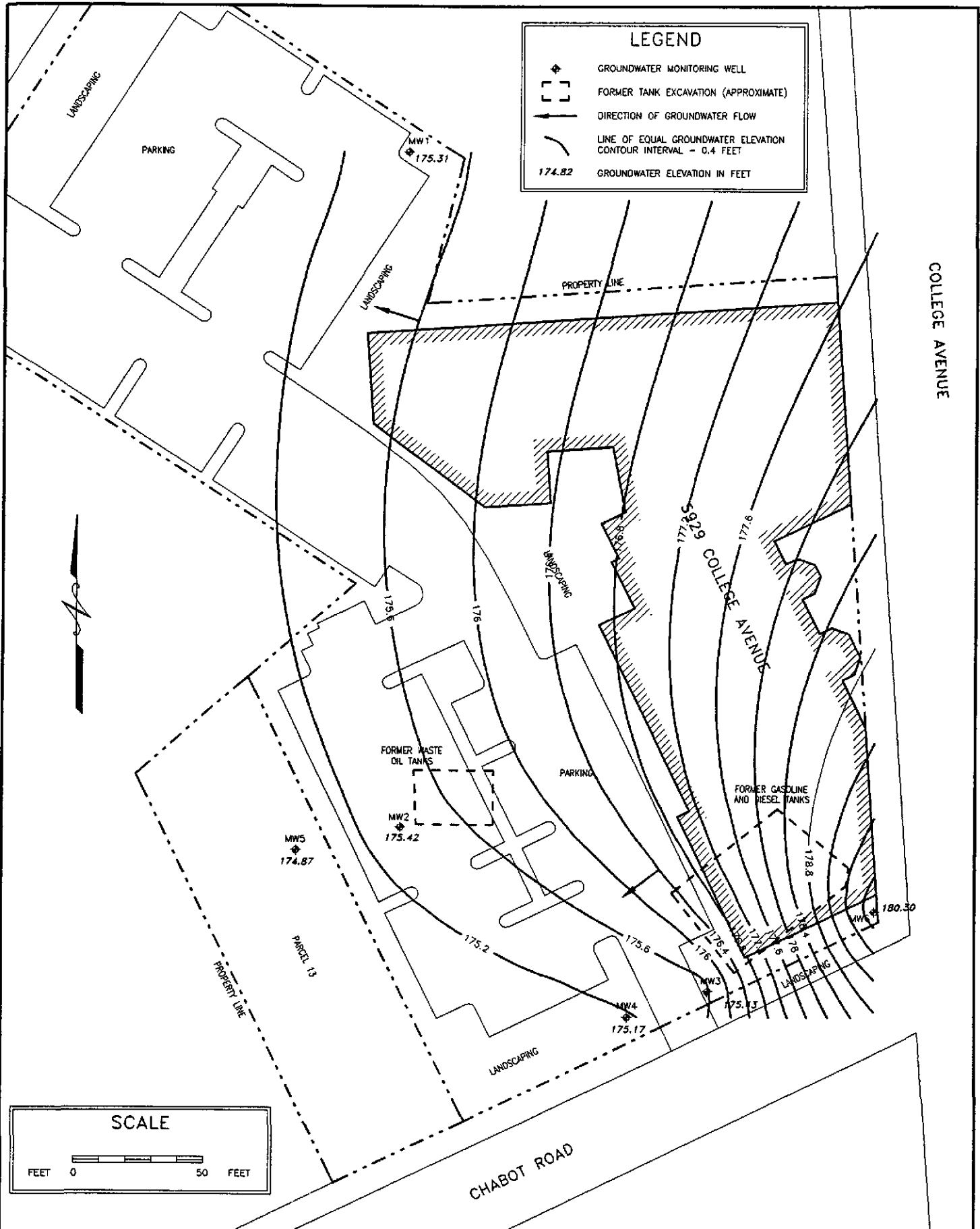
JOB NUMBER	DATE	DRAWING	BY	REVISED
3534	02/95	GWLO4	LONG	02/02

PLATE
3



CET Environmental Services, Inc.






GROUNDWATER ELEVATIONS AND CONTOURS					PLATE
06/06/94					5
DREYER'S GRAND ICE CREAM, INC.					
5929 COLLEGE AVENUE OAKLAND, CALIFORNIA					
JOB NUMBER	DATE	DRAWING	BY	REVISED	
3534	02/95	GWL06	LONG	02/02	

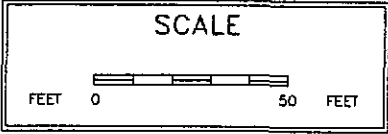
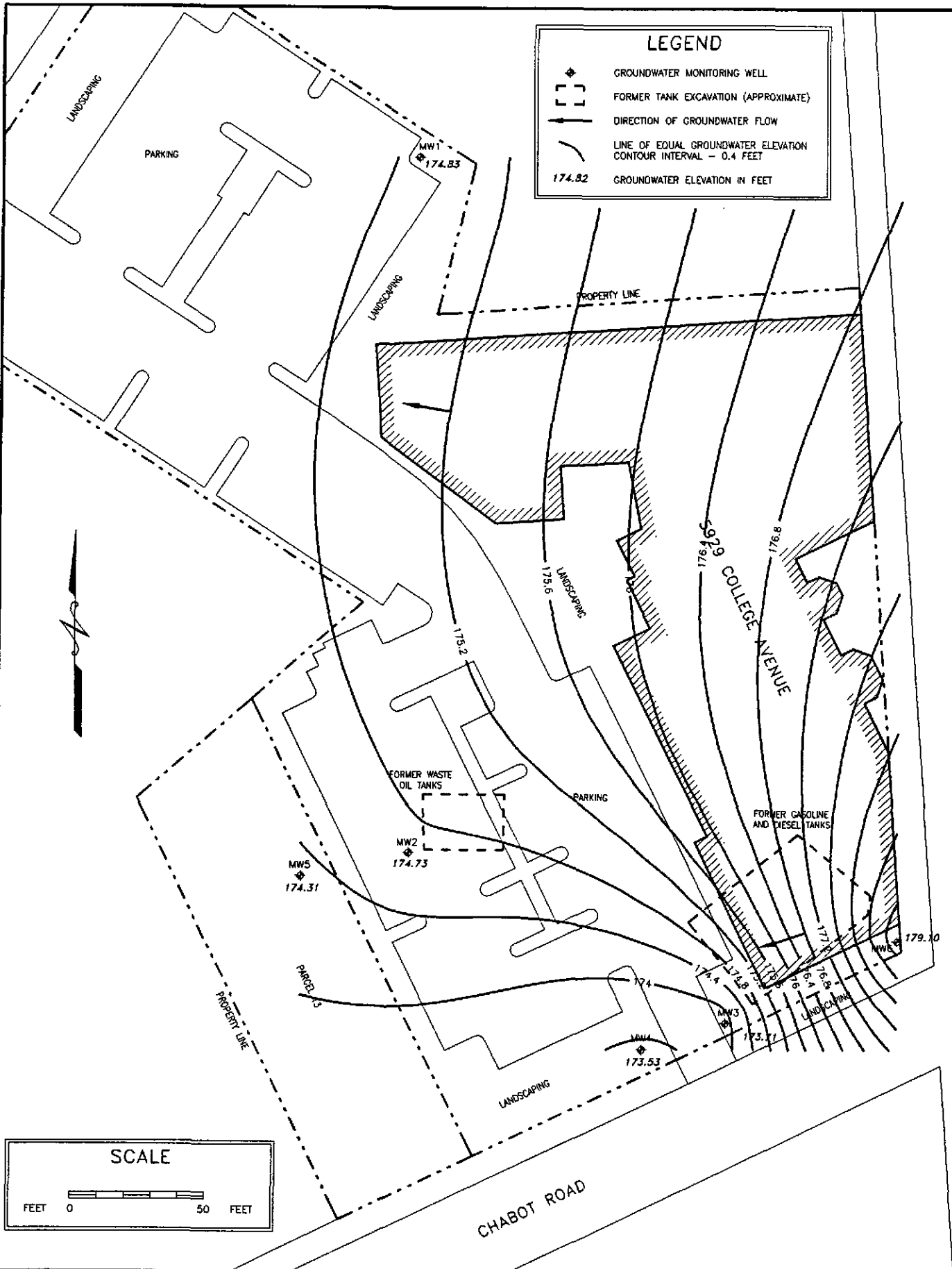



CET Environmental Services, Inc.

GROUNDWATER ELEVATIONS AND CONTOURS 07/27/94 DREYER'S GRAND ICE CREAM, INC. 5929 COLLEGE AVENUE OAKLAND, CALIFORNIA					PLATE
JOB NUMBER	DATE	DRAWING	BY	REVISED	6
3534	02/95	GWL07	LONG	02/06	

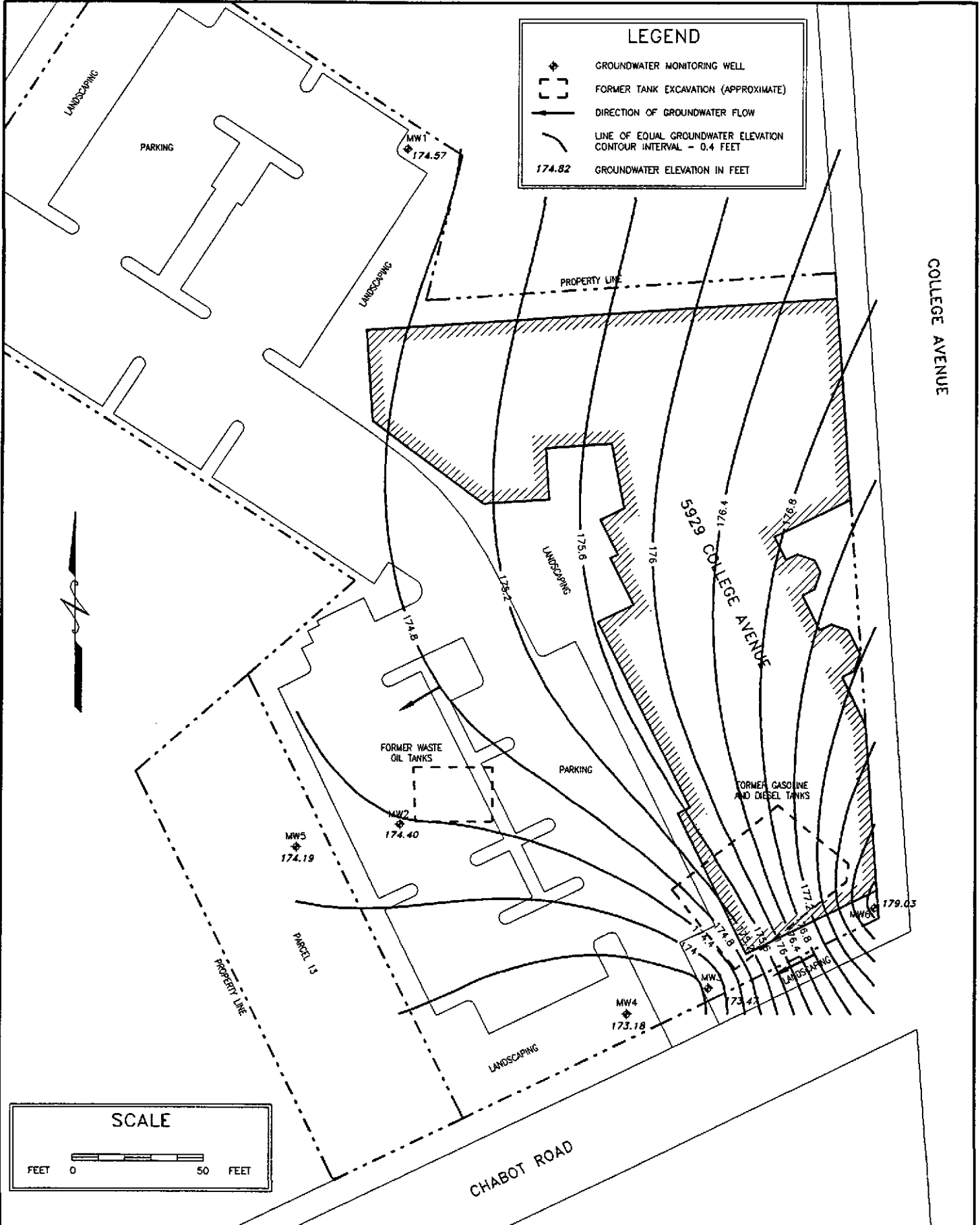
LEGEND

-  GROUNDWATER MONITORING WELL
-  FORMER TANK EXCAVATION (APPROXIMATE)
-  DIRECTION OF GROUNDWATER FLOW
-  LINE OF EQUAL GROUNDWATER ELEVATION
CONTOUR INTERVAL - 0.4 FEET
-  174.82 GROUNDWATER ELEVATION IN FEET



CET Environmental Services, Inc.

GROUNDWATER ELEVATIONS AND CONTOURS					PLATE 7
08/30/94					
DREYER'S GRAND ICE CREAM, INC. 5929 COLLEGE AVENUE OAKLAND, CALIFORNIA					
JOB NUMBER	DATE	DRAWING	BY	REVISED	
3534	02/95	GWL08	LONG	02/06	



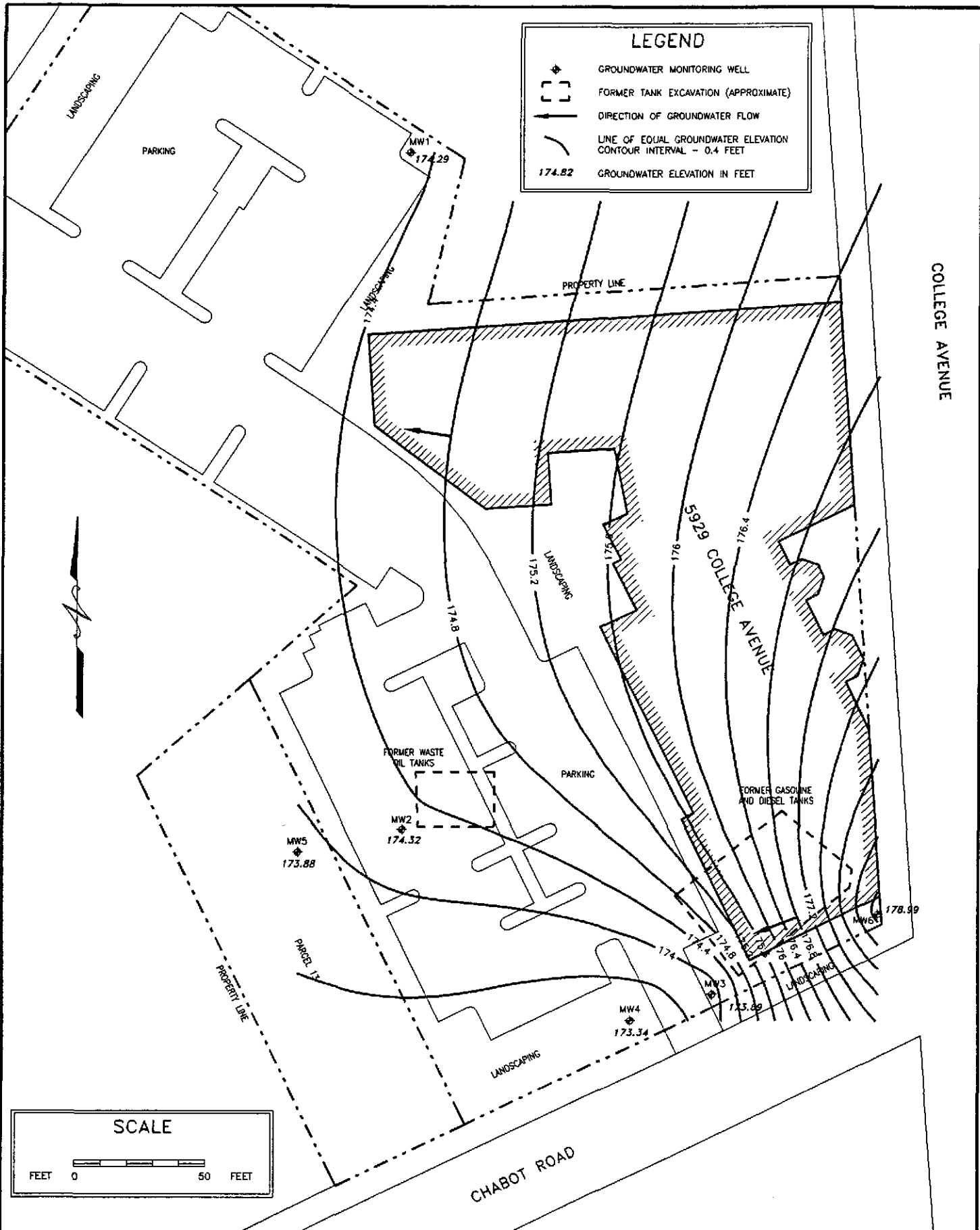
LEGEND

- GROUNDWATER MONITORING WELL
- FORMER TANK EXCAVATION (APPROXIMATE)
- DIRECTION OF GROUNDWATER FLOW
- LINE OF EQUAL GROUNDWATER ELEVATION
- CONTOUR INTERVAL - 0.4 FEET
- 174.82** GROUNDWATER ELEVATION IN FEET

SCALE

FEET 0 50 FEET

	CET Environmental Services, Inc.				GROUNDWATER ELEVATIONS AND CONTOURS 09/20/94 DREYER'S GRAND ICE CREAM, INC. 5929 COLLEGE AVENUE OAKLAND, CALIFORNIA		PLATE 8
	JOB NUMBER	DATE	DRAWING	BY	REVISED		
	3534	02/95	GWL09	LONG	02/06		



LEGEND

- GROUNDWATER MONITORING WELL
- FORMER TANK EXCAVATION (APPROXIMATE)
- DIRECTION OF GROUNDWATER FLOW
- LINE OF EQUAL GROUNDWATER ELEVATION
- CONTOUR INTERVAL - 0.4 FEET
- 174.82 GROUNDWATER ELEVATION IN FEET

SCALE






FEET 0 50 FEET

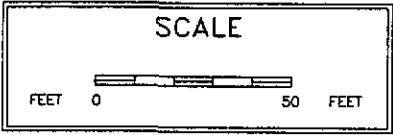
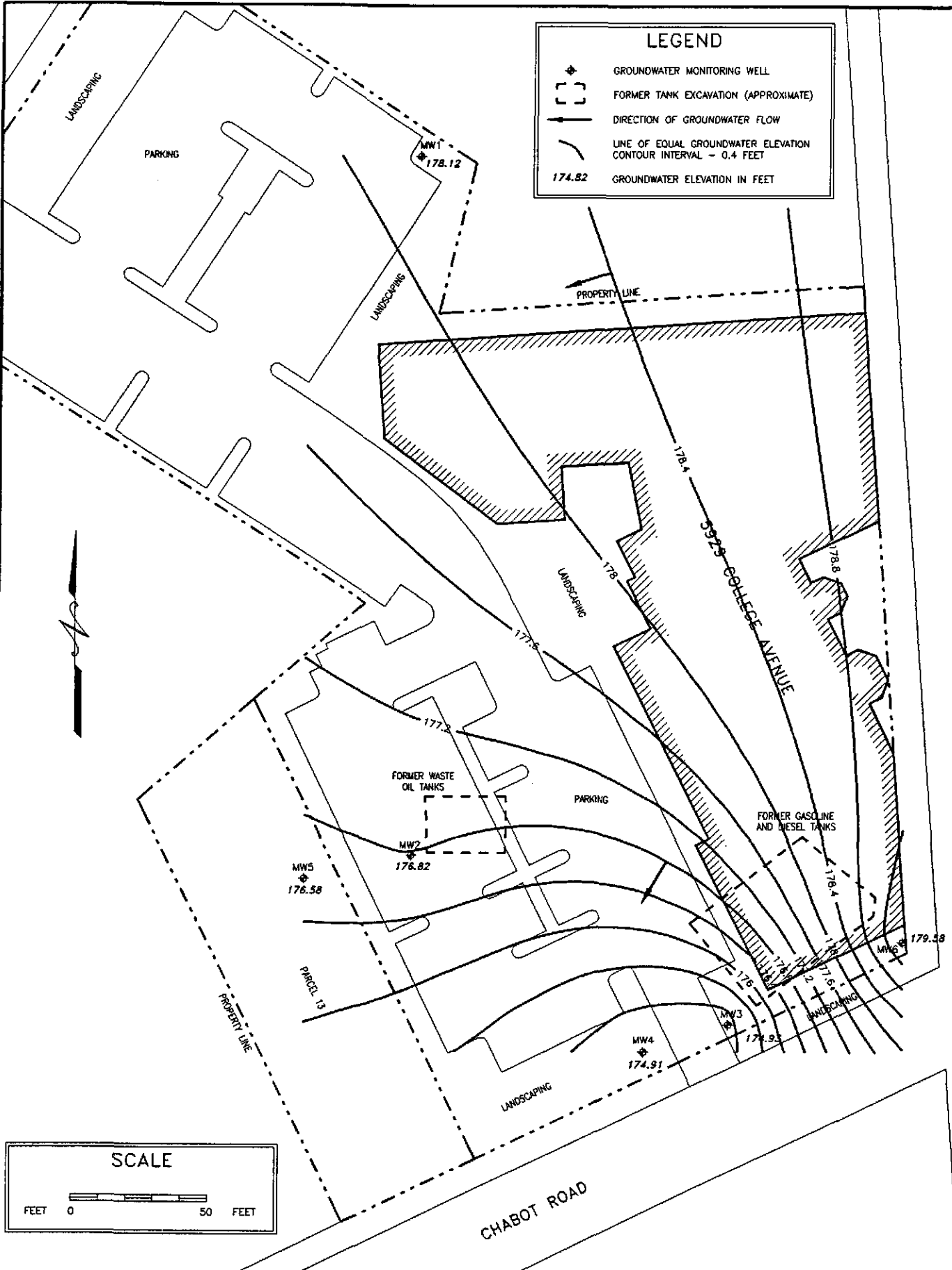


CET Environmental Services, Inc.

GROUNDWATER ELEVATIONS AND CONTOURS					PLATE
10/13/94					
DREYER'S GRAND ICE CREAM, INC. 5929 COLLEGE AVENUE OAKLAND, CALIFORNIA					
JOB NUMBER	DATE	DRAWING	BY	REVISED	9
3534	02/95	GWL10	LONG	02/06	

LEGEND






-  GROUNDWATER MONITORING WELL
-  FORMER TANK EXCAVATION (APPROXIMATE)
-  DIRECTION OF GROUNDWATER FLOW
-  LINE OF EQUAL GROUNDWATER ELEVATION
CONTOUR INTERVAL - 0.4 FEET
-  174.82 GROUNDWATER ELEVATION IN FEET

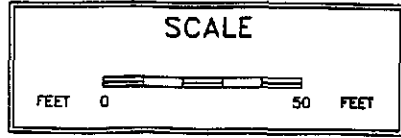
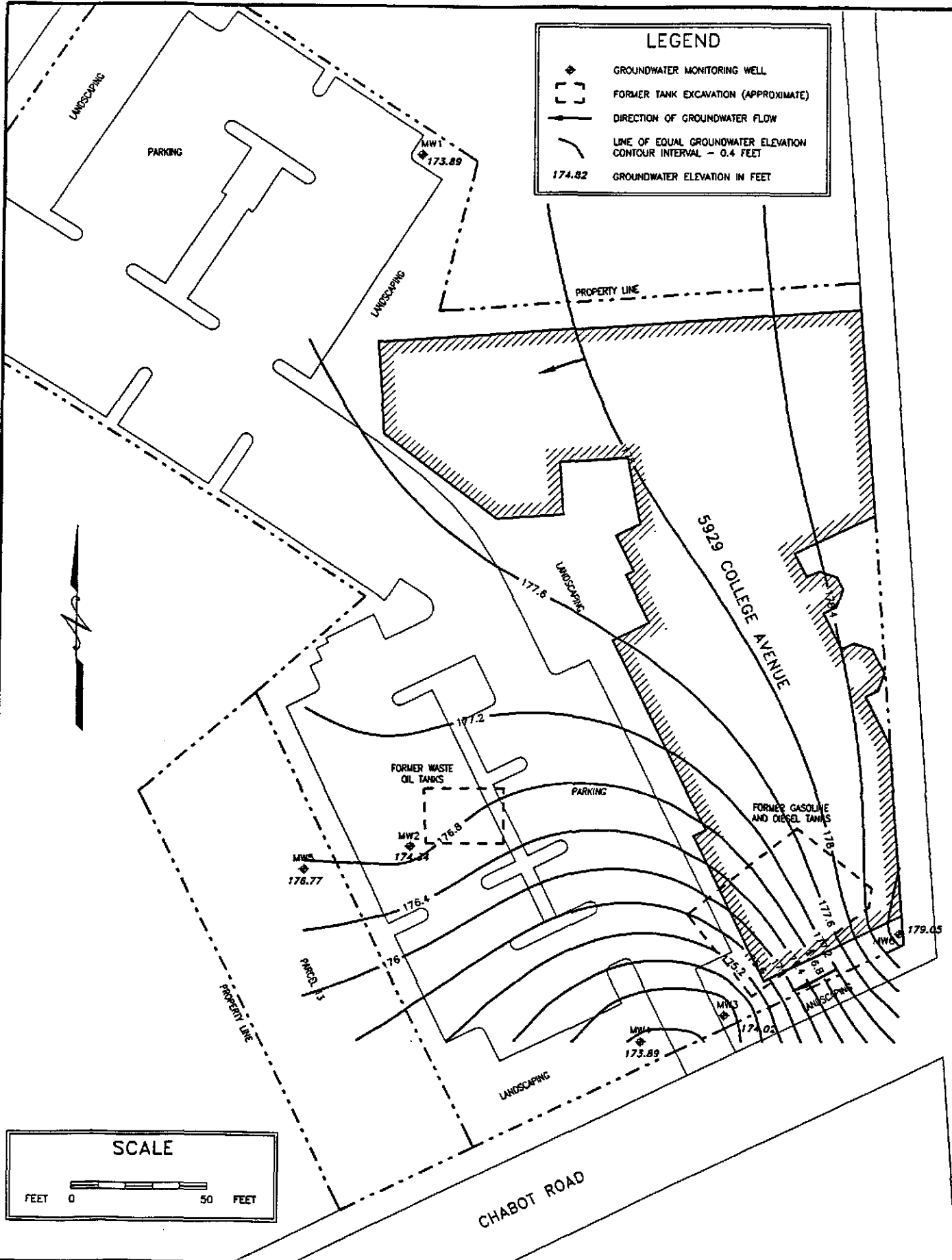


CET Environmental Services, Inc.

GROUNDWATER ELEVATIONS AND CONTOURS					PLATE
11/15/94					
DREYER'S GRAND ICE CREAM, INC. 5929 COLLEGE AVENUE OAKLAND, CALIFORNIA					
JOB NUMBER	DATE	DRAWING	BY	REVISED	10
3534	02/95	GWL11	LONG	02/06	

LEGEND

-  GROUNDWATER MONITORING WELL
-  FORMER TANK EXCAVATION (APPROXIMATE)
-  DIRECTION OF GROUNDWATER FLOW
-  LINE OF EQUAL GROUNDWATER ELEVATION
CONTOUR INTERVAL - 0.4 FEET
-  174.82 GROUNDWATER ELEVATION IN FEET



CET Environmental Services, Inc.

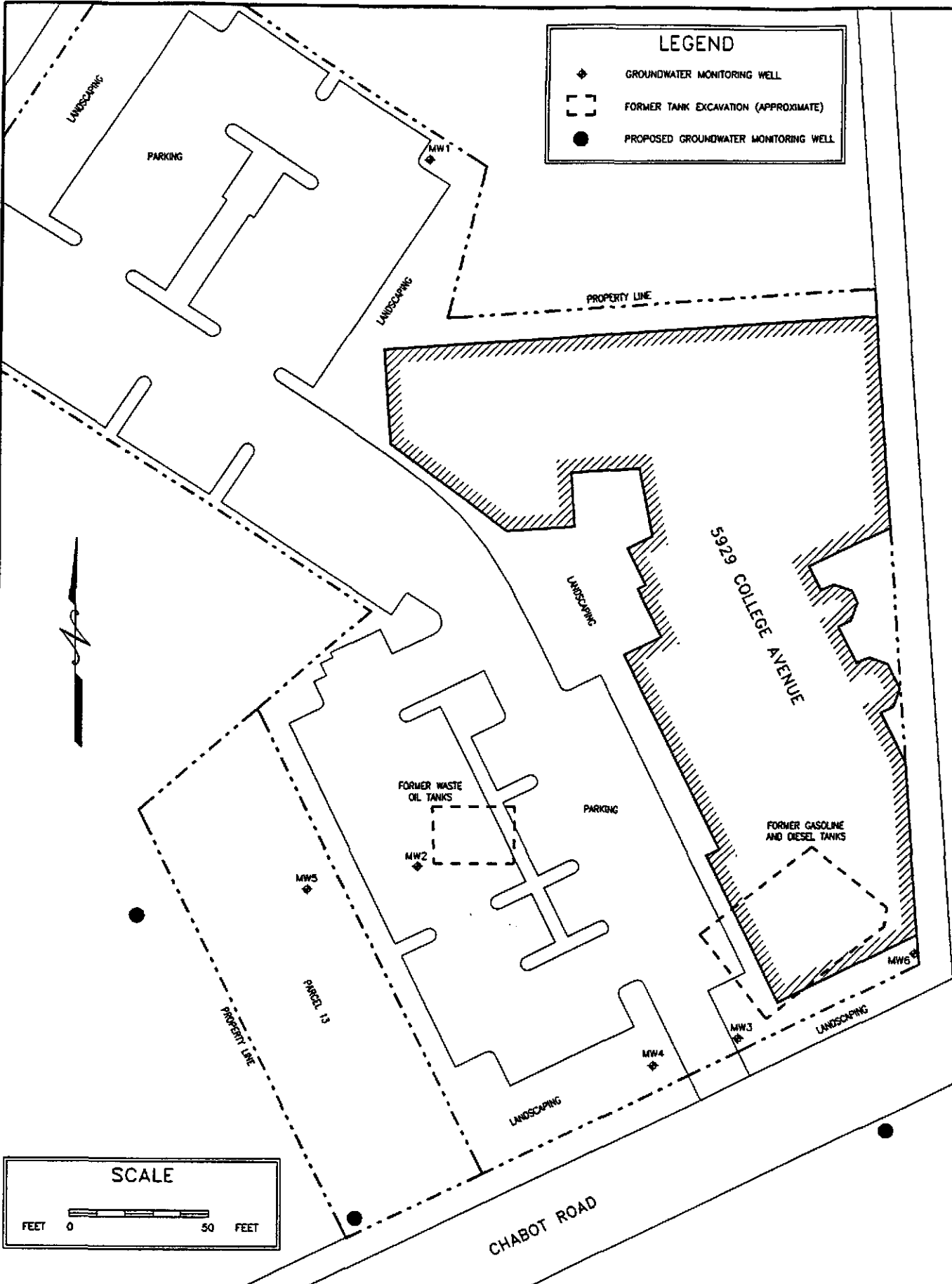
GROUNDWATER ELEVATIONS AND CONTOURS
 12/06/94
 DREYER'S GRAND ICE CREAM, INC.
 5929 COLLEGE AVENUE
 OAKLAND, CALIFORNIA

JOB NUMBER	DATE	DRAWING	BY	REVISED
3534	02/95	GWL12	LONG	02/06

PLATE
11

LEGEND

- ◆ GROUNDWATER MONITORING WELL
- [] FORMER TANK EXCAVATION (APPROXIMATE)
- PROPOSED GROUNDWATER MONITORING WELL



SCALE

FEET 0 50 FEET



CET Environmental Services, Inc.

PROPOSED GROUNDWATER MONITORING WELL LOCATIONS					PLATE
DREYER'S GRAND ICE CREAM, INC. 5929 COLLEGE AVENUE OAKLAND, CALIFORNIA					12
JOB NUMBER	DATE	DRAWING	BY	REVISED	
3534	04/95	PROPOSED	LONG	04/25	



APPENDIX B

Limitations and Uncertainty



LIMITATIONS AND UNCERTAINTY

This report was prepared in general accordance with the accepted principals and standards of practice of environmental consulting which exists in northern California at the time the investigation was conducted and within the scope of service outlined in our proposal. It should be recognized that the definition and evaluation of surface and subsurface environmental conditions is a difficult and inexact science. Judgements leading to conclusions and recommendations generally are made with an incomplete knowledge of the conditions present. Any opinions presented apply to site conditions existing at the time of the inspection and those reasonably foreseeable; they cannot necessarily apply to site changes made of which the inspector could not observe and has not had the opportunity to evaluate.

Changes in the conditions of the subject property can occur with time, because of the natural processes or the works of man, on the subject site or on adjacent properties. It is further possible that variations and/or changes in the soil and/or groundwater conditions could exist beyond the points explored for this investigation. Also, changes in groundwater conditions could occur sometime in the future due to variations in tides, rainfall, temperature, local or regional water use or other factors. Changes in applicable engineering and construction standards can also occur as the result of legislation or from the broadening of knowledge. Accordingly the data presented in the assessment may be invalidated, wholly or in part, by changes beyond the control of the consultant. If the client wishes to reduce the uncertainty beyond the level associated with this study, CET Environmental Services, Inc. should be notified for additional consultation.

The discussion and recommendations presented in this report are based on information which may include: 1) information and data provided by third party consultants, 2) the exploratory test borings drilled at the site, 3) the observations of field personnel, 4) the results of laboratory analyses, and 5) interpretations of federal, state, and local regulations and/or ordinances. Any conclusions presented are based on the assumption that conditions do not deviate from those observed during the assessment. It is recognized that the assessment is not intended to be a definitive study of environmental conditions at the site. It is understood that other conditions may exist at the site which could not be identified from the limited information discovered within the scope of the assessment.

Chemical analytical data, if included in this report, have been obtained from state certified laboratories. The analytical methods employed by the laboratories were in accordance with procedures suggested by the U. S. Environmental Protection Agency and/or State of California. CET Environmental Services, Inc. is not responsible for laboratory errors in procedures or reporting.

CET has conducted this investigation in a manner consistent with the level of care and skill ordinarily exercised by members of the environmental consulting profession currently practicing under similar conditions in northern California. CET has prepared this report for the client's (and assigned parties) exclusive use for this particular project. No other warranties, expressed or implied, as to the professional advice provided are made.